

New York State Transmission Assessment and Reliability Study (STARS)

Phase I Appendices

Phase 1 – “As Is” Transmission System

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**APPENDIX A – SUMMARY OF MODELING CHANGES PROVIDED BY
NATIONAL GRID FOR AREA 11 (LIPA)**

1. Ratings for the Northport 138 kV PAR (buses 129343-129344) are modified as follows: Rate A = 450 MVA, Rate B = 540 MVA, and Rate C = 675 MVA.
2. There are three 138 kV cables between Northport and Norwalk Harbor; ratings for each cable are modified as: Rate A = 100 MVA, Rate B = 112 MVA, and Rate C = 175 MVA.
3. The ratings for the 138/115 kV transformer at Norwalk Harbor (buses 103166-103171) are changed to 570/675/675 MVA.
4. Remove bus 129347 NPT-REAC and add to right bus_3.
5. Delete Neptune extra bus and add capacitor at right bus.
6. EGC fourth line in service.
7. GrumanCDeleted.
8. Remove Airborne.
9. NYPA Southold load.
10. Pines 69 kv fix.
11. Central Islip 138kV fix.
12. Brentwood extra buses fix.
13. Caithness model fix.
14. Bagatelle fix.
15. Load fix.
16. Rename Brookhaven buses.
17. Brentwood PS-Kings Hwy.
18. Eastport & Moriches 138kv deleted
19. Delete Plainview 138 kV.
20. Delete Smithtown LF.
21. NLinderhurst
22. Bellmore PS
23. Fix miscellaneous line ratings.

APPENDIX B – SUB, MON AND CON FILES FOR SECURITY ANALYSIS

B.1 Subsystem Description File

File STARS.sub

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

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

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

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

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

COM *****

/ *** EXPORTS ***

subsystem ROS
  areas 1 9
end

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

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

subsystem 'HQ-Cedres'
  area 107
end

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

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

```

subsystem 'NYC'
  area 10
  scale all for import
end

subsystem 'LI'
  area 11
  scale all for import
end

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

subsystem NE
  area 101
  scale all for export include offline
end

subsystem ONT
  area 103
  scale all for export include offline
end

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

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

subsystem K
  area 11
end

subsystem 'A_export'
  area 1
  scale all for export
end

subsystem 'B_export'
  area 2
  scale all for export
end

subsystem 'C_export'
  area 3
  scale all for export
end

subsystem 'D_export'
  area 4
  scale all for export
end

```

```

subsystem 'E_export'
  area 5
  scale all for export
end

subsystem 'F_export'
  area 6
  scale all for export
end

subsystem 'G_export'
  area 7
  scale all for export
end

subsystem 'H_export'
  area 8
  scale all for export
end

subsystem 'I_export'
  area 9
  scale all for export
end

subsystem 'J_export'
  area 10
  scale all for export
end

subsystem 'K_export'
  area 11
  scale all for export
end

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

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

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

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

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

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

```



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

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

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

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

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

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

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

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

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

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

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

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

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

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

```
end

subsystem 'G_import'
  area 7
  scale all for import
end

subsystem 'G_load'
  area 7
  scale all load
end

subsystem 'H_import'
  area 8
  scale all for import
end

subsystem 'h_load'
  area 8
  scale all load
end

subsystem 'i_load'
  area 9
  scale all load
end

subsystem 'J_import'
  area 10
  scale all for import
end

subsystem 'j_load'
  area 10
  scale all load
end

subsystem 'K_import'
  area 11
  scale all for import
end

subsystem 'k_load'
  area 11
  scale all load
end

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

subsystem 'GHI_load'
  areas 7 9
  scale all load
end

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

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

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

```

subsystem 'fghi_load'
  areas 6 9
  scale all load
end

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

subsystem 'hi_load'
  areas 8 9
  scale all load
end

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

subsystem 'hij_load'
  areas 8 10
  scale all load
end

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

subsystem 'hijk_load'
  areas 8 11
  scale all load
end

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

subsystem 'SENY_load'
  areas 7 11
  scale all load
end

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

subsystem 'NYHV'
  areas 1 11
end

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

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

```

```

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

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

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

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

SUBSYSTEM INERTIANYC
  PARTICIPATE
    SUBSYSTEM SCALE_NYC 100.00
  END
END

INCLUDE DB2008_INERTIA.sub

END / END FILE

```

File DB2008_INERTIA.sub

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

```

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

SUBSYSTEM INERTIANYC
PARTICIPATE
SUBSYSTEM SCALE_NYC           100.00
END
END

END / End File

```

B.2 Monitored Element File

File STARS-Intact.mon

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

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

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

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

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

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

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

/
/ Rest of State
```

```
/      wind study task 5
/

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

/ Monitor all NY interfaces

COM INCLUDE db2008_nyca-wind.mon

END / END FILE
```


File STARS-Con.mon

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

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

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

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

/
/ Rest of State
/ wind study task 5
/

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

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

/ Monitor all NY interfaces

INCLUDE db2008_nyca-wind.mon
```

END / END FILE

B.3 Contingency Description File

File STARS.con

```
COM
COM
COM *****
COM *   To allow for tripping of switched shunts individually, please   *
COM *   RUN "MOVE_SW_SHUNTS.IDV" ON BASE CASE BEFORE USING THIS FILE   *
COM *                                                                 *
COM *   If you do not wish to do so, it will not have adverse affects  *
COM *   on the function of this .CON file.                             *
COM *                                                                 *
COM *   Switched shunt CAPACITORS start at bus# 101                   *
COM *   Switched shunt REACTORS start at bus# 150                     *
COM *   (see spreadsheet for details)                                 *
COM *                                                                 *
COM *****
COM
COM
COM
COM
COM
COM *****
COM * INERTIAL REDISPATCH FOR ALL IMBALANCES CAUSED BY CONTINGENCIES *
COM *****
DEFAULT DISPATCH
  SUBSYSTEM INERTIA
END
COM
=====
COM ==   ALL CONTINGENCIES CONTAINED IN 'DB2008_COMMON.CON' ARE COMMON TO ALL DB2008 .CON
FILES ==
COM
=====

INCLUDE NGrid-Mar312009.con
COM INCLUDE DB2008_emer.con           / ehv emergency transfer limited set
  COM INCLUDE windtask5_COMMON.con    / full run
  COM include windtask5_local-115.con /

COM #####

COM *****
COM * Copied from DB2008_emer.con by ABB on March 13, 2009 *
COM *           Stuck Break Contingencies excluded         *
COM *****
COM ***** Draft 1-fixed errors for NYCA ctg only, HVDC and neighboring ones unchanged in this
Draft1*****
COM *
*
COM *           - April 1 FERC715 summer 2012 case -
*
COM
*****
****
COM *                                                                 *
COM *   This file contains contingencies common to all contingency files. *
COM *           !!DO NOT USE THIS FILE BY ITSELF!!                   *
COM *                                                                 *
COM *   This file is meant to be included in other .CON files using the *
COM *   INCLUDE command. This file must be in the same directory as the *
COM *   file it is included in.                                       *
COM *                                                                 *
COM *****
```

```

COM
COM
COM *****
COM * To allow for tripping of switched shunts individually, please *
COM * RUN "MOVE_SW_SHUNTS.IDV" ON BASE CASE BEFORE USING THIS FILE *
COM * *
COM * If you do not wish to do so, it will not have adverse affects *
COM * on the function of this .CON file. *
COM * *
COM * Switched shunt CAPACITORS start at bus# 101 *
COM * Switched shunt REACTORS start at bus# 150 *
COM * (see spreadsheet for details) *
COM * *
COM *****
COM
COM ***** /
COM * TOWER CONTINGENCIES * /
COM ***** /
COM ***** /
COM * GENERATION CONTINGENCIES * /
COM ***** /
COM /
CONTINGENCY 'GEN:NYP_A_S' / L/O ST UNIT RESULTED IN L/O PLANT
  REMOVE UNIT 1 FROM BUS 147788 /
  REMOVE UNIT 1 FROM BUS 147789 /
  REMOVE UNIT 1 FROM BUS 147790 /
END /
CONTINGENCY 'GEN:SCS AST' / L/O GAS COMPRESSOR RESULTED IN
L/O PLANT
  REMOVE UNIT 1 FROM BUS 126667 /
  REMOVE UNIT 1 FROM BUS 126668 /
  REMOVE UNIT 1 FROM BUS 126669 /
END /
CONTINGENCY 'GEN:IND PT 2' /
  REMOVE UNIT 2 FROM BUS 126651 /
END /
CONTINGENCY 'GEN:IND PT 3' /
  REMOVE UNIT 1 FROM BUS 147798 /
END /
CONTINGENCY 'GEN:RAVNWD 3' /
  REMOVE UNIT 1 FROM BUS 126652 /
  REMOVE UNIT 2 FROM BUS 126652 /
END /
CONTINGENCY 'GEN:BOWL PT2' /
  REMOVE UNIT 2 FROM BUS 146840 /
END /
CONTINGENCY 'GEN:BOWL PT1' /
  REMOVE UNIT 1 FROM BUS 146841 /
END /
CONTINGENCY 'GEN:FITZPATR' /
  REMOVE UNIT 1 FROM BUS 147797 /
  TRIP BRANCH FROM BUS 147830 TO BUS 136155 CKT 1 / 10 JA FITZP 345 SCRIBA 345
  TRIP BRANCH FROM BUS 147830 TO BUS 137200 CKT 1 / FEL JA FITZP 345 EDIC 345
END
CONTINGENCY 'GEN:9 MI PT1' /
  REMOVE UNIT 1 FROM BUS 136701 /
  TRIP BRANCH FROM BUS 136157 TO BUS 136150 CKT 1 / 8 9MI PT1 345 CLAY 345
  TRIP BRANCH FROM BUS 136155 TO BUS 136157 CKT 1 / 9 SCRIBA 345 9MI PT1 345
END /
CONTINGENCY 'GEN:9 MI PT2' /
  REMOVE UNIT 2 FROM BUS 136700 /
END /
CONTINGENCY 'GEN:GINNA ' /
  REMOVE UNIT 1 FROM BUS 149140 /
END /
CONTINGENCY 'GEN:KINTIGH ' /
  REMOVE UNIT 1 FROM BUS 130873 /
END /
CONTINGENCY 'GEN:BRUCE 6 ' /
  REMOVE UNIT 1 FROM BUS 159617 /
END /

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CONTINGENCY 'GEN:NANTCK 8' /
  REMOVE UNIT 1 FROM BUS 158743 /
END /
CONTINGENCY 'GEN:PICKER 6' /
  REMOVE UNIT 1 FROM BUS 156683 /
END /
CONTINGENCY 'GEN:SALEM ' /
  REMOVE UNIT 1 FROM BUS 36 /
END /
/
CONTINGENCY 'GEN:PEACHBTM' /
  REMOVE UNIT 1 FROM BUS 34 /
END /
CONTINGENCY 'GEN:MARTN CK' /
  REMOVE UNIT 4 FROM BUS 3151 /
END /
CONTINGENCY 'GEN:VT YANK ' /
  REMOVE UNIT 1 FROM BUS 100705 /
END /
CONTINGENCY 'GEN:NTHF 3&4' /
  REMOVE UNIT 4 FROM BUS 103084 /
  REMOVE UNIT 3 FROM BUS 103083 /
END /
CONTINGENCY 'GEN:MILLST 3' /
  REMOVE UNIT 3 FROM BUS 103563 /
END /
CONTINGENCY 'GEN:SEABROOK' /
  REMOVE UNIT 1 FROM BUS 102869 /
END /
CONTINGENCY 'GEN:MLS3&OMS' /
  TRIP BRANCH FROM BUS 100509 TO BUS 100508 CKT 2 / INDUCTOR 115 SAND BAR 115
  REMOVE UNIT 3 FROM BUS 103563 /
END /
CONTINGENCY 'GEN:SEAB&OMS' /
  TRIP BRANCH FROM BUS 100509 TO BUS 100508 CKT 2 / INDUCTOR 115 SAND BAR 115
  REMOVE UNIT 1 FROM BUS 102869 /
END /
COM ***** /
COM * SERIES ELEMENT CONTINGENCIES * /
COM ***** /
CONTINGENCY 'SER:W93&W79' /
  TRIP BRANCH FROM BUS 126262 TO BUS 126267 CKT 1 / W93 BUCH N 345 E VIEW1 345
  TRIP BRANCH FROM BUS 126298 TO BUS 126267 CKT 1 / W79 SPRBROOK 345 E VIEW1 345
  TRIP BRANCH FROM BUS 126378 TO BUS 126267 CKT 1 / 2N EASTVIEW 138 E VIEW1 345
END /
CONTINGENCY 'SER:W85&W78' /
  TRIP BRANCH FROM BUS 126291 TO BUS 126268 CKT 1 / W85 MILLWOOD 345 E VIEW2 345
  TRIP BRANCH FROM BUS 126298 TO BUS 126268 CKT 1 / W78 SPRBROOK 345 E VIEW2 345
  TRIP BRANCH FROM BUS 126378 TO BUS 126268 CKT 1 / 1S EASTVIEW 138 E VIEW2 345
END /
CONTINGENCY 'SER:W99&W64' /
  TRIP BRANCH FROM BUS 126291 TO BUS 126269 CKT 1 / W99 MILLWOOD 345 E VIEW3 345
  TRIP BRANCH FROM BUS 126298 TO BUS 126269 CKT 2 / W64 SPRBROOK 345 E VIEW3 345
  TRIP BRANCH FROM BUS 126378 TO BUS 126269 CKT 1 / 1N EASTVIEW 138 E VIEW3 345
END /
CONTINGENCY 'SER:W82&W65' /
  TRIP BRANCH FROM BUS 126291 TO BUS 126270 CKT 1 / W82 MILLWOOD 345 E VIEW4 345
  TRIP BRANCH FROM BUS 126298 TO BUS 126270 CKT 1 / W65 SPRBROOK 345 E VIEW4 345
  TRIP BRANCH FROM BUS 126378 TO BUS 126270 CKT 1 / 2S EASTVIEW 138 E VIEW4 345
END /
CONTINGENCY 'SER:F30&W80' /
  TRIP BRANCH FROM BUS 126294 TO BUS 126306 CKT 1 / F30 PLTVLLEY 345 WOOD B 345
  TRIP BRANCH FROM BUS 126291 TO BUS 126306 CKT 1 / W80 MILLWOOD 345 WOOD B 345
  TRIP BRANCH FROM BUS 126306 TO BUS 130759 CKT 1 / ZILW1 WOOD B 345 WOODB345 345
  TRIP BRANCH FROM BUS 130759 TO BUS 130865 CKT 1 / TRW1 WOOD B 345 WOODB115 115
END /
CONTINGENCY 'SER:F38&Y86' /
  TRIP BRANCH FROM BUS 126281 TO BUS 126292 CKT 1 / F38 FISHKILL 345 PL VILLE 345
  TRIP BRANCH FROM BUS 126292 TO BUS 126733 CKT 1 / T1 PL VILLE 345 PLTVILLE 13
  DISCONNECT BUS 126292 / BUS PL VILLE 345 (20 MVAR REACTOR)
END /

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CONTINGENCY 'SER:F39&Y87' /

TRIP BRANCH FROM BUS 126281 TO BUS 126305 CKT 1 / F39	FISHKILL 345	WOOD A	345
TRIP BRANCH FROM BUS 126293 TO BUS 126305 CKT 1 / Y87	PL VILLW 345	WOOD A	345
TRIP BRANCH FROM BUS 126305 TO BUS 130758 CKT 1 /	WOOD A	345	WOODA345 345
TRIP BRANCH FROM BUS 130758 TO BUS 130865 CKT 1 / T2	WOODA345 345	WOODS115	115

END /

CONTINGENCY 'SER:W90&W74' /

TRIP BRANCH FROM BUS 126266 TO BUS 126293 CKT 1 / W90	DUNWODIE 345	PL VILLW	345
TRIP BRANCH FROM BUS 126342 TO BUS 126368 CKT 1 / W74	DUNWODIE 345	DUN NO	138
TRIP BRANCH FROM BUS 126293 TO BUS 126733 CKT 1 / T2	PL VILLW 345	PLTVILLE	13
DISCONNECT BUS 126293 / BUS	PL VILLW 345 (20 MVAR REACTOR)		

END /

CONTINGENCY 'SER:W89&W73' /

TRIP BRANCH FROM BUS 126266 TO BUS 126292 CKT 1 / W89	DUNWODIE 345	PL VILLE	345
TRIP BRANCH FROM BUS 126343 TO BUS 126372 CKT 1 / W73	DUNWODIE 345	DUN SO	138

END /

CONTINGENCY 'SER:Y94&TA5' /

TRIP BRANCH FROM BUS 126297 TO BUS 126262 CKT 1 / Y94	RAMAPO 345	BUCH N	345
TRIP BRANCH FROM BUS 126360 TO BUS 126262 CKT 1 / TA5	BUCHNTA5 138	BUCH N	345

END /

CONTINGENCY 'SER:OSWEG->LAFAY' /

TRIP BRANCH FROM BUS 136152 TO BUS 136153 CKT 1 / 17	ELBRIDGE 345	LAFAYTTE	345
TRIP BRANCH FROM BUS 136152 TO BUS 136154 CKT 1 / 17	ELBRIDGE 345	OSWEGO	345
TRIP BRANCH FROM BUS 136152 TO BUS 136191 CKT 1 / XFMR	ELBRIDGE 345	ELBRIDGE	115

END /

CONTINGENCY 'SER:69 & J ' /

TRIP BRANCH FROM BUS 126297 TO BUS 146752 CKT 1 / 69	RAMAPO 345	SMAHWAH1	345
TRIP BRANCH FROM BUS 146752 TO BUS 9804 CKT 1 / XFMR	SMAHWAH1 345	S. MAHWAH	138
TRIP BRANCH FROM BUS 5028 TO BUS 146752 CKT 1 / J3410	WALDWICK 345	SMAHWAH1	345

END /

CONTINGENCY 'SER:70 & K ' /

TRIP BRANCH FROM BUS 126297 TO BUS 146753 CKT 1 / 70	RAMAPO 345	SMAHWAH2	345
TRIP BRANCH FROM BUS 5028 TO BUS 146753 CKT 1 / K3411	WALDWICK 345	SMAHWAH2	345

END /

CONTINGENCY 'SER:393&312' /

COM TRIP BRANCH FROM BUS 137450 TO BUS 137452 CKT 1 / ALPS345 345 GE SELKR 345/N.SCOT	ALPS345 345	MANY393	345
TRIP BRANCH FROM BUS 137450 TO BUS 102928 CKT 1 / 393	MANY393 345	BERKSHIR	345
TRIP BRANCH FROM BUS 102928 TO BUS 102924 CKT 1 /	BERK 345 345	NRTHF345	345
TRIP BRANCH FROM BUS 102924 TO BUS 102926 CKT 1 /	BERK 345 345	BERKSHIR	115
TRIP BRANCH FROM BUS 102924 TO BUS 102952 CKT 1 /			

END /

CONTINGENCY 'SER:PORTER_17&T4' /

TRIP BRANCH FROM BUS 137200 TO BUS 137210 CKT 1 / 17	EDIC 345	PORTER 2	230
TRIP BRANCH FROM BUS 137200 TO BUS 137235 CKT 2 / T4	EDIC 345	PORTER 1	115

END /

CONTINGENCY 'SER:MASS765/230_1' /

TRIP BRANCH FROM BUS 147828 TO BUS 147837 CKT 1 / XFMR #1	MASS 765 765	MASS230A	230
TRIP BRANCH FROM BUS 147837 TO BUS 147839 CKT 1 / MMS1	MASS230A 230	MOSES E	230

END /

CONTINGENCY 'SER:MASS765/230_2' /

TRIP BRANCH FROM BUS 147828 TO BUS 147838 CKT 1 / XFMR #2	MASS 765 765	MASS230B	230
TRIP BRANCH FROM BUS 147838 TO BUS 147839 CKT 1 / MMS2	MASS230B 230	MOSES E	230

END /

CONTINGENCY 'SER:CMT34&MTR34' / COOP. CORNERS > SHOEMTAP > ROCK TAV

TRIP BRANCH FROM BUS 130750 TO BUS 146754 CKT 1 / CMT-34	COOPC345 345	SHOEMTAP	345
TRIP BRANCH FROM BUS 146754 TO BUS 125001 CKT 1 / MTR-34	SHOEMTAP 345	ROCK TAV	345

END /

CONTINGENCY 'SER:OAKDALE_WATRC230' /

TRIP BRANCH FROM BUS 130768 TO BUS 130772 CKT 1 / 71	WATRC230 230	SHRED230	230
TRIP BRANCH FROM BUS 130772 TO BUS 130765 CKT 1 / 71	SHRED230 230	OAKDL230	230
TRIP BRANCH FROM BUS 130765 TO BUS 130838 CKT 1 / T1	OAKDL230 230	OAKDL115	115

END /

CONTINGENCY 'SER:STOLLE345/115' /

TRIP BRANCH FROM BUS 130756 TO BUS 130857 CKT 1 / T3	STOLE345 345	STOLE115	115
TRIP BRANCH FROM BUS 130756 TO BUS 130857 CKT 2 / T4	STOLE345 345	STOLE115	115

END /

COM CONTINGENCY 'SER:REYNOLDS_345/115_OLD' / see New Projects: BESICORP ESNP

COM TRIP BRANCH FROM BUS 137450 TO BUS 137454 CKT 1 /	ALPS345 345	REYNLD3	345
COM TRIP BRANCH FROM BUS 137454 TO BUS 137528 CKT 1 / T2	REYNLD3 345	REY. RD.	115

COM END /

CONTINGENCY 'SER:HQ-NY 765' / SPS PA-11

TRIP BRANCH FROM BUS 147827 TO BUS 147828 ckt 1 / MSU-1	MARCY765 765	MASS 765 765
TRIP BRANCH FROM BUS 147828 TO BUS 180819 ckt 1 /	MASS 765 765	CHATG-NY 765
DISCONNECT BUS 156 / DUMMY BUS	MARCY765 SW. SHUNT 200MVAR REAC #7223	
DISCONNECT BUS 158 / DUMMY BUS	MASS 765 SW. SHUNT 200MVAR REAC #7222	
DISCONNECT BUS 157 / DUMMY BUS	MASS 765 SW. SHUNT 200MVAR REAC #7122	
END		
CONTINGENCY 'SER:PV_LM_398'		
TRIP BRANCH FROM BUS 103105 TO BUS 103117 CKT 1 /	LONG MTN 345	CTNY398 345
TRIP BRANCH FROM BUS 103117 TO BUS 126294 CKT 1 / 398		CTNY398 345 PLTVLLEY 345
END		
CONTINGENCY 'SER:42&26'		
DISCONNECT BUS 126465 / 42	FARRAGUT 345	GOWANUSS 345
TRIP BRANCH FROM BUS 126285 TO BUS 126287 CKT 1 / 26	GOTHLS S 345	GOWANUSS 345
END		
CONTINGENCY 'SER:41&25'		
DISCONNECT BUS 126464 / 41		FARRAGUT 345
GOWANUSN 345		
TRIP BRANCH FROM BUS 126283 TO BUS 126286 CKT 1 / 25	GOTHLS N 345	GOWANUSN 345
END		
CONTINGENCY 'SER:HC-SR_37&W-F_171'		
TRIP BRANCH FROM BUS 200769 TO BUS 135398 CKT 1 / 37	HOMER CY 345	STOLE345 345
TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 / 171	WARREN 115	FALCONER 115
END		
CONTINGENCY 'SER:HC-WC_30&W-F_171'		
TRIP BRANCH FROM BUS 200769 TO BUS 130757 CKT 1 / 30	HOMER CY 345	WATRC345 345
TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 / 171	WARREN 115	FALCONER 115
END		
CONTINGENCY 'SER:HNTLY_GRDNVL_79'		
TRIP BRANCH FROM BUS 135414 TO BUS 135306 CKT 1 / 79	HUNTLEY2 230	SAWYER79 230
TRIP BRANCH FROM BUS 135306 TO BUS 135418 CKT 1 / 79	SAWYER79 230	SUNY-79 230
TRIP BRANCH FROM BUS 135413 TO BUS 135418 CKT 1 / 79	GRDNVL2 230	SUNY-79 230
END		
CONTINGENCY 'SER:HNTLY_GRDNVL_80'		
TRIP BRANCH FROM BUS 135414 TO BUS 135305 CKT 1 / 80	HUNTLEY2 230	SAWYER80 230
TRIP BRANCH FROM BUS 135305 TO BUS 135419 CKT 1 / 80	SAWYER80 230	SUNY-80 230
TRIP BRANCH FROM BUS 135413 TO BUS 135419 CKT 1 / 80	GRDNVL2 230	SUNY-80 230
END		
CONTINGENCY 'SER:MEYER_HILLSD_68'		
DISCONNECT BUS 130761 / 68	MEYER230 230-AVOCA230 230-	
HILLSD230 230		
END		
CONTINGENCY 'SER:C398/NWES'		
TRIP BRANCH FROM BUS 200675 TO BUS 409 CKT 1 /	E.TWANDA 230	GROVER 230
TRIP BRANCH FROM BUS 200675 TO BUS 130763 CKT 1 /	E.TWANDA 230	HILLSD230 230
TRIP BRANCH FROM BUS 200675 TO BUS 381 CKT 1 /	E.TWANDA 230	TOWANDA 115
TRIP BRANCH FROM BUS 200676 TO BUS 130836 CKT 1 /	E.SAYRE 115	N.WAV115 115
END		
CONTINGENCY 'SER:ETHS/NWES'		
TRIP BRANCH FROM BUS 200675 TO BUS 130763 CKT 1 /	E.TWANDA 230	HILLSD230 230
TRIP BRANCH FROM BUS 200676 TO BUS 130836 CKT 1 /	E.SAYRE 115	N.WAV115 115
END		
CONTINGENCY 'SER:HCWC/NWES'		
TRIP BRANCH FROM BUS 200769 TO BUS 130757 CKT 1 /	HOMER CY 345	WATRC345 345
TRIP BRANCH FROM BUS 200676 TO BUS 130836 CKT 1 /	E.SAYRE 115	N.WAV115 115
END		
CONTINGENCY 'SER:EESR/NWES'		
TRIP BRANCH FROM BUS 200654 TO BUS 135251 CKT 1 / 69	ERIE E 230	S RIPLEY 230
TRIP BRANCH FROM BUS 200676 TO BUS 130836 CKT 1 /	E.SAYRE 115	N.WAV115 115
END		
CONTINGENCY 'SER:EESR/WRFL'		
TRIP BRANCH FROM BUS 200654 TO BUS 135251 CKT 1 / 69	ERIE E 230	S RIPLEY 230
TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 /	WARREN 115	FALCONER 115
END		
CONTINGENCY 'SER:ESEE/WRFL' / MODIFIED FOR SUM07-7 FERC CASE		
TRIP BRANCH FROM BUS 531 TO BUS 270 CKT 1 /	ERIE SE 230	ERIE S 230
TRIP BRANCH FROM BUS 531 TO BUS 200654 CKT 1 /	ERIE SE 230	ERIE E 230
TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 / WARREN 115	FALCONER 115	
END		
COM CONTINGENCY 'SER:DKSR/WRFL_OLD' / see New Projects: CHAUTAUQUA WIND 230		
COM TRIP BRANCH FROM BUS 135250 TO BUS 135251 CKT 1 / 68	DUNKIRK 230	S RIPLEY 230
COM TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 /	WARREN 115	FALCONER 115

COM END

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COM CONTINGENCY 'SER:FRGT/WRFL' /see New Projects: CHAUTAUQUA WIND 230
COM TRIP BRANCH FROM BUS 200581 TO BUS 200588 CKT 1 / FOREST 230 GLADE
TP 230
COM TRIP BRANCH FROM BUS 200593 TO BUS 200588 CKT 1 / GLADE 230 GLADE
TP 230
COM TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 / WARREN 115 FALCONER 115
COM END
CONTINGENCY 'SER:EESR/WF/NWES'
TRIP BRANCH FROM BUS 200654 TO BUS 135251 CKT 1 / ERIE E 230 S RIPLEY 230
TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 / WARREN 115 FALCONER 115
TRIP BRANCH FROM BUS 200676 TO BUS 130836 CKT 1 / E.SAYRE 115 N.WAV115 115
END
com CONTINGENCY 'SER:MW1&WP1' / see New Projects: "WILLIS-PLATTS WIND PROJECTS"
com TRIP BRANCH FROM BUS 147840 TO BUS 147845 CKT 1 / MW1 MOSES W 230 WILLIS E 230
com TRIP BRANCH FROM BUS 147845 TO BUS 147843 CKT 1 / WP1 WILLIS E 230 PLAT T#1 230
com TRIP BRANCH FROM BUS 147843 TO BUS 147922 CKT 1 / T1 PLAT T#1 230 PLAT 115 115
com END
com CONTINGENCY 'SER:MW2&WP2' / see New Projects: "WILLIS-PLATTS WIND PROJECTS"
com TRIP BRANCH FROM BUS 147840 TO BUS 147846 CKT 1 / MW2 MOSES W 230 WILLIS W 230
com TRIP BRANCH FROM BUS 147846 TO BUS 147844 CKT 1 / WP2 WILLIS W 230 PLAT T#4 230
com TRIP BRANCH FROM BUS 147844 TO BUS 147922 CKT 1 / T4 PLAT T#4 230 PLAT 115 115
com END
COM *****
COM * BUS CONTINGENCIES *
COM *****
CONTINGENCY 'BUS:RTRDM 77 BUS' / L/O 75 MVAR SHUNT CAP #3
TRIP BRANCH FROM BUS 137730 TO BUS 137204 CKT 1 / 30 ROTRDM.2 230 PORTER 2 230
TRIP BRANCH FROM BUS 137730 TO BUS 137532 CKT 3 / T8 ROTRDM.2 230 ROTT 115 115
DISCONNECT BUS 114 / DUMMY BUS ROTTERDAM 77 SW. SHUNT CAP
END /
CONTINGENCY 'BUS:RTRDM 99 BUS' / L/O 75 MVAR SHUNT CAP #4
TRIP BRANCH FROM BUS 137730 TO BUS 137210 CKT 2 / 31 ROTRDM.2 230 PORTER 2 230
TRIP BRANCH FROM BUS 137730 TO BUS 137532 CKT 2 / T7 ROTRDM.2 230 ROTT 115 115
TRIP BRANCH FROM BUS 137730 TO BUS 102385 CKT 1 / E205 ROTRDM.2 230 BEAR 230 230
DISCONNECT BUS 115 / DUMMY BUS ROTTERDAM 99 SW. SHUNT CAP
END /
CONTINGENCY 'BUS:N.S._77'
DISCONNECT BUS 137452 / NEW SCOTLAND 77 BUS
END
CONTINGENCY 'BUS:N.S._99'
DISCONNECT BUS 137453 / NEW SCOTLAND 99 BUS
END
CONTINGENCY 'BUS:ALPS_345'
DISCONNECT BUS 137450 / ALPS BUS
END
CONTINGENCY 'BUS:WOODA_345'
DISCONNECT BUS 126305 / WOOD ST A
END
CONTINGENCY 'BUS:WOODB_345'
DISCONNECT BUS 126306 / WOOD ST B
END
CONTINGENCY 'BUS:PLVILLW_345'
DISCONNECT BUS 126293 / PLEASANTVILLE WEST
END
CONTINGENCY 'BUS:PLVILLE_345'
DISCONNECT BUS 126292 / PLEASANTVILLE EAST
END
CONTINGENCY 'BUS:SHORE_RD_345'
DISCONNECT BUS 128835 / SHORE RD
DISCONNECT BUS 150 / DUMMY BUS DUNWOODIE SW. SHUNT 150MVAR REAC
END
CONTINGENCY 'BUS:EGC_345'
DISCONNECT BUS 126299 / REACTOR BUS
DISCONNECT BUS 147857 / DVNPT NK
DISCONNECT BUS 128830 / HMP HRBR
DISCONNECT BUS 128824 / EGC DUM
DISCONNECT BUS 128825 / EGC PAR
END
CONTINGENCY 'BUS:GOWANUS_N_345'
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DISCONNECT BUS 126286 / GOWANUS N
END
CONTINGENCY 'BUS:GOWANUS_S_345'
DISCONNECT BUS 126287 / GOWANUS S
END
CONTINGENCY 'BUS:GOETHALS_N_345'
DISCONNECT BUS 126283 / GOETHALS N
END
CONTINGENCY 'BUS:GOETHALS_S_345'
DISCONNECT BUS 126285 / GOETHALS S
END
CONTINGENCY 'BUS:E13TH_45_345'
DISCONNECT BUS 126272 / E15 ST 45 345
END
CONTINGENCY 'BUS:E13TH_46_345'
DISCONNECT BUS 126273 / E15 ST 46 345
END
CONTINGENCY 'BUS:E13TH_47_345'
DISCONNECT BUS 126274 / E15 ST 47 345
DISCONNECT BUS 159 / ASTORIA SW. SHUNT 150MVAR REAC #61
END
CONTINGENCY 'BUS:E13TH_48_345'
DISCONNECT BUS 126275 / E15 ST 48 345
DISCONNECT BUS 160 / ASTORIA SW. SHUNT 150MVAR REAC #62
END
CONTINGENCY 'BUS:TREMONT_345'
DISCONNECT BUS 126466 / BUS PARK CHESTER
DISCONNECT BUS 126467 / BUS PARK CHESTER
DISCONNECT BUS 126462 / BUS TREMONT
DISCONNECT BUS 126463 / BUS TREMONT
DISCONNECT BUS 126301 / BUS TREMONT
END
CONTINGENCY 'BUS:WATERCURE_345'
DISCONNECT BUS 130757 / WATERCURE 345
END
CONTINGENCY 'BUS:WATERCURE_230'
DISCONNECT BUS 130768 / WATERCURE 230
END

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COM
COM ***** /
COM * HVDC CONTINGENCIES * /
COM * * * /
COM * HVDC IS TREATED IN DC CALCULATIONS AS LOAD * /
COM * * * /
COM * THAT IS WHY REAL LOAD IS NOT PERMITTED AT * /
COM * DC TERMINALS * /
COM * * * /
COM * TO TRIP HVDC SET THE LOAD AT BOTH THE * /
COM * RECTIFIER AND INVERTER TO ZERO * /
COM ***** /
CONTINGENCY 'HQ SYNC DC ' /
SET BUS 100547 LOAD TO 0 MW DISPATCH / HIGHGATE 115 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L

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BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98 / 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
SET BUS 190490 LOAD TO 0 MW DISPATCH / ERHQ D 230 INVERTER /
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98 / 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
SET BUS 190497 LOAD TO 0 MW DISPATCH / ERHQ D 230 INVERTER /
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE

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BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98 / 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
/
SET BUS 190675 LOAD TO 0 MW DISPATCH / MADNBR47 345 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98/ 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
/
END
/
CONTINGENCY 'SYNC DC &OMS'
/
TRIP BRANCH FROM BUS 100509 TO BUS 100508 CKT 2 / INDUCTOR 115 SAND BAR 115
SET BUS 100547 LOAD TO 0 MW DISPATCH / HIGHGATE 115 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS

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BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98/ 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
SET BUS 190490 LOAD TO 0 MW DISPATCH / ERHQ D 230 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1      NEPOOL
BUS 101949 1.05 / SALEM G4      NEPOOL
BUS 102370 1.05 / BRAYTONG3   NEPOOL
BUS 100367 1.05 / WF WY #3     NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS   35 2.67 / PEACH B113.0 PJM
BUS   372 0.79 / SHAWVIL322.0 PENELEC
BUS  1727 0.38 / PORTLND215.0 METED
BUS  2895 0.62 / OYSTR CK24.0 JCP&L
BUS  3151 1.68 / MARTN C418.0 PP&L
BUS   4113 0.92 / EDDYSTO313.0 PE
BUS   5059 1.03 / HUDSON 113.0 PSE&G
BUS   5901 0.78 / BRNDN SH13.0 BG&E
BUS   7105 1.16 / CHALK PT 230 PEPSCO
BUS   8103 0.28 / BLE #3 20.0 AE
BUS   8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98/ 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
SET BUS 190497 LOAD TO 0 MW DISPATCH / ERHQ D 230 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1      NEPOOL
BUS 101949 1.05 / SALEM G4      NEPOOL
BUS 102370 1.05 / BRAYTONG3   NEPOOL
BUS 100367 1.05 / WF WY #3     NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS   35 2.67 / PEACH B113.0 PJM
BUS   372 0.79 / SHAWVIL322.0 PENELEC
BUS  1727 0.38 / PORTLND215.0 METED
BUS  2895 0.62 / OYSTR CK24.0 JCP&L
BUS  3151 1.68 / MARTN C418.0 PP&L
BUS   4113 0.92 / EDDYSTO313.0 PE
BUS   5059 1.03 / HUDSON 113.0 PSE&G
BUS   5901 0.78 / BRNDN SH13.0 BG&E
BUS   7105 1.16 / CHALK PT 230 PEPSCO
BUS   8103 0.28 / BLE #3 20.0 AE
BUS   8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98/ 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS

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BUS 180001 0.09 / BHNO2 2413.8 HQ
END
SET BUS 190675 LOAD TO 0 MW DISPATCH / MADNBR47 345 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98/ 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
END
CONTINGENCY 'SANDY DC '
SET BUS 101786 LOAD TO 0 MW DISPATCH / SANDY345 345 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98/ 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
END

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CONTINGENCY 'SANDY DC&OMS'
TRIP BRANCH FROM BUS 100508 TO BUS 100509 CKT 2 / INDUCTOR 115 SAND BAR 115
SET BUS 101786 LOAD TO 0 MW DISPATCH / SANDY345 345 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPKO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98 / 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
END
COM *****
COM * END HVDC *
COM *****
COM
CONTINGENCY Q24HM
TRIP BRANCH FROM BUS 157052 TO BUS 158103 CKT 1 / BECK2 DK 220 TO HANONJ24 220
TRIP BRANCH FROM BUS 158066 TO BUS 158103 CKT 1 / BEACH 220 TO HANONJ24 220
TRIP BRANCH FROM BUS 158103 TO BUS 158147 CKT 1 / HANONJ24 220 TO NEBOJQ24 220
END
CONTINGENCY Q29HM
TRIP BRANCH FROM BUS 157052 TO BUS 158105 CKT 1 / BECK2 DK 220 TO HANONJ29 220
TRIP BRANCH FROM BUS 158066 TO BUS 158105 CKT 1 / BEACH 220 TO HANONJ29 220
TRIP BRANCH FROM BUS 158105 TO BUS 158148 CKT 1 / HANONJ29 220 TO NEBOJQ29 220
TRIP BRANCH FROM BUS 158148 TO BUS 158069 CKT 1 / NEBOJQ29 220 TO MIDDLEPT 220
END
CONTINGENCY 'Q23BM' / MODIFIED FOR SUM09 158102 new tap between Beck and Neale23?
TRIP BRANCH FROM BUS 158102 TO BUS 158122 CKT 1 / hanonj23 220 TO NEALEQ23 220
TRIP BRANCH FROM BUS 158102 TO BUS 157069 CKT 1 / hanonj23 220 TO BECK2 220
TRIP BRANCH FROM BUS 158143 TO BUS 158122 CKT 1 / BURL J23 220 TO NEALEQ23 220
TRIP BRANCH FROM BUS 158143 TO BUS 158067 CKT 1 / BURL J23 220 TO BURLINGT 220
TRIP BRANCH FROM BUS 158071 TO BUS 158122 CKT 1 / MIDDL K2 220 TO NEALEQ23 220
END
CONTINGENCY 'Q25BM' / MODIFIED FOR SUM09 158102 new tap between Beck and Neale25?
TRIP BRANCH FROM BUS 158104 TO BUS 158123 CKT 1 / hanonj25 220 TO NEALEQ25 220
TRIP BRANCH FROM BUS 158104 TO BUS 157070 CKT 1 / hanonj25 220 TO BECK2 220
TRIP BRANCH FROM BUS 158144 TO BUS 158123 CKT 1 / BURL J25 220 TO NEALEQ25 220
TRIP BRANCH FROM BUS 158071 TO BUS 158123 CKT 1 / MIDDL K2 220 TO NEALEQ25 220
TRIP BRANCH FROM BUS 158144 TO BUS 158067 CKT 1 / BURL J25 220 TO BURLINGT 220
END
CONTINGENCY 'W44LC' / MODIFIED FOR SUM07-5.SAV
TRIP BRANCH FROM BUS 160062 TO BUS 160074 CKT 1 / LONGWOOD 220 TO COWALW44 220
TRIP BRANCH FROM BUS 160134 TO BUS 160074 CKT 1 / BUCHJW44 220 TO COWALW44 220
TRIP BRANCH FROM BUS 160134 TO BUS 160054 CKT 1 / BUCHJW44 220 TO BUCHANAN 220
TRIP BRANCH FROM BUS 160055 TO BUS 160074 CKT 1 / CHATHAM 220 TO COWALW44 220
END

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CONTINGENCY 'W45LC' / MODIFIED FOR SUM07-5.SAV
TRIP BRANCH FROM BUS 160062 TO BUS 160075 CKT 1 / LONGWOOD 220 TO COWALW45 220
TRIP BRANCH FROM BUS 160135 TO BUS 160075 CKT 1 / BUCHJW45 220 TO COWALW45 220
TRIP BRANCH FROM BUS 160135 TO BUS 160054 CKT 1 / BUCHJW45 220 TO BUCHANAN 220
TRIP BRANCH FROM BUS 160055 TO BUS 160075 CKT 1 / CHATHAM 220 TO COWALW45 220
END
CONTINGENCY 'L4D+G3'
TRIP BRANCH FROM BUS 160064 TO BUS 160050 TO BUS 160714 CKT T7 / LAMBTON 220 TO LAMB L4D
345
TRIP BRANCH FROM BUS 160069 TO BUS 160704 CKT T3 / LAMBTON 220 TO LAMBTNG324.0
REMOVE UNIT 1 FROM BUS 160704 / LAMBTNG324.0
END
CONTINGENCY 'L51D+G3'
TRIP BRANCH FROM BUS 160064 TO BUS 160050 TO BUS 160715 CKT T8 / LAMBTON 220 TO LAMB L51
345
TRIP BRANCH FROM BUS 160069 TO BUS 160704 CKT T3 / LAMBTON 220 TO LAMBTNG324.0
REMOVE UNIT 1 FROM BUS 160704 / LAMBTNG324.0
END
CONTINGENCY 'LAMBT7/LAMBGEN'
TRIP BRANCH FROM BUS 160064 TO BUS 160050 TO BUS 160714 CKT T7 /* LAMBTON 220 LAMB L4D
345
SET BUS 160705 GENERATION TO 0 MW /* LAMBTNG424.0
END
CONTINGENCY 'LAMBT8/LAMBGEN'
TRIP BRANCH FROM BUS 160064 TO BUS 160050 TO BUS 160715 CKT T8 /* LAMBTON 220 LAMB L51 345
SET BUS 160705 GENERATION TO 0 MW /* LAMBTNG424.0
END
COM
COM *****
COM * PJM *
COM *****
COM
CONTINGENCY 'ETHS/NWES/LLGD'
TRIP BRANCH FROM BUS 200675 TO BUS 130763 /* E.TWANDA 230 HILSD230 230
TRIP BRANCH FROM BUS 200676 TO BUS 130836 /* E.SAYRE 115 N.WAV115 115
TRIP BRANCH FROM BUS 200680 TO BUS 130807 /* LAUREL L 115 GOUDY115 115
END
CONTINGENCY 'ETHS/LLGD'
TRIP BRANCH FROM BUS 200675 TO BUS 130763 /* E.TWANDA 230 HILSD230 230
TRIP BRANCH FROM BUS 200680 TO BUS 130807 /* LAUREL L 115 GOUDY115 115
END
CONTINGENCY 'KEY-SHELOCTA/BLAIRSVL-SOCIAL'
TRIP BRANCH FROM BUS 521 TO BUS 505 /* KEYSTONE 230 SHELOCTA 230
TRIP BRANCH FROM BUS 473 TO BUS 235253 /* BLAIRSVL 138 01SOCIAL 138
END
CONTINGENCY 'LKWANA-OXBW' /* ADDED FOR SUM07-5 FERC CASE
TRIP BRANCH FROM BUS 3070 TO BUS 417 /* LKWANA 230 OXBOW 230
END
CONTINGENCY 'GRV-TWADA' /* ADDED FOR SUM07-5 FERC CASE
TRIP BRANCH FROM BUS 409 TO BUS 200675 /* GROVER 230 E.TWANDA 230
END
COM CONTINGENCY 'FO/GT/GL '
COM TRIP BRANCH FROM BUS 200581 TO BUS 200588 /* FOREST 230 GLADE TP 230
COM TRIP BRANCH FROM BUS 200588 TO BUS 200593 /* GLADE TP 230 GLADE 230
COM END
CONTINGENCY 'MULT01 '
TRIP BRANCH FROM BUS 4 TO BUS 26 /* CNASTONE 500 HUNTERTN 500
TRIP BRANCH FROM BUS 26 TO BUS 1152 /* HUNTERTN 500 HUNTRSTN 230
END
CONTINGENCY 'MULT02 '
TRIP BRANCH FROM BUS 6 TO BUS 28 /* DEANS 500 WINDSOR 500
TRIP BRANCH FROM BUS 6 TO BUS 4978 /* DEANS 500 DEANS 230
TRIP BRANCH FROM BUS 28 TO BUS 2896 CKT 1 /* WINDSOR 500 E WINDSR 230
END
CONTINGENCY 'MULT03 '
TRIP BRANCH FROM BUS 70 TO BUS 15 /* ELROY 500 WHITPAIN 500
TRIP BRANCH FROM BUS 15 TO BUS 4601 CKT 3 /* WHITPAIN 500 WHITPAIN 230
END
CONTINGENCY 'MULT04 ' / MODIFIED FOR SUM07-7
TRIP BRANCH FROM BUS 9 TO BUS 21 /* JUNIATA 500 SUNBURY 500
TRIP BRANCH FROM BUS 21 TO BUS 3084 CKT 24 /* SUNBURY 500 SUNBURY 230

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END
CONTINGENCY 'MULT05 '
TRIP BRANCH FROM BUS 24 TO BUS 4602 CKT 1 /* LIMERICK 500 LIMERICK 230
TRIP BRANCH FROM BUS 24 TO BUS 4602 CKT 2 /* LIMERICK 500 LIMERICK 230
END
CONTINGENCY 'MULT06 '
TRIP BRANCH FROM BUS 15 TO BUS 4332 CKT 2 /* WHITPAIN 500 WHITPAIN 230
TRIP BRANCH FROM BUS 15 TO BUS 24 /* WHITPAIN 500 LIMERICK 500
END
CONTINGENCY 'MULT07 '
TRIP BRANCH FROM BUS 4338 TO BUS 4262 /* WHTMRSH6 230 PLYMTG 3 230
TRIP BRANCH FROM BUS 4338 TO BUS 4263 /* WHTMRSH6 230 PULASKI 230
TRIP BRANCH FROM BUS 4338 TO BUS 4333 /* WHTMRSH6 230 WHTMARSH69.0
END
CONTINGENCY 'MULT08 '
TRIP BRANCH FROM BUS 4339 TO BUS 4601 /* WHTMSHTP 230 WHITPAIN 230
TRIP BRANCH FROM BUS 4339 TO BUS 4149 /* WHTMSHTP 230 JENKNTWN 230
END
CONTINGENCY 'MULT09 '
TRIP BRANCH FROM BUS 4954 TO BUS 5187 /* ATHENIA 230 ATHENIA1 230
TRIP BRANCH FROM BUS 5187 TO BUS 4953 /* ATHENIA1 230 ATHENIA3 138
TRIP BRANCH FROM BUS 4954 TO BUS 5041 /* ATHENIA 230 CLIFTN B 230
TRIP BRANCH FROM BUS 5017 TO BUS 4974 /* ROSELAND 230 CDR GV B 230
END
CONTINGENCY 'MULT10 '
TRIP BRANCH FROM BUS 4954 TO BUS 5187 /* ATHENIA 230 ATHENIA1 230
TRIP BRANCH FROM BUS 5187 TO BUS 5042 /* ATHENIA1 230 CLIFTN K 230
TRIP BRANCH FROM BUS 5017 TO BUS 4975 /* ROSELAND 230 CDR GV F 230
END
CONTINGENCY 'MULT11 '
TRIP BRANCH FROM BUS 5 TO BUS 26 /* CONEM-GH 500 HUNTRTN 500
TRIP BRANCH FROM BUS 26 TO BUS 1152 /* HUNTRTN 500 HUNTRSTN 230
END
CONTINGENCY 'LINE01 '
TRIP BRANCH FROM BUS 270 TO BUS 269 /* ERIE SO 230 ERIE SO. 115
END
COM CONTINGENCY 'GOWAN N BUS' / EQUIVALENT 'BUS:GOWANUS_N_345'
COM TRIP BRANCH FROM BUS 126286 TO BUS 126277 CKT 1 / GOWANUSN345 FARRAGUT 345
COM TRIP BRANCH FROM BUS 126286 TO BUS 126283 CKT 1 / GOWANUSN345 GOTHLS N 345
COM TRIP BRANCH FROM BUS 126286 TO BUS 126427 CKT 1 / GOWANUSN345 GOWNUS1T 138
COM END
COM CONTINGENCY 'GOWAN S BUS' / EQUIVALENT 'BUS:GOWANUS_S_345'
COM TRIP BRANCH FROM BUS 126287 TO BUS 126277 CKT 1 / GOWANUSS345 FARRAGUT 345
COM TRIP BRANCH FROM BUS 126287 TO BUS 126285 CKT 1 / GOWANUSS345 GOTHLS S 345
COM TRIP BRANCH FROM BUS 126287 TO BUS 126429 CKT 1 / GOWANUSS345 GOWNUS2T 138
COM END
COM CONTINGENCY 'E13TH45 BUS' / EQUIVALENT 'BUS:E13TH_45_345'
COM TRIP BRANCH FROM BUS 126272 TO BUS 126277 CKT 1 / E15ST 45345 FARRAGUT 345
COM TRIP BRANCH FROM BUS 126272 TO BUS 126304 CKT 1 / E15ST 45345 W 49 ST 345
COM TRIP BRANCH FROM BUS 126272 TO BUS 126384 CKT 15 / E15ST 45345 E13 ST 138
COM TRIP BRANCH FROM BUS 126272 TO BUS 126495 CKT 14 / E15ST 45345 T14MPT 138
COM END
COM CONTINGENCY 'E13TH46 BUS' / EQUIVALENT 'BUS:E13TH_46_345'
COM TRIP BRANCH FROM BUS 126273 TO BUS 126277 CKT 1 / E15ST 46345 FARRAGUT 345
COM TRIP BRANCH FROM BUS 126273 TO BUS 126304 CKT 1 / E15ST 46345 W 49 ST 345
COM TRIP BRANCH FROM BUS 126273 TO BUS 126384 CKT 12 / E15ST 46345 E13 ST 138
COM TRIP BRANCH FROM BUS 126273 TO BUS 126497 CKT 13 / E15ST 46345 T13MPT 138
COM END
COM CONTINGENCY 'E13TH47 BUS' / EQUIVALENT 'BUS:E13TH_47_345'
COM TRIP BRANCH FROM BUS 126274 TO BUS 126277 CKT 1 / E15ST 47345 FARRAGUT 345
COM TRIP BRANCH FROM BUS 126274 TO BUS 147829 CKT 1 / E15ST 47345 ASTOR345 345
COM TRIP BRANCH FROM BUS 126274 TO BUS 126384 CKT 16 / E15ST 47345 E13 ST 138
COM TRIP BRANCH FROM BUS 126274 TO BUS 126582 CKT 17 / E15ST 47345 E RIVER 69.0
COM END
COM CONTINGENCY 'E13TH48 BUS' / EQUIVALENT 'BUS:E13TH_48_345'
COM TRIP BRANCH FROM BUS 126275 TO BUS 126277 CKT 1 / E15ST 48345 FARRAGUT 345
COM TRIP BRANCH FROM BUS 126275 TO BUS 147829 CKT 1 / E15ST 48345 ASTOR345 345
COM TRIP BRANCH FROM BUS 126275 TO BUS 126384 CKT 10 / E15ST 48345 E13 ST 138
COM TRIP BRANCH FROM BUS 126275 TO BUS 126499 CKT 11 / E15ST 48345 T11MPT 138
COM END
COM ***** /

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COM * Contingencies taken from NYISO Operations Contingency file * /
COM ***** /
COM *****
COM * SINGLE CONTINGENCIES (MCE LIST)-MARCH 2002 *
COM *****
COM 'SIN:10' EQUIVALENT 'SER:F30&W80'
COM 'SIN:20' EQUIVALENT 'SER:Y94&TA5'
CONTINGENCY 'SIN:30' / 30
TRIP BRANCH FROM BUS 146841 TO BUS 126260 CKT 1 / Bowline20- Bowline1
TRIP BRANCH FROM BUS 146750 TO BUS 126260 CKT 10 / W.Hav345 - Bowline1
TRIP BRANCH FROM BUS 146750 TO BUS 126290 CKT 1 / W.Hav345 - Ladentwn
END
COM 'SIN:40' EQUIVALENT 'E13TH45'
COM 'SIN:50' EQUIVALENT 'E13TH46'
COM 'SIN:60' EQUIVALENT 'SER:69&J'
COM 'SIN:80' EQUIVALENT 'OSWEG-LAFAY'

CONTINGENCY 'SIN:90' / 90
TRIP BRANCH FROM BUS 531 TO BUS 270 CKT 1 / Erie Se - Erie So 230
TRIP BRANCH FROM BUS 270 TO BUS 522 CKT 1 / Erie So - Warren 230
TRIP BRANCH FROM BUS 530 TO BUS 522 CKT 4 / Warren 115 - Warren 230
END
CONTINGENCY 'SIN:120' / 120
TRIP BRANCH FROM BUS 126263 TO BUS 126291 CKT 1 / Buchanan South - Millwood 345
TRIP BRANCH FROM BUS 126263 TO BUS 126291 CKT 2 / Buchanan South - Millwood 345
TRIP BRANCH FROM BUS 126290 TO BUS 126263 CKT 1 / Ladentown - Buchana South 345
TRIP BRANCH FROM BUS 126263 TO BUS 147832 CKT 1 / Buchanan South-Indian Point 345
TRIP BRANCH FROM BUS 147798 TO BUS 147832 CKT 1 / Indian Point3 - I.Point 345
TRIP BRANCH FROM BUS 147798 TO BUS 147832 CKT 2 / Indian Point3 - I.Point 345
REMOVE UNIT 1 FROM BUS 147798 DISPATCH /
BUS 147788 0.90 / POLETGT218 NYISO
BUS 129025 0.50 / NORTHPORT NYISO
BUS 125190 0.50 / ROSETON NYISO
BUS 146840 0.50 / BOWLINE NYISO
BUS 136701 1.40 / NINE MILE 1 NYISO
BUS 147797 1.45 / JAFIPT NYISO
BUS 130873 0.25 / KINTIGH NYISO
BUS 131314 0.50 / GRENIDGE NYISO
BUS 156661 2.50 / DARLINGTON IMO
BUS 156862 2.50 / PICKERING IMO
BUS 39 2.00 / HOPE CREEK PJMISO
BUS 601 1.00 / HOMER CITY PJMISO
BUS 1735 0.70 / PORT 5CT PJMISO
BUS 2907 0.25 / KITTEN PJMISO
BUS 3148 0.25 / RR GENMARTIN PJMISO
BUS 3149 1.40 / MARTIN CREEK PJMISO
BUS 23412 0.80 / EDDY. PJMISO
BUS 5483 1.00 / LINDEN PJMISO
BUS 5901 0.75 / BRANDNG PJMISO
BUS 7115 1.00 / MORGTU PJMISO
BUS 8101 0.25 / BLE #1 PJMISO
BUS 27861 0.60 / IR10 PJMISO
BUS 102370 1.10 / BRAYTONG3 NEISO
BUS 101251 1.10 / CANALG1 NEISO
BUS 101949 0.80 / SALEM G4 NEISO
BUS 103556 0.50 / MIDDTN#3 NEISO
BUS 103557 0.50 / MIDDTN#4 NEISO
BUS 364003 75.0 / SWING BUS
END
END
CONTINGENCY 'SIN:130' / 130
TRIP BRANCH FROM BUS 126263 TO BUS 126291 CKT 1 / Buchanan South - Millwood 345
TRIP BRANCH FROM BUS 126263 TO BUS 126291 CKT 2 / Buchanan South - Millwood 345
TRIP BRANCH FROM BUS 126290 TO BUS 126263 CKT 1 / Ladentown - Buchana South 345
TRIP BRANCH FROM BUS 126263 TO BUS 147832 CKT 1 / Buchanan South-Indian Point 345
TRIP BRANCH FROM BUS 147798 TO BUS 147832 CKT 1 / Indian Point3 - I.Point 345
TRIP BRANCH FROM BUS 147798 TO BUS 147832 CKT 2 / Indian Point3 - I.Point 345
REMOVE UNIT 1 FROM BUS 147798 DISPATCH /
BUS 147788 0.90 / POLETGT218 NYISO
BUS 129025 0.50 / NORTHPORT NYISO
BUS 125190 0.50 / ROSETON NYISO

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BUS 146840 0.50 / BOWLINE NYISO
 BUS 136701 1.40 / NINE MILE 1 NYISO
 BUS 147797 1.45 / JAFIPT NYISO
 BUS 130873 0.25 / KINTIGH NYISO
 BUS 131314 0.50 / GRENIDGE NYISO
 BUS 156661 2.50 / DARLINGTON IMO
 BUS 156862 2.50 / PICKERING IMO
 BUS 39 2.00 / HOPE CREEK PJMISO
 BUS 601 1.00 / HOMER CITY PJMISO
 BUS 1735 0.70 / PORT 5CT PJMISO
 BUS 2907 0.25 / KITTEN PJMISO
 BUS 3148 0.25 / RR GENMARTIN PJMISO
 BUS 3149 1.40 / MARTIN CREEK PJMISO
 BUS 23412 0.80 / EDDY. PJMISO
 BUS 5483 1.00 / LINDEN PJMISO
 BUS 5901 0.75 / BRANDNG PJMISO
 BUS 7115 1.00 / MORGTU PJMISO
 BUS 8101 0.25 / BLE #1 PJMISO
 BUS 27861 0.60 / IR10 PJMISO
 BUS 102370 1.10 / BRAYTONG3 NEISO
 BUS 101251 1.10 / CANALG1 NEISO
 BUS 101949 0.80 / SALEM G4 NEISO
 BUS 103556 0.50 / MIDDTN#3 NEISO
 BUS 103557 0.50 / MIDDTN#4 NEISO
 BUS 364003 75.0 / SWING BUS
 END
 END
 CONTINGENCY 'SIN:150' /150
 TRIP BRANCH FROM BUS 137200 TO BUS 137452 CKT 1 / EDIC-Porter - NS77
 TRIP BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / Inghams C - PAR2
 TRIP BRANCH FROM BUS 137235 TO BUS 147905 CKT 1 / Porter - Watkins Rd(Ilion) 115
 END
 CONTINGENCY 'SIN:160' /160
 TRIP BRANCH FROM BUS 137200 TO BUS 137452 CKT 1 / EDIC-Porter - NS77
 TRIP BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / Inghams C - PAR2 (R81 tie)
 TRIP BRANCH FROM BUS 137235 TO BUS 137246 CKT 1 / Porter - Valley
 END
 CONTINGENCY 'SIN:170' /170
 TRIP BRANCH FROM BUS 147833 TO BUS 137453 CKT 1 / Marcy - NS99
 TRIP BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / Inghams C - PAR2
 TRIP BRANCH FROM BUS 137235 TO BUS 137246 CKT 1 / Porter - Valley
 END
 CONTINGENCY 'SIN:180' /180
 TRIP BRANCH FROM BUS 147833 TO BUS 137453 CKT 1 / Marcy - NS99
 TRIP BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / Inghams C - PAR2
 TRIP BRANCH FROM BUS 137235 TO BUS 147905 CKT 1 / Porter - Watkins Rd (Ilion)
 END
 CONTINGENCY 'SIN:190' /190
 TRIP BRANCH FROM BUS 100508 TO BUS 100509 CKT 1 / Sand Bar Bypass Brk
 REMOVE UNIT 1 FROM BUS 369 DISPATCH /
 BUS 147788 0.90 / POLETGT218 NYISO
 BUS 129025 0.50 / NORTHPORT NYISO
 BUS 125190 0.50 / ROSETON NYISO
 BUS 146840 0.50 / BOWLINE NYISO
 BUS 136701 1.40 / NINE MILE 1 NYISO
 BUS 147797 1.45 / JAFIPT NYISO
 BUS 130873 0.25 / KINTIGH NYISO
 BUS 131314 0.50 / GRENIDGE NYISO
 BUS 156661 2.50 / DARLINGTON IMO
 BUS 156862 2.50 / PICKERING IMO
 BUS 39 2.00 / HOPE CREEK PJMISO
 BUS 601 1.00 / HOMER CITY PJMISO
 BUS 1735 0.70 / PORT 5CT PJMISO
 BUS 2907 0.25 / KITTEN PJMISO
 BUS 3148 0.25 / RR GENMARTIN PJMISO
 BUS 3149 1.40 / MARTIN CREEK PJMISO
 BUS 23412 0.80 / EDDY. PJMISO
 BUS 5483 1.00 / LINDEN PJMISO
 BUS 5901 0.75 / BRANDNG PJMISO
 BUS 7115 1.00 / MORGTU PJMISO
 BUS 8101 0.25 / BLE #1 PJMISO

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BUS 27861 0.60 / IR10 PJMISO
BUS 102370 1.10 / BRAYTONG3 NEISO
BUS 101251 1.10 / CANALG1 NEISO
BUS 101949 0.80 / SALEM G4 NEISO
BUS 103556 0.50 / MIDDTN#3 NEISO
BUS 103557 0.50 / MIDDTN#4 NEISO
BUS 364003 75.0 / SWING BUS
END
END
COM 'SIN:200' EQUIVALENT ETHS/NWES /200
CONTINGENCY 'SIN:210' /210
TRIP BRANCH FROM BUS 137235 TO BUS 147905 CKT 1 / Porter - Watkins Rd
TRIP BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / Inghams C - PAR2
END
CONTINGENCY 'SIN:220' /220
TRIP BRANCH FROM BUS 137235 TO BUS 137246 CKT 1 / Porter - Valley
TRIP BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / Inghams C - PAR2
END
CONTINGENCY 'SIN:230' / 230
TRIP BRANCH FROM BUS 126290 TO BUS 126263 CKT 1 / Ladentown - Buchanan South 345
TRIP BRANCH FROM BUS 126360 TO BUS 126262 CKT 1 / Buchanan North TA5
END
CONTINGENCY 'SIN:250' /250
TRIP BRANCH FROM BUS 100508 TO BUS 100509 CKT 2 / Sand Bar Bypass Brk
REMOVE UNIT 3 FROM BUS 103563 DISPATCH /
BUS 147788 0.90 / POLETGT218 NYISO
BUS 129025 0.50 / NORTHPORT NYISO
BUS 125190 0.50 / ROSETON NYISO
BUS 146840 0.50 / BOWLINE NYISO
BUS 136701 1.40 / NINE MILE 1 NYISO
BUS 147797 1.45 / JAFIPT NYISO
BUS 130873 0.25 / KINTIGH NYISO
BUS 131314 0.50 / GRENIDGE NYISO
BUS 156661 2.50 / DARLINGTON IMO
BUS 156862 2.50 / PICKERING IMO
BUS 39 2.00 / HOPE CREEK PJMISO
BUS 601 1.00 / HOMER CITY PJMISO
BUS 1735 0.70 / PORT 5CT PJMISO
BUS 2907 0.25 / KITTEN PJMISO
BUS 3148 0.25 / RR GENMARTIN PJMISO
BUS 3149 1.40 / MARTIN CREEK PJMISO
BUS 23412 0.80 / EDDY. PJMISO
BUS 5483 1.00 / LINDEN PJMISO
BUS 5901 0.75 / BRANDNG PJMISO
BUS 7115 1.00 / MORGTU PJMISO
BUS 8101 0.25 / BLE #1 PJMISO
BUS 27861 0.60 / IR10 PJMISO
BUS 102370 1.10 / BRAYTONG3 NEISO
BUS 101251 1.10 / CANALG1 NEISO
BUS 101949 0.80 / SALEM G4 NEISO
BUS 103556 0.50 / MIDDTN#3 NEISO
BUS 103557 0.50 / MIDDTN#4 NEISO
BUS 364003 75.0 / SWING BUS
END
END
COM 'SIN:260' EQUIVALENT 'SER:W82&W65' from ny.con / 260
COM 'SIN:270' EQUIVALENT 'SER:W99&W64' / 270
CONTINGENCY 'SIN:280' / 280
TRIP BRANCH FROM BUS 126262 TO BUS 126267 CKT 1 / Buchanan North - East View1 345
TRIP BRANCH FROM BUS 126298 TO BUS 126267 CKT 1 / Sprainbrook - East View1 345
TRIP BRANCH FROM BUS 126378 TO BUS 126267 CKT 1 / BK2N
TRIP BRANCH FROM BUS 126360 TO BUS 126262 CKT 1 / TA5
END
COM 'SIN:290' EQUIVALENT 'SER:70&K' /290
COM 'SIN:300' EQUIVALENT 'SER:F38&Y86' /300
COM 'SIN:310' EQUIVALENT 'SER:F39&Y87' /310
CONTINGENCY 'SIN:340' /340
TRIP BRANCH FROM BUS 126385 TO BUS 126442 CKT 1 / E179St - HG 1
TRIP BRANCH FROM BUS 126442 TO BUS 126352 CKT 1 / HG 1 - ASTE-WRG
END
CONTINGENCY 'SIN:350' /350

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TRIP BRANCH FROM BUS 126385 TO BUS 126445 CKT 1 / E179St - HG 4
TRIP BRANCH FROM BUS 126445 TO BUS 126334 CKT 1 / HG 4 - ASTE-ERG
END
CONTINGENCY 'SIN:360' /360
TRIP BRANCH FROM BUS 126321 TO BUS 4996 CKT 1 / Goethals - Linden (A2253)
TRIP BRANCH FROM BUS 126283 TO BUS 126282 CKT 1 / Gothls N - Frkills
TRIP BRANCH FROM BUS 126286 TO BUS 126283 CKT 1 / Gowanush - Gothls N
END
COM 'SIN:370' EQUIVALENT 'GOWAN S BUS'
COM 'SIN:380' EQUIVALENT 'GOWAN N BUS'
CONTINGENCY 'SIN:430' /430 -modified for sum07 FERC case
TRIP BRANCH FROM BUS 125002 TO BUS 126281 CKT 1 / RFK305 Roseton - Fishkill
TRIP BRANCH FROM BUS 125046 TO BUS 125018 CKT 1 / Rock Tv1 - Sugarlf
com TRIP BRANCH FROM BUS 146777 TO BUS 146778 CKT 1 / Monroeel - Sugarlf
END
CONTINGENCY 'SIN:440' /440 -modified for sum07 FERC case
TRIP BRANCH FROM BUS 125001 TO BUS 126297 CKT 1 / Rock Tav - Ramapo
TRIP BRANCH FROM BUS 125046 TO BUS 125018 CKT 1 / Rock Tv1 - Sugarlf
com TRIP BRANCH FROM BUS 146777 TO BUS 146778 CKT 1 / Monroeel - Sugarlf
END
COM
COM *****
COM *
COM * *** NEW PROJECTS *** *
COM *
COM *****
COM *****
COM * BESICORP EMPIRE STATE NEWSPRINT (Q#69) *
COM *****
CONTINGENCY 'SER:REYNOLDS_345/115_BESICORP'
TRIP BRANCH FROM BUS 137450 TO BUS 137454 CKT 1 / ALPS345 345 REYNLD3 345
TRIP BRANCH FROM BUS 137454 TO BUS 137528 CKT 1 / T2 REYNLD3 345 REY. RD. 115
TRIP BRANCH FROM BUS 137454 TO BUS 137558 CKT 1 / REYNLD3 345 GBSH345 345
REMOVE UNIT 1 FROM BUS 137559 / GEN1
REMOVE UNIT 1 FROM BUS 137560 / GEN2
REMOVE UNIT 1 FROM BUS 137561 / GEN3
END
COM *****
COM * CROSS HUDSON (Q#93) *
COM *****
COM
COM Stuck breaker contingencies replaced for W.49th 345 7, 8 (OLD CONTINGENCIES BELOW)
COM =====
COM CONTINGENCY 'SB:W_49_345_7' /
COM TRIP BRANCH FROM BUS 126543 TO BUS 126304 CKT 1 / XFR W49 ST 1 138 W 49 ST 345
COM END
COM CONTINGENCY 'SB:W_49_345_8' /
COM TRIP BRANCH FROM BUS 126547 TO BUS 126304 CKT 1 / XFR W49 ST 5 138 W 49 ST 345
COM END
COM
COM Contingencies below are for previous configuration of Cross Hudson
COM =====
COM *****
COM * TRANSGAS 345 (TAP & GEN BUS) (Q#106) *
COM *****
COM *****
COM * JORDANVILLE 230 (Q#186) *
COM *****
COM END /
COM *****
COM * STOLLE-MEYER-HILLSIDE WIND PROJECTS *
COM *****
COM =====
COM = CANANDAIGUA 230 (Q#135) = POI: 75% from Meyer on Meyer-Avoca
COM =====
COM =====
COM = HIGH SHELDON 230 (Q#144) = POI: 12 miles from Stolle (22.43% of Stolle-Meyer)
COM =====
COM =====
COM = WETHERSFIELD 230 (Q#177) = POI: 10 miles from High Sheldon towards Meyer
COM =====

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COM =====
COM = DAIRY HILLS 230 (Q#168) = POI: 20.5 miles from Meyer, 21 miles from High Sheldon, 11
miles from Wethersfield
COM =====
COM *****
COM * * Marble River (Q#161 & Q#171), Clinton (Q#172 & Q#211),
Altona (Q#174)
COM * WILLIS-PLATTS WIND PROJECTS * Ellenburg (Q#175 & Q#213), Chateaugay (Q#214)
COM *****
COM *****
COM * NYSEG ITHACA TRANSMISSION REINFORCEMENT (Q#225) *
COM *****
COM =====
COM = LAFAYETTE 345 =
COM =====
COM =====
COM = OAKDALE 345 =
COM =====
COM =====
COM = LAPEER 345 = New substation
COM =====
COM
COM *****
COM * End of copy from DB2008_emer.com *
COM *****

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```

COM REMOVE UNIT 2 FROM BUS 126651
COM Station Service Load also tripped
CONTINGENCY 'GEN:IND PT 2-New'
DISCONNECT BUS 126651 DISPATCH
SYSTEM INERTIA 100
END
END

```

```

COM REMOVE UNIT 1 FROM BUS 147798
COM Station Service Load also tripped
CONTINGENCY 'GEN:IND PT 3-New'
DISCONNECT BUS 147798 DISPATCH
SYSTEM INERTIA 100
END
END

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```

COM REMOVE UNIT 1 FROM BUS 126652
COM REMOVE UNIT 2 FROM BUS 126652
COM *** Modified on 04/06/2009 using only ConED generators
CONTINGENCY 'GEN:RAVNWD 3-New'
DISCONNECT BUS 126652 DISPATCH
SYSTEM INERTIANYC 100
END
END

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```

COM REMOVE UNIT 1 FROM BUS 130873
COM Station Service Load also tripped
CONTINGENCY 'GEN:KINTIGH-New'
DISCONNECT BUS 130873
END

```

```

CONTINGENCY 'HQ-NY-765-New'
REDUCE BUS 180001 GENERATION by 100 percent DISPATCH / beauharnois #1-7
SUBSYSTEM INERTIA
END /
SET BUS 181319 LOAD TO 357 MW DISPATCH / CHAT CC1 INVERTER
SUBSYSTEM INERTIA
END /
REDUCE BUS 180002 GENERATION by 100 percent DISPATCH / beauharnois #8-14
SUBSYSTEM INERTIA
END /
SET BUS 181419 LOAD TO 357 MW DISPATCH / CHAT CC2 INVERTER
SUBSYSTEM INERTIA
END /
TRIP BRANCH FROM BUS 147828 TO BUS 180819 ckt 1 / MASS 765 765 CHATG-NY 765

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DISCONNECT BUS 147827
DISCONNECT BUS 147838
DISCONNECT BUS 147837
DISCONNECT BUS 156 / DUMMY BUS
    MARCY765 SW. SHUNT 200MVAR REAC #7223
DISCONNECT BUS 158 / DUMMY BUS
    MASS 765 SW. SHUNT 200MVAR REAC #7222
DISCONNECT BUS 157 / DUMMY BUS
    MASS 765 SW. SHUNT 200MVAR REAC #7122
END

COM *** Added by ABB based on comments from working group
CONTINGENCY 'SPRN-BRK-345'
    TRIP BRANCH FROM BUS 126298 TO BUS 126299 CKT BY /* SPRAINBROOK345 REACBUS 345
    DISCONNECT BUS 126299
    DISCONNECT BUS 147857
    DISCONNECT BUS 128830
    DISCONNECT BUS 128824
    DISCONNECT BUS 128825
END

COM *** Added by ABB on Apr.02.2009 based on ConED email
CONTINGENCY 'SPRN-ACDMY'
    DISCONNECT BUS 126847
END

COM *** Added by ABB on Apr.06.2009 for radial network
CONTINGENCY '135272-135289'
    DISCONNECT BUS 135289
END

CONTINGENCY '135300-135450'
    DISCONNECT BUS 135300
END

CONTINGENCY '135357-6-CONT'
    DISCONNECT BUS 135357
    DISCONNECT BUS 148007
    DISCONNECT BUS 148002
    DISCONNECT BUS 148008
    DISCONNECT BUS 135509
    DISCONNECT BUS 135823
END

CONTINGENCY '135849'
    DISCONNECT BUS 135849
    DISCONNECT BUS 135895
    DISCONNECT BUS 135857
    DISCONNECT BUS 135863
END

CONTINGENCY '136269'
    DISCONNECT BUS 136269
    DISCONNECT BUS 136238
END

COM CONTINGENCY 'CHECK'
COM DISCONNECT BUS -1
COM END

END
END
END

```

File NGrid-Mar312009.con

```
COM *****
COM * Northern 115 kV Area *
COM *****

COM
COM *** Single Breaker ***
COM
CONTINGENCY 'Coffeen-Lyme Tap'
TRIP LINE FROM BUS 136763 TO BUS 136815 ckt 1 / Coffeen-Thousand Island #4
END
CONTINGENCY 'Lyme tap-Lyme'
TRIP LINE FROM BUS 136815 TO BUS 136816 ckt 1 / Coffeen-Thousand Island #4
END
CONTINGENCY 'Lyme Tap-Thousand Island'
TRIP LINE FROM BUS 136815 TO BUS 136808 ckt 1 / Coffeen-Thousand Island #4
END
CONTINGENCY 'Lyme Tap-Clayton'
TRIP LINE FROM BUS 136815 TO BUS 136817 ckt 1 / Coffeen-Thousand Island #4
END
CONTINGENCY 'Rockledge - Lyme'
TRIP LINE FROM BUS 136816 TO BUS 136825 ckt 1 / Coffeen-Thousand Island #4
END
CONTINGENCY 'Coffeen 2'
TRIP LINE FROM BUS 136763 TO BUS 136809 ckt 1 / Coffeen-West Adams #2
END
CONTINGENCY 'Coffeen 5'
TRIP LINE FROM BUS 136763 TO BUS 136768 ckt 1 / Coffeen-East Watertown #5
END
CONTINGENCY 'BLACK RV-CLIMAX'
TRIP LINE FROM BUS 136755 TO BUS 136762 ckt 1 / Black River-North Carthage #1
END
CONTINGENCY 'CLIMAX-N Carth'
TRIP LINE FROM BUS 136762 TO BUS 136788 ckt 1 / Black River-North Carthage #1
END
CONTINGENCY 'BLACK RV-WTRTWN'
TRIP LINE FROM BUS 136755 TO BUS 136768 ckt 1 / BLACK River-East Watertown #5
END
CONTINGENCY 'BLACK RV-FT. DRUM'
TRIP LINE FROM BUS 136755 TO BUS 136772 ckt 1 / BLACK River-Taylorville #2
END
CONTINGENCY 'FT. DRUM-Deferiet'
TRIP LINE FROM BUS 136772 TO BUS 136766 ckt 1 / BLACK River-Taylorville #2
END
CONTINGENCY 'Deferiet-Taylorville'
TRIP LINE FROM BUS 136766 TO BUS 136807 ckt 1 / BLACK River-Taylorville #2
END
CONTINGENCY 'BLACK RV-INDN RIV'
TRIP LINE FROM BUS 136755 TO BUS 136776 ckt 1 / BLACK River-Ft Drum #9
END
CONTINGENCY 'BLACK RV-NY AIR'
TRIP LINE FROM BUS 136755 TO BUS 136793 ckt 1 / Black River-Coffeen #3
END
CONTINGENCY 'NY AIR-GLEN PRK'
TRIP LINE FROM BUS 136793 TO BUS 136773 ckt 1 / Black River-Coffeen #3
END
CONTINGENCY 'GLEN PRK-Coffeen'
TRIP LINE FROM BUS 136773 TO BUS 136763 ckt 1 / Black River-Coffeen #3
END
CONTINGENCY 'Taylor-NCart'
TRIP LINE FROM BUS 136807 TO BUS 136788 ckt 1 / Taylorville-North Carthage #8
END
CONTINGENCY 'LightHouse 5'
TRIP LINE FROM BUS 136216 TO BUS 136768 ckt 1 / Lighthouse Hill-Black Rviver #5
END
CONTINGENCY 'Lighthouse 6'
TRIP LINE FROM BUS 136216 TO BUS 136755 ckt 1 / Lighthouse Hill-Black River #6
END
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CONTINGENCY 'Boonvl-Tug Hill'
TRIP LINE FROM BUS 137221 TO BUS 146731 ckt 1 / Boonville-Taylorville #5
END
CONTINGENCY 'Tug Hill-Lowville'
TRIP LINE FROM BUS 146731 TO BUS 136778 ckt 1 / Boonville-Taylorville #5
END
CONTINGENCY 'Lowville-Taylorvl'
TRIP LINE FROM BUS 136807 TO BUS 136778 ckt 1 / Boonville-Taylorville #5
END
CONTINGENCY 'Lyons Falls Tap'
TRIP LINE FROM BUS 137221 TO BUS 136761 ckt 1 / Boonville-Taylorville #6
END
CONTINGENCY 'Bremen-Lyons Falls Tap'
TRIP LINE FROM BUS 136761 TO BUS 136758 ckt 1 / Boonville-Taylorville #6
END
CONTINGENCY 'Taylorvl-Bremen'
TRIP LINE FROM BUS 136807 TO BUS 136758 ckt 1 / Boonville-Taylorville #6
END
CONTINGENCY 'Lyons dale'
TRIP LINE FROM BUS 136761 TO BUS 136848 ckt 1 / Boonville-Taylorville #6
END

COM ***** /
COM * Stuck Breaker * /
COM ***** /
CONTINGENCY 'Taylorville'
TRIP LINE FROM BUS 136807 TO BUS 136778 ckt 1 / Boonville-Taylorville #5
TRIP LINE FROM BUS 136807 TO BUS 136788 ckt 1 / Taylorville-North Carthage #8
TRIP LINE FROM BUS 136807 TO BUS 136759 ckt 1 / Taylorville-Browns Falls #3
TRIP LINE FROM BUS 136807 TO BUS 136759 ckt 2 / Taylorville-Browns Falls #4
TRIP LINE FROM BUS 136807 TO BUS 136766 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136807 TO BUS 136758 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136807 TO BUS 136786 ckt 1 / Taylorville-Sunday Creek #7
END
CONTINGENCY 'Black River'
TRIP LINE FROM BUS 136755 TO BUS 136762 ckt 1 / Black River-North Carthage #1
TRIP LINE FROM BUS 136755 TO BUS 136793 ckt 1 / Black River-Coffeen #3
TRIP LINE FROM BUS 136755 TO BUS 136776 ckt 1 / BLACK River-Ft Drum #9
TRIP LINE FROM BUS 136755 TO BUS 136768 ckt 1 / BLACK River-East Watertown #5
TRIP LINE FROM BUS 136755 TO BUS 136772 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136755 TO BUS 136216 ckt 1 / Lighthouse Hill-Black River #6
TRIP LINE FROM BUS 136755 TO BUS 136963 ckt 1 / BLACK River 115-23 kV transformer
END
COM ***** /
COM * LINE OUTAGE * /
COM ***** /
CONTINGENCY 'Coffeen-TI'
TRIP LINE FROM BUS 136763 TO BUS 136815 ckt 1 / Coffeen-Thousand Island #4
TRIP LINE FROM BUS 136815 TO BUS 136816 ckt 1 / Coffeen-Thousand Island #4
TRIP LINE FROM BUS 136815 TO BUS 136808 ckt 1 / Coffeen-Thousand Island #4
TRIP LINE FROM BUS 136815 TO BUS 136817 ckt 1 / Coffeen-Thousand Island #4
TRIP LINE FROM BUS 136816 TO BUS 136825 ckt 1 / Coffeen-Thousand Island #4
END
CONTINGENCY 'BLACK RV-N Cart'
TRIP LINE FROM BUS 136755 TO BUS 136762 ckt 1 / Black River-North Carthage #1
TRIP LINE FROM BUS 136762 TO BUS 136788 ckt 1 / Black River-North Carthage #1
END
COM *** Duplicate name, renamed
CONTINGENCY 'BLACK RV-WTRTWN_2'
TRIP BUS 136768 / BLACK River-East Watertown #5
END
CONTINGENCY 'BLACK RV-Taylorvl'
TRIP LINE FROM BUS 136755 TO BUS 136772 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136772 TO BUS 136766 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136766 TO BUS 136807 ckt 1 / BLACK River-Taylorville #2
END
CONTINGENCY 'BLACK RV-Coffeen'
TRIP LINE FROM BUS 136755 TO BUS 136793 ckt 1 / Black River-Coffeen #3
TRIP LINE FROM BUS 136793 TO BUS 136773 ckt 1 / Black River-Coffeen #3
TRIP LINE FROM BUS 136773 TO BUS 136763 ckt 1 / Black River-Coffeen #3
END

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COM *** Commented by ABB. Bus 146731 not found
COM CONTINGENCY 'Boon-Taylor'
COM TRIP LINE FROM BUS 137221 TO BUS 146731 ckt 1 / Boonville-Taylorville #5
COM TRIP LINE FROM BUS 146731 TO BUS 136778 ckt 1 / Boonville-Taylorville #5
COM TRIP LINE FROM BUS 136778 TO BUS 136807 ckt 1 / Boonville-Taylorville #5
COM END
CONTINGENCY 'Boon-Taylor'
TRIP LINE FROM BUS 137221 TO BUS 136761 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136761 TO BUS 136848 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136761 TO BUS 136758 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136758 TO BUS 136807 ckt 1 / Boonville-Taylorville #6
END

COM ***** /
COM * DOUBLE LINE OUTAGE * /
COM ***** /
CONTINGENCY '1+2'
TRIP LINE FROM BUS 136755 TO BUS 136762 ckt 1 / Black River-North Carthage #1
TRIP LINE FROM BUS 136762 TO BUS 136788 ckt 1 / Black River-North Carthage #1
TRIP LINE FROM BUS 136755 TO BUS 136772 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136772 TO BUS 136766 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136766 TO BUS 136807 ckt 1 / BLACK River-Taylorville #2
END
CONTINGENCY '2+8'
TRIP LINE FROM BUS 136807 TO BUS 136788 ckt 1 / Taylorville-North Carthage #8
TRIP LINE FROM BUS 136755 TO BUS 136772 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136772 TO BUS 136766 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136766 TO BUS 136807 ckt 1 / BLACK River-Taylorville #2
END
CONTINGENCY '5+6'
TRIP BUS 136768 / Lighthouse Hill-BLACK River #5
TRIP LINE FROM BUS 136216 TO BUS 136755 ckt 1 / Lighthouse Hill-Black River #6
END
COM *** Same name as previous, renamed
CONTINGENCY '5+6_2'
COM TRIP LINE FROM BUS 137221 TO BUS 146731 ckt 1 / Boonville-Taylorville #5
COM TRIP LINE FROM BUS 146731 TO BUS 136778 ckt 1 / Boonville-Taylorville #5
TRIP LINE FROM BUS 136778 TO BUS 136807 ckt 1 / Boonville-Taylorville #5
TRIP LINE FROM BUS 137221 TO BUS 136761 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136761 TO BUS 136848 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136761 TO BUS 136758 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136758 TO BUS 136807 ckt 1 / Boonville-Taylorville #6
END

COM ***** /
COM * BUS OUTAGE * /
COM ***** /
CONTINGENCY 'Coffeen'
TRIP LINE FROM BUS 136763 TO BUS 136815 ckt 1 / Coffeen-Thousand Island #4
TRIP LINE FROM BUS 136763 TO BUS 136768 ckt 1 / Coffeen-East Watertown #5
TRIP LINE FROM BUS 136763 TO BUS 136809 ckt 1 / Coffeen-West Adams #2
TRIP LINE FROM BUS 136763 TO BUS 136773 ckt 1 / Black River-Coffeen #3
END
CONTINGENCY 'Taylorville 1'
TRIP LINE FROM BUS 136807 TO BUS 136778 ckt 1 / Boonville-Taylorville #5
TRIP LINE FROM BUS 136807 TO BUS 136788 ckt 1 / Taylorville-North Carthage #8
TRIP LINE FROM BUS 136807 TO BUS 136759 ckt 1 / Taylorville-Browns Falls #3
END
CONTINGENCY 'Taylorville 2'
TRIP LINE FROM BUS 136807 TO BUS 136759 ckt 2 / Taylorville-Browns Falls #4
TRIP LINE FROM BUS 136807 TO BUS 136766 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136807 TO BUS 136758 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136807 TO BUS 136786 ckt 1 / Taylorville-Sunday Creek #7
END
CONTINGENCY 'Black River 1'
TRIP LINE FROM BUS 136755 TO BUS 136762 ckt 1 / Black River-North Carthage #1
TRIP LINE FROM BUS 136755 TO BUS 136793 ckt 1 / Black River-Coffeen #3
TRIP LINE FROM BUS 136755 TO BUS 136776 ckt 1 / BLACK River-Ft Drum #9
END
CONTINGENCY 'Black River 2'

```

TRIP LINE FROM BUS 136755 TO BUS 136768 ckt 1 / BLACK River-East Watertown #5
 TRIP LINE FROM BUS 136755 TO BUS 136772 ckt 1 / BLACK River-Taylorville #2
 TRIP LINE FROM BUS 136755 TO BUS 136216 ckt 1 / Lighthouse Hill-Black River #6
 END
 CONTINGENCY 'BrownsFalls 1'
 TRIP LINE FROM BUS 136759 TO BUS 136771 ckt 1 / Browns Falls-Colton #2
 TRIP LINE FROM BUS 136759 TO BUS 136790 ckt 1 / Browns Falls-Newton Falls #6
 TRIP LINE FROM BUS 136807 TO BUS 136759 ckt 1 / Taylorville-Browns Falls #3
 END
 CONTINGENCY 'BrownsFalls 2'
 TRIP LINE FROM BUS 136759 TO BUS 136775 ckt 1 / Browns Falls-Colton #1
 TRIP LINE FROM BUS 136807 TO BUS 136759 ckt 2 / Taylorville-Browns Falls #4
 END
 CONTINGENCY 'N Carthage'
 TRIP BUS 136788 / N Carthage
 END

COM *** Contingencies excluded previously
 CONTINGENCY '135263-135273-1'
 TRIP LINE FROM BUS 135263 TO BUS 135273 CKT 1
 END
 CONTINGENCY '135272-135289-1'
 TRIP LINE FROM BUS 135272 TO BUS 135289 CKT 1
 END
 CONTINGENCY '135281-135286-1'
 TRIP LINE FROM BUS 135281 TO BUS 135286 CKT 1
 END
 CONTINGENCY '135282-135296-1'
 TRIP LINE FROM BUS 135282 TO BUS 135296 CKT 1
 END
 CONTINGENCY '135300-135450-1'
 TRIP LINE FROM BUS 135300 TO BUS 135450 CKT 1
 END
 CONTINGENCY '135301-135450-1'
 TRIP LINE FROM BUS 135301 TO BUS 135450 CKT 1
 END
 CONTINGENCY '135302-147851-1'
 TRIP LINE FROM BUS 135302 TO BUS 147851 CKT 1
 END
 CONTINGENCY '135303-135307-1'
 TRIP LINE FROM BUS 135303 TO BUS 135307 CKT 1
 END
 CONTINGENCY '135304-135308-1'
 TRIP LINE FROM BUS 135304 TO BUS 135308 CKT 1
 END
 CONTINGENCY '135305-135309-1'
 TRIP LINE FROM BUS 135305 TO BUS 135309 CKT 1
 END
 CONTINGENCY '135357-135461-1'
 TRIP LINE FROM BUS 135357 TO BUS 135461 CKT 1
 END
 CONTINGENCY '135357-148007-1'
 TRIP LINE FROM BUS 135357 TO BUS 148007 CKT 1
 END
 CONTINGENCY '135410-135414-1'
 TRIP LINE FROM BUS 135410 TO BUS 135414 CKT 1
 END
 CONTINGENCY '135411-135416-1'
 TRIP LINE FROM BUS 135411 TO BUS 135416 CKT 1
 END
 CONTINGENCY '135412-135417-1'
 TRIP LINE FROM BUS 135412 TO BUS 135417 CKT 1
 END
 CONTINGENCY '135413-135416-1'
 TRIP LINE FROM BUS 135413 TO BUS 135416 CKT 1
 END
 CONTINGENCY '135413-135417-1'
 TRIP LINE FROM BUS 135413 TO BUS 135417 CKT 1
 END
 CONTINGENCY '135421-136544-1'
 TRIP LINE FROM BUS 135421 TO BUS 136544 CKT 1

END
 CONTINGENCY '135461-135517-1'
 TRIP LINE FROM BUS 135461 TO BUS 135517 CKT 1
 END
 CONTINGENCY '135461-148004-1'
 TRIP LINE FROM BUS 135461 TO BUS 148004 CKT 1
 END
 CONTINGENCY '135466-135511-1'
 TRIP LINE FROM BUS 135466 TO BUS 135511 CKT 1
 END
 CONTINGENCY '135509-135823-1'
 TRIP LINE FROM BUS 135509 TO BUS 135823 CKT 1
 END
 CONTINGENCY '135509-148002-1'
 TRIP LINE FROM BUS 135509 TO BUS 148002 CKT 1
 END
 CONTINGENCY '135511-148006-1'
 TRIP LINE FROM BUS 135511 TO BUS 148006 CKT 1
 END
 CONTINGENCY '135517-148000-1'
 TRIP LINE FROM BUS 135517 TO BUS 148000 CKT 1
 END
 CONTINGENCY '135849-135858-1'
 TRIP LINE FROM BUS 135849 TO BUS 135858 CKT 1
 END
 CONTINGENCY '135849-135895-1'
 TRIP LINE FROM BUS 135849 TO BUS 135895 CKT 1
 END
 CONTINGENCY '135854-135873-1'
 TRIP LINE FROM BUS 135854 TO BUS 135873 CKT 1
 END
 CONTINGENCY '135857-135895-1'
 TRIP LINE FROM BUS 135857 TO BUS 135895 CKT 1
 END
 CONTINGENCY '135874-135877-1'
 TRIP LINE FROM BUS 135874 TO BUS 135877 CKT 1
 END
 CONTINGENCY '136159-136189-1'
 TRIP LINE FROM BUS 136159 TO BUS 136189 CKT 1
 END
 CONTINGENCY '136166-136173-1'
 TRIP LINE FROM BUS 136166 TO BUS 136173 CKT 1
 END
 CONTINGENCY '136200-136269-1'
 TRIP LINE FROM BUS 136200 TO BUS 136269 CKT 1
 END
 CONTINGENCY '136200-136270-1'
 TRIP LINE FROM BUS 136200 TO BUS 136270 CKT 1
 END
 CONTINGENCY '136238-136269-1'
 TRIP LINE FROM BUS 136238 TO BUS 136269 CKT 1
 END
 CONTINGENCY '137211-137233-1'
 TRIP LINE FROM BUS 137211 TO BUS 137233 CKT 1
 END
 CONTINGENCY '137501-137532-1'
 TRIP LINE FROM BUS 137501 TO BUS 137532 CKT 1
 END
 CONTINGENCY '137515-137542-1'
 TRIP LINE FROM BUS 137515 TO BUS 137542 CKT 1
 END
 CONTINGENCY '137867-137868-1'
 TRIP LINE FROM BUS 137867 TO BUS 137868 CKT 1
 END
 CONTINGENCY '137880-137902-1'
 TRIP LINE FROM BUS 137880 TO BUS 137902 CKT 1
 END
 CONTINGENCY '137902-137914-1'
 TRIP LINE FROM BUS 137902 TO BUS 137914 CKT 1
 END
 CONTINGENCY '137911-137912-1'

```
TRIP LINE FROM BUS 137911 TO BUS 137912 CKT 1
END
CONTINGENCY '148000-148009-1'
TRIP LINE FROM BUS 148000 TO BUS 148009 CKT 1
END
CONTINGENCY '148002-148008-1'
TRIP LINE FROM BUS 148002 TO BUS 148008 CKT 1
END
CONTINGENCY '148006-148009-1'
TRIP LINE FROM BUS 148006 TO BUS 148009 CKT 1
END
CONTINGENCY '148007-148008-1'
TRIP LINE FROM BUS 148007 TO BUS 148008 CKT 1
END

END
END
END
END
```

B.4 Excluded Monitored Facilities and Contingencies

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COM *** List of excluded contingencies in ConED area
COM The following contingencies should be excluded as they take out one winding of 3-wnd
transformers
EXCLUDE CONTINGENCY BRANCH FROM BUS 126295 TO BUS 126558 CKT 1 /* RAINEY 345 2E DUM
138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126476 TO BUS 126558 CKT 1 /* RAINEY2E 138 2E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126478 TO BUS 126559 CKT 1 /* RAINEY7E 138 7E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126295 TO BUS 126559 CKT 1 /* RAINEY 345 7E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126295 TO BUS 126561 CKT 8 /* RAINEY 345 8E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126480 TO BUS 126561 CKT 1 /* RAINEY8E 138 8E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126295 TO BUS 126562 CKT 8 /* RAINEY 345 8W
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126481 TO BUS 126562 CKT 1 /* RAINEY8W 138 8W
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126295 TO BUS 126563 CKT 1 /* RAINEY 345 9E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126482 TO BUS 126563 CKT 1 /* RAINEY9E 138 9E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126336 TO BUS 126628 CKT 1 /* MH DUM 8 138 MHTX1
138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126336 TO BUS 126641 CKT 1 /* MH DUM 8 138 MOTT
HAVEN 345
EXCLUDE CONTINGENCY BRANCH FROM BUS 126337 TO BUS 126631 CKT 1 /* MH DUM 9 138 MHTX2
138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126337 TO BUS 126641 CKT 1 /* MH DUM 9 138 MOTT
HAVEN 345
EXCLUDE CONTINGENCY BRANCH FROM BUS 126338 TO BUS 126634 CKT 1 /* MH DUM 7 138 MHTX3
138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126338 TO BUS 126641 CKT 1 /* MH DUM 7 138 MOTT
HAVEN 345
EXCLUDE CONTINGENCY BRANCH FROM BUS 126339 TO BUS 126637 CKT 1 /* MH DUM 6 138 MHTX4
138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126339 TO BUS 126641 CKT 1 /* MH DUM 6 138 MOTT
HAVEN 345
COM *** Above already excluded: no automatic N-1 contingencies in ConED area

COM *** List of excluded contingencies in National Grid area
COM Included again based on National Grid email
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135263 TO BUS 135273 CKT 1 /* BERRY RD 115 DUNKIRK1
115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135272 TO BUS 135289 CKT 1 /* DUGN-157 115
NILE115 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135281 TO BUS 135286 CKT 1 /* HARTFLD1 115 MOON-
162 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135282 TO BUS 135296 CKT 1 /* HOMERHIL 115 W.OL-
155 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135300 TO BUS 135450 CKT 1 /* BETH-149 115
GRDNVL1 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135301 TO BUS 135450 CKT 1 /* BETH-150 115
GRDNVL1 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135302 TO BUS 147851 CKT 1 /* GIBSONT6 115
NIAG115W 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135303 TO BUS 135307 CKT 1 /* SAWYER77 230
SAWYERB1 230
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135304 TO BUS 135308 CKT 1 /* SAWYER78 230
SAWYERB2 230
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135305 TO BUS 135309 CKT 1 /* SAWYER80 230
SAWYERB3 230
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135357 TO BUS 135461 CKT 1 /* PYRON187 115
PACK(S)W 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135357 TO BUS 148007 CKT 1 /* PYRON187 115
GRTLK187 115

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COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135410 TO BUS 135414 CKT 1 /* ELM-70 230
 HUNTLEY2 230
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135411 TO BUS 135416 CKT 1 /* ELM-71 230
 SENCA-71 230
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135412 TO BUS 135417 CKT 1 /* ELM-72 230
 SENCA-72 230
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135413 TO BUS 135416 CKT 1 /* GRDNVL2 230
 SENCA-71 230
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135413 TO BUS 135417 CKT 1 /* GRDNVL2 230
 SENCA-72 230
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135421 TO BUS 136544 CKT 1 /* HARPR184 115 UDG-
 184 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135461 TO BUS 135517 CKT 1 /* PACK(S)W 115 PYRON188
 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135461 TO BUS 148004 CKT 1 /* PACK(S)W 115
 CARGR183 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135466 TO BUS 135511 CKT 1 /* S215-188 115
 NFWWP188 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135509 TO BUS 135823 CKT 1 /* NFWWP187 115 S215-
 187 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135509 TO BUS 148002 CKT 1 /* NFWWP187 115
 CARBW187 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135511 TO BUS 148006 CKT 1 /* NFWWP188 115
 CARBW188 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135517 TO BUS 148000 CKT 1 /* PYRON188 115
 GRTLK188 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135849 TO BUS 135858 CKT 1 /* E.GOLAH 115
 GOLAH115 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135849 TO BUS 135895 CKT 1 /* E.GOLAH 115
 BARILLA 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135854 TO BUS 135873 CKT 1 /* BRCKPths 115 SWDN-
 111 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135857 TO BUS 135895 CKT 1 /* GENFOOD 115
 BARILLA 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135874 TO BUS 135877 CKT 1 /* SWDN-113 115
 UNIVRSTY 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 136159 TO BUS 136189 CKT 1 /* BRIDGE 7 115
 DEWITT 1 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 136166 TO BUS 136173 CKT 1 /* A/B_LY13 115
 ANHBS-13 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 136200 TO BUS 136269 CKT 1 /* GERES LK 115
 SOLVTAP2 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 136200 TO BUS 136270 CKT 1 /* GERES LK 115 CRUC
 TAP 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 136238 TO BUS 136269 CKT 1 /* SOLVAY-B 115
 SOLVTAP2 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137211 TO BUS 137233 CKT 1 /* TRNG STN 115
 ONEIDA 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137501 TO BUS 137532 CKT 1 /* FRONT ST 115
 RTRDM1 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137515 TO BUS 137542 CKT 1 /* MENANDS 115 ST
 CAMPS 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137867 TO BUS 137868 CKT 1 /* BROOK W 115
 BROOK1 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137880 TO BUS 137902 CKT 1 /* EJW+STWB 115
 SCOFIELD 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137902 TO BUS 137914 CKT 1 /* SCOFIELD 115
 WBURG115 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137911 TO BUS 137912 CKT 1 /* VAIL TAP 115 VAIL
 115 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 148000 TO BUS 148009 CKT 1 /* GRTLK188 115
 HOOKS188 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 148002 TO BUS 148008 CKT 1 /* CARBW187 115
 HOOKS187 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 148006 TO BUS 148009 CKT 1 /* CARBW188 115
 HOOKS188 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 148007 TO BUS 148008 CKT 1 /* GRTLK187 115
 HOOKS187 115

 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 136197 TO BUS 149141 CKT 1 /* FRMGTN-4 115
 FRMNGT2 34.5: not HV

COM *** Excluded based on Email from NYPA on March 17, 2009
COM *** The tripping of Sprain Brook 345kV also needs tripping of other buses because they are the same line
COM *** This contingency needs to be defined separately
EXCLUDE CONTINGENCY BRANCH FROM BUS 126298 TO BUS 126299 CKT BY /* SPRAINBROOK345 REACBUS 345

COM *** NYPA: These contingencies requires the tripping of the Marcy-Massena 765 kV line, Massena - Chateauguay
COM *** 765KV line, the two Moses - Massena 230KV lines, the HVdc at Chateauguay, and all Beauharnois units
COM *** connected to the Chateauguay - Massena line through the 120KV network.
EXCLUDE CONTINGENCY BRANCH FROM BUS 147827 TO BUS 147828 CKT 1 /* MARCY765 765 MASS
765
EXCLUDE CONTINGENCY BRANCH FROM BUS 147828 TO BUS 180819 CKT 1 /* MASS 765 765 CHA-
NY 765
EXCLUDE CONTINGENCY NAME 'SER:HQ-NY 765'

COM *** Excluded based on Email from NYSEG on March 19, 2009
EXCLUDE CONTINGENCY BRANCH FROM BUS 130785 TO BUS 130793 CKT 1 /* CHURC 115 CRARY 115

COM *** Excluded based on Email from ConED on April 2, 2009
EXCLUDE CONTINGENCY BRANCH FROM BUS 126298 TO BUS 126847 CKT 1 /* SPRAIN BRK 345
ACADEMY 345
EXCLUDE CONTINGENCY NAME 'BUS:GOETHALS_S_345'
EXCLUDE CONTINGENCY NAME 'BUS:GOETHALS_N_345'

COM *** Incorrect contingencies: radial load network
EXCLUDE CONTINGENCY BRANCH FROM BUS 147849 TO BUS 147860 CKT 1 /* MOS 115 115 TR-
TAP1 115
EXCLUDE CONTINGENCY BRANCH FROM BUS 147849 TO BUS 147861 CKT 1 /* MOS 115 115 TR-
TAP2 115
EXCLUDE CONTINGENCY BRANCH FROM BUS 147860 TO BUS 147864 CKT 1 /* TR-TAP1 115 REYN
T#1 115
EXCLUDE CONTINGENCY BRANCH FROM BUS 147861 TO BUS 147865 CKT 1 /* TR-TAP2 115 REYN
T#2 115

COM *** The generation contingency definition should be modified
EXCLUDE CONTINGENCY NAME 'GEN:KINTIGH '
EXCLUDE CONTINGENCY BRANCH FROM BUS 126262 TO BUS 126288 CKT 1 /* BUCHANAN N 345 IP2
345
EXCLUDE CONTINGENCY BRANCH FROM BUS 126263 TO BUS 147832 CKT 1 /* BUCHANAN S 345 IP3
345
EXCLUDE CONTINGENCY NAME 'GEN:RAVNWD 3'

COM The following buses (mid-point dummy buses of 3-wnd xfms) should be excluded from voltage violations
EXCLUDE BUS 126558 /* 2E DUM
EXCLUDE BUS 126559 /* 7E DUM
COM EXCLUDE BUS 126560 /* 7W DUM DISCONNECTED
EXCLUDE BUS 126561 /* 8E DUM
EXCLUDE BUS 126562 /* 8W DUM
EXCLUDE BUS 126563 /* 9E DUM
EXCLUDE BUS 126336 /* MH DUM 8
EXCLUDE BUS 126337 /* MH DUM 9
EXCLUDE BUS 126338 /* MH DUM 7
EXCLUDE BUS 126339 /* MH DUM 6
EXCLUDE BUS 128824 /* EGC DUM

COM *** Dummy buses per ConED email on April 2, 2009
EXCLUDE BUS 126878 /* 37041
EXCLUDE BUS 126877 /* 37042
EXCLUDE BUS 126876 /* 37043
EXCLUDE BUS 126875 /* 37044
EXCLUDE BUS 126486 /* 38M14 TAP
EXCLUDE BUS 126571 /* 38M21 T
EXCLUDE BUS 126572 /* 38M22 T
EXCLUDE BUS 126573 /* 38M23 T
EXCLUDE BUS 126574 /* 38M24 T

EXCLUDE BUS 126725 /* ASTOR T3
 EXCLUDE BUS 126548 /* ASTOR T3 TAP
 EXCLUDE BUS 126727 /* ASTOR T4
 EXCLUDE BUS 126550 /* ASTOR T4 TAP
 EXCLUDE BUS 126355 /* BRNVL1&9
 EXCLUDE BUS 126356 /* BRNVL2&6
 EXCLUDE BUS 126357 /* BRNVL3&7
 EXCLUDE BUS 126358 /* BRNVL4&8
 EXCLUDE BUS 126760 /* CHERY-T2
 EXCLUDE BUS 126759 /* CHERY-T4
 EXCLUDE BUS 126345 /* E29-T1
 EXCLUDE BUS 126346 /* E29-T2
 EXCLUDE BUS 126347 /* E29-T3
 EXCLUDE BUS 126348 /* E29-T4
 EXCLUDE BUS 126575 /* E36-T1
 EXCLUDE BUS 126576 /* E36-T2
 EXCLUDE BUS 126577 /* E36-T3
 EXCLUDE BUS 126578 /* E36-T4
 EXCLUDE BUS 126391 /* E75 ST-2
 EXCLUDE BUS 126393 /* E75 ST-4
 EXCLUDE BUS 126535 /* EAST75 TAP 1
 EXCLUDE BUS 126408 /* FGT_X1
 EXCLUDE BUS 126410 /* FGT_X3
 EXCLUDE BUS 126411 /* FGT_X4
 EXCLUDE BUS 126412 /* FGT_X5
 EXCLUDE BUS 126413 /* FGT_X6
 EXCLUDE BUS 126414 /* FGT_X7
 EXCLUDE BUS 126406 /* FGT_Y1
 EXCLUDE BUS 126404 /* FGT_Y3
 EXCLUDE BUS 126405 /* FGT_Y4
 EXCLUDE BUS 126407 /* FGT_Y6
 EXCLUDE BUS 126620 /* GATE 1
 EXCLUDE BUS 126624 /* GATE 11
 EXCLUDE BUS 126621 /* GATE 2
 EXCLUDE BUS 126625 /* GATE 22
 EXCLUDE BUS 126623 /* GATE 4
 EXCLUDE BUS 126887 /* GATE 44
 EXCLUDE BUS 126284 /* GOTHLS R
 EXCLUDE BUS 126435 /* HUDSON
 EXCLUDE BUS 126638 /* PARK4
 EXCLUDE BUS 126400 /* PLYM_X2
 EXCLUDE BUS 126402 /* PLYM_X3
 EXCLUDE BUS 126403 /* PLYM_X4
 EXCLUDE BUS 126477 /* RAINEY3W
 EXCLUDE BUS 126479 /* RAINEY7W
 EXCLUDE BUS 126490 /* SEAPT T1&7
 EXCLUDE BUS 126570 /* T9 TAP
 EXCLUDE BUS 126505 /* TRADE TX 1
 EXCLUDE BUS 126867 /* TX10 T
 EXCLUDE BUS 126868 /* TX11 T
 EXCLUDE BUS 126873 /* TX12 T
 EXCLUDE BUS 126874 /* TX13 T
 EXCLUDE BUS 126872 /* TX14 T
 EXCLUDE BUS 126871 /* TX15 T
 EXCLUDE BUS 126869 /* TX16 T
 EXCLUDE BUS 126532 /* W110 1&6
 EXCLUDE BUS 126530 /* W110 3&8
 EXCLUDE BUS 126533 /* W110 4&10
 EXCLUDE BUS 126539 /* W42 T1&9
 EXCLUDE BUS 126598 /* W42 T8
 EXCLUDE BUS 126599 /* W42 TX9
 EXCLUDE BUS 126542 /* W42ST5&8
 EXCLUDE BUS 126545 /* W49 ST 3
 EXCLUDE BUS 126547 /* W49 ST 5
 EXCLUDE BUS 126553 /* W65ST1&6
 EXCLUDE BUS 126555 /* W65ST3&8
 EXCLUDE BUS 126449 /* WATER TX1
 EXCLUDE BUS 126450 /* WATER TX2
 EXCLUDE BUS 126514 /* WATER TX3
 EXCLUDE BUS 126376 /* YORK4
 COM *** List added on April 10, 2009

EXCLUDE BUS 126366 /* YORK1
 EXCLUDE BUS 126367 /* YORK2
 EXCLUDE BUS 126375 /* YORK3
 EXCLUDE BUS 126390 /* E75 ST-1
 EXCLUDE BUS 126392 /* E75 ST-3
 EXCLUDE BUS 126394 /* FGT_Y5
 EXCLUDE BUS 126395 /* FGT_Y7
 EXCLUDE BUS 126396 /* FGT_Y10
 EXCLUDE BUS 126397 /* FGT_Y8
 EXCLUDE BUS 126398 /* FGT_Y9P
 EXCLUDE BUS 126401 /* PLYM_X1
 EXCLUDE BUS 126409 /* FGT_X2P
 EXCLUDE BUS 126478 /* RAINEY7E
 EXCLUDE BUS 126484 /* SEAPT 5&9
 EXCLUDE BUS 126485 /* 38M12 TAP
 EXCLUDE BUS 126487 /* SEPRT 4&8
 EXCLUDE BUS 126488 /* 38M15 TAP
 EXCLUDE BUS 126489 /* SEAPT 2&6
 EXCLUDE BUS 126501 /* TRADE TX3
 EXCLUDE BUS 126502 /* TRADE TX2
 EXCLUDE BUS 126503 /* TRADE TX4
 EXCLUDE BUS 126504 /* 38M13 TAP
 EXCLUDE BUS 126531 /* W110 2&7
 EXCLUDE BUS 126536 /* EAST75 TAP 4
 EXCLUDE BUS 126537 /* EAST75 TAP 3
 EXCLUDE BUS 126538 /* W42 T2&10
 EXCLUDE BUS 126540 /* W42 T3&7
 EXCLUDE BUS 126541 /* W42 T4&6
 EXCLUDE BUS 126543 /* W49 ST 11
 EXCLUDE BUS 126544 /* W49 ST 2
 EXCLUDE BUS 126546 /* W49 ST 4
 EXCLUDE BUS 126549 /* ASTOR T1 TAP
 EXCLUDE BUS 126551 /* ASTOR T5 TAP
 EXCLUDE BUS 126552 /* ASTOR T2 TAP
 EXCLUDE BUS 126554 /* W65ST2&5
 EXCLUDE BUS 126556 /* W65ST4&7
 EXCLUDE BUS 126592 /* SEAPT T3&10
 EXCLUDE BUS 126596 /* W42 TX7
 EXCLUDE BUS 126597 /* W42 TX6
 EXCLUDE BUS 126611 /* ASTOR T2
 EXCLUDE BUS 126628 /* MHTX1
 EXCLUDE BUS 126629 /* PARK1
 EXCLUDE BUS 126630 /* MOTT TX2
 EXCLUDE BUS 126631 /* MHTX2
 EXCLUDE BUS 126632 /* PARK2
 EXCLUDE BUS 126633 /* MOTT TX1
 EXCLUDE BUS 126634 /* MHTX3
 EXCLUDE BUS 126635 /* PARK3
 EXCLUDE BUS 126636 /* MOTT TX3
 EXCLUDE BUS 126637 /* MHTX4
 EXCLUDE BUS 126639 /* MOTT TX4
 EXCLUDE BUS 126726 /* ASTOR T1
 EXCLUDE BUS 126728 /* ASTOR T5
 EXCLUDE BUS 126828 /* W50-TAP TX 5

COM *** ConED cables can be loaded over LTE but not STE, added on April 10, 2009 (not excluded)

COM EXCLUDE BRANCH FROM BUS 126295 TO BUS 126561 CKT 8 /* RAINEY 345 8E DUM
 138
 COM EXCLUDE BRANCH FROM BUS 126277 TO BUS 126295 CKT 3 /* FARRAGUT 345 RAINEY
 345
 COM EXCLUDE BRANCH FROM BUS 126277 TO BUS 126295 CKT 1 /* FARRAGUT 345 RAINEY
 345
 COM EXCLUDE BRANCH FROM BUS 126277 TO BUS 126295 CKT 3 /* FARRAGUT 345 RAINEY
 345
 COM EXCLUDE BRANCH FROM BUS 126277 TO BUS 126295 CKT 1 /* FARRAGUT 345 RAINEY
 345
 COM EXCLUDE BRANCH FROM BUS 126285 TO BUS 126287 CKT 1 /* GOTHLS S 345
 GOWANUSS 345
 COM EXCLUDE BRANCH FROM BUS 126283 TO BUS 126286 CKT 1 /* GOTHLS N 345
 GOWANUSN 345

COM EXCLUDE BRANCH FROM BUS 126295 TO BUS 126561 CKT 8 138	/* RAINEY 345	8E DUM
COM EXCLUDE BRANCH FROM BUS 126480 TO BUS 126506 CKT 1 E 138	/* RAINEY8E 138	VERNON-
COM EXCLUDE BRANCH FROM BUS 126480 TO BUS 126561 CKT 1 138	/* RAINEY8E 138	8E DUM
COM EXCLUDE BRANCH FROM BUS 126352 TO BUS 126415 CKT 2 N 138	/* ASTE-WRG 138	CORONA-
COM EXCLUDE BRANCH FROM BUS 126352 TO BUS 126415 CKT 4 N 138	/* ASTE-WRG 138	CORONA-
COM EXCLUDE BRANCH FROM BUS 126352 TO BUS 126415 CKT 6 N 138	/* ASTE-WRG 138	CORONA-
COM EXCLUDE BRANCH FROM BUS 126385 TO BUS 126483 CKT 2 138	/* E179 ST 138	S CREEK
COM EXCLUDE BRANCH FROM BUS 126385 TO BUS 126483 CKT 1 138	/* E179 ST 138	S CREEK
COM EXCLUDE BRANCH FROM BUS 126295 TO BUS 126561 CKT 8 138	/* RAINEY 345	8E DUM
COM EXCLUDE BRANCH FROM BUS 126480 TO BUS 126561 CKT 1 138	/* RAINEY8E 138	8E DUM
COM EXCLUDE BRANCH FROM BUS 126295 TO BUS 126561 CKT 8 138	/* RAINEY 345	8E DUM
COM EXCLUDE BRANCH FROM BUS 126480 TO BUS 126561 CKT 1 138	/* RAINEY8E 138	8E DUM
COM EXCLUDE BRANCH FROM BUS 126283 TO BUS 126286 CKT 1 GOWANUSN 345	/* GOTHLS N 345	
COM EXCLUDE BRANCH FROM BUS 126285 TO BUS 126287 CKT 1 GOWANUSS 345	/* GOTHLS S 345	
COM EXCLUDE BRANCH FROM BUS 126285 TO BUS 126287 CKT 1 GOWANUSS 345	/* GOTHLS S 345	
COM EXCLUDE BRANCH FROM BUS 126283 TO BUS 126286 CKT 1 GOWANUSN 345	/* GOTHLS N 345	

END

**APPENDIX C – DATA FILES FOR INTERMEDIATE YEAR TRANSFER
LIMIT ANALYSIS**

C.1 Subsystem Description File

File STARS-TTL.sub

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

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

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

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

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

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

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

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

```

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

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

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

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

```

```

BUS 135391      0.0500    /* DUNKGEN4
BUS 135801      0.0500    /* HNTLY68G
BUS 136702      0.1500    /* OSWEGO 5G
BUS 136703      0.1500    /* OSWEGO 6G
BUS 125190      0.1000    /* ROSE GN1
BUS 125192      0.1000    /* ROSE GN2
BUS 146841      0.1000    /* BOW1
BUS 126650      0.0900    /* AK 3
BUS 126654      0.0300    /* AST 3
BUS 126656      0.0300    /* AST 5
BUS 126655      0.0700    /* AST 4
BUS 126653      0.0300    /* AK 2
BUS 137456      0.0250    /* ATHENSC1
BUS 137458      0.0250    /* ATHENSC2

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

END
END

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

END
END

COM *****

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

/ *** EXPORTS ***

subsystem ROS

```

```

    areas 1 9
end

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

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

subsystem 'HQ-Cedres'
    area 107
end

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

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

subsystem 'NYC'
    area 10
    scale all for import
end

subsystem 'LI'
    area 11
    scale all for import
end

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

subsystem NE
    area 101
    scale all for export include offline
end

subsystem ONT
    area 103
    scale all for export include offline
end

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

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

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

```

```
END

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

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

subsystem K
  area 11
end

subsystem 'A_export'
  area 1
  scale all for export
end

subsystem 'B_export'
  area 2
  scale all for export
end

subsystem 'C_export'
  area 3
  scale all for export
end

subsystem 'D_export'
  area 4
  scale all for export
end

subsystem 'E_export'
  area 5
  scale all for export
end

subsystem 'F_export'
  area 6
  scale all for export
end

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



```

end

subsystem 'H_export'
  area 8
  scale all for export
end

subsystem 'I_export'
  area 9
  scale all for export
end

subsystem 'J_export'
  area 10
  scale all for export
end

subsystem 'K_export'
  area 11
  scale all for export
end

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

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

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

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

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

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

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

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

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

```

```

SCALE ALL FOR EXPORT
END

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

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

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

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

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

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

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

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

/ *** IMPORTS ***

subsystem 'NE_import'
area 101
scale all for import
end

subsystem 'A_import'
area 1
scale all for import
end

subsystem 'B_import'
area 2
scale all for import
end

subsystem 'C_import'
area 3
scale all for import
end

subsystem 'C_load'
area 3

```

```

        scale all load
end

subsystem 'D_import'
    area 4
    scale all for import
end

subsystem 'E_import'
    area 5
    scale all for import
end

subsystem 'F_import'
    area 6
    scale all for import
end

subsystem 'G_import'
    area 7
    scale all for import
end

subsystem 'G_load'
    area 7
    scale all load
end

subsystem 'H_import'
    area 8
    scale all for import
end

subsystem 'h_load'
    area 8
    scale all load
end

subsystem 'i_load'
    area 9
    scale all load
end

subsystem 'J_import'
    area 10
    scale all for import
end

subsystem 'j_load'
    area 10
    scale all load
end

subsystem 'K_import'
    area 11
    scale all for import
end

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

subsystem 'k_load'
    area 11
    scale all load
end

subsystem 'GHI_export'
    areas 7 9
    scale all for export

```

```
end

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

subsystem 'GHI_load'
  areas 7 9
  scale all load
end

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

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

subsystem 'fg_load'
  areas 6 7
  scale all load
end

subsystem 'fghi_load'
  areas 6 9
  scale all load
end

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

subsystem 'hi_load'
  areas 8 9
  scale all load
end

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

subsystem 'hij_load'
  areas 8 10
  scale all load
end

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

subsystem 'hijk_load'
  areas 8 11
  scale all load
end

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

subsystem 'SENY_load'
  areas 7 11
  scale all load
end
```

```

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

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

subsystem 'NYHV'
  areas 1 11
end

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

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

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

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

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

```

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

File DB2008_INERTIA.sub

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

```

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

SUBSYSTEM INERTIANYC
PARTICIPATE
SUBSYSTEM SCALE_NYC           100.00
END
END

END / End File

```


C.2 Monitored Element File

File STARS-TTL.mon

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

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

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

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

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

```
/ Monitor all NY interfaces
```

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

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

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

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

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

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

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

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

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

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

MONITOR INTERFACE 'NY-ONT' /

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

MONITOR INTERFACE 'NY-PJM' /

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

MONITOR INTERFACE 'ONT-NY' /

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

```

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

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

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

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

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

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

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

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

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

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

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

MONITOR INTERFACE 'PJMWest-C'

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

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

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

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

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

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

```

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

```

```

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

```

```

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

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```

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

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

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

END / END FILE

```

File db2008_nyca-wind-ABB.mon

```

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

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MONITOR BRANCH FROM BUS 147828 TO BUS 147827 CKT 1 / 4888* MASSA765 765 4887 MARCY765 765 1
 MONITOR BRANCH FROM BUS 147840 TO BUS 147835 CKT 1 / 4903* MOSES-WM 230 4898 ADRONIB1 230 1
 MONITOR BRANCH FROM BUS 147840 TO BUS 147836 CKT 1 / 4903* MOSES-WM 230 4899 ADRONIB2 230 1
 MONITOR BRANCH FROM BUS 136751 TO BUS 136764 CKT 1 / ALLENS F 115 COLTON 115
 MONITOR BRANCH FROM BUS 136854 TO BUS 136855 CKT 1 / Gilpin 46 Gilpin Tap 46
 MONITOR BRANCH FROM BUS 131777 TO BUS 131791 CKT 1 / Jay 12 Norton 46

END

MONITOR INTERFACE 'TOTAL EAST' /

MONITOR BRANCH FROM BUS 130862 TO BUS 131560 CKT 1 / W.WDB115 115 W.WDBR6969.0
 MONITOR BRANCH FROM BUS 130753 TO BUS 147831 CKT 1 / FRASR345 345 GILB 345 345
 MONITOR BRANCH FROM BUS 130750 TO BUS 146754 CKT 1 / COOPC345 345 SHOEMTAP 345
 MONITOR BRANCH FROM BUS 130750 TO BUS 125001 CKT 2 / COOPC345 345 ROCKTAV 345
 MONITOR BRANCH FROM BUS 2 TO BUS 126250 CKT 1 / (old) BRANCHBG 500 RAMAPO 5 500
 MONITOR BRANCH FROM BUS 91 TO BUS 126250 CKT 1 / (new) jefferson 500 RAMAPO 5 500
 MONITOR BRANCH FROM BUS 4989 TO BUS 126278 CKT 1 / HUDSON 1 345 FARRGUT1 345
 MONITOR BRANCH FROM BUS 5039 TO BUS 126279 CKT 1 / HUDSON 2 345 FARRGUT2 345
 MONITOR BRANCH FROM BUS 4996 TO BUS 126321 CKT 1 / LINDEN 230 GOETHALS 230
 MONITOR BRANCH FROM BUS 5028 TO BUS 146752 CKT 1 / WALDWICK 345 SMAHWAH1 345
 MONITOR BRANCH FROM BUS 5028 TO BUS 146753 CKT 1 / WALDWICK 345 SMAHWAH2 345
 MONITOR BRANCH FROM BUS 130797 TO BUS 137886 CKT 1 / E.SPR115 115 INGHAM-E 115} 1
 MONITOR BRANCH FROM BUS 137200 TO BUS 137452 CKT 1 / EDIC9 345 N.SCOT77 345} 1
 MONITOR BRANCH FROM BUS 137210 TO BUS 137730 CKT 1 / PORTER 2 230 ROTRDM.2 230} 1

REPLACED BY PROJECT NO. 186

MONITOR BRANCH FROM BUS 137204 TO BUS 137730 CKT 1 / JORDANVILLE 230 ROTRDM.2 230} 1
 PROJECT NO. 186
 MONITOR BRANCH FROM BUS 137210 TO BUS 137730 CKT 2 / PORTER 2 230 ROTRDM.2 230} 2
 MONITOR BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / INGMS-CD 115 INGHAM-E 115} 1
 MONITOR BRANCH FROM BUS 147833 TO BUS 137453 CKT 1 / MARCY T1 345 N.SCOT99 345} 1
 MONITOR BRANCH FROM BUS 147852 TO BUS 100511 CKT 1 / PLAT T#3 115 GRAND IS 115} 1
 MONITOR BRANCH FROM BUS 9803 TO BUS 146761 CKT 1 / HCOR138 138 BURNS138 138 RECO

TIE

MONITOR BRANCH FROM BUS 9804 TO BUS 146752 CKT 1 / SMAH138 138 SMAHWAH1 345 RECO

TIE

MONITOR BRANCH FROM BUS 9804 TO BUS 146769 CKT 1 / SMAH138 138 RAMP138 138 RECO

TIE

MONITOR BRANCH FROM BUS 9808 TO BUS 146812 CKT 1 / HCOR69 69.0 WNYA69 69.0 RECO

TIE

MONITOR BRANCH FROM BUS 9809 TO BUS 146777 CKT 1 / MONTVALE69.0 BLUHILL 69.0 RECO

TIE

MONITOR BRANCH FROM BUS 9809 TO BUS 146777 CKT 2 / MONTVALE69.0 BLUHILL 69.0 RECO

TIE

MONITOR BRANCH FROM BUS 9809 TO BUS 146850 CKT 1 / MONTVALE69.0 L491T 69.0 RECO

TIE

MONITOR BRANCH FROM BUS 9810 TO BUS 146790 CKT 1 / SMAH69 69.0 HILB69 69.0 RECO

TIE

MONITOR BRANCH FROM BUS 9811 TO BUS 146826 CKT 1 / HCOR34 34.5 PEARL34 34.5 RECO

TIE

MONITOR BRANCH FROM BUS 9814 TO BUS 146807 CKT 1 / CRESSKIL69.0 SPARKILL69.0 RECO

TIE

MONITOR BRANCH FROM BUS 128842 TO BUS 128847 CKT 1 / NEPTCONV 345 NWBRG 345

MONITOR BRANCH FROM BUS 5473 TO BUS 126265 CKT 1 / LINDEN VFT

END

MONITOR INTERFACE 'CENTRAL EAST' /

MONITOR BRANCH FROM BUS 130797 TO BUS 137886 CKT 1 / E.SPR115 115 INGHAM-E 115} 1

MONITOR BRANCH FROM BUS 137200 TO BUS 137452 CKT 1 / EDIC 345 N.SCOT77 345} 1

MONITOR BRANCH FROM BUS 137210 TO BUS 137730 CKT 1 / PORTER 2 230 ROTRDM.2 230} 1

REPLACED BY PROJECT NO. 186

MONITOR BRANCH FROM BUS 137204 TO BUS 137730 CKT 1 / JORDANVILLE 230 ROTRDM.2 230} 1

PROJECT NO. 186

MONITOR BRANCH FROM BUS 137210 TO BUS 137730 CKT 2 / PORTER 2 230 ROTRDM.2 230} 2

MONITOR BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / INGMS-CD 115 INGHAM-E 115} 1

MONITOR BRANCH FROM BUS 147833 TO BUS 137453 CKT 1 / MARCY T1 345 N.SCOT99 345} 1

/ MONITOR BRANCH FROM BUS 147852 TO BUS 100511 CKT 1 / PLAT T#3 115 GRAND IS 115} 1 /

(ABB: Commented out per Larry Eng e-mail dated 4.23.09)

END

MONITOR INTERFACE 'UPNY-SENY OPEN' /

/ MONITOR BRANCH FROM BUS 2 TO BUS 126250 CKT 1 / (old) BRANCHBG 500 RAMAPO 5 500 /

(ABB: Commented out per Larry Eng e-mail dated 4.23.09)

/ MONITOR BRANCH FROM BUS 91 TO BUS 126250 CKT 1 / (new) jefferson 500 RAMAPO 5 500 /

(ABB: Commented out per Larry Eng e-mail dated 4.23.09)

MONITOR BRANCH FROM BUS 103117 TO BUS 126294 CKT 1 / LONGMTN 345 PLTVLLEY 345


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

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

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

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

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MONITOR INTERFACE 'QFW' /
157052 158103 1 / BECK2 DK 220 HANONJ24 220 Q24
157052 158105 1 / BECK2 DK 220 HANONJ29 220 Q29
157052 157070 1 / BECK2 DK 220 NWEST25J 220 Q25
157052 157069 1 / BECK2 DK 220 NWEST23J 220 Q23
157053 158069 1 / ALANJQ30 220 MIDDLEDK1 220 Q30
158165 158069 1 / CROSJQ26 220 to MIDDLEDK1 220 Q26M
158166 158142 1 / CROSJQ32 220 to STANNT35 220 Q35M
END

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```

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

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

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

```

```

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

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```

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

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

```

C.3 Contingency Description File

File STARS-TTL.con

```
COM
COM
COM *****
COM * To allow for tripping of switched shunts individually, please *
COM * RUN "MOVE_SW_SHUNTS.IDV" ON BASE CASE BEFORE USING THIS FILE *
COM * *
COM * If you do not wish to do so, it will not have adverse affects *
COM * on the function of this .CON file. *
COM * *
COM * Switched shunt CAPACITORS start at bus# 101 *
COM * Switched shunt REACTORS start at bus# 150 *
COM * (see spreadsheet for details) *
COM * *
COM *****
COM
COM
COM
COM
COM
SINGLE BRANCH IN SUBSYSTEM ROS kvrange 100 999
SINGLE TIE FROM SUBSYSTEM ROS kvrange 100 999
SINGLE BRANCH IN SUBSYSTEM 'LIPA-HV'
SINGLE TIE FROM SUBSYSTEM 'LIPA-HV'
COM *****
COM * INERTIAL REDISPATCH FOR ALL IMBALANCES CAUSED BY CONTINGENCIES *
COM *****
DEFAULT DISPATCH
SUBSYSTEM INERTIA
END
COM
=====
COM == ALL CONTINGENCIES CONTAINED IN 'DB2008_COMMON.CON' ARE COMMON TO ALL DB2008 .CON
FILES ==
COM
=====
INCLUDE DB2008_emer.con / ehv emergency transfer limited set
INCLUDE NGrid-Mar312009.con
COM #####
COM REMOVE UNIT 2 FROM BUS 126651
COM Station Service Load also tripped
CONTINGENCY 'GEN:IND PT 2-New'
DISCONNECT BUS 126651 DISPATCH
SYSTEM INERTIA 100
END
END
COM REMOVE UNIT 1 FROM BUS 147798
COM Station Service Load also tripped
CONTINGENCY 'GEN:IND PT 3-New'
DISCONNECT BUS 147798 DISPATCH
SYSTEM INERTIA 100
END
END
COM REMOVE UNIT 1 FROM BUS 126652
COM REMOVE UNIT 2 FROM BUS 126652
CONTINGENCY 'GEN:RAVNWD 3-New'
DISCONNECT BUS 126652 DISPATCH
SYSTEM INERTIANYC 100
END
END
```

```

COM REMOVE UNIT 1 FROM BUS 130873
COM Station Service Load also tripped
CONTINGENCY 'GEN:KINTIGH-New'
    DISCONNECT BUS 130873 DISPATCH
        SYSTEM INERTIA 100
    END
END

CONTINGENCY 'HQ-NY-765-New'
    REDUCE BUS 180001 GENERATION by 100 percent DISPATCH / beauharnois #1-7
        SUBSYSTEM INERTIA
    END /
    SET BUS 181319 LOAD TO 357 MW DISPATCH / CHAT CC1 INVERTER
        SUBSYSTEM INERTIA
    END /
    REDUCE BUS 180002 GENERATION by 100 percent DISPATCH / beauharnois #8-14
        SUBSYSTEM INERTIA
    END /
    SET BUS 181419 LOAD TO 357 MW DISPATCH / CHAT CC2 INVERTER
        SUBSYSTEM INERTIA
    END /
    TRIP BRANCH FROM BUS 147827 TO BUS 147828 ckt 1 / MSU-1 MARCY765 765
        MASS 765 765
    TRIP BRANCH FROM BUS 147828 TO BUS 180819 ckt 1 / MASS 765 765 CHATG-NY 765
    DISCONNECT BUS 147827
    DISCONNECT BUS 147838
    DISCONNECT BUS 147837
    DISCONNECT BUS 156 / DUMMY BUS
        MARCY765 SW. SHUNT 200MVAR REAC #7223
    DISCONNECT BUS 158 / DUMMY BUS
        MASS 765 SW. SHUNT 200MVAR REAC #7222
    DISCONNECT BUS 157 / DUMMY BUS
        MASS 765 SW. SHUNT 200MVAR REAC #7122
END

COM *** Added by ABB based on comments from working group
CONTINGENCY 'SPRN-BRK-345'
    TRIP BRANCH FROM BUS 126298 TO BUS 126299 CKT BY /* SPRAINBROOK345 REACBUS 345
    DISCONNECT BUS 126299
    DISCONNECT BUS 147857
    DISCONNECT BUS 128830
    DISCONNECT BUS 128824
    DISCONNECT BUS 128825
END

COM *** Added by ABB on Apr.02.2009 based on ConED email
CONTINGENCY 'SPRN-ACDMY'
    DISCONNECT BUS 126847
END

COM *** Added by ABB on Apr.06.2009 for radial network
CONTINGENCY '135272-135289'
    DISCONNECT BUS 135289
END

CONTINGENCY '135300-135450'
    DISCONNECT BUS 135300
END

CONTINGENCY '135357-6-CONT'
    DISCONNECT BUS 135357
    DISCONNECT BUS 148007
    DISCONNECT BUS 148002
    DISCONNECT BUS 148008
    DISCONNECT BUS 135509
    DISCONNECT BUS 135823
END

CONTINGENCY '135849'
    DISCONNECT BUS 135849
    DISCONNECT BUS 135895

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```
DISCONNECT BUS 135857
DISCONNECT BUS 135863
END
```

```
CONTINGENCY '136269'
DISCONNECT BUS 136269
DISCONNECT BUS 136238
END
```

```
COM CONTINGENCY 'CHECK'
COM DISCONNECT BUS -1
COM END
```

```
END
END
END
```

File DB2008_emer.con

```
COM ***** Draft 1-fixed errors for NYCA ctg only, HVDC and neighboring ones unchanged in this
Draft1*****
COM *
*
COM * - April 1 FERC715 summer 2012 case -
*
COM
*****
****
COM * *
COM * This file contains contingencies common to all contingency files. *
COM * !!DO NOT USE THIS FILE BY ITSELF!! *
COM * *
COM * This file is meant to be included in other .CON files using the *
COM * INCLUDE command. This file must be in the same directory as the *
COM * file it is included in. *
COM * *
COM *****
COM
COM
COM *****
COM * To allow for tripping of switched shunts individually, please *
COM * RUN "MOVE_SW_SHUNTS.IDV" ON BASE CASE BEFORE USING THIS FILE *
COM * *
COM * If you do not wish to do so, it will not have adverse affects *
COM * on the function of this .CON file. *
COM * *
COM * Switched shunt CAPACITORS start at bus# 101 *
COM * Switched shunt REACTORS start at bus# 150 *
COM * (see spreadsheet for details) *
COM * *
COM *****
COM
COM
COM ABB: Based on STARS WG comments dated 4.24.2009, this file has no tower contingencies
COM or stuck-breaker contingencies
COM
COM ***** /
COM * GENERATION CONTINGENCIES * /
COM ***** /
/
CONTINGENCY 'GEN:NYPAS' / L/O ST UNIT RESULTED IN L/O PLANT
REMOVE UNIT 1 FROM BUS 147788 /
REMOVE UNIT 1 FROM BUS 147789 /
REMOVE UNIT 1 FROM BUS 147790 /
END /
CONTINGENCY 'GEN:SCS AST' / L/O GAS COMPRESSOR RESULTED IN
L/O PLANT
REMOVE UNIT 1 FROM BUS 126667 /
REMOVE UNIT 1 FROM BUS 126668 /
REMOVE UNIT 1 FROM BUS 126669 /
END /
CONTINGENCY 'GEN:IND PT 2' /
REMOVE UNIT 2 FROM BUS 126651 /
END /
CONTINGENCY 'GEN:IND PT 3' /
REMOVE UNIT 1 FROM BUS 147798 /
END /
CONTINGENCY 'GEN:RAVWWD 3' /
REMOVE UNIT 1 FROM BUS 126652 /
REMOVE UNIT 2 FROM BUS 126652 /
END /
CONTINGENCY 'GEN:BOWL PT2' /
REMOVE UNIT 2 FROM BUS 146840 /
END /
CONTINGENCY 'GEN:BOWL PT1' /
REMOVE UNIT 1 FROM BUS 146841 /
END /
```

```

CONTINGENCY 'GEN:FITZPATR' /
  REMOVE UNIT 1 FROM BUS 147797 /
  TRIP BRANCH FROM BUS 147830 TO BUS 136155 CKT 1 / 10 JA FITZP 345 SCRIBA 345
  TRIP BRANCH FROM BUS 147830 TO BUS 137200 CKT 1 / FEL JA FITZP 345 EDIC 345
END
CONTINGENCY 'GEN:9 MI PT1' /
  REMOVE UNIT 1 FROM BUS 136701 /
  TRIP BRANCH FROM BUS 136157 TO BUS 136150 CKT 1 / 8 9MI PT1 345 CLAY 345
  TRIP BRANCH FROM BUS 136155 TO BUS 136157 CKT 1 / 9 SCRIBA 345 9MI PT1 345
END
CONTINGENCY 'GEN:9 MI PT2' /
  REMOVE UNIT 2 FROM BUS 136700 /
END
CONTINGENCY 'GEN:GINNA ' /
  REMOVE UNIT 1 FROM BUS 149140 /
END
CONTINGENCY 'GEN:KINTIGH ' /
  REMOVE UNIT 1 FROM BUS 130873 /
END
CONTINGENCY 'GEN:BRUCE 6 ' /
  REMOVE UNIT 1 FROM BUS 159617 /
END
CONTINGENCY 'GEN:NANTCK 8' /
  REMOVE UNIT 1 FROM BUS 158743 /
END
CONTINGENCY 'GEN:PICKER 6' /
  REMOVE UNIT 1 FROM BUS 156683 /
END
CONTINGENCY 'GEN:SALEM ' /
  REMOVE UNIT 1 FROM BUS 36 /
END
/
CONTINGENCY 'GEN:PEACHBTM' /
  REMOVE UNIT 1 FROM BUS 34 /
END
CONTINGENCY 'GEN:MARTN CK' /
  REMOVE UNIT 4 FROM BUS 3151 /
END
CONTINGENCY 'GEN:VT YANK ' /
  REMOVE UNIT 1 FROM BUS 100705 /
END
CONTINGENCY 'GEN:NTHF 3&4' /
  REMOVE UNIT 4 FROM BUS 103084 /
  REMOVE UNIT 3 FROM BUS 103083 /
END
CONTINGENCY 'GEN:MILLST 3' /
  REMOVE UNIT 3 FROM BUS 103563 /
END
CONTINGENCY 'GEN:SEABROOK' /
  REMOVE UNIT 1 FROM BUS 102869 /
END
CONTINGENCY 'GEN:MLS3&OMS' /
  TRIP BRANCH FROM BUS 100509 TO BUS 100508 CKT 2 / INDUCTOR 115 SAND BAR 115
  REMOVE UNIT 3 FROM BUS 103563 /
END
CONTINGENCY 'GEN:SEAB&OMS' /
  TRIP BRANCH FROM BUS 100509 TO BUS 100508 CKT 2 / INDUCTOR 115 SAND BAR 115
  REMOVE UNIT 1 FROM BUS 102869 /
END
COM ***** /
COM * SERIES ELEMENT CONTINGENCIES * /
COM ***** /
CONTINGENCY 'SER:W93&W79' /
  TRIP BRANCH FROM BUS 126262 TO BUS 126267 CKT 1 / W93 BUCH N 345 E VIEW1 345
  TRIP BRANCH FROM BUS 126298 TO BUS 126267 CKT 1 / W79 SPRBROOK 345 E VIEW1 345
  TRIP BRANCH FROM BUS 126378 TO BUS 126267 CKT 1 / 2N EASTVIEW 138 E VIEW1 345
END
CONTINGENCY 'SER:W85&W78' /
  TRIP BRANCH FROM BUS 126291 TO BUS 126268 CKT 1 / W85 MILLWOOD 345 E VIEW2 345
  TRIP BRANCH FROM BUS 126298 TO BUS 126268 CKT 1 / W78 SPRBROOK 345 E VIEW2 345
  TRIP BRANCH FROM BUS 126378 TO BUS 126268 CKT 1 / 1S EASTVIEW 138 E VIEW2 345

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END /
 CONTINGENCY 'SER:W99&W64' /
 TRIP BRANCH FROM BUS 126291 TO BUS 126269 CKT 1 / W99 MILLWOOD 345 E VIEW3 345
 TRIP BRANCH FROM BUS 126298 TO BUS 126269 CKT 2 / W64 SPRBROOK 345 E VIEW3 345
 TRIP BRANCH FROM BUS 126378 TO BUS 126269 CKT 1 / 1N EASTVIEW 138 E VIEW3 345
 END /
 CONTINGENCY 'SER:W82&W65' /
 TRIP BRANCH FROM BUS 126291 TO BUS 126270 CKT 1 / W82 MILLWOOD 345 E VIEW4 345
 TRIP BRANCH FROM BUS 126298 TO BUS 126270 CKT 1 / W65 SPRBROOK 345 E VIEW4 345
 TRIP BRANCH FROM BUS 126378 TO BUS 126270 CKT 1 / 2S EASTVIEW 138 E VIEW4 345
 END /
 CONTINGENCY 'SER:F30&W80' /
 TRIP BRANCH FROM BUS 126294 TO BUS 126306 CKT 1 / F30 PLTVLLEY 345 WOOD B 345
 TRIP BRANCH FROM BUS 126291 TO BUS 126306 CKT 1 / W80 MILLWOOD 345 WOOD B 345
 TRIP BRANCH FROM BUS 126306 TO BUS 130759 CKT 1 / ZILW1 WOOD B 345 WOODB345 345
 TRIP BRANCH FROM BUS 130759 TO BUS 130865 CKT 1 / TRW1 WOOD B 345 WOODB115 115
 END /
 CONTINGENCY 'SER:F38&Y86' /
 TRIP BRANCH FROM BUS 126281 TO BUS 126292 CKT 1 / F38 FISHKILL 345 PL VILLE 345
 TRIP BRANCH FROM BUS 126292 TO BUS 126733 CKT 1 / T1 PL VILLE 345 PLTVILLE 13
 DISCONNECT BUS 126292 / BUS PL VILLE 345 (20 MVAR REACTOR)
 END /
 CONTINGENCY 'SER:F39&Y87' /
 TRIP BRANCH FROM BUS 126281 TO BUS 126305 CKT 1 / F39 FISHKILL 345 WOOD A 345
 TRIP BRANCH FROM BUS 126293 TO BUS 126305 CKT 1 / Y87 PL VILLW 345 WOOD A 345
 TRIP BRANCH FROM BUS 126305 TO BUS 130758 CKT 1 / WOOD A 345 WOODA345 345
 TRIP BRANCH FROM BUS 130758 TO BUS 130865 CKT 1 / T2 WOODA345 345 WOODS115 115
 END /
 CONTINGENCY 'SER:W90&W74' /
 TRIP BRANCH FROM BUS 126266 TO BUS 126293 CKT 1 / W90 DUNWODIE 345 PL VILLW 345
 TRIP BRANCH FROM BUS 126342 TO BUS 126368 CKT 1 / W74 DUNWODIE 345 DUN NO 138
 TRIP BRANCH FROM BUS 126293 TO BUS 126733 CKT 1 / T2 PL VILLW 345 PLTVILLE 13
 DISCONNECT BUS 126293 / BUS PL VILLW 345 (20 MVAR REACTOR)
 END /
 CONTINGENCY 'SER:W89&W73' /
 TRIP BRANCH FROM BUS 126266 TO BUS 126292 CKT 1 / W89 DUNWODIE 345 PL VILLE 345
 TRIP BRANCH FROM BUS 126343 TO BUS 126372 CKT 1 / W73 DUNWODIE 345 DUN SO 138
 END /
 CONTINGENCY 'SER:Y94&TA5' /
 TRIP BRANCH FROM BUS 126297 TO BUS 126262 CKT 1 / Y94 RAMAPO 345 BUCH N 345
 TRIP BRANCH FROM BUS 126360 TO BUS 126262 CKT 1 / TA5 BUCHNTA5 138 BUCH N 345
 END /
 CONTINGENCY 'SER:OSWEG->LAFAY' /
 TRIP BRANCH FROM BUS 136152 TO BUS 136153 CKT 1 / 17 ELBRIDGE 345 LAFAYTTE 345
 TRIP BRANCH FROM BUS 136152 TO BUS 136154 CKT 1 / 17 ELBRIDGE 345 OSWEGO 345
 TRIP BRANCH FROM BUS 136152 TO BUS 136191 CKT 1 / XFMR ELBRIDGE 345 ELBRIDGE 115
 END /
 CONTINGENCY 'SER:69 & J ' /
 TRIP BRANCH FROM BUS 126297 TO BUS 146752 CKT 1 / 69 RAMAPO 345 SMAHWAH1 345
 TRIP BRANCH FROM BUS 146752 TO BUS 9804 CKT 1 / XFMR SMAHWAH1 345 S.MAHWAH 138
 TRIP BRANCH FROM BUS 5028 TO BUS 146752 CKT 1 / J3410 WALDWICK 345 SMAHWAH1 345
 END /
 CONTINGENCY 'SER:70 & K ' /
 TRIP BRANCH FROM BUS 126297 TO BUS 146753 CKT 1 / 70 RAMAPO 345 SMAHWAH2 345
 TRIP BRANCH FROM BUS 5028 TO BUS 146753 CKT 1 / K3411 WALDWICK 345 SMAHWAH2 345
 END /
 CONTINGENCY 'SER:393&312' /
 COM TRIP BRANCH FROM BUS 137450 TO BUS 137452 CKT 1 / ALPS345 345 GE SELKR 345/N.SCOT
 TRIP BRANCH FROM BUS 137450 TO BUS 102928 CKT 1 / 393 ALPS345 345 MANY393 345
 TRIP BRANCH FROM BUS 102928 TO BUS 102924 CKT 1 / MANY393 345 BERKSHIR 345
 TRIP BRANCH FROM BUS 102924 TO BUS 102926 CKT 1 / BERK 345 345 NRTHF345 345
 TRIP BRANCH FROM BUS 102924 TO BUS 102952 CKT 1 / BERK 345 345 BERKSHIR 115
 END /
 CONTINGENCY 'SER:PORTER_17&T4' /
 TRIP BRANCH FROM BUS 137200 TO BUS 137210 CKT 1 / 17 EDIC 345 PORTER 2 230
 TRIP BRANCH FROM BUS 137200 TO BUS 137235 CKT 2 / T4 EDIC 345 PORTER 1 115
 END /
 CONTINGENCY 'SER:MASS765/230_1' /
 TRIP BRANCH FROM BUS 147828 TO BUS 147837 CKT 1 / XFMR #1 MASS 765 765 MASS230A 230
 TRIP BRANCH FROM BUS 147837 TO BUS 147839 CKT 1 / MMS1 MASS230A 230 MOSES E 230
 END /

CONTINGENCY 'SER:MASS765/230_2'
 TRIP BRANCH FROM BUS 147828 TO BUS 147838 CKT 1 / XFMR #2 MASS 765 765 MASS230B 230
 TRIP BRANCH FROM BUS 147838 TO BUS 147839 CKT 1 / MMS2 MASS230B 230 MOSES E 230
 END
 CONTINGENCY 'SER:CMT34&MTR34' / COOP. CORNERS > SHOEMTAP > ROCK TAV
 TRIP BRANCH FROM BUS 130750 TO BUS 146754 CKT 1 / CMT-34 COOPC345 345 SHOEMTAP 345
 TRIP BRANCH FROM BUS 146754 TO BUS 125001 CKT 1 / MTR-34 SHOEMTAP 345 ROCK TAV 345
 END
 CONTINGENCY 'SER:OAKDALE_WATRC230'
 TRIP BRANCH FROM BUS 130768 TO BUS 130772 CKT 1 / 71 WATRC230 230 SHRED230 230
 TRIP BRANCH FROM BUS 130772 TO BUS 130765 CKT 1 / 71 SHRED230 230 OAKDL230 230
 TRIP BRANCH FROM BUS 130765 TO BUS 130838 CKT 1 / T1 OAKDL230 230 OAKDL115 115
 END
 CONTINGENCY 'SER:STOLLE345/115'
 TRIP BRANCH FROM BUS 130756 TO BUS 130857 CKT 1 / T3 STOLE345 345 STOLE115 115
 TRIP BRANCH FROM BUS 130756 TO BUS 130857 CKT 2 / T4 STOLE345 345 STOLE115 115
 END
 COM CONTINGENCY 'SER:REYNOLDS_345/115_OLD' / see New Projects: BESICORP ESNP
 COM TRIP BRANCH FROM BUS 137450 TO BUS 137454 CKT 1 / ALPS345 345 REYNLD3 345
 COM TRIP BRANCH FROM BUS 137454 TO BUS 137528 CKT 1 / T2 REYNLD3 345 REY. RD. 115
 COM END
 CONTINGENCY 'SER:HQ-NY 765' / SPS PA-11
 TRIP BRANCH FROM BUS 147827 TO BUS 147828 ckt 1 / MSU-1 MARCY765 765 MASS 765 765
 TRIP BRANCH FROM BUS 147828 TO BUS 180819 ckt 1 / MASS 765 765 CHATG-NY 765
 DISCONNECT BUS 156 / DUMMY BUS MARCY765 SW. SHUNT 200MVAR REAC #7223
 DISCONNECT BUS 158 / DUMMY BUS MASS 765 SW. SHUNT 200MVAR REAC #7222
 DISCONNECT BUS 157 / DUMMY BUS MASS 765 SW. SHUNT 200MVAR REAC #7122
 END
 CONTINGENCY 'SER:PV_LM_398'
 TRIP BRANCH FROM BUS 103105 TO BUS 103117 CKT 1 / LONG MTN 345 CTNY398 345
 TRIP BRANCH FROM BUS 103117 TO BUS 126294 CKT 1 / 398 CTNY398 345 PLTVLLEY 345
 END
 CONTINGENCY 'SER:42&26'
 DISCONNECT BUS 126465 / 42 FARRAGUT 345 GOWANUSS 345
 TRIP BRANCH FROM BUS 126285 TO BUS 126287 CKT 1 / 26 GOTHLS S 345 GOWANUSS 345
 END
 CONTINGENCY 'SER:41&25'
 DISCONNECT BUS 126464 / 41 FARRAGUT 345
 GOWANUSN 345
 TRIP BRANCH FROM BUS 126283 TO BUS 126286 CKT 1 / 25 GOTHLS N 345 GOWANUSN 345
 END
 CONTINGENCY 'SER:HC-SR_37&W-F_171'
 TRIP BRANCH FROM BUS 200769 TO BUS 135398 CKT 1 / 37 HOMER CY 345 STOLE345 345
 TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 / 171 WARREN 115 FALCONER 115
 END
 CONTINGENCY 'SER:HC-WC_30&W-F_171'
 TRIP BRANCH FROM BUS 200769 TO BUS 130757 CKT 1 / 30 HOMER CY 345 WATRC345 345
 TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 / 171 WARREN 115 FALCONER 115
 END
 CONTINGENCY 'SER:HNTLY_GRDNVL_79'
 TRIP BRANCH FROM BUS 135414 TO BUS 135306 CKT 1 / 79 HUNTLEY2 230 SAWYER79 230
 TRIP BRANCH FROM BUS 135306 TO BUS 135418 CKT 1 / 79 SAWYER79 230 SUNY-79 230
 TRIP BRANCH FROM BUS 135413 TO BUS 135418 CKT 1 / 79 GRDNVL2 230 SUNY-79 230
 END
 CONTINGENCY 'SER:HNTLY_GRDNVL_80'
 TRIP BRANCH FROM BUS 135414 TO BUS 135305 CKT 1 / 80 HUNTLEY2 230 SAWYER80 230
 TRIP BRANCH FROM BUS 135305 TO BUS 135419 CKT 1 / 80 SAWYER80 230 SUNY-80 230
 TRIP BRANCH FROM BUS 135413 TO BUS 135419 CKT 1 / 80 GRDNVL2 230 SUNY-80 230
 END
 CONTINGENCY 'SER:MEYER_HILLSD_68'
 DISCONNECT BUS 130761 / 68 MEYER230 230-AVOCA230 230-
 HILSD230 230
 END
 CONTINGENCY 'SER:C398/NWES'
 TRIP BRANCH FROM BUS 200675 TO BUS 409 CKT 1 / E.TWANDA 230 GROVER 230
 TRIP BRANCH FROM BUS 200675 TO BUS 130763 CKT 1 / E.TWANDA 230 HILSD230 230
 TRIP BRANCH FROM BUS 200675 TO BUS 381 CKT 1 / E.TWANDA 230 TOWANDA 115
 TRIP BRANCH FROM BUS 200676 TO BUS 130836 CKT 1 / E.SAYRE 115 N.WAV115 115
 END
 CONTINGENCY 'SER:ETHS/NWES'
 TRIP BRANCH FROM BUS 200675 TO BUS 130763 CKT 1 / E.TWANDA 230 HILSD230 230

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TRIP BRANCH FROM BUS 200676 TO BUS 130836 CKT 1 / E.SAYRE 115 N.WAV115 115
END
CONTINGENCY 'SER:HCWC/NWES'
TRIP BRANCH FROM BUS 200769 TO BUS 130757 CKT 1 / HOMER CY 345 WATRC345 345
TRIP BRANCH FROM BUS 200676 TO BUS 130836 CKT 1 / E.SAYRE 115 N.WAV115 115
END
CONTINGENCY 'SER:EESR/NWES'
TRIP BRANCH FROM BUS 200654 TO BUS 135251 CKT 1 / 69 ERIE E 230 S RIPLEY 230
TRIP BRANCH FROM BUS 200676 TO BUS 130836 CKT 1 / E.SAYRE 115 N.WAV115 115
END
CONTINGENCY 'SER:EESR/WRFL'
TRIP BRANCH FROM BUS 200654 TO BUS 135251 CKT 1 / 69 ERIE E 230 S RIPLEY 230
TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 / WARREN 115 FALCONER 115
END
CONTINGENCY 'SER:ESEE/WRFL' / MODIFIED FOR SUM07-7 FERC CASE
TRIP BRANCH FROM BUS 531 TO BUS 270 CKT 1 / ERIE SE 230 ERIE S 230
TRIP BRANCH FROM BUS 531 TO BUS 200654 CKT 1 / ERIE SE 230 ERIE E 230
TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 / WARREN 115 FALCONER 115
END
COM CONTINGENCY 'SER:DKSR/WRFL_OLD' / see New Projects: CHAUTAUQUA WIND 230
COM TRIP BRANCH FROM BUS 135250 TO BUS 135251 CKT 1 / 68 DUNKIRK 230 S RIPLEY 230
COM TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 / WARREN 115 FALCONER 115
COM END

COM CONTINGENCY 'SER:FRGT/WRFL' /see New Projects: CHAUTAUQUA WIND 230
COM TRIP BRANCH FROM BUS 200581 TO BUS 200588 CKT 1 / FOREST 230 GLADE
TP 230
COM TRIP BRANCH FROM BUS 200593 TO BUS 200588 CKT 1 / GLADE 230 GLADE
TP 230
COM TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 / WARREN 115 FALCONER 115
COM END
CONTINGENCY 'SER:EESR/WF/NWES'
TRIP BRANCH FROM BUS 200654 TO BUS 135251 CKT 1 / ERIE E 230 S RIPLEY 230
TRIP BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 / WARREN 115 FALCONER 115
TRIP BRANCH FROM BUS 200676 TO BUS 130836 CKT 1 / E.SAYRE 115 N.WAV115 115
END
com CONTINGENCY 'SER:MW1&WP1' / see New Projects: "WILLIS-PLATTS WIND PROJECTS"
com TRIP BRANCH FROM BUS 147840 TO BUS 147845 CKT 1 / MW1 MOSES W 230 WILLIS E 230
com TRIP BRANCH FROM BUS 147845 TO BUS 147843 CKT 1 / WP1 WILLIS E 230 PLAT T#1 230
com TRIP BRANCH FROM BUS 147843 TO BUS 147922 CKT 1 / T1 PLAT T#1 230 PLAT 115 115
com END
com CONTINGENCY 'SER:MW2&WP2' / see New Projects: "WILLIS-PLATTS WIND PROJECTS"
com TRIP BRANCH FROM BUS 147840 TO BUS 147846 CKT 1 / MW2 MOSES W 230 WILLIS W 230
com TRIP BRANCH FROM BUS 147846 TO BUS 147844 CKT 1 / WP2 WILLIS W 230 PLAT T#4 230
com TRIP BRANCH FROM BUS 147844 TO BUS 147922 CKT 1 / T4 PLAT T#4 230 PLAT 115 115
com END
COM *****
COM * BUS CONTINGENCIES *
COM *****
CONTINGENCY 'BUS:RTRDM 77 BUS' / L/O 75 MVAR SHUNT CAP #3
TRIP BRANCH FROM BUS 137730 TO BUS 137204 CKT 1 / 30 ROTRDM.2 230 PORTER 2 230
TRIP BRANCH FROM BUS 137730 TO BUS 137532 CKT 3 / T8 ROTRDM.2 230 ROTT 115 115
DISCONNECT BUS 114 / DUMMY BUS ROTTERDAM 77 SW. SHUNT CAP
END
CONTINGENCY 'BUS:RTRDM 99 BUS' / L/O 75 MVAR SHUNT CAP #4
TRIP BRANCH FROM BUS 137730 TO BUS 137210 CKT 2 / 31 ROTRDM.2 230 PORTER 2 230
TRIP BRANCH FROM BUS 137730 TO BUS 137532 CKT 2 / T7 ROTRDM.2 230 ROTT 115 115
TRIP BRANCH FROM BUS 137730 TO BUS 102385 CKT 1 / E205 ROTRDM.2 230 BEAR 230 230
DISCONNECT BUS 115 / DUMMY BUS ROTTERDAM 99 SW. SHUNT CAP
END
CONTINGENCY 'BUS:N.S._77'
DISCONNECT BUS 137452 / NEW SCOTLAND 77 BUS
END
CONTINGENCY 'BUS:N.S._99'
DISCONNECT BUS 137453 / NEW SCOTLAND 99 BUS
END
CONTINGENCY 'BUS:ALPS_345'
DISCONNECT BUS 137450 / ALPS BUS
END
CONTINGENCY 'BUS:WOODA_345'
DISCONNECT BUS 126305 / WOOD ST A

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END
CONTINGENCY 'BUS:WOODB_345'
DISCONNECT BUS 126306 / WOOD ST B
END
CONTINGENCY 'BUS:PLVILLW_345'
DISCONNECT BUS 126293 / PLEASANTVILLE WEST
END
CONTINGENCY 'BUS:PLVILLE_345'
DISCONNECT BUS 126292 / PLEASANTVILLE EAST
END
CONTINGENCY 'BUS:SHORE_RD_345'
DISCONNECT BUS 128835 / SHORE RD
DISCONNECT BUS 150 / DUMMY BUS DUNWOODIE SW. SHUNT 150MVAR REAC
END
CONTINGENCY 'BUS:EGC_345'
DISCONNECT BUS 126299 / REACTOR BUS
DISCONNECT BUS 147857 / DVNPT NK
DISCONNECT BUS 128830 / HMP HRBR
DISCONNECT BUS 128824 / EGC DUM
DISCONNECT BUS 128825 / EGC PAR
END
CONTINGENCY 'BUS:GOWANUS_N_345'
DISCONNECT BUS 126286 / GOWANUS N
END
CONTINGENCY 'BUS:GOWANUS_S_345'
DISCONNECT BUS 126287 / GOWANUS S
END
CONTINGENCY 'BUS:GOETHALS_N_345'
DISCONNECT BUS 126283 / GOETHALS N
END
CONTINGENCY 'BUS:GOETHALS_S_345'
DISCONNECT BUS 126285 / GOETHALS S
END
CONTINGENCY 'BUS:E13TH_45_345'
DISCONNECT BUS 126272 / E15 ST 45 345
END
CONTINGENCY 'BUS:E13TH_46_345'
DISCONNECT BUS 126273 / E15 ST 46 345
END
CONTINGENCY 'BUS:E13TH_47_345'
DISCONNECT BUS 126274 / E15 ST 47 345
DISCONNECT BUS 159 / ASTORIA SW. SHUNT 150MVAR REAC #61
END
CONTINGENCY 'BUS:E13TH_48_345'
DISCONNECT BUS 126275 / E15 ST 48 345
DISCONNECT BUS 160 / ASTORIA SW. SHUNT 150MVAR REAC #62
END
CONTINGENCY 'BUS:TREMONT_345'
DISCONNECT BUS 126466 / BUS PARK CHESTER
DISCONNECT BUS 126467 / BUS PARK CHESTER
DISCONNECT BUS 126462 / BUS TREMONT
DISCONNECT BUS 126463 / BUS TREMONT
DISCONNECT BUS 126301 / BUS TREMONT
END
CONTINGENCY 'BUS:WATERCURE_345'
DISCONNECT BUS 130757 / WATERCURE 345
END
CONTINGENCY 'BUS:WATERCURE_230'
DISCONNECT BUS 130768 / WATERCURE 230
END
COM
COM
COM
COM ***** /
COM * HVDC CONTINGENCIES * /
COM * * /
COM * HVDC IS TREATED IN DC CALCULATIONS AS LOAD * /
COM * * /
COM * THAT IS WHY REAL LOAD IS NOT PERMITTED AT * /
COM * DC TERMINALS * /
COM * * /

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COM * TO TRIP HVDC SET THE LOAD AT BOTH THE * /
COM * RECTIFIER AND INVERTER TO ZERO * /
COM ***** /
CONTINGENCY 'HQ SYNC DC ' /
SET BUS 100547 LOAD TO 0 MW DISPATCH / HIGHGATE 115 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98 / 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END /
SET BUS 190490 LOAD TO 0 MW DISPATCH / ERHQ D 230 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98 / 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END /
SET BUS 190497 LOAD TO 0 MW DISPATCH / ERHQ D 230 INVERTER

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BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98 / 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
/
SET BUS 190675 LOAD TO 0 MW DISPATCH / MADNBR47 345 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98 / 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
/
END
/
CONTINGENCY 'SYNC DC &OMS'
/
TRIP BRANCH FROM BUS 100509 TO BUS 100508 CKT 2 / INDUCTOR 115 SAND BAR 115
SET BUS 100547 LOAD TO 0 MW DISPATCH / HIGHGATE 115 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED

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BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98/ 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
/
SET BUS 190490 LOAD TO 0 MW DISPATCH / ERHQ D 230 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98/ 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
/
SET BUS 190497 LOAD TO 0 MW DISPATCH / ERHQ D 230 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA

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BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98/ 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
/
SET BUS 190675 LOAD TO 0 MW DISPATCH / MADNBR47 345 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98/ 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END
/
END
/
CONTINGENCY 'SANDY DC '
/
SET BUS 101786 LOAD TO 0 MW DISPATCH / SANDY345 345 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL

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BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98/ 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END /
END /
CONTINGENCY 'SANDY DC&OMS' /
TRIP BRANCH FROM BUS 100508 TO BUS 100509 CKT 2 / INDUCTOR 115 SAND BAR 115
SET BUS 101786 LOAD TO 0 MW DISPATCH / SANDY345 345 INVERTER
BUS 125190 0.34 / ROSE GN124.0 CENT HUD
BUS 147788 1.36 / POLETGT218 CON ED
BUS 129024 0.76 / NRTPTG1 22.0 LILCO
BUS 131462 0.50 / MILKN 1 13.8 NYSEG
BUS 136701 1.46 / 9M PT 1G23.0 NMPC
BUS 146840 0.30 / BOWLINE 20.0 O&R
BUS 147797 1.34 / JAFITZ1G24.0 NYPA
BUS 149140 0.19 / GINNA 1919.0 RGE
BUS 101251 1.05 / CANALG1 NEPOOL
BUS 101949 1.05 / SALEM G4 NEPOOL
BUS 102370 1.05 / BRAYTONG3 NEPOOL
BUS 100367 1.05 / WF WY #3 NEPOOL
BUS 190456 0.83 / LEPRG1 426.0 NEW_BRUN
BUS 35 2.67 / PEACH B113.0 PJM
BUS 372 0.79 / SHAWVIL322.0 PENELEC
BUS 1727 0.38 / PORTLND215.0 METED
BUS 2895 0.62 / OYSTR CK24.0 JCP&L
BUS 3151 1.68 / MARTN C418.0 PP&L
BUS 4113 0.92 / EDDYSTO313.0 PE
BUS 5059 1.03 / HUDSON 113.0 PSE&G
BUS 5901 0.78 / BRNDN SH13.0 BG&E
BUS 7105 1.16 / CHALK PT 230 PEPCO
BUS 8103 0.28 / BLE #3 20.0 AE
BUS 8883 0.58 / EDGE MO313.0 DP&L
BUS 256191 0.56 / 18LUD12G20.0 CONS
BUS 256192 0.56 / 18LUD34G20.0 CONS
BUS 256193 0.56 / 18LUD56G20.0 CONS
BUS 264869 0.98/ 19TC G8 15.5 DECO
BUS 264869 0.98 / 19TC G7 15.5 DECO
BUS 364002 69.07 / SYSTEM SWING BUS
BUS 180001 0.09 / BHNO2 2413.8 HQ
END /
END /
COM *****
COM * END HVDC *
COM *****
COM
CONTINGENCY Q24HM
TRIP BRANCH FROM BUS 157052 TO BUS 158103 CKT 1 / BECK2 DK 220 TO HANONJ24 220
TRIP BRANCH FROM BUS 158066 TO BUS 158103 CKT 1 / BEACH 220 TO HANONJ24 220
TRIP BRANCH FROM BUS 158103 TO BUS 158147 CKT 1 / HANONJ24 220 TO NEBOJQ24 220
END
CONTINGENCY Q29HM
TRIP BRANCH FROM BUS 157052 TO BUS 158105 CKT 1 / BECK2 DK 220 TO HANONJ29 220
TRIP BRANCH FROM BUS 158066 TO BUS 158105 CKT 1 / BEACH 220 TO HANONJ29 220

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TRIP BRANCH FROM BUS 158105 TO BUS 158148 CKT 1 / HANONJ29 220 TO NEBOJQ29 220
TRIP BRANCH FROM BUS 158148 TO BUS 158069 CKT 1 / NEBOJQ29 220 TO MIDDLEPT 220
END
CONTINGENCY 'Q23BM' / MODIFIED FOR SUM09 158102 new tap between Beck and Neale23?
TRIP BRANCH FROM BUS 158102 TO BUS 158122 CKT 1 / hanonj23 220 TO NEALEQ23 220
TRIP BRANCH FROM BUS 158102 TO BUS 157069 CKT 1 / hanonj23 220 TO BECK2 220
TRIP BRANCH FROM BUS 158143 TO BUS 158122 CKT 1 / BURL J23 220 TO NEALEQ23 220
TRIP BRANCH FROM BUS 158143 TO BUS 158067 CKT 1 / BURL J23 220 TO BURLINGT 220
TRIP BRANCH FROM BUS 158071 TO BUS 158122 CKT 1 / MIDL K2 220 TO NEALEQ23 220
END
CONTINGENCY 'Q25BM' / MODIFIED FOR SUM09 158102 new tap between Beck and Neale25?
TRIP BRANCH FROM BUS 158104 TO BUS 158123 CKT 1 / hanonj25 220 TO NEALEQ25 220
TRIP BRANCH FROM BUS 158104 TO BUS 157070 CKT 1 / hanonj25 220 TO BECK2 220
TRIP BRANCH FROM BUS 158144 TO BUS 158123 CKT 1 / BURL J25 220 TO NEALEQ25 220
TRIP BRANCH FROM BUS 158071 TO BUS 158123 CKT 1 / MIDL K2 220 TO NEALEQ25 220
TRIP BRANCH FROM BUS 158144 TO BUS 158067 CKT 1 / BURL J25 220 TO BURLINGT 220
END
CONTINGENCY 'W44LC' / MODIFIED FOR SUM07-5.SAV
TRIP BRANCH FROM BUS 160062 TO BUS 160074 CKT 1 / LONGWOOD 220 TO COWALW44 220
TRIP BRANCH FROM BUS 160134 TO BUS 160074 CKT 1 / BUCHJW44 220 TO COWALW44 220
TRIP BRANCH FROM BUS 160134 TO BUS 160054 CKT 1 / BUCHJW44 220 TO BUCHANAN 220
TRIP BRANCH FROM BUS 160055 TO BUS 160074 CKT 1 / CHATHAM 220 TO COWALW44 220
END
CONTINGENCY 'W45LC' / MODIFIED FOR SUM07-5.SAV
TRIP BRANCH FROM BUS 160062 TO BUS 160075 CKT 1 / LONGWOOD 220 TO COWALW45 220
TRIP BRANCH FROM BUS 160135 TO BUS 160075 CKT 1 / BUCHJW45 220 TO COWALW45 220
TRIP BRANCH FROM BUS 160135 TO BUS 160054 CKT 1 / BUCHJW45 220 TO BUCHANAN 220
TRIP BRANCH FROM BUS 160055 TO BUS 160075 CKT 1 / CHATHAM 220 TO COWALW45 220
END
CONTINGENCY 'L4D+G3'
TRIP BRANCH FROM BUS 160064 TO BUS 160050 TO BUS 160714 CKT T7 / LAMBTON 220 TO LAMB L4D
345
TRIP BRANCH FROM BUS 160069 TO BUS 160704 CKT T3 / LAMBTON 220 TO LAMBTNG324.0
REMOVE UNIT 1 FROM BUS 160704 / LAMBTNG324.0
END
CONTINGENCY 'L51D+G3'
TRIP BRANCH FROM BUS 160064 TO BUS 160050 TO BUS 160715 CKT T8 / LAMBTON 220 TO LAMB L51
345
TRIP BRANCH FROM BUS 160069 TO BUS 160704 CKT T3 / LAMBTON 220 TO LAMBTNG324.0
REMOVE UNIT 1 FROM BUS 160704 / LAMBTNG324.0
END
CONTINGENCY 'LAMBT7/LAMBGEN'
TRIP BRANCH FROM BUS 160064 TO BUS 160050 TO BUS 160714 CKT T7 /* LAMBTON 220 LAMB L4D
345
SET BUS 160705 GENERATION TO 0 MW /* LAMBTNG424.0
END
CONTINGENCY 'LAMBT8/LAMBGEN'
TRIP BRANCH FROM BUS 160064 TO BUS 160050 TO BUS 160715 CKT T8 /* LAMBTON 220 LAMB L51 345
SET BUS 160705 GENERATION TO 0 MW /* LAMBTNG424.0
END
COM
COM *****
COM * PJM *
COM *****
COM
CONTINGENCY 'ETHS/NWES/LLGD'
TRIP BRANCH FROM BUS 200675 TO BUS 130763 /* E.TWANDA 230 HILSD230 230
TRIP BRANCH FROM BUS 200676 TO BUS 130836 /* E.SAYRE 115 N.WAV115 115
TRIP BRANCH FROM BUS 200680 TO BUS 130807 /* LAUREL L 115 GOUDY115 115
END
CONTINGENCY 'ETHS/LLGD'
TRIP BRANCH FROM BUS 200675 TO BUS 130763 /* E.TWANDA 230 HILSD230 230
TRIP BRANCH FROM BUS 200680 TO BUS 130807 /* LAUREL L 115 GOUDY115 115
END
CONTINGENCY 'KEY-SHELOCTA/BLAIRSVL-SOCIAL'
TRIP BRANCH FROM BUS 521 TO BUS 505 /* KEYSTONE 230 SHELOCTA 230
TRIP BRANCH FROM BUS 473 TO BUS 235253 /* BLAIRSVL 138 01SOCIAL 138
END
CONTINGENCY 'LKWANA-OXBW' /* ADDED FOR SUM07-5 FERC CASE
TRIP BRANCH FROM BUS 3070 TO BUS 417 /* LKWANA 230 OXBOW 230
END

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CONTINGENCY 'GRV-TWADA' /* ADDED FOR SUM07-5 FERC CASE
  TRIP BRANCH FROM BUS 409 TO BUS 200675 /* GROVER 230 E.TWANDA 230
END
COM CONTINGENCY 'FO/GT/GL '
COM TRIP BRANCH FROM BUS 200581 TO BUS 200588 /* FOREST 230 GLADE TP 230
COM TRIP BRANCH FROM BUS 200588 TO BUS 200593 /* GLADE TP 230 GLADE 230
COM END
CONTINGENCY 'MULT01 '
  TRIP BRANCH FROM BUS 4 TO BUS 26 /* CNASTONE 500 HUNTERTN 500
  TRIP BRANCH FROM BUS 26 TO BUS 1152 /* HUNTERTN 500 HUNTRSTN 230
END
CONTINGENCY 'MULT02 '
  TRIP BRANCH FROM BUS 6 TO BUS 28 /* DEANS 500 WINDSOR 500
  TRIP BRANCH FROM BUS 6 TO BUS 4978 /* DEANS 500 DEANS 230
  TRIP BRANCH FROM BUS 28 TO BUS 2896 CKT 1 /* WINDSOR 500 E WINDSR 230
END
CONTINGENCY 'MULT03 '
  TRIP BRANCH FROM BUS 70 TO BUS 15 /* ELROY 500 WHITPAIN 500
  TRIP BRANCH FROM BUS 15 TO BUS 4601 CKT 3 /* WHITPAIN 500 WHITPAIN 230
END
CONTINGENCY 'MULT04 ' / MODIFIED FOR SUM07-7
  TRIP BRANCH FROM BUS 9 TO BUS 21 /* JUNIATA 500 SUNBURY 500
  TRIP BRANCH FROM BUS 21 TO BUS 3084 CKT 24 /* SUNBURY 500 SUNBURY 230
END
CONTINGENCY 'MULT05 '
  TRIP BRANCH FROM BUS 24 TO BUS 4602 CKT 1 /* LIMERICK 500 LIMERICK 230
  TRIP BRANCH FROM BUS 24 TO BUS 4602 CKT 2 /* LIMERICK 500 LIMERICK 230
END
CONTINGENCY 'MULT06 '
  TRIP BRANCH FROM BUS 15 TO BUS 4332 CKT 2 /* WHITPAIN 500 WHITPAIN 230
  TRIP BRANCH FROM BUS 15 TO BUS 24 /* WHITPAIN 500 LIMERICK 500
END
CONTINGENCY 'MULT07 '
  TRIP BRANCH FROM BUS 4338 TO BUS 4262 /* WHTMRSH6 230 PLYMTG 3 230
  TRIP BRANCH FROM BUS 4338 TO BUS 4263 /* WHTMRSH6 230 PULASKI 230
  TRIP BRANCH FROM BUS 4338 TO BUS 4333 /* WHTMRSH6 230 WHTMARSH69.0
END
CONTINGENCY 'MULT08 '
  TRIP BRANCH FROM BUS 4339 TO BUS 4601 /* WHTMSHTP 230 WHITPAIN 230
  TRIP BRANCH FROM BUS 4339 TO BUS 4149 /* WHTMSHTP 230 JENKNTWN 230
END
CONTINGENCY 'MULT09 '
  TRIP BRANCH FROM BUS 4954 TO BUS 5187 /* ATHENIA 230 ATHENIA1 230
  TRIP BRANCH FROM BUS 5187 TO BUS 4953 /* ATHENIA1 230 ATHENIA3 138
  TRIP BRANCH FROM BUS 4954 TO BUS 5041 /* ATHENIA 230 CLIFTN B 230
  TRIP BRANCH FROM BUS 5017 TO BUS 4974 /* ROSELAND 230 CDR GV B 230
END
CONTINGENCY 'MULT10 '
  TRIP BRANCH FROM BUS 4954 TO BUS 5187 /* ATHENIA 230 ATHENIA1 230
  TRIP BRANCH FROM BUS 5187 TO BUS 5042 /* ATHENIA1 230 CLIFTN K 230
  TRIP BRANCH FROM BUS 5017 TO BUS 4975 /* ROSELAND 230 CDR GV F 230
END
CONTINGENCY 'MULT11 '
  TRIP BRANCH FROM BUS 5 TO BUS 26 /* CONEM-GH 500 HUNTERTN 500
  TRIP BRANCH FROM BUS 26 TO BUS 1152 /* HUNTERTN 500 HUNTRSTN 230
END
CONTINGENCY 'LINE01 '
  TRIP BRANCH FROM BUS 270 TO BUS 269 /* ERIE SO 230 ERIE SO. 115
END
COM CONTINGENCY 'GOWAN N BUS' / EQUIVALENT 'BUS:GOWANUS_N_345'
COM TRIP BRANCH FROM BUS 126286 TO BUS 126277 CKT 1 / GOWANUSN345 FARRAGUT 345
COM TRIP BRANCH FROM BUS 126286 TO BUS 126283 CKT 1 / GOWANUSN345 GOTHLS N 345
COM TRIP BRANCH FROM BUS 126286 TO BUS 126427 CKT 1 / GOWANUSN345 GOWNUS1T 138
COM END
COM CONTINGENCY 'GOWAN S BUS' / EQUIVALENT 'BUS:GOWANUS_S_345'
COM TRIP BRANCH FROM BUS 126287 TO BUS 126277 CKT 1 / GOWANUSS345 FARRAGUT 345
COM TRIP BRANCH FROM BUS 126287 TO BUS 126285 CKT 1 / GOWANUSS345 GOTHLS S 345
COM TRIP BRANCH FROM BUS 126287 TO BUS 126429 CKT 1 / GOWANUSS345 GOWNUS2T 138
COM END
COM CONTINGENCY 'E13TH45 BUS' / EQUIVALENT 'BUS:E13TH_45_345'
COM TRIP BRANCH FROM BUS 126272 TO BUS 126277 CKT 1 / E15ST 45345 FARRAGUT 345

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COM TRIP BRANCH FROM BUS 126272 TO BUS 126304 CKT 1 / E15ST 45345 W 49 ST 345
COM TRIP BRANCH FROM BUS 126272 TO BUS 126384 CKT 15 / E15ST 45345 E13 ST 138
COM TRIP BRANCH FROM BUS 126272 TO BUS 126495 CKT 14 / E15ST 45345 T14MPT 138
COM END
COM CONTINGENCY 'E13TH46 BUS' / EQUIVALENT 'BUS:E13TH_46_345'
COM TRIP BRANCH FROM BUS 126273 TO BUS 126277 CKT 1 / E15ST 46345 FARRAGUT 345
COM TRIP BRANCH FROM BUS 126273 TO BUS 126304 CKT 1 / E15ST 46345 W 49 ST 345
COM TRIP BRANCH FROM BUS 126273 TO BUS 126384 CKT 12 / E15ST 46345 E13 ST 138
COM TRIP BRANCH FROM BUS 126273 TO BUS 126497 CKT 13 / E15ST 46345 T13MPT 138
COM END
COM CONTINGENCY 'E13TH47 BUS' / EQUIVALENT 'BUS:E13TH_47_345'
COM TRIP BRANCH FROM BUS 126274 TO BUS 126277 CKT 1 / E15ST 47345 FARRAGUT 345
COM TRIP BRANCH FROM BUS 126274 TO BUS 147829 CKT 1 / E15ST 47345 ASTOR345 345
COM TRIP BRANCH FROM BUS 126274 TO BUS 126384 CKT 16 / E15ST 47345 E13 ST 138
COM TRIP BRANCH FROM BUS 126274 TO BUS 126582 CKT 17 / E15ST 47345 E RIVER 69.0
COM END
COM CONTINGENCY 'E13TH48 BUS' / EQUIVALENT 'BUS:E13TH_48_345'
COM TRIP BRANCH FROM BUS 126275 TO BUS 126277 CKT 1 / E15ST 48345 FARRAGUT 345
COM TRIP BRANCH FROM BUS 126275 TO BUS 147829 CKT 1 / E15ST 48345 ASTOR345 345
COM TRIP BRANCH FROM BUS 126275 TO BUS 126384 CKT 10 / E15ST 48345 E13 ST 138
COM TRIP BRANCH FROM BUS 126275 TO BUS 126499 CKT 11 / E15ST 48345 T11MPT 138
COM END
COM ***** /
COM * Contingencies taken from NYISO Operations Contingency file * /
COM ***** /
COM *****
COM * SINGLE CONTINGENCIES (MCE LIST)-MARCH 2002 *
COM *****
COM 'SIN:10' EQUIVALENT 'SER:F30&W80'
COM 'SIN:20' EQUIVALENT 'SER:Y94&TA5'
CONTINGENCY 'SIN:30' / 30
TRIP BRANCH FROM BUS 146841 TO BUS 126260 CKT 1 / Bowline20- Bowline1
TRIP BRANCH FROM BUS 146750 TO BUS 126260 CKT 10 / W.Hav345 - Bowline1
TRIP BRANCH FROM BUS 146750 TO BUS 126290 CKT 1 / W.Hav345 - Ladentwn
END
COM 'SIN:40' EQUIVALENT 'E13TH45'
COM 'SIN:50' EQUIVALENT 'E13TH46'
COM 'SIN:60' EQUIVALENT 'SER:69&J'
COM 'SIN:80' EQUIVALENT 'OSWEG-LAFAY'

CONTINGENCY 'SIN:90' / 90
TRIP BRANCH FROM BUS 531 TO BUS 270 CKT 1 / Erie Se - Erie So 230
TRIP BRANCH FROM BUS 270 TO BUS 522 CKT 1 / Erie So - Warren 230
TRIP BRANCH FROM BUS 530 TO BUS 522 CKT 4 / Warren 115 - Warren 230
END
CONTINGENCY 'SIN:120' / 120
TRIP BRANCH FROM BUS 126263 TO BUS 126291 CKT 1 / Buchanan South - Millwood 345
TRIP BRANCH FROM BUS 126263 TO BUS 126291 CKT 2 / Buchanan South - Millwood 345
TRIP BRANCH FROM BUS 126290 TO BUS 126263 CKT 1 / Ladentown - Buchanan South 345
TRIP BRANCH FROM BUS 126263 TO BUS 147832 CKT 1 / Buchanan South-Indian Point 345
TRIP BRANCH FROM BUS 147798 TO BUS 147832 CKT 1 / Indian Point3 - I.Point 345
TRIP BRANCH FROM BUS 147798 TO BUS 147832 CKT 2 / Indian Point3 - I.Point 345
REMOVE UNIT 1 FROM BUS 147798 DISPATCH /
BUS 147788 0.90 / POLETGT218 NYISO
BUS 129025 0.50 / NORTHPORT NYISO
BUS 125190 0.50 / ROSETON NYISO
BUS 146840 0.50 / BOWLINE NYISO
BUS 136701 1.40 / NINE MILE 1 NYISO
BUS 147797 1.45 / JAFIPT NYISO
BUS 130873 0.25 / KINTIGH NYISO
BUS 131314 0.50 / GRENIDGE NYISO
BUS 156661 2.50 / DARLINGTON IMO
BUS 156862 2.50 / PICKERING IMO
BUS 39 2.00 / HOPE CREEK PJMISO
BUS 601 1.00 / HOMER CITY PJMISO
BUS 1735 0.70 / PORT 5CT PJMISO
BUS 2907 0.25 / KITTEN PJMISO
BUS 3148 0.25 / RR GENMARTIN PJMISO
BUS 3149 1.40 / MARTIN CREEK PJMISO
BUS 23412 0.80 / EDDY. PJMISO
BUS 5483 1.00 / LINDEN PJMISO

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BUS 5901 0.75 / BRANDNG PJMISO
 BUS 7115 1.00 / MORGTU PJMISO
 BUS 8101 0.25 / BLE #1 PJMISO
 BUS 27861 0.60 / IR10 PJMISO
 BUS 102370 1.10 / BRAYTONG3 NEISO
 BUS 101251 1.10 / CANALG1 NEISO
 BUS 101949 0.80 / SALEM G4 NEISO
 BUS 103556 0.50 / MIDDTN#3 NEISO
 BUS 103557 0.50 / MIDDTN#4 NEISO
 BUS 364003 75.0 / SWING BUS
 END
 END
 CONTINGENCY 'SIN:130' / 130
 TRIP BRANCH FROM BUS 126263 TO BUS 126291 CKT 1 / Buchanan South - Millwood 345
 TRIP BRANCH FROM BUS 126263 TO BUS 126291 CKT 2 / Buchanan South - Millwood 345
 TRIP BRANCH FROM BUS 126290 TO BUS 126263 CKT 1 / Ladentown - Buchana South 345
 TRIP BRANCH FROM BUS 126263 TO BUS 147832 CKT 1 / Buchanan South-Indian Point 345
 TRIP BRANCH FROM BUS 147798 TO BUS 147832 CKT 1 / Indian Point3 - I.Point 345
 TRIP BRANCH FROM BUS 147798 TO BUS 147832 CKT 2 / Indian Point3 - I.Point 345
 REMOVE UNIT 1 FROM BUS 147798 DISPATCH /
 BUS 147788 0.90 / POLETGT218 NYISO
 BUS 129025 0.50 / NORTHPORT NYISO
 BUS 125190 0.50 / ROSETON NYISO
 BUS 146840 0.50 / BOWLINE NYISO
 BUS 136701 1.40 / NINE MILE 1 NYISO
 BUS 147797 1.45 / JAFIPT NYISO
 BUS 130873 0.25 / KINTIGH NYISO
 BUS 131314 0.50 / GRENIDGE NYISO
 BUS 156661 2.50 / DARLINGTON IMO
 BUS 156862 2.50 / PICKERING IMO
 BUS 39 2.00 / HOPE CREEK PJMISO
 BUS 601 1.00 / HOMER CITY PJMISO
 BUS 1735 0.70 / PORT 5CT PJMISO
 BUS 2907 0.25 / KITTEN PJMISO
 BUS 3148 0.25 / RR GENMARTIN PJMISO
 BUS 3149 1.40 / MARTIN CREEK PJMISO
 BUS 23412 0.80 / EDDY. PJMISO
 BUS 5483 1.00 / LINDEN PJMISO
 BUS 5901 0.75 / BRANDNG PJMISO
 BUS 7115 1.00 / MORGTU PJMISO
 BUS 8101 0.25 / BLE #1 PJMISO
 BUS 27861 0.60 / IR10 PJMISO
 BUS 102370 1.10 / BRAYTONG3 NEISO
 BUS 101251 1.10 / CANALG1 NEISO
 BUS 101949 0.80 / SALEM G4 NEISO
 BUS 103556 0.50 / MIDDTN#3 NEISO
 BUS 103557 0.50 / MIDDTN#4 NEISO
 BUS 364003 75.0 / SWING BUS
 END
 END
 CONTINGENCY 'SIN:150' /150
 TRIP BRANCH FROM BUS 137200 TO BUS 137452 CKT 1 / EDIC-Porter - NS77
 TRIP BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / Inghams C - PAR2
 TRIP BRANCH FROM BUS 137235 TO BUS 147905 CKT 1 / Porter - Watkins Rd(Ilion) 115
 END
 CONTINGENCY 'SIN:160' /160
 TRIP BRANCH FROM BUS 137200 TO BUS 137452 CKT 1 / EDIC-Porter - NS77
 TRIP BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / Inghams C - PAR2 (R81 tie)
 TRIP BRANCH FROM BUS 137235 TO BUS 137246 CKT 1 / Porter - Valley
 END
 CONTINGENCY 'SIN:170' /170
 TRIP BRANCH FROM BUS 147833 TO BUS 137453 CKT 1 / Marcy - NS99
 TRIP BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / Inghams C - PAR2
 TRIP BRANCH FROM BUS 137235 TO BUS 137246 CKT 1 / Porter - Valley
 END
 CONTINGENCY 'SIN:180' /180
 TRIP BRANCH FROM BUS 147833 TO BUS 137453 CKT 1 / Marcy - NS99
 TRIP BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / Inghams C - PAR2
 TRIP BRANCH FROM BUS 137235 TO BUS 147905 CKT 1 / Porter - Watkins Rd (Ilion)
 END
 CONTINGENCY 'SIN:190' /190

TRIP BRANCH FROM BUS 100508 TO BUS 100509 CKT 1 / Sand Bar Bypass Brk
REMOVE UNIT 1 FROM BUS 369 DISPATCH /
BUS 147788 0.90 / POLETGT218 NYISO
BUS 129025 0.50 / NORTHPORT NYISO
BUS 125190 0.50 / ROSETON NYISO
BUS 146840 0.50 / BOWLINE NYISO
BUS 136701 1.40 / NINE MILE 1 NYISO
BUS 147797 1.45 / JAFIPT NYISO
BUS 130873 0.25 / KINTIGH NYISO
BUS 131314 0.50 / GRENIDGE NYISO
BUS 156661 2.50 / DARLINGTON IMO
BUS 156862 2.50 / PICKERING IMO
BUS 39 2.00 / HOPE CREEK PJMISO
BUS 601 1.00 / HOMER CITY PJMISO
BUS 1735 0.70 / PORT 5CT PJMISO
BUS 2907 0.25 / KITTEN PJMISO
BUS 3148 0.25 / RR GENMARTIN PJMISO
BUS 3149 1.40 / MARTIN CREEK PJMISO
BUS 23412 0.80 / EDDY. PJMISO
BUS 5483 1.00 / LINDEN PJMISO
BUS 5901 0.75 / BRANDNG PJMISO
BUS 7115 1.00 / MORGTU PJMISO
BUS 8101 0.25 / BLE #1 PJMISO
BUS 27861 0.60 / IR10 PJMISO
BUS 102370 1.10 / BRAYTONG3 NEISO
BUS 101251 1.10 / CANALG1 NEISO
BUS 101949 0.80 / SALEM G4 NEISO
BUS 103556 0.50 / MIDDTN#3 NEISO
BUS 103557 0.50 / MIDDTN#4 NEISO
BUS 364003 75.0 / SWING BUS
END
END
COM 'SIN:200' EQUIVALENT ETHS/NWES /200
CONTINGENCY 'SIN:210' /210
TRIP BRANCH FROM BUS 137235 TO BUS 147905 CKT 1 / Porter - Watkins Rd
TRIP BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / Inghams C - PAR2
END
CONTINGENCY 'SIN:220' /220
TRIP BRANCH FROM BUS 137235 TO BUS 137246 CKT 1 / Porter - Valley
TRIP BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / Inghams C - PAR2
END
CONTINGENCY 'SIN:230' / 230
TRIP BRANCH FROM BUS 126290 TO BUS 126263 CKT 1 / Ladentown - Buchanan South 345
TRIP BRANCH FROM BUS 126360 TO BUS 126262 CKT 1 / Buchanan North TA5
END
CONTINGENCY 'SIN:250' /250
TRIP BRANCH FROM BUS 100508 TO BUS 100509 CKT 2 / Sand Bar Bypass Brk
REMOVE UNIT 3 FROM BUS 103563 DISPATCH /
BUS 147788 0.90 / POLETGT218 NYISO
BUS 129025 0.50 / NORTHPORT NYISO
BUS 125190 0.50 / ROSETON NYISO
BUS 146840 0.50 / BOWLINE NYISO
BUS 136701 1.40 / NINE MILE 1 NYISO
BUS 147797 1.45 / JAFIPT NYISO
BUS 130873 0.25 / KINTIGH NYISO
BUS 131314 0.50 / GRENIDGE NYISO
BUS 156661 2.50 / DARLINGTON IMO
BUS 156862 2.50 / PICKERING IMO
BUS 39 2.00 / HOPE CREEK PJMISO
BUS 601 1.00 / HOMER CITY PJMISO
BUS 1735 0.70 / PORT 5CT PJMISO
BUS 2907 0.25 / KITTEN PJMISO
BUS 3148 0.25 / RR GENMARTIN PJMISO
BUS 3149 1.40 / MARTIN CREEK PJMISO
BUS 23412 0.80 / EDDY. PJMISO
BUS 5483 1.00 / LINDEN PJMISO
BUS 5901 0.75 / BRANDNG PJMISO
BUS 7115 1.00 / MORGTU PJMISO
BUS 8101 0.25 / BLE #1 PJMISO
BUS 27861 0.60 / IR10 PJMISO
BUS 102370 1.10 / BRAYTONG3 NEISO

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BUS 101251 1.10 / CANALG1 NEISO
BUS 101949 0.80 / SALEM G4 NEISO
BUS 103556 0.50 / MIDDTN#3 NEISO
BUS 103557 0.50 / MIDDTN#4 NEISO
BUS 364003 75.0 / SWING BUS
END
END
COM 'SIN:260' EQUIVALENT 'SER:W82&W65' from ny.con / 260
COM 'SIN:270' EQUIVALENT 'SER:W99&W64' / 270
CONTINGENCY 'SIN:280' / 280
TRIP BRANCH FROM BUS 126262 TO BUS 126267 CKT 1 / Buchanan North - East View1 345
TRIP BRANCH FROM BUS 126298 TO BUS 126267 CKT 1 / Sprainbrook - East View1 345
TRIP BRANCH FROM BUS 126378 TO BUS 126267 CKT 1 / BK2N
TRIP BRANCH FROM BUS 126360 TO BUS 126262 CKT 1 / TA5
END
COM 'SIN:290' EQUIVALENT 'SER:70&K' /290
COM 'SIN:300' EQUIVALENT 'SER:F38&Y86' /300
COM 'SIN:310' EQUIVALENT 'SER:F39&Y87' /310
CONTINGENCY 'SIN:340' /340
TRIP BRANCH FROM BUS 126385 TO BUS 126442 CKT 1 / E179St - HG 1
TRIP BRANCH FROM BUS 126442 TO BUS 126352 CKT 1 / HG 1 - ASTE-WRG
END
CONTINGENCY 'SIN:350' /350
TRIP BRANCH FROM BUS 126385 TO BUS 126445 CKT 1 / E179St - HG 4
TRIP BRANCH FROM BUS 126445 TO BUS 126334 CKT 1 / HG 4 - ASTE-ERG
END
CONTINGENCY 'SIN:360' /360
TRIP BRANCH FROM BUS 126321 TO BUS 4996 CKT 1 / Goethals - Linden (A2253)
TRIP BRANCH FROM BUS 126283 TO BUS 126282 CKT 1 / Gothls N - Frkills
TRIP BRANCH FROM BUS 126286 TO BUS 126283 CKT 1 / Gowanusn - Gothls N
END
COM 'SIN:370' EQUIVALENT 'GOWAN S BUS'
COM 'SIN:380' EQUIVALENT 'GOWAN N BUS'
CONTINGENCY 'SIN:430' /430 -modified for sum07 FERC case
TRIP BRANCH FROM BUS 125002 TO BUS 126281 CKT 1 / RFK305 Roseton - Fishkill
TRIP BRANCH FROM BUS 125046 TO BUS 125018 CKT 1 / Rock Tv1 - Sugarlf
com TRIP BRANCH FROM BUS 146777 TO BUS 146778 CKT 1 / Monroe1 - Sugarlf
END
CONTINGENCY 'SIN:440' /440 -modified for sum07 FERC case
TRIP BRANCH FROM BUS 125001 TO BUS 126297 CKT 1 / Rock Tav - Ramapo
TRIP BRANCH FROM BUS 125046 TO BUS 125018 CKT 1 / Rock Tv1 - Sugarlf
com TRIP BRANCH FROM BUS 146777 TO BUS 146778 CKT 1 / Monroe1 - Sugarlf
END
COM
COM *****
COM *
COM * *** NEW PROJECTS *** *
COM *
COM *****
COM *****
COM * BESICORP EMPIRE STATE NEWSPRINT (Q#69) *
COM *****
CONTINGENCY 'SER:REYNOLDS_345/115_BESICORP'
TRIP BRANCH FROM BUS 137450 TO BUS 137454 CKT 1 / ALPS345 345 REYNLD3 345
TRIP BRANCH FROM BUS 137454 TO BUS 137528 CKT 1 / T2 REYNLD3 345 REY. RD. 115
TRIP BRANCH FROM BUS 137454 TO BUS 137558 CKT 1 / REYNLD3 345 GBSH345 345
REMOVE UNIT 1 FROM BUS 137559 / GEN1
REMOVE UNIT 1 FROM BUS 137560 / GEN2
REMOVE UNIT 1 FROM BUS 137561 / GEN3
END
COM *****
COM * CROSS HUDSON (Q#93) *
COM *****
COM
COM Stuck breaker contingencies replaced for W.49th 345 7, 8 (OLD CONTINGENCIES BELOW)
COM =====
COM CONTINGENCY 'SB:W_49_345_7' /
COM TRIP BRANCH FROM BUS 126543 TO BUS 126304 CKT 1 / XFR W49 ST 1 138 W 49 ST 345
COM END
COM CONTINGENCY 'SB:W_49_345_8' /
COM TRIP BRANCH FROM BUS 126547 TO BUS 126304 CKT 1 / XFR W49 ST 5 138 W 49 ST 345

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COM END
COM
COM Contingencies below are for previous configuration of Cross Hudson
COM =====
COM *****
COM *   TRANSGAS 345 (TAP & GEN BUS) (Q#106) *
COM *****
COM *****
COM *   JORDANVILLE 230 (Q#186) *
COM *****
COM
COM                                     /
COM *****
COM *   STOLLE-MEYER-HILLSIDE WIND PROJECTS *
COM *****
COM =====
COM =   CANANDAIGUA 230 (Q#135) =   POI: 75% from Meyer on Meyer-Avoca
COM =====
COM =====
COM =   HIGH SHELDON 230 (Q#144) =   POI: 12 miles from Stolle (22.43% of Stolle-Meyer)
COM =====
COM =====
COM =   WETHERSFIELD 230 (Q#177) =   POI: 10 miles from High Sheldon towards Meyer
COM =====
COM =====
COM =   DAIRY HILLS 230 (Q#168) =   POI: 20.5 miles from Meyer, 21 miles from High Sheldon, 11
COM miles from Wethersfield
COM =====
COM *****
COM *
COM *                                     *   Marble River (Q#161 & Q#171), Clinton (Q#172 & Q#211),
COM Altona (Q#174)
COM *   WILLIS-PLATTS WIND PROJECTS *   Ellenburg (Q#175 & Q#213), Chateaugay (Q#214)
COM *****
COM *****
COM *   NYSEG ITHACA TRANSMISSION REINFORCEMENT (Q#225) *
COM *****
COM =====
COM =   LAFAYETTE 345 =
COM =====
COM =====
COM =   OAKDALE 345 =
COM =====
COM =====
COM =   LAPEER 345 =   New substation
COM =====
COM
COM END
COM END

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File NGrid-Mar312009.con

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COM *****
COM * Northern 115 kV Area *
COM *****

COM
COM *** Single Breaker ***
COM
CONTINGENCY 'Coffeen-Lyme Tap'
TRIP LINE FROM BUS 136763 TO BUS 136815 ckt 1 / Coffeen-Thousand Island #4
END
CONTINGENCY 'Lyme tap-Lyme'
TRIP LINE FROM BUS 136815 TO BUS 136816 ckt 1 / Coffeen-Thousand Island #4
END
CONTINGENCY 'Lyme Tap-Thousand Island'
TRIP LINE FROM BUS 136815 TO BUS 136808 ckt 1 / Coffeen-Thousand Island #4
END
CONTINGENCY 'Lyme Tap-Clayton'
TRIP LINE FROM BUS 136815 TO BUS 136817 ckt 1 / Coffeen-Thousand Island #4
END
CONTINGENCY 'Rockledge - Lyme'
TRIP LINE FROM BUS 136816 TO BUS 136825 ckt 1 / Coffeen-Thousand Island #4
END
CONTINGENCY 'Coffeen 2'
TRIP LINE FROM BUS 136763 TO BUS 136809 ckt 1 / Coffeen-West Adams #2
END
CONTINGENCY 'Coffeen 5'
TRIP LINE FROM BUS 136763 TO BUS 136768 ckt 1 / Coffeen-East Watertown #5
END
CONTINGENCY 'BLACK RV-CLIMAX'
TRIP LINE FROM BUS 136755 TO BUS 136762 ckt 1 / Black River-North Carthage #1
END
CONTINGENCY 'CLIMAX-N Carth'
TRIP LINE FROM BUS 136762 TO BUS 136788 ckt 1 / Black River-North Carthage #1
END
CONTINGENCY 'BLACK RV-WTRTWN'
TRIP LINE FROM BUS 136755 TO BUS 136768 ckt 1 / BLACK River-East Watertown #5
END
CONTINGENCY 'BLACK RV-FT. DRUM'
TRIP LINE FROM BUS 136755 TO BUS 136772 ckt 1 / BLACK River-Taylorville #2
END
CONTINGENCY 'FT. DRUM-Deferiet'
TRIP LINE FROM BUS 136772 TO BUS 136766 ckt 1 / BLACK River-Taylorville #2
END
CONTINGENCY 'Deferiet-Taylorville'
TRIP LINE FROM BUS 136766 TO BUS 136807 ckt 1 / BLACK River-Taylorville #2
END
CONTINGENCY 'BLACK RV-INDN RIV'
TRIP LINE FROM BUS 136755 TO BUS 136776 ckt 1 / BLACK River-Ft Drum #9
END
CONTINGENCY 'BLACK RV-NY AIR'
TRIP LINE FROM BUS 136755 TO BUS 136793 ckt 1 / Black River-Coffeen #3
END
CONTINGENCY 'NY AIR-GLEN PRK'
TRIP LINE FROM BUS 136793 TO BUS 136773 ckt 1 / Black River-Coffeen #3
END
CONTINGENCY 'GLEN PRK-Coffeen'
TRIP LINE FROM BUS 136773 TO BUS 136763 ckt 1 / Black River-Coffeen #3
END
CONTINGENCY 'Taylor-NCart'
TRIP LINE FROM BUS 136807 TO BUS 136788 ckt 1 / Taylorville-North Carthage #8
END
CONTINGENCY 'LightHouse 5'
TRIP LINE FROM BUS 136216 TO BUS 136768 ckt 1 / Lighthouse Hill-Black Rviver #5
END
CONTINGENCY 'Lighthouse 6'
TRIP LINE FROM BUS 136216 TO BUS 136755 ckt 1 / Lighthouse Hill-Black River #6
END
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CONTINGENCY 'Boonvl-Tug Hill'
TRIP LINE FROM BUS 137221 TO BUS 146731 ckt 1 / Boonville-Taylorville #5
END
CONTINGENCY 'Tug Hill-Lowville'
TRIP LINE FROM BUS 146731 TO BUS 136778 ckt 1 / Boonville-Taylorville #5
END
CONTINGENCY 'Lowville-Taylorvl'
TRIP LINE FROM BUS 136807 TO BUS 136778 ckt 1 / Boonville-Taylorville #5
END
CONTINGENCY 'Lyons Falls Tap'
TRIP LINE FROM BUS 137221 TO BUS 136761 ckt 1 / Boonville-Taylorville #6
END
CONTINGENCY 'Bremen-Lyons Falls Tap'
TRIP LINE FROM BUS 136761 TO BUS 136758 ckt 1 / Boonville-Taylorville #6
END
CONTINGENCY 'Taylorvl-Bremen'
TRIP LINE FROM BUS 136807 TO BUS 136758 ckt 1 / Boonville-Taylorville #6
END
CONTINGENCY 'Lyons dale'
TRIP LINE FROM BUS 136761 TO BUS 136848 ckt 1 / Boonville-Taylorville #6
END

COM ***** /
COM * Stuck Breaker * /
COM ***** /
CONTINGENCY 'Taylorville'
TRIP LINE FROM BUS 136807 TO BUS 136778 ckt 1 / Boonville-Taylorville #5
TRIP LINE FROM BUS 136807 TO BUS 136788 ckt 1 / Taylorville-North Carthage #8
TRIP LINE FROM BUS 136807 TO BUS 136759 ckt 1 / Taylorville-Browns Falls #3
TRIP LINE FROM BUS 136807 TO BUS 136759 ckt 2 / Taylorville-Browns Falls #4
TRIP LINE FROM BUS 136807 TO BUS 136766 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136807 TO BUS 136758 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136807 TO BUS 136786 ckt 1 / Taylorville-Sunday Creek #7
END
CONTINGENCY 'Black River'
TRIP LINE FROM BUS 136755 TO BUS 136762 ckt 1 / Black River-North Carthage #1
TRIP LINE FROM BUS 136755 TO BUS 136793 ckt 1 / Black River-Coffeen #3
TRIP LINE FROM BUS 136755 TO BUS 136776 ckt 1 / BLACK River-Ft Drum #9
TRIP LINE FROM BUS 136755 TO BUS 136768 ckt 1 / BLACK River-East Watertown #5
TRIP LINE FROM BUS 136755 TO BUS 136772 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136755 TO BUS 136216 ckt 1 / Lighthouse Hill-Black River #6
TRIP LINE FROM BUS 136755 TO BUS 136963 ckt 1 / BLACK River 115-23 kV transformer
END
COM ***** /
COM * LINE OUTAGE * /
COM ***** /
CONTINGENCY 'Coffeen-TI'
TRIP LINE FROM BUS 136763 TO BUS 136815 ckt 1 / Coffeen-Thousand Island #4
TRIP LINE FROM BUS 136815 TO BUS 136816 ckt 1 / Coffeen-Thousand Island #4
TRIP LINE FROM BUS 136815 TO BUS 136808 ckt 1 / Coffeen-Thousand Island #4
TRIP LINE FROM BUS 136815 TO BUS 136817 ckt 1 / Coffeen-Thousand Island #4
TRIP LINE FROM BUS 136816 TO BUS 136825 ckt 1 / Coffeen-Thousand Island #4
END
CONTINGENCY 'BLACK RV-N Cart'
TRIP LINE FROM BUS 136755 TO BUS 136762 ckt 1 / Black River-North Carthage #1
TRIP LINE FROM BUS 136762 TO BUS 136788 ckt 1 / Black River-North Carthage #1
END
COM *** Duplicate name, renamed
CONTINGENCY 'BLACK RV-WTRTWN_2'
TRIP BUS 136768 / BLACK River-East Watertown #5
END
CONTINGENCY 'BLACK RV-Taylorvl'
TRIP LINE FROM BUS 136755 TO BUS 136772 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136772 TO BUS 136766 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136766 TO BUS 136807 ckt 1 / BLACK River-Taylorville #2
END
CONTINGENCY 'BLACK RV-Coffeen'
TRIP LINE FROM BUS 136755 TO BUS 136793 ckt 1 / Black River-Coffeen #3
TRIP LINE FROM BUS 136793 TO BUS 136773 ckt 1 / Black River-Coffeen #3
TRIP LINE FROM BUS 136773 TO BUS 136763 ckt 1 / Black River-Coffeen #3
END

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COM *** Commented by ABB. Bus 146731 not found
COM CONTINGENCY 'Boon-Taylor'
COM TRIP LINE FROM BUS 137221 TO BUS 146731 ckt 1 / Boonville-Taylorville #5
COM TRIP LINE FROM BUS 146731 TO BUS 136778 ckt 1 / Boonville-Taylorville #5
COM TRIP LINE FROM BUS 136778 TO BUS 136807 ckt 1 / Boonville-Taylorville #5
COM END
CONTINGENCY 'Boon-Taylor'
TRIP LINE FROM BUS 137221 TO BUS 136761 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136761 TO BUS 136848 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136761 TO BUS 136758 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136758 TO BUS 136807 ckt 1 / Boonville-Taylorville #6
END

COM ***** /
COM * DOUBLE LINE OUTAGE * /
COM ***** /
CONTINGENCY '1+2'
TRIP LINE FROM BUS 136755 TO BUS 136762 ckt 1 / Black River-North Carthage #1
TRIP LINE FROM BUS 136762 TO BUS 136788 ckt 1 / Black River-North Carthage #1
TRIP LINE FROM BUS 136755 TO BUS 136772 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136772 TO BUS 136766 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136766 TO BUS 136807 ckt 1 / BLACK River-Taylorville #2
END
CONTINGENCY '2+8'
TRIP LINE FROM BUS 136807 TO BUS 136788 ckt 1 / Taylorville-North Carthage #8
TRIP LINE FROM BUS 136755 TO BUS 136772 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136772 TO BUS 136766 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136766 TO BUS 136807 ckt 1 / BLACK River-Taylorville #2
END
CONTINGENCY '5+6'
TRIP BUS 136768 / Lighthouse Hill-BLACK River #5
TRIP LINE FROM BUS 136216 TO BUS 136755 ckt 1 / Lighthouse Hill-Black River #6
END
COM *** Same name as previous, renamed
CONTINGENCY '5+6_2'
COM TRIP LINE FROM BUS 137221 TO BUS 146731 ckt 1 / Boonville-Taylorville #5
COM TRIP LINE FROM BUS 146731 TO BUS 136778 ckt 1 / Boonville-Taylorville #5
TRIP LINE FROM BUS 136778 TO BUS 136807 ckt 1 / Boonville-Taylorville #5
TRIP LINE FROM BUS 137221 TO BUS 136761 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136761 TO BUS 136848 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136761 TO BUS 136758 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136758 TO BUS 136807 ckt 1 / Boonville-Taylorville #6
END

COM ***** /
COM * BUS OUTAGE * /
COM ***** /
CONTINGENCY 'Coffeen'
TRIP LINE FROM BUS 136763 TO BUS 136815 ckt 1 / Coffeen-Thousand Island #4
TRIP LINE FROM BUS 136763 TO BUS 136768 ckt 1 / Coffeen-East Watertown #5
TRIP LINE FROM BUS 136763 TO BUS 136809 ckt 1 / Coffeen-West Adams #2
TRIP LINE FROM BUS 136763 TO BUS 136773 ckt 1 / Black River-Coffeen #3
END
CONTINGENCY 'Taylorville 1'
TRIP LINE FROM BUS 136807 TO BUS 136778 ckt 1 / Boonville-Taylorville #5
TRIP LINE FROM BUS 136807 TO BUS 136788 ckt 1 / Taylorville-North Carthage #8
TRIP LINE FROM BUS 136807 TO BUS 136759 ckt 1 / Taylorville-Browns Falls #3
END
CONTINGENCY 'Taylorville 2'
TRIP LINE FROM BUS 136807 TO BUS 136759 ckt 2 / Taylorville-Browns Falls #4
TRIP LINE FROM BUS 136807 TO BUS 136766 ckt 1 / BLACK River-Taylorville #2
TRIP LINE FROM BUS 136807 TO BUS 136758 ckt 1 / Boonville-Taylorville #6
TRIP LINE FROM BUS 136807 TO BUS 136786 ckt 1 / Taylorville-Sunday Creek #7
END
CONTINGENCY 'Black River 1'
TRIP LINE FROM BUS 136755 TO BUS 136762 ckt 1 / Black River-North Carthage #1
TRIP LINE FROM BUS 136755 TO BUS 136793 ckt 1 / Black River-Coffeen #3
TRIP LINE FROM BUS 136755 TO BUS 136776 ckt 1 / BLACK River-Ft Drum #9
END
CONTINGENCY 'Black River 2'

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TRIP LINE FROM BUS 136755 TO BUS 136768 ckt 1 / BLACK River-East Watertown #5
 TRIP LINE FROM BUS 136755 TO BUS 136772 ckt 1 / BLACK River-Taylorville #2
 TRIP LINE FROM BUS 136755 TO BUS 136216 ckt 1 / Lighthouse Hill-Black River #6
 END
 CONTINGENCY 'BrownsFalls 1'
 TRIP LINE FROM BUS 136759 TO BUS 136771 ckt 1 / Browns Falls-Colton #2
 TRIP LINE FROM BUS 136759 TO BUS 136790 ckt 1 / Browns Falls-Newton Falls #6
 TRIP LINE FROM BUS 136807 TO BUS 136759 ckt 1 / Taylorville-Browns Falls #3
 END
 CONTINGENCY 'BrownsFalls 2'
 TRIP LINE FROM BUS 136759 TO BUS 136775 ckt 1 / Browns Falls-Colton #1
 TRIP LINE FROM BUS 136807 TO BUS 136759 ckt 2 / Taylorville-Browns Falls #4
 END
 CONTINGENCY 'N Carthage'
 TRIP BUS 136788 / N Carthage
 END

COM *** Contingencies excluded previously
 CONTINGENCY '135263-135273-1'
 TRIP LINE FROM BUS 135263 TO BUS 135273 CKT 1
 END
 CONTINGENCY '135272-135289-1'
 TRIP LINE FROM BUS 135272 TO BUS 135289 CKT 1
 END
 CONTINGENCY '135281-135286-1'
 TRIP LINE FROM BUS 135281 TO BUS 135286 CKT 1
 END
 CONTINGENCY '135282-135296-1'
 TRIP LINE FROM BUS 135282 TO BUS 135296 CKT 1
 END
 CONTINGENCY '135300-135450-1'
 TRIP LINE FROM BUS 135300 TO BUS 135450 CKT 1
 END
 CONTINGENCY '135301-135450-1'
 TRIP LINE FROM BUS 135301 TO BUS 135450 CKT 1
 END
 CONTINGENCY '135302-147851-1'
 TRIP LINE FROM BUS 135302 TO BUS 147851 CKT 1
 END
 CONTINGENCY '135303-135307-1'
 TRIP LINE FROM BUS 135303 TO BUS 135307 CKT 1
 END
 CONTINGENCY '135304-135308-1'
 TRIP LINE FROM BUS 135304 TO BUS 135308 CKT 1
 END
 CONTINGENCY '135305-135309-1'
 TRIP LINE FROM BUS 135305 TO BUS 135309 CKT 1
 END
 CONTINGENCY '135357-135461-1'
 TRIP LINE FROM BUS 135357 TO BUS 135461 CKT 1
 END
 CONTINGENCY '135357-148007-1'
 TRIP LINE FROM BUS 135357 TO BUS 148007 CKT 1
 END
 CONTINGENCY '135410-135414-1'
 TRIP LINE FROM BUS 135410 TO BUS 135414 CKT 1
 END
 CONTINGENCY '135411-135416-1'
 TRIP LINE FROM BUS 135411 TO BUS 135416 CKT 1
 END
 CONTINGENCY '135412-135417-1'
 TRIP LINE FROM BUS 135412 TO BUS 135417 CKT 1
 END
 CONTINGENCY '135413-135416-1'
 TRIP LINE FROM BUS 135413 TO BUS 135416 CKT 1
 END
 CONTINGENCY '135413-135417-1'
 TRIP LINE FROM BUS 135413 TO BUS 135417 CKT 1
 END
 CONTINGENCY '135421-136544-1'
 TRIP LINE FROM BUS 135421 TO BUS 136544 CKT 1

END
CONTINGENCY '135461-135517-1'
TRIP LINE FROM BUS 135461 TO BUS 135517 CKT 1
END
CONTINGENCY '135461-148004-1'
TRIP LINE FROM BUS 135461 TO BUS 148004 CKT 1
END
CONTINGENCY '135466-135511-1'
TRIP LINE FROM BUS 135466 TO BUS 135511 CKT 1
END
CONTINGENCY '135509-135823-1'
TRIP LINE FROM BUS 135509 TO BUS 135823 CKT 1
END
CONTINGENCY '135509-148002-1'
TRIP LINE FROM BUS 135509 TO BUS 148002 CKT 1
END
CONTINGENCY '135511-148006-1'
TRIP LINE FROM BUS 135511 TO BUS 148006 CKT 1
END
CONTINGENCY '135517-148000-1'
TRIP LINE FROM BUS 135517 TO BUS 148000 CKT 1
END
CONTINGENCY '135849-135858-1'
TRIP LINE FROM BUS 135849 TO BUS 135858 CKT 1
END
CONTINGENCY '135849-135895-1'
TRIP LINE FROM BUS 135849 TO BUS 135895 CKT 1
END
CONTINGENCY '135854-135873-1'
TRIP LINE FROM BUS 135854 TO BUS 135873 CKT 1
END
CONTINGENCY '135857-135895-1'
TRIP LINE FROM BUS 135857 TO BUS 135895 CKT 1
END
CONTINGENCY '135874-135877-1'
TRIP LINE FROM BUS 135874 TO BUS 135877 CKT 1
END
CONTINGENCY '136159-136189-1'
TRIP LINE FROM BUS 136159 TO BUS 136189 CKT 1
END
CONTINGENCY '136166-136173-1'
TRIP LINE FROM BUS 136166 TO BUS 136173 CKT 1
END
CONTINGENCY '136200-136269-1'
TRIP LINE FROM BUS 136200 TO BUS 136269 CKT 1
END
CONTINGENCY '136200-136270-1'
TRIP LINE FROM BUS 136200 TO BUS 136270 CKT 1
END
CONTINGENCY '136238-136269-1'
TRIP LINE FROM BUS 136238 TO BUS 136269 CKT 1
END
CONTINGENCY '137211-137233-1'
TRIP LINE FROM BUS 137211 TO BUS 137233 CKT 1
END
CONTINGENCY '137501-137532-1'
TRIP LINE FROM BUS 137501 TO BUS 137532 CKT 1
END
CONTINGENCY '137515-137542-1'
TRIP LINE FROM BUS 137515 TO BUS 137542 CKT 1
END
CONTINGENCY '137867-137868-1'
TRIP LINE FROM BUS 137867 TO BUS 137868 CKT 1
END
CONTINGENCY '137880-137902-1'
TRIP LINE FROM BUS 137880 TO BUS 137902 CKT 1
END
CONTINGENCY '137902-137914-1'
TRIP LINE FROM BUS 137902 TO BUS 137914 CKT 1
END
CONTINGENCY '137911-137912-1'

TRIP LINE FROM BUS 137911 TO BUS 137912 CKT 1
END
CONTINGENCY '148000-148009-1'
TRIP LINE FROM BUS 148000 TO BUS 148009 CKT 1
END
CONTINGENCY '148002-148008-1'
TRIP LINE FROM BUS 148002 TO BUS 148008 CKT 1
END
CONTINGENCY '148006-148009-1'
TRIP LINE FROM BUS 148006 TO BUS 148009 CKT 1
END
CONTINGENCY '148007-148008-1'
TRIP LINE FROM BUS 148007 TO BUS 148008 CKT 1
END

END
END
END
END

C.4 Excluded Monitored Facilities and Contingencies

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COM *** List of excluded contingencies in ConED area
COM The following contingencies should be excluded as they take out one winding of 3-wnd
transformers
EXCLUDE CONTINGENCY BRANCH FROM BUS 126295 TO BUS 126558 CKT 1 /* RAINEY 345 2E DUM
138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126476 TO BUS 126558 CKT 1 /* RAINEY2E 138 2E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126478 TO BUS 126559 CKT 1 /* RAINEY7E 138 7E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126295 TO BUS 126559 CKT 1 /* RAINEY 345 7E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126295 TO BUS 126561 CKT 8 /* RAINEY 345 8E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126480 TO BUS 126561 CKT 1 /* RAINEY8E 138 8E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126295 TO BUS 126562 CKT 8 /* RAINEY 345 8W
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126481 TO BUS 126562 CKT 1 /* RAINEY8W 138 8W
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126295 TO BUS 126563 CKT 1 /* RAINEY 345 9E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126482 TO BUS 126563 CKT 1 /* RAINEY9E 138 9E
DUM 138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126336 TO BUS 126628 CKT 1 /* MH DUM 8 138 MHTX1
138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126336 TO BUS 126641 CKT 1 /* MH DUM 8 138 MOTT
HAVEN 345
EXCLUDE CONTINGENCY BRANCH FROM BUS 126337 TO BUS 126631 CKT 1 /* MH DUM 9 138 MHTX2
138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126337 TO BUS 126641 CKT 1 /* MH DUM 9 138 MOTT
HAVEN 345
EXCLUDE CONTINGENCY BRANCH FROM BUS 126338 TO BUS 126634 CKT 1 /* MH DUM 7 138 MHTX3
138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126338 TO BUS 126641 CKT 1 /* MH DUM 7 138 MOTT
HAVEN 345
EXCLUDE CONTINGENCY BRANCH FROM BUS 126339 TO BUS 126637 CKT 1 /* MH DUM 6 138 MHTX4
138
EXCLUDE CONTINGENCY BRANCH FROM BUS 126339 TO BUS 126641 CKT 1 /* MH DUM 6 138 MOTT
HAVEN 345
COM *** Above already excluded: no automatic N-1 contingencies in ConED area

COM *** List of excluded contingencies in National Grid area
COM Included again based on National Grid email
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135263 TO BUS 135273 CKT 1 /* BERRY RD 115 DUNKIRK1
115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135272 TO BUS 135289 CKT 1 /* DUGN-157 115
NILE115 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135281 TO BUS 135286 CKT 1 /* HARTFLD1 115 MOON-
162 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135282 TO BUS 135296 CKT 1 /* HOMERHIL 115 W.OL-
155 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135300 TO BUS 135450 CKT 1 /* BETH-149 115
GRDNVL1 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135301 TO BUS 135450 CKT 1 /* BETH-150 115
GRDNVL1 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135302 TO BUS 147851 CKT 1 /* GIBSONT6 115
NIAG115W 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135303 TO BUS 135307 CKT 1 /* SAWYER77 230
SAWYERB1 230
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135304 TO BUS 135308 CKT 1 /* SAWYER78 230
SAWYERB2 230
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135305 TO BUS 135309 CKT 1 /* SAWYER80 230
SAWYERB3 230
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135357 TO BUS 135461 CKT 1 /* PYRON187 115
PACK(S)W 115
COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135357 TO BUS 148007 CKT 1 /* PYRON187 115
GRTLK187 115

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COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135410 TO BUS 135414 CKT 1 /* ELM-70 230
 HUNTLEY2 230
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135411 TO BUS 135416 CKT 1 /* ELM-71 230
 SENCA-71 230
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135412 TO BUS 135417 CKT 1 /* ELM-72 230
 SENCA-72 230
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135413 TO BUS 135416 CKT 1 /* GRDNVL2 230
 SENCA-71 230
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135413 TO BUS 135417 CKT 1 /* GRDNVL2 230
 SENCA-72 230
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135421 TO BUS 136544 CKT 1 /* HARPR184 115 UDG-
 184 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135461 TO BUS 135517 CKT 1 /* PACK(S)W 115 PYRON188
 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135461 TO BUS 148004 CKT 1 /* PACK(S)W 115
 CARGR183 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135466 TO BUS 135511 CKT 1 /* S215-188 115
 NFWWP188 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135509 TO BUS 135823 CKT 1 /* NFWWP187 115 S215-
 187 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135509 TO BUS 148002 CKT 1 /* NFWWP187 115
 CARBW187 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135511 TO BUS 148006 CKT 1 /* NFWWP188 115
 CARBW188 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135517 TO BUS 148000 CKT 1 /* PYRON188 115
 GRTLK188 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135849 TO BUS 135858 CKT 1 /* E.GOLAH 115
 GOLAH115 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135849 TO BUS 135895 CKT 1 /* E.GOLAH 115
 BARILLA 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135854 TO BUS 135873 CKT 1 /* BRCKPths 115 SWDN-
 111 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135857 TO BUS 135895 CKT 1 /* GENFOOD 115
 BARILLA 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 135874 TO BUS 135877 CKT 1 /* SWDN-113 115
 UNIVRSTY 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 136159 TO BUS 136189 CKT 1 /* BRIDGE 7 115
 DEWITT 1 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 136166 TO BUS 136173 CKT 1 /* A/B_LY13 115
 ANHBS-13 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 136200 TO BUS 136269 CKT 1 /* GERES LK 115
 SOLVTAP2 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 136200 TO BUS 136270 CKT 1 /* GERES LK 115 CRUC
 TAP 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 136238 TO BUS 136269 CKT 1 /* SOLVAY-B 115
 SOLVTAP2 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137211 TO BUS 137233 CKT 1 /* TRNG STN 115
 ONEIDA 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137501 TO BUS 137532 CKT 1 /* FRONT ST 115
 RTRDM1 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137515 TO BUS 137542 CKT 1 /* MENANDS 115 ST
 CAMPS 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137867 TO BUS 137868 CKT 1 /* BROOK W 115
 BROOK1 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137880 TO BUS 137902 CKT 1 /* EJW+STWB 115
 SCOFIELD 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137902 TO BUS 137914 CKT 1 /* SCOFIELD 115
 WBURG115 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 137911 TO BUS 137912 CKT 1 /* VAIL TAP 115 VAIL
 115 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 148000 TO BUS 148009 CKT 1 /* GRTLK188 115
 HOOKS188 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 148002 TO BUS 148008 CKT 1 /* CARBW187 115
 HOOKS187 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 148006 TO BUS 148009 CKT 1 /* CARBW188 115
 HOOKS188 115
 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 148007 TO BUS 148008 CKT 1 /* GRTLK187 115
 HOOKS187 115

 COM EXCLUDE CONTINGENCY BRANCH FROM BUS 136197 TO BUS 149141 CKT 1 /* FRMGTN-4 115
 FRMNGT2 34.5: not HV

COM *** Excluded based on Email from NYPA on March 17, 2009
COM *** The tripping of Sprain Brook 345kV also needs tripping of other buses because they are the same line
COM *** This contingency needs to be defined separately
EXCLUDE CONTINGENCY BRANCH FROM BUS 126298 TO BUS 126299 CKT BY /* SPRAINBROOK345 REACBUS 345

COM *** NYPA: These contingencies requires the tripping of the Marcy-Massena 765 kV line, Massena - Chateauguay
COM *** 765KV line, the two Moses - Massena 230KV lines, the HVdc at Chateauguay, and all Beauharnois units
COM *** connected to the Chateauguay - Massena line through the 120KV network.
EXCLUDE CONTINGENCY BRANCH FROM BUS 147827 TO BUS 147828 CKT 1 /* MARCY765 765 MASS
765
EXCLUDE CONTINGENCY BRANCH FROM BUS 147828 TO BUS 180819 CKT 1 /* MASS 765 765 CHA-
NY 765
EXCLUDE CONTINGENCY NAME 'SER:HQ-NY 765'

COM *** Excluded based on Email from NYSEG on March 19, 2009
EXCLUDE CONTINGENCY BRANCH FROM BUS 130785 TO BUS 130793 CKT 1 /* CHURC 115 CRARY 115

COM *** Excluded based on Email from ConED on April 2, 2009
EXCLUDE CONTINGENCY BRANCH FROM BUS 126298 TO BUS 126847 CKT 1 /* SPRAIN BRK 345
ACADEMY 345
EXCLUDE CONTINGENCY NAME 'BUS:GOETHALS_S_345'
EXCLUDE CONTINGENCY NAME 'BUS:GOETHALS_N_345'

COM *** Incorrect contingencies: radial load network
EXCLUDE CONTINGENCY BRANCH FROM BUS 147849 TO BUS 147860 CKT 1 /* MOS 115 115 TR-
TAP1 115
EXCLUDE CONTINGENCY BRANCH FROM BUS 147849 TO BUS 147861 CKT 1 /* MOS 115 115 TR-
TAP2 115
EXCLUDE CONTINGENCY BRANCH FROM BUS 147860 TO BUS 147864 CKT 1 /* TR-TAP1 115 REYN
T#1 115
EXCLUDE CONTINGENCY BRANCH FROM BUS 147861 TO BUS 147865 CKT 1 /* TR-TAP2 115 REYN
T#2 115

COM *** The generation contingency definition should be modified
EXCLUDE CONTINGENCY NAME 'GEN:KINTIGH '
EXCLUDE CONTINGENCY BRANCH FROM BUS 126262 TO BUS 126288 CKT 1 /* BUCHANAN N 345 IP2
345
EXCLUDE CONTINGENCY BRANCH FROM BUS 126263 TO BUS 147832 CKT 1 /* BUCHANAN S 345 IP3
345
EXCLUDE CONTINGENCY NAME 'GEN:RAVNWD 3'

COM The following buses (mid-point dummy buses of 3-wnd xfms) should be excluded from voltage violations
EXCLUDE BUS 126558 /* 2E DUM
EXCLUDE BUS 126559 /* 7E DUM
COM EXCLUDE BUS 126560 /* 7W DUM DISCONNECTED
EXCLUDE BUS 126561 /* 8E DUM
EXCLUDE BUS 126562 /* 8W DUM
EXCLUDE BUS 126563 /* 9E DUM
EXCLUDE BUS 126336 /* MH DUM 8
EXCLUDE BUS 126337 /* MH DUM 9
EXCLUDE BUS 126338 /* MH DUM 7
EXCLUDE BUS 126339 /* MH DUM 6
EXCLUDE BUS 128824 /* EGC DUM

COM *** Dummy buses per ConED email on April 2, 2009
EXCLUDE BUS 126878 /* 37041
EXCLUDE BUS 126877 /* 37042
EXCLUDE BUS 126876 /* 37043
EXCLUDE BUS 126875 /* 37044
EXCLUDE BUS 126486 /* 38M14 TAP
EXCLUDE BUS 126571 /* 38M21 T
EXCLUDE BUS 126572 /* 38M22 T
EXCLUDE BUS 126573 /* 38M23 T
EXCLUDE BUS 126574 /* 38M24 T

EXCLUDE BUS 126725 /* ASTOR T3
 EXCLUDE BUS 126548 /* ASTOR T3 TAP
 EXCLUDE BUS 126727 /* ASTOR T4
 EXCLUDE BUS 126550 /* ASTOR T4 TAP
 EXCLUDE BUS 126355 /* BRNVL1&9
 EXCLUDE BUS 126356 /* BRNVL2&6
 EXCLUDE BUS 126357 /* BRNVL3&7
 EXCLUDE BUS 126358 /* BRNVL4&8
 EXCLUDE BUS 126760 /* CHERY-T2
 EXCLUDE BUS 126759 /* CHERY-T4
 EXCLUDE BUS 126345 /* E29-T1
 EXCLUDE BUS 126346 /* E29-T2
 EXCLUDE BUS 126347 /* E29-T3
 EXCLUDE BUS 126348 /* E29-T4
 EXCLUDE BUS 126575 /* E36-T1
 EXCLUDE BUS 126576 /* E36-T2
 EXCLUDE BUS 126577 /* E36-T3
 EXCLUDE BUS 126578 /* E36-T4
 EXCLUDE BUS 126391 /* E75 ST-2
 EXCLUDE BUS 126393 /* E75 ST-4
 EXCLUDE BUS 126535 /* EAST75 TAP 1
 EXCLUDE BUS 126408 /* FGT_X1
 EXCLUDE BUS 126410 /* FGT_X3
 EXCLUDE BUS 126411 /* FGT_X4
 EXCLUDE BUS 126412 /* FGT_X5
 EXCLUDE BUS 126413 /* FGT_X6
 EXCLUDE BUS 126414 /* FGT_X7
 EXCLUDE BUS 126406 /* FGT_Y1
 EXCLUDE BUS 126404 /* FGT_Y3
 EXCLUDE BUS 126405 /* FGT_Y4
 EXCLUDE BUS 126407 /* FGT_Y6
 EXCLUDE BUS 126620 /* GATE 1
 EXCLUDE BUS 126624 /* GATE 11
 EXCLUDE BUS 126621 /* GATE 2
 EXCLUDE BUS 126625 /* GATE 22
 EXCLUDE BUS 126623 /* GATE 4
 EXCLUDE BUS 126887 /* GATE 44
 EXCLUDE BUS 126284 /* GOTHLS R
 EXCLUDE BUS 126435 /* HUDSON
 EXCLUDE BUS 126638 /* PARK4
 EXCLUDE BUS 126400 /* PLYM_X2
 EXCLUDE BUS 126402 /* PLYM_X3
 EXCLUDE BUS 126403 /* PLYM_X4
 EXCLUDE BUS 126477 /* RAINEY3W
 EXCLUDE BUS 126479 /* RAINEY7W
 EXCLUDE BUS 126490 /* SEAPT T1&7
 EXCLUDE BUS 126570 /* T9 TAP
 EXCLUDE BUS 126505 /* TRADE TX 1
 EXCLUDE BUS 126867 /* TX10 T
 EXCLUDE BUS 126868 /* TX11 T
 EXCLUDE BUS 126873 /* TX12 T
 EXCLUDE BUS 126874 /* TX13 T
 EXCLUDE BUS 126872 /* TX14 T
 EXCLUDE BUS 126871 /* TX15 T
 EXCLUDE BUS 126869 /* TX16 T
 EXCLUDE BUS 126532 /* W110 1&6
 EXCLUDE BUS 126530 /* W110 3&8
 EXCLUDE BUS 126533 /* W110 4&10
 EXCLUDE BUS 126539 /* W42 T1&9
 EXCLUDE BUS 126598 /* W42 T8
 EXCLUDE BUS 126599 /* W42 TX9
 EXCLUDE BUS 126542 /* W42ST5&8
 EXCLUDE BUS 126545 /* W49 ST 3
 EXCLUDE BUS 126547 /* W49 ST 5
 EXCLUDE BUS 126553 /* W65ST1&6
 EXCLUDE BUS 126555 /* W65ST3&8
 EXCLUDE BUS 126449 /* WATER TX1
 EXCLUDE BUS 126450 /* WATER TX2
 EXCLUDE BUS 126514 /* WATER TX3
 EXCLUDE BUS 126376 /* YORK4
 COM *** List added on April 10, 2009

EXCLUDE BUS 126366 /* YORK1
 EXCLUDE BUS 126367 /* YORK2
 EXCLUDE BUS 126375 /* YORK3
 EXCLUDE BUS 126390 /* E75 ST-1
 EXCLUDE BUS 126392 /* E75 ST-3
 EXCLUDE BUS 126394 /* FGT_Y5
 EXCLUDE BUS 126395 /* FGT_Y7
 EXCLUDE BUS 126396 /* FGT_Y10
 EXCLUDE BUS 126397 /* FGT_Y8
 EXCLUDE BUS 126398 /* FGT_Y9P
 EXCLUDE BUS 126401 /* PLYM_X1
 EXCLUDE BUS 126409 /* FGT_X2P
 EXCLUDE BUS 126478 /* RAINEY7E
 EXCLUDE BUS 126484 /* SEAPT 5&9
 EXCLUDE BUS 126485 /* 38M12 TAP
 EXCLUDE BUS 126487 /* SEPRT 4&8
 EXCLUDE BUS 126488 /* 38M15 TAP
 EXCLUDE BUS 126489 /* SEAPT 2&6
 EXCLUDE BUS 126501 /* TRADE TX3
 EXCLUDE BUS 126502 /* TRADE TX2
 EXCLUDE BUS 126503 /* TRADE TX4
 EXCLUDE BUS 126504 /* 38M13 TAP
 EXCLUDE BUS 126531 /* W110 2&7
 EXCLUDE BUS 126536 /* EAST75 TAP 4
 EXCLUDE BUS 126537 /* EAST75 TAP 3
 EXCLUDE BUS 126538 /* W42 T2&10
 EXCLUDE BUS 126540 /* W42 T3&7
 EXCLUDE BUS 126541 /* W42 T4&6
 EXCLUDE BUS 126543 /* W49 ST 11
 EXCLUDE BUS 126544 /* W49 ST 2
 EXCLUDE BUS 126546 /* W49 ST 4
 EXCLUDE BUS 126549 /* ASTOR T1 TAP
 EXCLUDE BUS 126551 /* ASTOR T5 TAP
 EXCLUDE BUS 126552 /* ASTOR T2 TAP
 EXCLUDE BUS 126554 /* W65ST2&5
 EXCLUDE BUS 126556 /* W65ST4&7
 EXCLUDE BUS 126592 /* SEAPT T3&10
 EXCLUDE BUS 126596 /* W42 TX7
 EXCLUDE BUS 126597 /* W42 TX6
 EXCLUDE BUS 126611 /* ASTOR T2
 EXCLUDE BUS 126628 /* MHTX1
 EXCLUDE BUS 126629 /* PARK1
 EXCLUDE BUS 126630 /* MOTT TX2
 EXCLUDE BUS 126631 /* MHTX2
 EXCLUDE BUS 126632 /* PARK2
 EXCLUDE BUS 126633 /* MOTT TX1
 EXCLUDE BUS 126634 /* MHTX3
 EXCLUDE BUS 126635 /* PARK3
 EXCLUDE BUS 126636 /* MOTT TX3
 EXCLUDE BUS 126637 /* MHTX4
 EXCLUDE BUS 126639 /* MOTT TX4
 EXCLUDE BUS 126726 /* ASTOR T1
 EXCLUDE BUS 126728 /* ASTOR T5
 EXCLUDE BUS 126828 /* W50-TAP TX 5

COM *** ConED cables can be loaded over LTE but not STE, added on April 10, 2009 (not excluded)

COM EXCLUDE BRANCH FROM BUS 126295 TO BUS 126561 CKT 8 /* RAINEY 345 8E DUM
 138
 COM EXCLUDE BRANCH FROM BUS 126277 TO BUS 126295 CKT 3 /* FARRAGUT 345 RAINEY
 345
 COM EXCLUDE BRANCH FROM BUS 126277 TO BUS 126295 CKT 1 /* FARRAGUT 345 RAINEY
 345
 COM EXCLUDE BRANCH FROM BUS 126277 TO BUS 126295 CKT 3 /* FARRAGUT 345 RAINEY
 345
 COM EXCLUDE BRANCH FROM BUS 126277 TO BUS 126295 CKT 1 /* FARRAGUT 345 RAINEY
 345
 COM EXCLUDE BRANCH FROM BUS 126285 TO BUS 126287 CKT 1 /* GOTHLS S 345
 GOWANUSS 345
 COM EXCLUDE BRANCH FROM BUS 126283 TO BUS 126286 CKT 1 /* GOTHLS N 345
 GOWANUSN 345

COM EXCLUDE BRANCH FROM BUS 126295 TO BUS 126561 CKT 8 138	/* RAINEY 345	8E DUM
COM EXCLUDE BRANCH FROM BUS 126480 TO BUS 126506 CKT 1 E 138	/* RAINEY8E 138	VERNON-
COM EXCLUDE BRANCH FROM BUS 126480 TO BUS 126561 CKT 1 138	/* RAINEY8E 138	8E DUM
COM EXCLUDE BRANCH FROM BUS 126352 TO BUS 126415 CKT 2 N 138	/* ASTE-WRG 138	CORONA-
COM EXCLUDE BRANCH FROM BUS 126352 TO BUS 126415 CKT 4 N 138	/* ASTE-WRG 138	CORONA-
COM EXCLUDE BRANCH FROM BUS 126352 TO BUS 126415 CKT 6 N 138	/* ASTE-WRG 138	CORONA-
COM EXCLUDE BRANCH FROM BUS 126385 TO BUS 126483 CKT 2 138	/* E179 ST 138	S CREEK
COM EXCLUDE BRANCH FROM BUS 126385 TO BUS 126483 CKT 1 138	/* E179 ST 138	S CREEK
COM EXCLUDE BRANCH FROM BUS 126295 TO BUS 126561 CKT 8 138	/* RAINEY 345	8E DUM
COM EXCLUDE BRANCH FROM BUS 126480 TO BUS 126561 CKT 1 138	/* RAINEY8E 138	8E DUM
COM EXCLUDE BRANCH FROM BUS 126295 TO BUS 126561 CKT 8 138	/* RAINEY 345	8E DUM
COM EXCLUDE BRANCH FROM BUS 126480 TO BUS 126561 CKT 1 138	/* RAINEY8E 138	8E DUM
COM EXCLUDE BRANCH FROM BUS 126283 TO BUS 126286 CKT 1 GOWANUSN 345	/* GOTHLS N 345	
COM EXCLUDE BRANCH FROM BUS 126285 TO BUS 126287 CKT 1 GOWANUSS 345	/* GOTHLS S 345	
COM EXCLUDE BRANCH FROM BUS 126285 TO BUS 126287 CKT 1 GOWANUSS 345	/* GOTHLS S 345	
COM EXCLUDE BRANCH FROM BUS 126283 TO BUS 126286 CKT 1 GOWANUSN 345	/* GOTHLS N 345	

END

APPENDIX D – MUST OUTPUT FOR CROSS-STATE INTERFACES

Interface Details

Interface Details

```
PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, APR 29 2009 18:27 <IND000>X
2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
Case.File C:\Projects\NYISO\STARS\MUST TLTG\abb-v3.sav
Subsys.File C:\Projects\NYISO\STARS\MUST TLTG\STARS-TTL.sub
Monit.File C:\Projects\NYISO\STARS\MUST TLTG\STARS-TTL.mon
Contin.File C:\Projects\NYISO\STARS\MUST TLTG\STARS-TTL.con
Exclud.File C:\Projects\NYISO\STARS\MUST TLTG\STARS.exc
```

Study transfer not defined

***** Base Case Report *****

List of 17 interfaces of total 59

```
**** Interface ****          Limit      Limit
                               Import      Export  InitFlow
1 DYSINGER EAS                -4435.0   4435.0   1592.5
```

List of interface branches

**	From Bus	** **	To Bus	**	CKT	InitFlow	ResFlow
130754	KINTI345	345 149000	ROCH 345	345	1	524.7	
130767	STOLE230	230 130764	MEYER230	230	1	0.0	
130767	STOLE230	230 130770	SHLDN230	230	1	218.2	
135260	ANDOVER1	115 131344	PALMT115	115	1	0.0	
135452	LOCKPORT	115 135851	SHEL-113	115	1	80.1	
135452	LOCKPORT	115 135865	NAKR-108	115	1	51.4	
135452	LOCKPORT	115 135867	OAKFLDTP	115	1	56.8	
135452	LOCKPORT	115 135872	SOUR-111	115	1	75.1	
135452	LOCKPORT	115 135875	TELRDTP1	115	1	77.7	
135452	LOCKPORT	115 135876	TELRDTP1	115	1	86.2	
135954	BURT	34.5 136016	PHILIPSR	34.5	1	0.0	
147834	NIAG 345	345 149000	ROCH 345	345	1	422.3	

List of 17 interfaces of total 59

```
**** Interface ****          Limit      Limit
                               Import      Export  InitFlow
2 WEST-CENTRAL                -4657.7   4657.7   170.7
```

List of interface branches

Interface Details

**	From Bus	** **	To Bus	**	CKT	InitFlow	ResFlow
130767	STOLE230	230	130764 MEYER230	230	1	0.0	
130767	STOLE230	230	130770 SHLDN230	230	1	218.2	
149122	C708 LD	34.5	130926 WOLCOT34	34.5	1	-0.0	
149026	QUAKER	115	131242 MACDN115	115	1	35.5	
149004	S121 B#2	115	131243 SLEIG115	115	1	61.5	
149005	CLYDE199	115	131243 SLEIG115	115	1	-18.6	
149026	QUAKER	115	131243 SLEIG115	115	1	0.0	
135260	ANDOVER1	115	131344 PALMT115	115	1	0.0	
149010	STA 162	115	131345 S.PER115	115	1	-20.2	
135861	MORTIMER	115	135860 LAWLER-1	115	1	59.6	
135861	MORTIMER	115	136213 LAWLER-2	115	1	37.1	
149001	PANNELL3	345	136150 CLAY	345	1	-88.5	
149001	PANNELL3	345	136150 CLAY	345	2	-88.8	
149074	STA127	34.5	136167 HOOKRD	115	1	-27.8	
149005	CLYDE199	115	136183 CLTNCORN	115	1	-2.5	
149075	FARMNGTN	34.5	136194 FARMGTN1	115	1	-25.0	
149025	PANNELLI	115	136197 FRMGTN-4	115	1	101.0	
149141	FRMNGT2	34.5	136197 FRMGTN-4	115	1	-44.2	
149146	S168	12.0	136197 FRMGTN-4	115	1	-5.6	
149118	CLYDE 34	34.5	149005 CLYDE199	115	1	-21.1	

List of 17 interfaces of total 59

**** Interface ****	Limit Import	Limit Export	InitFlow
3 VOLNEY EAST	-7726.0	7726.0	3598.0

List of interface branches

**	From Bus	** **	To Bus	**	CKT	InitFlow	ResFlow
130755	OAKDL345	345	130753 FRASR345	345	1	577.5	
130838	OAKDL115	115	130794 DELHI115	115	1	42.2	
130863	WILET115	115	130796 E.NOR115	115	1	74.9	
130819	KATEL115	115	130817 JENN 115	115	1	71.5	
136150	CLAY	345	137200 EDIC	345	1	574.8	
136150	CLAY	345	137200 EDIC	345	2	576.6	
136156	VOLNEY	345	147833 MARCY T1	345	1	791.7	
136176	BRDGPOR	115	137234 PETRBORO	115	1	51.6	
136216	LTHSE HL	115	136755 BLACK RV	115	1	4.4	
136216	LTHSE HL	115	136768 E WTRTWN	115	1	9.0	
136244	TEALL	115	137233 ONEIDA	115	1	49.2	
136529	OMEGAWIR	34.5	137360 CAMDEN	34.5	1	-2.9	
147830	JA FITZP	345	137200 EDIC	345	1	775.2	
137219	W HILL_T	115	137233 ONEIDA	115	1	2.2	

Interface Details

List of 17 interfaces of total 59

**** Interface ***	Limit	Limit	InitFlow
	Import	Export	
4 MOSES SOUTH	-5430.7	5430.7	1373.5

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
	131777 JAY12	46.0	131791	NORTON46	46.0	1	-3.9	
	136750 ALCOA-NM	115	136760	BRADY	115	1	13.2	
	136751 ALLENS F	115	136764	COLTON	115	1	-43.6	
	136767 DENNISON	115	136752	ANDRWS-4	115	1	2.0	
	136767 DENNISON	115	136782	LWRNCE-B	115	1	7.5	
	136854 GILPIN B	46.0	136855	GILPINT	46.0	1	1.6	
	147828 MASS 765	765	147827	MARCY765	765	1	1176.4	
	147840 MOSES W	230	147835	ADRON B1	230	1	110.2	
	147840 MOSES W	230	147836	ADRON B2	230	1	110.2	

List of 17 interfaces of total 59

**** Interface ***	Limit	Limit	InitFlow
	Import	Export	
5 TOTAL EAST	-15258.1	15258.1	5748.7

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
	91 JEFFERSN	500	126250	RAMAPO 5	500	1	1001.1	
	4989 HUDSON1	345	126278	B3402 PAR1	345	1	332.9	
	4996 LINDEN	230	126321	GOETHALS	230	1	334.5	
	5028 WALDWICK	345	146752	SMAHWAH1	345	1	-453.9	
	5028 WALDWICK	345	146753	SMAHWAH2	345	1	-546.8	
	5039 HUDSON2	345	126279	C3403 PAR2	345	1	332.9	
	5473 LINVFT4	345	126265	COGNTECH	345	1	298.4	
	9803 HCOR138	138	146761	BURNS138	138	1	-105.3	
	9804 SMAH138	138	146769	RAMP138	138	1	-149.8	
	9804 SMAH138	138	146752	SMAHWAH1	345	1	-127.2	
	9808 HCOR69	69.0	146812	WNYA69	69.0	1	-29.8	
	9809 MONTVALE	69.0	146777	BLUHILL	69.0	1	5.9	
	9809 MONTVALE	69.0	146777	BLUHILL	69.0	2	5.9	
	9809 MONTVALE	69.0	146850	L491T	69.0	1	-56.3	
	9810 SMAH69	69.0	146790	HILB69	69.0	1	-78.6	
	9811 HCOR34	34.5	146826	PEARL34	34.5	1	9.1	

Interface Details

9814	CRESSKIL	69.0	146807	SPARKILL	69.0	1	-22.8
147852	PLAT T#3	115	100511	GRAND IS	115	1	114.6
130750	COOPC345	345	125001	ROCK TAV	345	2	743.2
128842	NEPTCONV	345	128847	NWBRG	345	1	666.2
130750	COOPC345	345	146754	MDTN TAP	345	1	874.1
130753	FRASR345	345	147831	GILB 345	345	1	217.4
130797	E.SPR115	115	137886	INGHAM-E	115	1	9.5
130862	W.WDB115	115	131560	W.WDBR69	69.0	1	0.0
137200	EDIC	345	137452	N.SCOT77	345	1	819.4
137204	JORDNVLL	230	137730	ROTRDM.2	230	1	256.0
137210	PORTER 2	230	137730	ROTRDM.2	230	1	0.0
137210	PORTER 2	230	137730	ROTRDM.2	230	2	262.2
137228	INGMS-CD	115	137886	INGHAM-E	115	1	119.9
147833	MARCY T1	345	137453	N.SCOT99	345	1	916.1

List of 17 interfaces of total 59

**** Interface ***	Limit	Limit	InitFlow
	Import	Export	
6 CENTRAL EAST	-4384.0	4384.0	2383.0

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
130797	E.SPR115	115	137886	INGHAM-E	115	1	9.5	
137200	EDIC	345	137452	N.SCOT77	345	1	819.4	
137204	JORDNVLL	230	137730	ROTRDM.2	230	1	256.0	
137210	PORTER 2	230	137730	ROTRDM.2	230	1	0.0	
137210	PORTER 2	230	137730	ROTRDM.2	230	2	262.2	
137228	INGMS-CD	115	137886	INGHAM-E	115	1	119.9	
147833	MARCY T1	345	137453	N.SCOT99	345	1	916.1	

List of 17 interfaces of total 59

**** Interface ***	Limit	Limit	InitFlow
	Import	Export	
7 UPNY-SENY OP	-8904.1	8904.1	5638.8

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
103117	CTNY398	345	126294	PLTVLLEY	345	1	308.3	
137451	LEEDS 3	345	125000	HURLEY 3	345	1	899.2	
130750	COOPC345	345	125001	ROCK TAV	345	2	743.2	
137507	BOC 2T	115	125040	N.CAT. 1	115	1	0.0	

Interface Details

137507	BOC 2T	115	125040	N.CAT. 1	115	2	102.3
137480	ADM	115	125043	PL.VAL 1	115	1	60.1
137489	BL STR E	115	125043	PL.VAL 1	115	1	62.7
137492	BLUES-8	115	125043	PL.VAL 1	115	1	66.9
137451	LEEDS 3	345	126294	PLTVLLEY	345	2	1281.0
137455	ATHENS	345	126294	PLTVLLEY	345	1	1241.0
130750	COOPC345	345	146754	MDTN TAP	345	1	874.1
130862	W.WDB115	115	131560	W.WDBR69	69.0	1	0.0

List of 17 interfaces of total 59

****	Interface	****	Limit	Limit	
			Import	Export	InitFlow
8	UPNY-CONED O		-13455.0	13455.0	5081.5

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
125002	ROSETON	345	126281	FISHKILL	345	1	1506.4	
125022	E FISH I	115	126281	FISHKILL	345	1	-72.2	
125026	FISHKILL	115	131112	SYLVN115	115	1	125.0	
126297	RAMAPO	345	126262	BUCHANAN N	345	1	258.6	
126290	LADENTWN	345	126263	BUCHANAN S	345	1	539.0	
126294	PLTVLLEY	345	126281	FISHKILL	345	1	399.6	
126294	PLTVLLEY	345	126281	FISHKILL	345	2	399.6	
126294	PLTVLLEY	345	126291	MILLWOOD	345	1	953.3	
126294	PLTVLLEY	345	126306	WOOD B	345	1	972.4	

List of 17 interfaces of total 59

****	Interface	****	Limit	Limit	
			Import	Export	InitFlow
11	DUN-SOUTH OP		-6256.0	6256.0	4857.5

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
126266	DUNWODIE	345	128835	SHORE RD	345	1	474.0	
126298	SPRBROOK	345	126301	TREMONT	345	1	400.9	
126298	SPRBROOK	345	126847	ACADEMY	345	1	401.5	
126299	REACBUS	345	147857	DVNPT NK	345	1	462.1	
126517	REACM51	345	126304	W 49 ST	345	1	706.5	
126518	REACM52	345	126304	W 49 ST	345	2	706.5	
126370	DUN NO1R	138	126483	S CREEK	138	1	99.6	
126371	DUN NO2R	138	126483	S CREEK	138	1	99.8	

Interface Details

126374	DUN S01R	138	126385	E179 ST	138	1	119.9
126600	REAC71	345	126641	MOTT HAVEN	345	3	695.8
126601	REAC72	345	126641	MOTT HAVEN	345	4	691.0

List of 17 interfaces of total 59

```
**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
12 I-TO-J      -4949.0     4949.0   3921.4
```

List of interface branches

**	From Bus	** **	To Bus	**	CKT	InitFlow	ResFlow
126298	SPRBROOK	345	126301 TREMONT	345	1	400.9	
126298	SPRBROOK	345	126847 ACADEMY	345	1	401.5	
126517	REACM51	345	126304 W 49 ST	345	1	706.5	
126518	REACM52	345	126304 W 49 ST	345	2	706.5	
126370	DUN N01R	138	126483 S CREEK	138	1	99.6	
126371	DUN N02R	138	126483 S CREEK	138	1	99.8	
126374	DUN S01R	138	126385 E179 ST	138	1	119.9	
126600	REAC71	345	126641 MOTT HAVEN	345	3	695.8	
126601	REAC72	345	126641 MOTT HAVEN	345	4	691.0	

List of 17 interfaces of total 59

```
**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
28 LIPA Import -2497.0     2497.0   1746.3
```

List of interface branches

**	From Bus	** **	To Bus	**	CKT	InitFlow	ResFlow
103166	NORHR138	138	129343 NRTHPT P	138	1	33.5	
103166	NORHR138	138	129343 NRTHPT P	138	2	33.5	
103166	NORHR138	138	129343 NRTHPT P	138	3	33.5	
126266	DUNWODIE	345	128835 SHORE RD	345	1	474.0	
126299	REACBUS	345	147857 DVNPT NK	345	1	462.1	
126455	JAMAICA	138	129235 V STRM P	138	1	-122.0	
126455	JAMAICA	138	129249 L SUCSPH	138	1	-163.9	
128842	NEPTCONV	345	128847 NWBRG	345	1	666.2	
128880	SHMHVDCL	192	129459 SHOREHAM	138	1	329.5	

Interface Details

List of 17 interfaces of total 59

```
**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
29 ConEd-LIPA   -1817.0    1817.0    650.2
```

List of interface branches

```
**      From Bus      ** **      To Bus      ** CKT  InitFlow  ResFlow
126266 DUNWODIE      345 128835 SHORE RD    345 1      474.0
126299 REACBUS       345 147857 DVNPT NK    345 1      462.1
126455 JAMAICA       138 129235 V STRM P    138 1     -122.0
126455 JAMAICA       138 129249 L SUCSPH    138 1     -163.9
```

List of 17 interfaces of total 59

```
**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
30 CE+Fras-gilb  -5812.0    5812.0    2600.4
```

List of interface branches

```
**      From Bus      ** **      To Bus      ** CKT  InitFlow  ResFlow
130753 FRASR345      345 147831 GILB 345    345 1      217.4
130797 E.SPR115      115 137886 INGHAM-E    115 1         9.5
137200 EDIC          345 137452 N.SCOT77    345 1      819.4
137204 JORDNVLL      230 137730 ROTRDM.2    230 1      256.0
137210 PORTER 2      230 137730 ROTRDM.2    230 1         0.0
137210 PORTER 2      230 137730 ROTRDM.2    230 2      262.2
137228 INGMS-CD      115 137886 INGHAM-E    115 1      119.9
147833 MARCY T1      345 137453 N.SCOT99    345 1      916.1
```

List of 17 interfaces of total 59

```
**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
31 CE-GROUP      -8830.0    8830.0    4217.7
```

List of interface branches

```
**      From Bus      ** **      To Bus      ** CKT  InitFlow  ResFlow
130750 COOPC345      345 125001 ROCK TAV    345 2      743.2
130750 COOPC345      345 146754 MDTN TAP    345 1      874.1
130753 FRASR345      345 147831 GILB 345    345 1      217.4
130797 E.SPR115      115 137886 INGHAM-E    115 1         9.5
137200 EDIC          345 137452 N.SCOT77    345 1      819.4
137204 JORDNVLL      230 137730 ROTRDM.2    230 1      256.0
137210 PORTER 2      230 137730 ROTRDM.2    230 1         0.0
```

Interface Details

137210	PORTER 2	230	137730	ROTRDM.2	230	2	262.2
137228	INGMS-CD	115	137886	INGHAM-E	115	1	119.9
147833	MARCY T1	345	137453	N.SCOT99	345	1	916.1

List of 17 interfaces of total 59

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
32 F-To-G      -4643.0     4643.0   3713.3
```

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
137451	LEEDS 3	345	125000	HURLEY 3	345	1	899.2	
137507	BOC 2T	115	125040	N.CAT. 1	115	1	0.0	
137507	BOC 2T	115	125040	N.CAT. 1	115	2	102.3	
137480	ADM	115	125043	PL.VAL 1	115	1	60.1	
137489	BL STR E	115	125043	PL.VAL 1	115	1	62.7	
137492	BLUES-8	115	125043	PL.VAL 1	115	1	66.9	
137451	LEEDS 3	345	126294	PLTVLLEY	345	2	1281.0	
137455	ATHENS	345	126294	PLTVLLEY	345	1	1241.0	

List of 17 interfaces of total 59

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
33 MLWD-SOUTH-C -15146.0    15146.0   7862.2
```

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
4989	HUDSON1	345	126278	B3402 PAR1	345	1	332.9	
4996	LINDEN	230	126321	GOETHALS	230	1	334.5	
5039	HUDSON2	345	126279	C3403 PAR2	345	1	332.9	
103166	NORHR138	138	129343	NRTHPT P	138	1	33.5	
126262	BUCHANAN N	345	126267	E VIEW 2N	345	1	1135.1	
126291	MILLWOOD	345	126268	E VIEW 1N	345	1	1124.7	
126291	MILLWOOD	345	126269	E VIEW 2S	345	1	1068.2	
126291	MILLWOOD	345	126270	E VIEW 1S	345	1	1068.2	
126281	FISHKILL	345	126292	PL VILLE	345	1	1070.3	
126305	WOOD A	345	126293	PL VILLW	345	1	1032.6	
128880	SHMHVDCL	192	129459	SHOREHAM	138	1	329.5	

Interface Details

List of 17 interfaces of total 59

**** Interface ****	Limit Import	Limit Export	InitFlow
41 I-to-K	-1307.0	1307.0	936.1

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
126266	DUNWODIE	345	128835	SHORE RD	345	1	474.0	
126299	REACBUS	345	147857	DVNPT NK	345	1	462.1	

Interface Details



DysingerEast

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, APR 08 2009 10:55
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, APR 08 2009 10:55
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From ONT_A_EXP To GHI_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 17446 violations

Interface-1 Interface 1 DYSINGER EAS Init.Flow= 1592.46 TDF= 0.7296

N	FCITC IntFcel L: Limiting constraint	C: Contingency description	Ncon	PreShift Flow	MW Rating	TDF	LODF	PTDF =Base Case Flow=	
								Init	Final
1	-172627.-124349.	L: Interface 21 PJM-WEST C:SIN:30	1665	5211.1	-0.0	0.03019	0.05196	5112.7	-3857.2
		Open 126260 BOWLINE1 345 146841 BOW1	20.0 1	NA					
		Open 126260 BOWLINE1 345 146750 WHAV345	345 10			-0.20891	0.10404	-470.6	-18430.8
		Open 126290 LADENTWN 345 146750 WHAV345	345 1			-0.00041	0.09565	-170.6	-16682.8
2	-156873.-112855.	L: Interface 21 PJM-WEST C:SER:C398/NWES	1605	5137.7	-0.0	0.03275	0.05196	5112.7	-3038.6
		Open 409 GROVER 230 200675 E.TWANDA	230 1			0.06509	0.00132	-15.6	-222.2
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.17346	-0.08167	117.6	12929.1
		Open 381 TOWANDA 115 200675 E.TWANDA	230 1			0.01304	-0.00663	-52.1	988.1
		Open 130836 N.WAV115 115 200676 E.SAYRE	115 1			0.14744	-0.03421	43.0	5408.9
3	-156680.-112714.	L: Interface 21 PJM-WEST C:SER:ETHS/NWES	1606	5139.3	-0.0	0.03280	0.05196	5112.7	-3028.6
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.17144	-0.08167	117.6	12913.3
		Open 130836 N.WAV115 115 200676 E.SAYRE	115 1			0.15082	-0.03421	43.0	5402.3
4	-139862.-100445.	L: Interface 21 PJM-WEST C:ETHS/LLGD	1649	5133.5	-0.0	0.03670	0.05196	5112.7	-2154.7
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.13801	-0.08167	117.6	11539.8
		Open 130807 GOUDY115 115 200680 LAUREL L	115 1			0.12187	-0.03270	38.0	4611.8

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5	-122784.-87986.3 L: Interface 21 PJM-WEST	5127.4	-0.0	0.04176	0.05196	5112.7	-1267.4
	C:130763 HILSD230 230 200675 E.TWANDA 230 1 1375						
	Open 130763 HILSD230 230 200675 E.TWANDA 230 1			0.12492	-0.08167	117.6	10145.2
6	-115579.-82729.4 L: Interface 21 PJM-WEST	5123.5	-0.0	0.04433	0.05196	5112.7	-892.9
	C:130763 HILSD230 230 130768 WATRC230 230 1 219						
	Open 130763 HILSD230 230 130768 WATRC230 230 1			-0.05811	0.13134	-186.1	-15366.6
7	-113455.-81179.6 L: Interface 21 PJM-WEST	5130.0	0.0	0.04522	0.05196	5112.7	-782.6
	C:BUS:WATERCURE_230 1633						
	Open 130768 WATRC230 230 130772 SHRED230 230 1			-0.02074	0.05517	71.0	-6188.6
	Open 130757 WATRC345 345 130768 WATRC230 230 1			0.07352	-0.07617	257.6	8899.4
	Open 130763 HILSD230 230 130768 WATRC230 230 1			-0.18949	0.00000	0.5	0.5
8	-110672.-79149.3 L: Interface 21 PJM-WEST	5043.3	-0.0	0.04557	0.05196	5112.7	-638.0
	C:MULT04 1656						
	Open 9 JUNIATA 500 21 SUNBURY 500 1			-0.13383	0.04684	524.7	-4659.2
	Open 21 SUNBURY 500 3084 SUNBURY 230 24			-0.00698	0.01757	-121.6	-2065.8
9	-109552.-78332.4 L: Interface 21 PJM-WEST	5130.0	-0.0	0.04683	0.05196	5112.7	-579.8
	C:130757 WATRC345 345 130768 WATRC230 230 1 213						
	Open 130757 WATRC345 345 130768 WATRC230 230 1			0.06740	-0.07617	257.6	8602.2
10	-106932.-76420.7*L: Interface 21 PJM-WEST	5182.8	-0.0	0.04847	0.05196	5112.7	-443.6
	C:SER:HC-SR_37&W-F_171 1600						
	Open 135398 SW345 345 200769 HOMER CY 345 1			-0.17837	0.01853	-378.4	-2359.9
	Open 135277 FALCONER 115 200579 WARREN 115 1			-0.07354	0.00255	-35.9	-308.6
1759	-67568.1-47702.4 L: Interface 20 PJM-CENT	3528.6	-0.0	0.05222	0.10960	3269.0	-4136.4
	C:126260 BOWLINE1 345 146750 WHAV345 345 10 79						
	Open 126260 BOWLINE1 345 146750 WHAV345 345 10			-0.55149	0.10404	-470.6	-7500.4
1764	-53231.4-37243.0 L: Interface 20 PJM-CENT	3469.8	0.0	0.06518	0.10960	3269.0	-2565.1
	C:SIN:30 1665						
	Open 126260 BOWLINE1 345 146841 BOW1 20.0 1 NA						
	Open 126260 BOWLINE1 345 146750 WHAV345 345 10			-0.42624	0.10404	-470.6	-6008.9
	Open 126290 LADENTWN 345 146750 WHAV345 345 1			-0.00074	0.09565	-170.6	-5262.3
1765	-49690.8-34659.9 L: Interface 20 PJM-CENT	3229.5	0.0	0.06499	0.10960	3269.0	-2177.0
	C:LKWANA-OXBW 1651						
	Open 417 OXBOW 230 3070 LACKAWNA 230 1			0.33047	-0.13498	-119.7	6587.7
1766	-47754.2-33247.1 L: Interface 20 PJM-CENT	3322.8	0.0	0.06958	0.10960	3269.0	-1964.8
	C:ETHS/NWES/LLGD 1648						
	Open 130763 HILSD230 230 200675 E.TWANDA 230 1			0.28248	-0.08167	117.6	4017.6
	Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			0.25885	-0.03421	43.0	1676.4
	Open 130807 GOUDY115 115 200680 LAUREL L 115 1			0.24753	-0.03270	38.0	1599.6
1767	-40021.9-27605.9 L: Interface 20 PJM-CENT	3304.2	-0.0	0.08256	0.10960	3269.0	-1117.3
	C:SER:C398/NWES 1605						
	Open 409 GROVER 230 200675 E.TWANDA 230 1			0.09834	0.00132	-15.6	-68.3
	Open 130763 HILSD230 230 200675 E.TWANDA 230 1			0.24445	-0.08167	117.6	3386.1
	Open 381 TOWANDA 115 200675 E.TWANDA 230 1			0.01930	-0.00663	-52.1	213.2
	Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			0.20696	-0.03421	43.0	1412.0
1768	-40014.9-27600.8 L: Interface 20 PJM-CENT	3306.6	-0.0	0.08263	0.10960	3269.0	-1116.6
	C:SER:ETHS/NWES 1606						
	Open 130763 HILSD230 230 200675 E.TWANDA 230 1			0.24142	-0.08167	117.6	3385.5
	Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			0.21196	-0.03421	43.0	1411.7

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1769	-37409.4-25699.9	L: Interface	20	PJM-CENT					3298.4	0.0	0.08817		0.10960	3269.0	-831.0
		C:ETHS/LLGD						1649							
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.19432	-0.08167	117.6	3172.8
		Open	130807	GOUDY115	115	200680	LAUREL L	115	1			0.17004	-0.03270	38.0	1261.3
1770	-36188.5-24809.2	L: Interface	20	PJM-CENT					3966.3	0.0	0.10960		0.10960	3269.0	-697.2
		C:GEN:PEACHBTM						1568							
		Remove unit	1	from bus	34	PCHBTM 2	22.0	1060.3	MW	dispatch					
1771	-35717.3-24465.4	L: Interface	20	PJM-CENT					3914.6	-0.0	0.10960		0.10960	3269.0	-645.6
		C:GEN:SALEM						1567							
		Remove unit	1	from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch					
1772	-34560.3-23621.3	*L: Interface	20	PJM-CENT					3787.8	-0.0	0.10960		0.10960	3269.0	-518.7
		C:SIN:250						1677							
		Open	100508	SANDB115	115	100509	SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1
		Remove unit	3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
3528	-3368.2 -864.8	L: Interface	26	ONTARIO-MICH					761.4	-0.0	0.22607		0.24510	736.0	-89.6
		C:ETHS/NWES/LLGD						1648							
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.12812	-0.08167	117.6	392.7
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.13049	-0.03421	43.0	158.2
		Open	130807	GOUDY115	115	200680	LAUREL L	115	1			0.12559	-0.03270	38.0	148.1
3529	-3236.9 -769.1	L: Interface	26	ONTARIO-MICH					753.2	-0.0	0.23269		0.24510	736.0	-57.4
		C:SER:ETHS/NWES						1606							
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.10729	-0.08167	117.6	382.0
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.10670	-0.03421	43.0	153.7
3530	-3236.5 -768.8	L: Interface	26	ONTARIO-MICH					753.1	0.0	0.23268		0.24510	736.0	-57.3
		C:SER:C398/NWES						1605							
		Open	409	GROVER	230	200675	E.TWANDA	230	1			0.00017	0.00132	-15.6	-19.8
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.10753	-0.08167	117.6	382.0
		Open	381	TOWANDA	115	200675	E.TWANDA	230	1			0.00253	-0.00663	-52.1	-30.7
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.10604	-0.03421	43.0	153.7
3531	-3181.8 -728.9	L: Interface	26	ONTARIO-MICH					749.1	0.0	0.23544		0.24510	736.0	-43.9
		C:ETHS/LLGD						1649							
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.08368	-0.08167	117.6	377.5
		Open	130807	GOUDY115	115	200680	LAUREL L	115	1			0.08652	-0.03270	38.0	142.0
3532	-3175.5 -724.2	L: Interface	26	ONTARIO-MICH					762.5	-0.0	0.24012		0.24510	736.0	-42.3
		C:W44LC						1642							
		Open	160062	LONGWOOD	220	160074	COWALJ44	220	1			-0.16056	0.02681	189.2	104.1
		Open	160074	COWALJ44	220	160134	BUCHJW44	220	1			0.16303	-0.00416	334.4	347.6
		Open	160054	BUCHANAN	220	160134	BUCHJW44	220	1			-0.00035	0.00416	-256.1	-269.4
		Open	160055	CHATHAM	220	160074	COWALJ44	220	1			0.71981	0.00000	3.1	3.1
3533	-3175.2 -724.1	L: Interface	26	ONTARIO-MICH					762.5	-0.0	0.24013		0.24510	736.0	-42.3
		C:W45LC						1643							
		Open	160062	LONGWOOD	220	160075	COWALJ45	220	1			-0.16050	0.02679	189.2	104.2
		Open	160075	COWALJ45	220	160135	BUCHJW45	220	1			0.16297	-0.00415	334.3	347.5
		Open	160054	BUCHANAN	220	160135	BUCHJW45	220	1			-0.00035	0.00415	-262.5	-275.6
		Open	160055	CHATHAM	220	160075	COWALJ45	220	1			0.71977	0.00000	3.1	3.1
3534	-3155.6 -709.8	L: Interface	26	ONTARIO-MICH					771.6	0.0	0.24451		0.24510	736.0	-37.5
		C:131128 LAPEER			345	136153	LAFAYTTE	345	1	392					
		Open	131128	LAPEER	345	136153	LAFAYTTE	345	1			-0.05454	0.01087	-652.6	-686.8

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3535	-3152.0	-707.1	L: Interface	26	ONTARIO-MICH			721.7	-0.0	0.22896	0.24510	736.0	-36.6				
			C:LKWANA-OXBW				1651										
			Open	417	OXBOW	230	3070 LACKAWNA	230	1		0.11958	-0.13498	-119.7	305.7			
3536	-3138.9	-697.6	L: Interface	26	ONTARIO-MICH			770.8	0.0	0.24557	0.24510	736.0	-33.4				
			C:130755 OAKDL345			345	131128 LAPEER	345	1	209							
			Open	130755	OAKDL345	345	131128 LAPEER	345	1		-0.06047	-0.00765	-575.7	-551.7			
3537	-3119.8	-683.6	*L: Interface	26	ONTARIO-MICH			749.2	0.0	0.24016	0.24510	736.0	-28.7				
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL				1650										
			Open	505	SHELOCTA	230	521 KEYSTONE	230	1		0.08784	-0.04629	50.1	194.5			
			Open	473	BLAIRSVL	138	235253 01SOCIAL	138	1		0.08830	-0.00992	100.2	131.2			
5297	-1384.8	582.2	L: Interface	39	ZoneD-ONT			-47.0	0.0	-0.03393	0.00000	0.5	0.5				
			C:147834 NIAG	345		345	149000 ROCH	345	1	1226							
			Open	147834	NIAG	345	345 149000 ROCH	345	1		-0.11250	0.30157	422.3	4.7			
5298	-1384.8	582.2	L: Interface	40	ONT-ZoneD			47.0	-0.0	0.03393	0.00000	-0.5	-0.5				
			C:147834 NIAG	345		345	149000 ROCH	345	1	1226							
			Open	147834	NIAG	345	345 149000 ROCH	345	1		0.11250	0.30157	422.3	4.7			
5299	-403.8	1297.8	L: 126294 PLTVLLEY			345	137451 LEEDS	3	345	2							
			C:126294 PLTVLLEY			345	137455 ATHENS	345	1	121							
			Open	126294	PLTVLLEY	345	137455 ATHENS	345	1		0.44128	-0.17209	-1241.0	-1171.5			
5300	-263.3	1400.4	L: 126294 PLTVLLEY			345	137455 ATHENS	345	1								
			C:126294 PLTVLLEY			345	137451 LEEDS	3	345	2	120						
			Open	126294	PLTVLLEY	345	137451 LEEDS	3	345	2		0.42910	-0.18083	-1281.0	-1233.4		
5301	276.3	1794.0	L: 126294 PLTVLLEY			345	137451 LEEDS	3	345	2							
			Base Case														
5302	396.4	1881.7	L: Interface	14	Leeds-PV			2522.1	2662.0	0.35292							
			Base Case														
5303	522.7	1973.8	L: 126294 PLTVLLEY			345	137455 ATHENS	345	1								
			Base Case														
5304	549.3	1993.2	L: 146758 CHESTER			138	146771 SHOEM138	138	1								
			C:125001 ROCK TAV			345	126297 RAMAPO	345	1	7							
			Open	125001	ROCK TAV	345	126297 RAMAPO	345	1		-0.11202	0.22543	1114.8	1238.6			
5305	549.3	1993.2	L: 146758 CHESTER			138	146771 SHOEM138	138	1								
			C:SIN:440							1683							
			Open	125001	ROCK TAV	345	126297 RAMAPO	345	1		-0.11202	0.22543	1114.8	1238.6			
5306	637.8	2057.8	L: 126294 PLTVLLEY			345	137451 LEEDS	3	345	2							
			C:125000 HURLEY	3		345	137451 LEEDS	3	345	1	3						
			Open	125000	HURLEY	3	345 137451 LEEDS	3	345	1		0.32992	-0.15187	-899.2	-996.0		
5307	774.2	2157.3	L: Interface	14	Leeds-PV			3101.0	3450.0	0.45071	0.35292	2522.1	2795.3				
			C:125000 HURLEY	3		345	137451 LEEDS	3	345	1	3						
			Open	125000	HURLEY	3	345 137451 LEEDS	3	345	1		-0.64389	-0.15187	-899.2	-1016.8		
5308	888.5	2240.7	L: 126294 PLTVLLEY			345	137451 LEEDS	3	345	2							
			C:SIN:430							1682							
			Open	125002	ROSETON	345	126281 FISHKILL	345	1		-0.18979	-0.01551	1506.4	1492.6			
5309	888.5	2240.7	L: 126294 PLTVLLEY			345	137451 LEEDS	3	345	2							
			C:125002 ROSETON			345	126281 FISHKILL	345	1	10							
			Open	125002	ROSETON	345	126281 FISHKILL	345	1		-0.18979	-0.01551	1506.4	1492.6			
5310	917.5	2261.9	L: 126294 PLTVLLEY			345	137455 ATHENS	345	1								
			C:125000 HURLEY	3		345	137451 LEEDS	3	345	1	3						
			Open	125000	HURLEY	3	345 137451 LEEDS	3	345	1		-1523.3	-1725.0	-0.21977	-0.17209	-1241.0	-1398.9

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			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1				0.31397	-0.15187	-899.2	-1038.5
5311	936.9	2276.0	L: 130750 COOPC345	345	130753 FRASR345	345	1	-997.1	-1207.0	-0.22405				
			Base Case											
5312	984.3	2310.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1472.2	-1725.0	-0.25677		-0.18083	-1281.0	-1459.0
			C:137451 LEEDS 3	345	137455 ATHENS	345	1 1006							
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1				-0.44128	0.17209	433.3	602.7
5313	1065.6	2369.9	L: Interface 14 Leeds-PV					3080.0	3450.0	0.34718		0.35292	2522.1	2898.2
			C:SIN:430				1682							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.37040	-0.01551	1506.4	1489.8
5314	1065.6	2369.9	L: Interface 14 Leeds-PV					3080.0	3450.0	0.34718		0.35292	2522.1	2898.2
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.37040	-0.01551	1506.4	1489.8
5315	1135.9	2421.2	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1474.4	-1725.0	-0.22058		-0.18083	-1281.0	-1486.5
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1							
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.29333	0.13550	659.3	813.2
5316	1184.6	2456.7	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05534		0.03009	126.6	162.2
			C:SIN:440				1683							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.11202	0.22543	1114.8	1381.9
5317	1184.6	2456.7	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05534		0.03009	126.6	162.2
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.11202	0.22543	1114.8	1381.9
5318	1213.7	2477.9	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08236		-0.05020	-448.0	-509.0
			C:SIN:440				1683							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.14263	0.22543	1114.8	1388.4
5319	1213.7	2477.9	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08236		-0.05020	-448.0	-509.0
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.14263	0.22543	1114.8	1388.4
5320	1251.7	2505.6	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16929		-0.17209	-1241.0	-1456.4
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.18061	-0.01551	1506.4	1487.0
5321	1251.7	2505.6	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16929		-0.17209	-1241.0	-1456.4
			C:SIN:430				1682							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.18061	-0.01551	1506.4	1487.0
5322	1273.6	2521.6	L: 130794 DELHI115	115	130804 DEL T115	115	1	68.4	164.0	0.07507		0.04060	0.5	52.2
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200							
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				-0.11754	-0.29325	-577.5	-951.0
5323	1278.7	2525.3	L: Interface 14 Leeds-PV					2899.5	3450.0	0.43050		0.35292	2522.1	2973.4
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1							
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				0.57248	0.13550	659.3	832.6
5324	1365.2	2588.5	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1317.8	-1703.0	-0.28216		-0.22405	-997.1	-1303.0
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196							
			Open 130750 COOPC345	345	147833 MARCY T1	345	1				0.43391	-0.13390	-739.1	-921.9
5325	1374.6	2595.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1430.3	-1725.0	-0.21438		-0.18083	-1281.0	-1529.6
			C:130750 COOPC345	345	130753 FRASR345	345	1 192							
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.14972	-0.22405	-997.1	-1305.1
5326	1381.1	2600.1	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1348.1	-1724.0	-0.27217		-0.17424	-863.0	-1103.6
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2 1005							
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.56508	-0.17329	-858.5	-1097.8

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5327	1392.1	2608.1	L: 130817 JENN 115	115	130819 KATEL115	115	1	-107.6	-159.0	-0.03689	-0.01854	-71.5	-97.3
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345		345 130755 OAKDL345		345 1			0.06259	-0.29325	-577.5	-985.8
5328	1395.4	2610.5	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1345.1	-1724.0	-0.27155	-0.17329	-858.5	-1100.3
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1 1004						
			Open 137451 LEEDS 3		345 137452 N.SCOT77		345 1			0.56388	-0.17424	-863.0	-1106.1
5329	1428.8	2634.8	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1425.1	-1725.0	-0.20991	-0.17209	-1241.0	-1486.9
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1						
			Open 125000 HURLEY 3		345 125002 ROSETON		345 1			-0.27915	0.13550	659.3	852.9
5330	1452.9	2652.5	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-237.7	-317.0	-0.05455	-0.03009	-161.7	-205.4
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1 9						
			Open 125001 ROCK TAV		345 146754 MDTN TAP		345 1			0.17871	-0.13690	-425.4	-624.3
5331	1490.4	2679.8	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1350.8	1793.0	0.29671	0.18711	874.1	1152.9
			C:125001 ROCK TAV	345	130750 COOPC345	345	2 8						
			Open 125001 ROCK TAV		345 130750 COOPC345		345 2			-0.64149	-0.17085	-743.2	-997.8
5332	1521.5	2702.5	L: Interface 14 Leeds-PV					2813.4	3450.0	0.41839	0.35292	2522.1	3059.1
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345		345 130753 FRASR345		345 1			-0.29219	-0.22405	-997.1	-1338.0
5333	1579.5	2744.8	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.3	173.0	0.04666	0.03162	78.2	128.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345		345 149000 ROCH 345		345 1			0.04986	0.30157	422.3	898.6
5334	1605.0	2763.4	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	78.2	129.0	0.03162			
			Base Case										
5335	1639.6	2788.6	L: 131018 LOUNSL115	115	131850 CNYOG115	115	1	46.7	143.0	0.05874	0.03770	18.7	80.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345		345 130757 WATRC345		345 1			-0.10628	-0.19804	-263.5	-588.2
5336	1645.4	2792.9	L: Interface 32 F-To-G					3713.3	4643.0	0.56503			
			Base Case										
5337	1657.8	2801.9	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.0	159.0	0.03979	0.02697	75.1	119.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345		345 149000 ROCH 345		345 1			0.04252	0.30157	422.3	922.2
5338	1672.7	2812.8	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-44.7	-143.0	-0.05874	-0.03770	-16.7	-79.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345		345 130757 WATRC345		345 1			0.10628	-0.19804	-263.5	-594.8
5339	1675.9	2815.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1383.1	-1725.0	-0.20401	-0.17209	-1241.0	-1529.4
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345		345 130753 FRASR345		345 1			0.14248	-0.22405	-997.1	-1372.6
5340	1687.3	2823.4	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08236	0.05020	448.0	532.7
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV		345 126297 RAMAPO		345 1			0.14263	0.22543	1114.8	1495.2
5341	1687.3	2823.4	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08236	0.05020	448.0	532.7
			C:SIN:440				1683						
			Open 125001 ROCK TAV		345 126297 RAMAPO		345 1			0.14263	0.22543	1114.8	1495.2
5342	1698.6	2831.7	L: 130817 JENN 115	115	130851 SIDNT115	115	1	53.9	120.0	0.03894	0.02166	19.8	56.6
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345		345 130755 OAKDL345		345 1			-0.05894	-0.29325	-577.5	-1075.6
5343	1734.2	2857.6	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-1008.0	-1345.0	-0.19432	-0.13390	-739.1	-971.4
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						

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			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.26966	-0.22405	-997.1	-1385.6
5344	1734.7	2858.0	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1292.6	-1793.0	-0.28846	-0.17085	-743.2	-1039.5
			C:130750 COOPC345	345	146754 MDTN TAP	345	1 195						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.62859	0.18711	874.1	1198.7
5345	1735.2	2858.4	L: 130757 WATRC345	345	200769 HOMER CY	345	1	-543.5	-755.0	-0.12187			
			Base Case										
5346	1739.7	2861.7	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	89.8	159.0	0.03979	0.02697	71.8	118.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04252	0.30157	422.3	946.9
5347	1779.5	2890.7	L: Interface 23 QFW					892.6	0.0	-0.50158	-0.49348	1095.5	217.3
			C:GEN:KINTIGH-New										1777
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	1			0.00000	-0.01152	-288.5	-309.0
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	2			0.35120	-0.02308	-577.7	-618.8
5348	1802.8	2907.7	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.9	173.0	0.04052	0.03162	78.2	135.3
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04136	0.21519	524.7	912.6
5349	1834.5	2930.8	L: 130819 KATEL115	115	130838 OAKDL115	115	1	-124.3	-192.0	-0.03689	-0.01854	-88.2	-122.2
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			0.06259	-0.29325	-577.5	-1115.5
5350	1844.9	2938.4	L: Interface 23 QFW					910.4	-0.0	-0.49348	-0.49348	1095.5	185.0
			C:GEN:9 MI PT2										1561
			Remove unit 2 from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch				
5351	1857.7	2947.7	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1262.4	-1793.0	-0.28562	-0.17085	-743.2	-1060.5
			C:SER:CMT34&MTR34										1593
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.55569	0.18711	874.1	1221.7
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.07885	-0.13690	-425.4	-679.7
5352	1860.9	2950.1	L: Interface 23 QFW					918.7	-0.0	-0.49366	-0.49348	1095.5	177.1
			C:HQ-NY-765-New										1778
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.25138	0.00039	624.7	625.4
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.25138	0.00034	543.6	544.2
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.00036	10.3	9.7
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.09617	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent	dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0	MW	dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent	dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0	MW	dispatch					
5353	1879.0	2963.3	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-83.8	-173.0	-0.04745	-0.03216	-62.4	-122.9
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05070	0.30157	422.3	988.9
5354	1892.9	2973.4	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.6	159.0	0.03456	0.02697	75.1	126.1
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						

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			Open 130754 KINTI345	345	149000	ROCH 345	345	1			0.03527	0.21519	524.7	932.0
5355	1904.4	2981.8	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1353.2	-1725.0	-0.19524	-0.18083	-1281.0	-1625.4
			C:SER:CMT34&MTR34					1593						
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1			-0.09362	0.18711	874.1	1230.4
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1			-0.02277	-0.13690	-425.4	-686.1
5356	1905.9	2983.0	L: Interface	23	QFW				940.5	-0.0	-0.49348	-0.49348	1095.5	154.9
			C:GEN:GINNA					1562						
			Remove unit 1 from bus	149140	GINNA 19	19.0	605.0	MW	dispatch					
5357	1915.3	2989.8	L: 130753 FRASR345	345	130755	OAKDL345	345	1	-772.3	-1380.0	-0.31730	-0.29325	-577.5	-1139.2
			C:130753 FRASR345	345	137200	EDIC	345	1	202					
			Open 130753 FRASR345	345	137200	EDIC	345	1			0.27558	-0.08727	-706.7	-873.9
5358	1917.1	2991.1	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1353.2	-1725.0	-0.19392	-0.18083	-1281.0	-1627.7
			C:130750 COOPC345	345	147833	MARCY T1	345	1	196					
			Open 130750 COOPC345	345	147833	MARCY T1	345	1			0.09769	-0.13390	-739.1	-995.8
5359	1917.8	2991.6	L: 135452 LOCKPORT	115	135876	TELRDTP1	115	1	104.1	180.0	0.03959	0.02683	86.2	137.7
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1			0.04231	0.30157	422.3	1000.6
5360	1957.3	3020.4	*L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1344.5	-1725.0	-0.19441	-0.18083	-1281.0	-1635.0
			C:130750 COOPC345	345	146754	MDTN TAP	345	1	195					
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1			-0.07257	0.18711	874.1	1240.3
5361	1958.4	3021.2	L: Interface	23	QFW				966.4	-0.0	-0.49348	-0.49348	1095.5	129.0
			C:GEN:SEABROOK					1573						
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch					
5362	1958.4	3021.2	L: Interface	23	QFW				966.4	-0.0	-0.49348	-0.49348	1095.5	129.0
			C:GEN:SEAB&OMS					1575						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00003	0.00000	-0.1	-0.1
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch					
5363	1965.1	3026.1	L: Interface	23	QFW				969.7	0.0	-0.49348	-0.49348	1095.5	125.8
			C:SIN:250					1677						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00003	0.00000	-0.1	-0.1
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
5364	1967.1	3027.6	L: Interface	23	QFW				970.7	-0.0	-0.49348	-0.49348	1095.5	124.7
			C:GEN:MILLST 3					1572						
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
5365	1967.1	3027.6	L: Interface	23	QFW				970.7	-0.0	-0.49348	-0.49348	1095.5	124.7
			C:GEN:MLS3&OMS					1574						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00003	0.00000	-0.1	-0.1
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
5366	1980.2	3037.1	L: 135850 SOUR-114	115	135861	MORTIMER	115	1	71.0	153.0	0.04141	0.02806	52.3	107.9
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1			0.04425	0.30157	422.3	1019.5
5367	1987.2	3042.2	L: 135872 SOUR-111	115	135873	SWDN-111	115	1	90.3	159.0	0.03456	0.02697	71.8	125.4
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			0.03527	0.21519	524.7	952.3
5368	1991.8	3045.6	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1	-544.9	-707.0	-0.08138	-0.05020	-448.0	-548.0
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	9					
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1			0.22773	-0.13690	-425.4	-698.0
5369	1995.5	3048.3	*L: Interface	23	QFW				972.3	0.0	-0.48726	-0.49348	1095.5	110.7

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			C:SER:HC-SR_37&W-F_171		1600										
			Open 135398 SW345	345	200769	HOMER CY	345	1			0.30257	0.01853	-378.4	-341.4	
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.24131	0.00255	-35.9	-30.8	
5370	2004.9	3055.1	L: 130757 WATRC345	345	130768	WATRC230	230	1	455.1	600.0	0.07227	-0.07617	257.6	104.9	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.74956	-0.19804	-263.5	-660.6
5378	2029.8	3073.3	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1	98.3	180.0	0.04026	0.02728	80.1	135.5	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04302	0.30157	422.3	1034.4
5383	2045.8	3085.0	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	192.0	280.0	0.04300	0.02789	170.9	227.9	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.05011	0.30157	422.3	1039.2
5385	2065.7	3099.5	L: Interface 14 Leeds-PV						2662.9	3450.0	0.38103	0.35292	2522.1	3251.1	
			C:SER:CMT34&MTR34					1593							
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				0.18272	0.18711	874.1	1260.6
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				0.04443	-0.13690	-425.4	-708.2
5386	2068.4	3101.5	L: 137451 LEEDS 3	345	137453	N.SCOT99	345	2	-1214.0	-1724.0	-0.24655	-0.17329	-858.5	-1216.9	
			C:BUS:N.S._77					1614							
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				0.60779	-0.04428	-248.0	-339.6
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1				0.40443	0.00051	111.8	112.8
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.33531	0.17152	819.4	1174.2
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1				-0.26699	-0.04104	-92.7	-177.6
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1				0.20561	0.00000	-0.0	-0.0
5388	2070.0	3102.7	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-62.4	-129.0	-0.03216				
			Base Case												
5389	2070.9	3103.3	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1082.7	-1703.0	-0.29953	-0.22405	-997.1	-1461.1	
			C:130753 FRASR345	345	147831	GILB 345	345	1	203						
			Open 130753 FRASR345	345	147831	GILB 345	345	1				-0.39383	0.19165	217.4	614.3
5390	2074.6	3106.0	L: 130764 MEYER230	230	131122	WTHRS230	230	1	-238.5	-430.0	-0.09229				
			Base Case												
5394	2078.9	3109.1	L: 130815 HINMN115	115	131611	HARIS115	115	1	-218.9	-306.0	-0.04188	-0.02720	-198.4	-254.9	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				-0.04868	0.30157	422.3	1049.2
5395	2079.5	3109.6	L: Interface 14 Leeds-PV						2663.0	3450.0	0.37845	0.35292	2522.1	3256.0	
			C:130750 COOPC345	345	147833	MARCY T1	345	1	196						
			Open 130750 COOPC345	345	147833	MARCY T1	345	1				-0.19065	-0.13390	-739.1	-1017.6
5398	2089.8	3117.1	L: 130836 N.WAV115	115	131018	LOUNIS115	115	1	50.2	173.0	0.05874	0.03770	22.2	101.0	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.10628	-0.19804	-263.5	-677.4
5400	2097.4	3122.6	L: 146758 CHESTER	138	146773	SGRLF138	138	1	202.6	317.0	0.05455	0.03009	126.6	189.7	
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	9						
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				-0.17871	-0.13690	-425.4	-712.5
5411	2119.3	3138.6	L: Interface 14 Leeds-PV						2645.9	3450.0	0.37942	0.35292	2522.1	3270.0	
			C:130750 COOPC345	345	146754	MDTN TAP	345	1	195						
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				0.14164	0.18711	874.1	1270.6
5423	2147.6	3159.2	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-84.5	-173.0	-0.04121	-0.03216	-62.4	-131.5	
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				-0.04206	0.21519	524.7	986.8

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5435	2175.2	3179.4	L: Interface 14 Leeds-PV					2625.9	3450.0	0.37886		0.35292	2522.1	3289.8	
			C:SER:PV_LM_398								1597				
			Open 103105 LONG MTN	345	103117	CTNY398	345	1				0.33673	0.07701	308.5	476.0
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1				-0.23700	0.00000	0.2	0.2
5436	2175.2	3179.4	*L: Interface 14 Leeds-PV					2625.9	3450.0	0.37886		0.35292	2522.1	3289.8	
			C:103117 CTNY398	345	126294	PLTVLLEY	345	1	1362						
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1				0.33673	0.07701	308.3	475.8
5439	2182.4	3184.6	L: 130770 SHLDN230	230	131122	WTHRS230	230	1				0.09229			
			Base Case												
5454	2192.2	3191.8	L: 135452 LOCKPORT	115	135876	TELRDTP1	115	1				0.02683	86.2	145.0	
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.03510	0.21519	524.7	996.4
5467	2198.5	3196.4	L: 130794 DELHI115	115	130851	SIDNT115	115	1				-0.02113	-2.0	-48.5	
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755	OAKDL345	345	1				0.05853	-0.29325	-577.5	-1222.2
5472	2201.3	3198.4	L: 130764 MEYER230	230	131122	WTHRS230	230	1				-0.09229	-238.5	-441.7	
			C:SER:HCWC/NWES												
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.11957	-0.12187	-543.5	-811.8
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.03821	-0.03421	43.0	-32.3
6855	2223.4	3214.6	L: 130764 MEYER230	230	131122	WTHRS230	230	1				-0.09229	-238.5	-443.7	
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.11819	-0.12187	-543.5	-814.5
6924	2225.1	3215.8	L: 130750 COOPC345	345	130753	FRASR345	345	1				-0.22405	-997.1	-1495.6	
			C:137451 LEEDS 3	345	147831	GILB 345	345	1	1007						
			Open 137451 LEEDS 3	345	147831	GILB 345	345	1				0.16344	-0.15725	-918.9	-1268.8
7060	2235.3	3223.2	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1				-0.17209	-1241.0	-1625.7	
			C:SER:CMT34&MTR34												
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				-0.08910	0.18711	874.1	1292.3
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				-0.02167	-0.13690	-425.4	-731.4
7101	2242.8	3228.7	L: 130764 MEYER230	230	131122	WTHRS230	230	1				-0.09229	-238.5	-445.5	
			C:SER:HC-WC_30&W-F_171												
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.11761	-0.12187	-543.5	-816.9
			Open 135277 FALCONER	115	200579	WARREN	115	1				-0.05269	0.00255	-35.9	-30.2
7121	2250.2	3234.1	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1				-0.17209	-1241.0	-1628.3	
			C:130750 COOPC345	345	147833	MARCY T1	345	1	196						
			Open 130750 COOPC345	345	147833	MARCY T1	345	1				0.09296	-0.13390	-739.1	-1040.5
7135	2264.1	3244.3	L: 135850 SOUR-114	115	135861	MORTIMER	115	1				0.02806	52.3	115.9	
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.03671	0.21519	524.7	1011.9
7141	2270.0	3248.6	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1				0.05020			
			Base Case												
7146	2273.9	3251.4	L: 135851 SHEL-113	115	135874	SWDN-113	115	1				0.02729	70.3	132.3	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04303	0.30157	422.3	1108.0
7158	2289.5	3262.8	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1				-0.17209	-1241.0	-1635.0	
			C:130750 COOPC345	345	146754	MDTN TAP	345	1	195						
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				-0.06906	0.18711	874.1	1302.5
7159	2293.3	3265.5	L: 130770 SHLDN230	230	131122	WTHRS230	230	1				0.09229	228.6	440.2	

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			C:SER:HCWC/NWES			1607							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.11957	-0.12187	-543.5	-823.0	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.03821	-0.03421	43.0	-35.5	
7160	2294.5	3266.4	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1	-85.0	-180.0	-0.04141	-0.02807	-66.3	-130.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.04426	0.30157	422.3	1114.2	
7161	2294.5	3266.4	L: 130767 STOLE230	230	130770 SHLDN230	230	1	218.2	430.0	0.09229			
			Base Case										
7164	2301.7	3271.7	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1229.4	-1792.0	-0.24443	-0.18384	-916.1	-1339.2
			C:SIN:160				1670						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.35322	0.17152	819.4	1214.2	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.19918	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		-0.00023	-0.00018	74.8	74.4	
7165	2301.7	3271.7	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1229.4	-1792.0	-0.24443	-0.18384	-916.1	-1339.2
			C:SIN:150				1669						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.35322	0.17152	819.4	1214.2	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.19920	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	147905 ILION	115	1		-0.00016	-0.00011	88.8	88.5	
7172	2310.2	3277.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-577.5	-1255.0	-0.29325			
			Base Case										
7177	2312.1	3279.3	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-63.3	-173.0	-0.04745	-0.03216	-41.9	-116.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.05070	0.30157	422.3	1119.5	
7179	2316.7	3282.6	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	292.8	540.0	0.10669	0.09229	228.6	442.4
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.11819	-0.12187	-543.5	-825.9	
7182	2321.3	3286.0	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	98.8	180.0	0.03496	0.02728	80.1	143.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1		0.03569	0.21519	524.7	1024.2	
7191	2335.9	3296.7	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	290.6	540.0	0.10675	0.09229	228.6	444.2
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.11761	-0.12187	-543.5	-828.2	
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.05269	0.00255	-35.9	-30.0	
7195	2341.0	3300.4	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-54.4	-153.0	-0.04210	-0.02853	-35.4	-102.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.04499	0.30157	422.3	1128.3	
7197	2342.3	3301.3	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	16.6	143.0	0.05396	0.03770	18.7	107.0
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.05669	-0.12187	-543.5	-829.0	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.12286	-0.07617	257.6	79.2	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.05534	0.00000	22.4	22.4	
7202	2345.7	3303.8	*L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1291.7	-1725.0	-0.18473	-0.17209	-1241.0	-1644.7
			C:SER:PV_LM_398				1597						
			Open 103105 LONG MTN	345	103117 CTNY398	345	1		-0.16419	0.07701	308.5	489.2	
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1		0.11556	0.00000	0.2	0.2	
7210	2351.9	3308.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-656.6	-1380.0	-0.30757	-0.29325	-577.5	-1267.2
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196					
			Open 130750 COOPC345	345	147833 MARCY T1	345	1		0.10700	-0.13390	-739.1	-1054.1	

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7215	2353.6	3309.5	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1184.4	-1724.0	-0.22925	-0.17424	-863.0	-1273.1
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34981	-0.15725	-918.9	-1289.0
7216	2353.9	3309.8	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	703.6	1685.0	0.41694	0.30157	422.3	1132.2
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.53611	0.21519	524.7	1031.2
7229	2368.8	3320.6	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	98.1	173.0	0.03162	0.03162	78.2	153.2
			C:GEN:GINNA				1562						
			Remove unit 1 from bus	149140	GINNA 19	19.0	605.0 MW	dispatch					
7230	2370.6	3322.0	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	192.7	280.0	0.03683	0.02789	170.9	237.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04157	0.21519	524.7	1034.8
7231	2370.7	3322.0	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	-3.7	-143.0	-0.05874	-0.03770	24.3	-65.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.10628	-0.19804	-263.5	-733.0
7233	2372.0	3322.9	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	-11.0	143.0	0.06492	0.03770	18.7	108.1
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.24198	0.05517	71.0	201.9
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.18211	-0.07617	257.6	76.9
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.12849	0.00000	0.5	0.5
7241	2378.4	3327.6	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-14.7	-143.0	-0.05396	-0.03770	-16.7	-106.4
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.05669	-0.12187	-543.5	-833.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.12286	-0.07617	257.6	76.4
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.05534	0.00000	22.4	22.4
7245	2382.0	3330.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.30660	-0.29325	-577.5	-1276.0
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.18384	-916.1	-1354.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04702	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00061	-0.00011	88.8	88.5
7246	2382.0	3330.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.30660	-0.29325	-577.5	-1276.0
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.18384	-916.1	-1354.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04710	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00092	-0.00018	74.8	74.4
7247	2382.6	3330.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1180.0	-1724.0	-0.22832	-0.17329	-858.5	-1271.4
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34992	-0.15725	-918.9	-1293.6
7248	2384.6	3332.2	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-268.7	-540.0	-0.11379	-0.09229	-238.5	-458.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.07131	0.30157	422.3	1141.4
7254	2387.3	3334.1	L: 135452 LOCKPORT	115	135876 TELRDTP1	115	1	106.5	180.0	0.03078	0.02683	86.2	150.3
			C:135452 LOCKPORT	115	135875 TELRDTP1	115	1 600						
			Open 135452 LOCKPORT	115	135875 TELRDTP1	115	1			0.26156	0.01509	77.7	113.7
7255	2388.9	3335.3	L: 130767 STOLE230	230	130770 SHLDN230	230	1	281.6	540.0	0.10817	0.09229	218.2	438.7
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11957	-0.12187	-543.5	-834.7
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.03821	-0.03421	43.0	-38.7

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7256	2391.4	3337.1	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-678.7	-1380.0	-0.29325	-0.29325	-577.5	-1278.8
			C:SIN:250				1677						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00002	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
7258	2392.4	3337.8	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-50.8	-153.0	-0.04270	-0.02894	-31.6	-100.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04563	0.30157	422.3	1143.7
7265	2399.9	3343.3	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	88.0	173.0	0.03541	0.03162	78.2	154.1
			C:130764 MEYER230	230	131122 WTHRS230	230	1 221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1			-0.04101	-0.09229	-238.5	-460.0
7270	2402.0	3344.8	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	12.9	-143.0	-0.06492	-0.03770	-16.7	-107.3
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.24198	0.05517	71.0	203.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.18211	-0.07617	257.6	74.6
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.12849	0.00000	0.5	0.5
7278	2405.1	3347.1	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	195.5	280.0	0.03515	0.02789	170.9	237.9
			C:130766 ROBIN230	230	130767 STOLE230	230	1 224						
			Open 130766 ROBIN230	230	130767 STOLE230	230	1			0.26884	0.02701	91.5	156.4
7279	2407.9	3349.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-642.5	-1380.0	-0.30628	-0.29325	-577.5	-1283.6
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1 1012						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07092	-0.18384	-916.1	-1358.8
7280	2408.3	3349.5	L: 130815 HINMN115	115	131611 HARIS115	115	1	-219.6	-306.0	-0.03589	-0.02720	-198.4	-263.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04038	0.21519	524.7	1042.9
7284	2411.4	3351.7	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	87.6	173.0	0.03541	0.03162	78.2	154.5
			C:130770 SHLDN230	230	131122 WTHRS230	230	1 228						
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1			0.04101	0.09229	228.6	451.1
7288	2413.7	3353.4	L: 130767 STOLE230	230	130770 SHLDN230	230	1	282.5	540.0	0.10669	0.09229	218.2	441.0
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11819	-0.12187	-543.5	-837.7
7297	2422.0	3359.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-640.6	-1380.0	-0.30530	-0.29325	-577.5	-1287.8
			C:SIN:150				1669						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.07027	0.17152	819.4	1234.8
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04606	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00061	-0.00011	88.8	88.5
7298	2422.0	3359.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-640.6	-1380.0	-0.30530	-0.29325	-577.5	-1287.8
			C:SIN:160				1670						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.07027	0.17152	819.4	1234.8
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04614	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00092	-0.00018	74.8	74.4
7301	2423.4	3360.4	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	87.2	173.0	0.03541	0.03162	78.2	154.9
			C:130767 STOLE230	230	130770 SHLDN230	230	1 226						
			Open 130767 STOLE230	230	130770 SHLDN230	230	1			0.04101	0.09229	218.2	441.9
7306	2425.4	3361.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-668.8	-1380.0	-0.29325	-0.29325	-577.5	-1288.8
			C:GEN:SEAB&OMS				1575						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00002	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
7307	2425.4	3361.9*L:	130753 FRASR345	345	130755 OAKDL345	345	1	-668.8	-1380.0	-0.29325	-0.29325	-577.5	-1288.8

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			C:GEN:SEABROOK			1573									
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch								
7328	2432.9	3367.4	L: 130767 STOLE230	230	130770	SHLDN230	230	1	280.3	540.0	0.10675		0.09229	218.2	442.8
			C:SER:HC-WC_30&W-F_171					1601							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.11761	-0.12187	-543.5	-840.0
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.05269	0.00255	-35.9	-29.7
7343	2436.7	3370.2	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1	-1199.5	-1792.0	-0.24316		-0.18384	-916.1	-1364.1
			C:137200 EDIC	345	137452	N.SCOT77	345	1	946						
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.34586	0.17152	819.4	1237.4
7366	2442.8	3374.6	L: 135859 LAPPINS1	115	135866	NLERROYTA	115	1	76.3	173.0	0.03957		0.03162	78.2	155.5
			C:130754 KINTI345	345	147834	NIAG 345	345	1	204						
			Open 130754 KINTI345	345	147834	NIAG 345	345	1				-0.04136	-0.19211	46.0	-423.3
7382	2444.5	3375.8	L: 130815 HINMN115	115	131611	HARIS115	115	1	-222.3	-306.0	-0.03425		-0.02720	-198.4	-264.9
			C:130766 ROBIN230	230	130767	STOLE230	230	1	224						
			Open 130766 ROBIN230	230	130767	STOLE230	230	1				-0.26115	0.02701	91.5	157.5
8832	2466.2	3391.7	L: 137200 EDIC	345	137452	N.SCOT77	345	1	1149.2	1724.0	0.23309		0.17152	819.4	1242.4
			C:SIN:170					1671							
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.33494	-0.18384	-916.1	-1369.5
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1				0.19090	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246	VALLEY	115	1				0.00024	-0.00018	74.8	74.4
8833	2466.2	3391.7	L: 137200 EDIC	345	137452	N.SCOT77	345	1	1149.2	1724.0	0.23309		0.17152	819.4	1242.4
			C:SIN:180					1672							
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.33494	-0.18384	-916.1	-1369.5
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1				0.19092	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905	ILION	115	1				0.00016	-0.00011	88.8	88.5
8857	2470.3	3394.7	L: 135859 LAPPINS1	115	135866	NLERROYTA	115	1	94.9	173.0	0.03162		0.03162	78.2	156.4
			C:GEN:9 MI PT2					1561							
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch								
8860	2471.1	3395.3	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1	544.9	746.0	0.08138		0.05020	448.0	572.1
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	9						
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				-0.22773	-0.13690	-425.4	-763.6
8862	2471.4	3395.5	L: 131018 LOUNS115	115	131850	CNYOG115	115	1	29.3	143.0	0.04599		0.03770	18.7	111.8
			C:130768 WATRC230	230	130772	SHRED230	230	1	227						
			Open 130768 WATRC230	230	130772	SHRED230	230	1				0.15025	0.05517	71.0	207.4
8863	2471.5	3395.6	L: 135452 LOCKPORT	115	135872	SOUR-111	115	1	83.9	159.0	0.03039		0.02697	75.1	141.7
			C:135851 SHEL-113	115	135874	SWDN-113	115	1	674						
			Open 135851 SHEL-113	115	135874	SWDN-113	115	1				0.12542	0.02729	70.3	137.7
8865	2472.0	3395.9	L: 130770 SHLDN230	230	131122	WTHRS230	230	1	258.7	540.0	0.11379		0.09229	228.6	456.7
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.07131	0.30157	422.3	1167.8
8880	2475.7	3398.6	L: 131018 LOUNS115	115	131850	CNYOG115	115	1	18.7	112.0	0.03770				
			Base Case												
8897	2481.6	3402.9	L: 135452 LOCKPORT	115	135872	SOUR-111	115	1	84.3	159.0	0.03011		0.02697	75.1	142.0
			C:135452 LOCKPORT	115	135851	SHEL-113	115	1	596						
			Open 135452 LOCKPORT	115	135851	SHEL-113	115	1				0.11500	0.02728	80.1	147.8
8915	2486.4	3406.4	L: 131018 LOUNS115	115	131850	CNYOG115	115	1	28.7	143.0	0.04599		0.03770	18.7	112.4
			C:SER:OAKDALE_WATRC230					1594							
			Open 130768 WATRC230	230	130772	SHRED230	230	1				0.15025	0.05517	71.0	208.2

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			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				-0.10162	0.00000	6.8	6.8
8920	2488.2	3407.8	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	191.1	280.0	0.03572	0.02789	170.9	240.3	
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				-0.08488	-0.09229	-238.5	-468.2
8926	2492.7	3411.0	L: 131018 LOUNSL115	115	131850 CNYOG115	115	1	28.4	143.0	0.04599	0.03770	18.7	112.6	
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222						
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				-0.15025	-0.05517	-64.5	-202.1
8927	2493.5	3411.6	L: 131018 LOUNSL115	115	131850 CNYOG115	115	1	28.3	143.0	0.04599	0.03770	18.7	112.7	
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.15025	0.05517	64.3	201.8
8929	2495.8	3413.3	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	196.5	383.0	0.07473	0.06044	134.5	285.4	
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11471	-0.12187	-543.5	-847.7
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.00924	-0.03421	43.0	-42.4
8941	2503.0	3418.5	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	83.4	159.0	0.03020	0.02697	75.1	142.6	
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				-0.03498	-0.09229	-238.5	-469.5
8944	2504.1	3419.3	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-195.9	-383.0	-0.07473	-0.06044	-133.9	-285.3	
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11471	-0.12187	-543.5	-848.7
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00924	-0.03421	43.0	-42.7
8947	2504.9	3419.9	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	196.7	383.0	0.07437	0.06044	134.5	285.9	
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11437	-0.12187	-543.5	-848.8
8948	2505.8	3420.6	L: 131018 LOUNSL115	115	131850 CNYOG115	115	1	47.6	143.0	0.03808	0.03770	18.7	113.1	
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				-0.05020	-0.00765	-575.7	-594.9
8952	2508.2	3422.4	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	85.7	173.0	0.03479	0.03162	78.2	157.6	
			C:135850 SOUR-114	115	135876 TELRDTP1	115	1	673						
			Open 135850 SOUR-114	115	135876 TELRDTP1	115	1				-0.11295	-0.02807	-66.3	-136.7
8954	2508.7	3422.7	L: 135452 LOCKPORT	115	135876 TELRDTP1	115	1	100.5	180.0	0.03170	0.02683	86.2	153.5	
			C:135452 LOCKPORT	115	135851 SHEL-113	115	1	596						
			Open 135452 LOCKPORT	115	135851 SHEL-113	115	1				0.17825	0.02728	80.1	148.6
8959	2511.8	3425.0	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	190.3	280.0	0.03572	0.02789	170.9	240.9	
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228						
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				0.08488	0.09229	228.6	460.4
8961	2512.0	3425.1	*L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	93.5	173.0	0.03163	0.03162	78.2	157.7	
			C:HQ-NY-765-New					1778						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				0.00935	0.00039	624.7	625.7
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				0.00935	0.00034	543.6	544.5
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1				0.00000	-0.00036	10.3	9.4
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1				-0.00431	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						

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			Open	158	MS765SW2	0.0	147828	MASS	765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA						
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch						
8964	2513.2	3426.0	L:	130763	HILSD230	230	131154	STONY	RIDGE	230	1	-196.1	-383.0	-0.07437	-0.06044	-133.9	-285.8	
			C:	130757	WATRC345	345	200769	HOMER	CY	345	1							
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	0.11437	-0.12187	-543.5	-849.8			
8965	2513.8	3426.4	L:	130848	S.OWE115	115	131850	CNYOG115	115	1	-27.4	-143.0	-0.04599	-0.03770	-16.7	-111.5		
			C:	130768	WATRC230	230	130772	SHRED230	230	1	227							
			Open	130768	WATRC230	230	130772	SHRED230	230	1		-0.15025	0.05517	71.0	209.7			
8966	2514.5	3426.9	L:	135452	LOCKPORT	115	135872	SOUR-111	115	1	83.1	159.0	0.03020	0.02697	75.1	142.9		
			C:	130770	SHLDN230	230	131122	WTHRS230	230	1	228							
			Open	130770	SHLDN230	230	131122	WTHRS230	230	1		0.03498	0.09229	228.6	460.7			
8986	2524.2	3434.0	L:	130750	COOPC345	345	130753	FRASR345	345	1	-1095.5	-1703.0	-0.24068	-0.22405	-997.1	-1562.6		
			C:	125000	HURLEY 3	345	137451	LEEDS 3	345	1	3							
			Open	125000	HURLEY 3	345	137451	LEEDS 3	345	1		0.10944	-0.15187	-899.2	-1282.5			
8988	2526.0	3435.3	L:	130761	AVOCA230	230	131154	STONY	RIDGE	230	1	195.0	383.0	0.07442	0.06044	134.5	287.2	
			C:	SER:HC-WC_30&W-F_171							1601							
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	-0.11393	-0.12187	-543.5	-851.4			
			Open	135277	FALCONER	115	200579	WARREN	115	1		0.04046	0.00255	-35.9	-29.5			
8990	2526.4	3435.6	L:	131018	LOUNSI15	115	131850	CNYOG115	115	1	-18.5	143.0	0.06391	0.03770	18.7	113.9		
			C:	130763	HILSD230	230	130768	WATRC230	230	1	219							
			Open	130763	HILSD230	230	130768	WATRC230	230	1		0.19959	0.13134	-186.1	145.7			
8991	2526.5	3435.7	L:	135452	LOCKPORT	115	135872	SOUR-111	115	1	82.7	159.0	0.03020	0.02697	75.1	143.2		
			C:	130767	STOLE230	230	130770	SHLDN230	230	1	226							
			Open	130767	STOLE230	230	130770	SHLDN230	230	1		0.03498	0.09229	218.2	451.4			
8992	2526.7	3435.9	L:	130815	HINMN115	115	131611	HARIS115	115	1	-218.0	-306.0	-0.03481	-0.02720	-198.4	-267.1		
			C:	130764	MEYER230	230	131122	WTHRS230	230	1	221							
			Open	130764	MEYER230	230	131122	WTHRS230	230	1		0.08245	-0.09229	-238.5	-471.7			
8994	2527.4	3436.3	L:	130848	S.OWE115	115	131850	CNYOG115	115	1	-16.7	-112.0	-0.03770					
			Base Case															
8998	2528.8	3437.3	L:	130848	S.OWE115	115	131850	CNYOG115	115	1	-26.7	-143.0	-0.04599	-0.03770	-16.7	-112.1		
			C:	SER:OAKDALE_WATRC230							1594							
			Open	130768	WATRC230	230	130772	SHRED230	230	1		-0.15025	0.05517	71.0	210.5			
			Open	130765	OAKDL230	230	130772	SHRED230	230	1	NA							
			Open	130765	OAKDL230	230	130838	OAKDL115	115	1		0.10162	0.00000	6.8	6.8			
9008	2534.3	3441.4	L:	130763	HILSD230	230	131154	STONY	RIDGE	230	1	-194.4	-383.0	-0.07442	-0.06044	-133.9	-287.1	
			C:	SER:HC-WC_30&W-F_171							1601							
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	0.11393	-0.12187	-543.5	-852.4			
			Open	135277	FALCONER	115	200579	WARREN	115	1		-0.04046	0.00255	-35.9	-29.4			
9009	2535.0	3441.9	L:	130848	S.OWE115	115	131850	CNYOG115	115	1	-26.4	-143.0	-0.04599	-0.03770	-16.7	-112.3		
			C:	130765	OAKDL230	230	130772	SHRED230	230	1	222							
			Open	130765	OAKDL230	230	130772	SHRED230	230	1		0.15025	-0.05517	-64.5	-204.4			
9010	2535.0	3441.9	L:	135452	LOCKPORT	115	135872	SOUR-111	115	1	73.5	159.0	0.03374	0.02697	75.1	143.4		
			C:	130754	KINTI345	345	147834	NIAG 345	345	1	204							
			Open	130754	KINTI345	345	147834	NIAG 345	345	1		-0.03527	-0.19211	46.0	-441.0			

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9013	2535.9	3442.6	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-26.4	-143.0	-0.04599	-0.03770	-16.7	-112.3
			C:130765 OAKDL230	230	130838	OAKDL115	115	1 223						
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			-0.15025	0.05517	64.3	204.2
9014	2536.4	3442.9	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	189.4	280.0	0.03572	0.02789	170.9	241.6
			C:130767 STOLE230	230	130770	SHLDN230	230	1 226						
			Open 130767 STOLE230	230	130770	SHLDN230	230	1			0.08488	0.09229	218.2	452.3
9016	2539.2	3445.0	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1097.9	-1703.0	-0.23829	-0.22405	-997.1	-1566.0
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	2 120						
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	2			0.07872	-0.18083	-1281.0	-1740.2
9033	2550.3	3453.0	L: 130815 HINMN115	115	131611	HARIS115	115	1	-217.2	-306.0	-0.03481	-0.02720	-198.4	-267.7
			C:130770 SHLDN230	230	131122	WTHRS230	230	1 228						
			Open 130770 SHLDN230	230	131122	WTHRS230	230	1			-0.08245	0.09229	228.6	464.0
9040	2556.9	3457.9	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	20.4	-143.0	-0.06391	-0.03770	-16.7	-113.1
			C:130763 HILSD230	230	130768	WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768	WATRC230	230	1			-0.19959	0.13134	-186.1	149.7
9041	2557.0	3457.9	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-45.6	-143.0	-0.03808	-0.03770	-16.7	-113.1
			C:130755 OAKDL345	345	131128	LAPEER	345	1 209						
			Open 130755 OAKDL345	345	131128	LAPEER	345	1			0.05020	-0.00765	-575.7	-595.3
9047	2563.0	3462.3	L: 130767 STOLE230	230	130770	SHLDN230	230	1	248.4	540.0	0.11379	0.09229	218.2	454.8
			C:147834 NIAG 345	345	149000	ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1			0.07131	0.30157	422.3	1195.2
9054	2571.8	3468.7	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1092.7	-1703.0	-0.23731	-0.22405	-997.1	-1573.3
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1 121						
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1			0.07704	-0.17209	-1241.0	-1683.6
9059	2574.8	3470.9	L: 130815 HINMN115	115	131611	HARIS115	115	1	-216.4	-306.0	-0.03481	-0.02720	-198.4	-268.4
			C:130767 STOLE230	230	130770	SHLDN230	230	1 226						
			Open 130767 STOLE230	230	130770	SHLDN230	230	1			-0.08245	0.09229	218.2	455.9
9060	2575.1	3471.1	L: 130764 MEYER230	230	131122	WTHRS230	230	1	-269.6	-540.0	-0.10502	-0.09229	-238.5	-476.2
			C:130754 KINTI345	345	149000	ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			-0.05915	0.21519	524.7	1078.8
9073	2578.7	3473.8	L: 135872 SOUR-111	115	135873	SWDN-111	115	1	80.6	159.0	0.03039	0.02697	71.8	141.4
			C:135851 SHEL-113	115	135874	SWDN-113	115	1 674						
			Open 135851 SHEL-113	115	135874	SWDN-113	115	1			0.12542	0.02729	70.3	140.6
9084	2589.9	3481.9	L: 135872 SOUR-111	115	135873	SWDN-111	115	1	81.0	159.0	0.03011	0.02697	71.8	141.7
			C:135452 LOCKPORT	115	135851	SHEL-113	115	1 596						
			Open 135452 LOCKPORT	115	135851	SHEL-113	115	1			0.11500	0.02728	80.1	150.8
9086	2593.0	3484.2	L: 130764 MEYER230	230	131122	WTHRS230	230	1	-303.1	-540.0	-0.09135	-0.09229	-238.5	-477.8
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.06555	-0.12187	-543.5	-859.5
			Open 130757 WATRC345	345	130768	WATRC230	230	1			-0.11714	-0.07617	257.6	60.1
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.05467	0.00000	22.4	22.4
9107	2602.3	3491.0	L: 135851 SHEL-113	115	135874	SWDN-113	115	1	89.0	180.0	0.03497	0.02729	70.3	141.3
			C:130754 KINTI345	345	149000	ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			0.03569	0.21519	524.7	1084.6
9111	2604.2	3492.4	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1083.6	-1703.0	-0.23786	-0.22405	-997.1	-1580.6
			C:BUS:N.S._99					1615						
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1			0.12460	-0.03440	-310.7	-400.3
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1			0.04425	-0.18384	-916.1	-1394.8

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			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.00286	0.00067	118.7	120.4
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.00800	-0.17329	-858.5	-1309.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.01512	0.00000	1.6	1.6
9122	2606.9	3494.4	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1119.7	1724.0	0.23179		0.17152	819.4	1266.6
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.32784	-0.18384	-916.1	-1395.3
9139	2610.9	3497.3	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	80.2	159.0	0.03020		0.02697	71.8	142.2
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				-0.03498	-0.09229	-238.5	-479.5
9232	2622.5	3505.7	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	79.8	159.0	0.03020		0.02697	71.8	142.5
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228						
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				0.03498	0.09229	228.6	470.6
9318	2626.0	3508.2	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1	-85.6	-180.0	-0.03597		-0.02807	-66.3	-140.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.03671	0.21519	524.7	1089.7
10470	2631.6	3512.4	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	70.2	159.0	0.03374		0.02697	71.8	142.8
			C:130754 KINTI345	345	147834 NIAG 345	345	1	204						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				-0.03527	-0.19211	46.0	-459.6
10563	2634.4	3514.4	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	79.5	159.0	0.03020		0.02697	71.8	142.9
			C:130767 STOLE230	230	130770 SHLDN230	230	1	226						
			Open 130767 STOLE230	230	130770 SHLDN230	230	1				0.03498	0.09229	218.2	461.4
10664	2646.2	3523.0	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-64.0	-173.0	-0.04121		-0.03216	-41.9	-127.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.04206	0.21519	524.7	1094.1
10706	2656.6	3530.6	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1117.4	1724.0	0.22835		0.17152	819.4	1275.1
			C:BUS:N.S._99					1615						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.18532	-0.03440	-310.7	-402.1
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.38312	-0.18384	-916.1	-1404.5
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.09741	0.00067	118.7	120.4
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.11491	-0.17329	-858.5	-1318.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.24148	0.00000	1.6	1.6
10721	2661.2	3533.9	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-252.5	-540.0	-0.10803		-0.09229	-238.5	-484.1
			C:LKWANA-OXBW					1651						
			Open 417 OXBOW	230	3070 LACKAWNA	230	1				0.11664	-0.13498	-119.7	-479.0
10730	2669.8	3540.2	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	259.6	540.0	0.10502		0.09229	228.6	475.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.05915	0.21519	524.7	1099.2
10751	2679.6	3547.4	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-55.0	-153.0	-0.03657		-0.02853	-35.4	-111.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.03732	0.21519	524.7	1101.3
10761	2685.0	3551.3	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1318.9	-1912.0	-0.22089		-0.15725	-918.9	-1341.1
			C:BUS:N.S._99					1615						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.62614	-0.03440	-310.7	-403.1
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.16124	-0.18384	-916.1	-1409.7
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.03268	0.00067	118.7	120.5
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.07201	-0.17329	-858.5	-1323.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.10439	0.00000	1.6	1.6
10765	2685.9	3552.0	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-863.0	-1331.0	-0.17424				

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Base Case														
10770	2687.9	3553.4	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1063.9	-1703.0	-0.23778	-0.22405	-997.1	-1599.3	
			C:125000 HURLEY 3	345	125002 ROSETON	345	1							
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.10131	0.13550	659.3	1023.5
10774	2691.7	3556.2	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1692.2	2283.0	0.21949	0.22543	1114.8	1721.6	
			C:SIN:430									1682		
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.38330	-0.01551	1506.4	1464.6
10775	2691.7	3556.2	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1692.2	2283.0	0.21949	0.22543	1114.8	1721.6	
			C:125002 ROSETON	345	126281 FISHKILL	345	1							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.38330	-0.01551	1506.4	1464.6
10804	2701.9	3563.7	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	293.2	540.0	0.09135	0.09229	228.6	477.9	
			C:BUS:WATERCURE_345									1632		
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.06555	-0.12187	-543.5	-872.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.11714	-0.07617	257.6	51.8
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.05467	0.00000	22.4	22.4
10819	2704.6	3565.6	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	92.3	180.0	0.03243	0.02728	80.1	153.9	
			C:135850 SOUR-114	115	135876 TELRDTP1	115	1					673		
			Open 135850 SOUR-114	115	135876 TELRDTP1	115	1				-0.18349	-0.02807	-66.3	-142.2
10829	2709.0	3568.9	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-41.9	-129.0	-0.03216				
			Base Case											
10913	2726.8	3581.8	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-858.5	-1331.0	-0.17329				
			Base Case											
10920	2728.1	3582.8	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-448.0	-585.0	-0.05020				
			Base Case											
12270	2738.7	3590.5	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-51.4	-153.0	-0.03708	-0.02894	-31.6	-110.8	
			C:130754 KINTI345	345	149000 ROCH 345	345	1					205		
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.03785	0.21519	524.7	1114.0
12454	2753.2	3601.1	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	242.6	540.0	0.10803	0.09229	228.6	482.7	
			C:LKWANA-OXBW									1651		
			Open 417 OXBOW	230	3070 LACKAWNA	230	1				-0.11664	-0.13498	-119.7	-491.4
12493	2765.4	3610.0	L: 130753 FRASR345	345	137200 EDIC	345	1	-886.4	-1380.0	-0.17849	-0.08727	-706.7	-948.1	
			C:130753 FRASR345	345	130755 OAKDL345	345	1					200		
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				0.31108	-0.29325	-577.5	-1388.5
12497	2765.9	3610.3	*L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	39.7	143.0	0.03735	0.03770	18.7	122.9	
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1					392		
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				-0.03223	0.01087	-652.6	-622.5
12501	2766.4	3610.7	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1051.1	-1703.0	-0.23564	-0.22405	-997.1	-1616.9	
			C:BUS:N.S._77									1614		
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.03865	-0.04428	-248.0	-370.5
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1				0.01599	0.00051	111.8	113.2
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.05541	0.17152	819.4	1293.9
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				0.00917	-0.04104	-92.7	-206.2
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				-0.01068	0.00000	-0.0	-0.0
12503	2768.3	3612.1	L: 130767 STOLE230	230	130770 SHLDN230	230	1	249.3	540.0	0.10502	0.09229	218.2	473.7	
			C:130754 KINTI345	345	149000 ROCH 345	345	1					205		
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.05915	0.21519	524.7	1120.4
12528	2779.4	3620.2	L: 130836 N.WAV115	115	131018 LOUNSI115	115	1	-7.4	173.0	0.06492	0.03770	22.2	127.0	
			C:BUS:WATERCURE_230									1633		

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			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.24198	0.05517	71.0	224.4	
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.18211	-0.07617	257.6	45.9	
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.12849	0.00000	0.5	0.5	
12536	2781.6	3621.8	L: 136150 CLAY	345	137200 EDIC	345	2		766.3	1434.0	0.24003	0.18062	576.6	1079.1
			C:136150 CLAY	345	137200 EDIC	345	1	715						
			Open 136150 CLAY	345	137200 EDIC	345	1				0.33000	0.18002	574.8	1075.6
12558	2790.7	3628.4	L: 130787 CODNT115	115	130830 MONTR115	115	1		-6.1	-144.0	-0.04941	-0.03314	15.5	-77.0
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.08214	-0.19804	-263.5	-816.2
12565	2791.6	3629.1	L: 130794 DELHI115	115	130838 OAKDL115	115	1		-76.3	-179.0	-0.03678	-0.01947	-42.2	-96.6
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				0.05902	-0.29325	-577.5	-1396.2
12579	2794.5	3631.2	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-72.4	-173.0	-0.03600	-0.03216	-62.4	-152.3
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				0.04170	-0.09229	-238.5	-496.4
12581	2794.7	3631.4	L: 136150 CLAY	345	137200 EDIC	345	1		764.7	1434.0	0.23949	0.18002	574.8	1077.9
			C:136150 CLAY	345	137200 EDIC	345	2	716						
			Open 136150 CLAY	345	137200 EDIC	345	2				0.32927	0.18062	576.6	1081.4
12593	2795.9	3632.2	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-60.5	-173.0	-0.04024	-0.03216	-62.4	-152.3
			C:130754 KINTI345	345	147834 NIAG 345	345	1	204						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				0.04206	-0.19211	46.0	-491.2
12614	2798.5	3634.1	L: 130754 KINTI345	345	149000 ROCH 345	345	1		710.8	1685.0	0.34812	0.21519	524.7	1126.9
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.44079	0.30157	422.3	1266.2
12702	2806.0	3639.6	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-72.0	-173.0	-0.03600	-0.03216	-62.4	-152.7
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228						
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				-0.04170	0.09229	228.6	487.6
12853	2810.7	3643.0	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-82.6	-173.0	-0.03216	-0.03216	-62.4	-152.8
			C:GEN:GINNA					1562						
			Remove unit 1 from bus	149140	GINNA 19	19.0		605.0	MW	dispatch				
13966	2815.2	3646.3	L: 130767 STOLE230	230	130770 SHLDN230	230	1		282.8	540.0	0.09135	0.09229	218.2	478.1
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.06555	-0.12187	-543.5	-886.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.11714	-0.07617	257.6	43.1
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.05467	0.00000	22.4	22.4
14034	2818.0	3648.3	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-71.5	-173.0	-0.03600	-0.03216	-62.4	-153.1
			C:130767 STOLE230	230	130770 SHLDN230	230	1	226						
			Open 130767 STOLE230	230	130770 SHLDN230	230	1				-0.04170	0.09229	218.2	478.3
14036	2818.1	3648.4	*L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-37.8	-143.0	-0.03735	-0.03770	-16.7	-123.0
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				0.03223	0.01087	-652.6	-621.9
14075	2821.5	3650.9	L: 130768 WATRC230	230	130772 SHRED230	230	1		139.4	440.0	0.10655	0.05517	71.0	226.7
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.25941	-0.19804	-263.5	-822.3
14142	2830.8	3657.7	L: Interface 32 F-To-G						4205.5	6118.0	0.67563	0.56503	3713.3	5312.7
			C:130750 COOPC345	345	130753 FRASR345	345	1	192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1				-0.49362	-0.22405	-997.1	-1631.3
14149	2832.5	3658.9	L: 130836 N.WAV115	115	131018 LOUNS115	115	1		20.2	173.0	0.05396	0.03770	22.2	129.0

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				C:135452 LOCKPORT	115	135876 TELRDTP1	115	1	601										
				Open 135452 LOCKPORT	115	135876 TELRDTP1	115	1				0.12835	0.02683	86.2	163.8				
14278	2907.7	3713.8	L:	130764 MEYER230	230	131122 WTHRS230	230	1		-273.3	-540.0	-0.09171		-0.09229	-238.5	-506.9			
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				0.05332	0.01087	-652.6	-620.9				
14286	2910.0	3715.4	L:	135862 MUMFORD1	115	135866 NLEROYTA	115	1		-70.0	-173.0	-0.03538		-0.03216	-62.4	-156.0			
				C:135850 SOUR-114	115	135876 TELRDTP1	115	1	673										
				Open 135850 SOUR-114	115	135876 TELRDTP1	115	1				0.11483	-0.02807	-66.3	-148.0				
14289	2912.2	3717.1	L:	135862 MUMFORD1	115	135866 NLEROYTA	115	1		-79.4	-173.0	-0.03216		-0.03216	-62.4	-156.1			
				C:GEN:9 MI PT2					1561										
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch												
14290	2913.8	3718.3	L:	147834 NIAG 345	345	149000 ROCH 345	345	1		422.3	1301.0	0.30157							
				Base Case															
14292	2915.3	3719.3	L:	135850 SOUR-114	115	135861 MORTIMER	115	1		50.6	153.0	0.03511		0.02806	52.3	134.1			
				C:130754 KINTI345	345	147834 NIAG 345	345	1	204										
				Open 130754 KINTI345	345	147834 NIAG 345	345	1				-0.03671	-0.19211	46.0	-514.1				
14296	2916.9	3720.5	*L:	135862 MUMFORD1	115	135866 NLEROYTA	115	1		-70.6	-173.0	-0.03510		-0.03216	-62.4	-156.2			
				C:135452 LOCKPORT	115	135872 SOUR-111	115	1	599										
				Open 135452 LOCKPORT	115	135872 SOUR-111	115	1				-0.10907	0.02697	75.1	153.7				
14310	2927.7	3728.4	L:	130815 HINMN115	115	135452 LOCKPORT	115	1		188.6	280.0	0.03120		0.02789	170.9	252.5			
				C:135452 LOCKPORT	115	135464 SANBORNT	115	1	590										
				Open 135452 LOCKPORT	115	135464 SANBORNT	115	1				-0.15539	-0.02132	-114.4	-176.8				
14312	2927.9	3728.5	L:	135850 SOUR-114	115	135861 MORTIMER	115	1		61.0	153.0	0.03142		0.02806	52.3	134.5			
				C:130764 MEYER230	230	131122 WTHRS230	230	1	221										
				Open 130764 MEYER230	230	131122 WTHRS230	230	1				-0.03640	-0.09229	-238.5	-508.7				
14317	2932.9	3732.2	L:	130815 HINMN115	115	135452 LOCKPORT	115	1		189.1	280.0	0.03099		0.02789	170.9	252.7			
				C:135468 SNBRN102	115	147850 NIAG115E	115	1	626										
				Open 135468 SNBRN102	115	147850 NIAG115E	115	1				-0.15350	-0.02018	-118.9	-178.1				
14318	2934.6	3733.4	L:	130764 MEYER230	230	131122 WTHRS230	230	1		-235.8	-540.0	-0.10365		-0.09229	-238.5	-509.4			
				C:130754 KINTI345	345	147834 NIAG 345	345	1	204										
				Open 130754 KINTI345	345	147834 NIAG 345	345	1				0.05915	-0.19211	46.0	-517.8				
14320	2934.9	3733.6	L:	Interface 19 PJM-NY						2394.6	3114.0	0.24510		0.24510	1498.2	2217.5			
				C:GEN:SEAB&OMS					1575										
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00004	0.00000	-0.1	-0.1				
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch												
14321	2934.9	3733.6	L:	Interface 19 PJM-NY						2394.6	3114.0	0.24510		0.24510	1498.2	2217.5			
				C:GEN:SEABROOK					1573										
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch												
14322	2934.9	3733.6	L:	Interface 35 NY-PJM						-2394.6	-3114.0	-0.24510		-0.24510	-1498.2	-2217.5			
				C:GEN:SEAB&OMS					1575										
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00004	0.00000	-0.1	-0.1				
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch												
14323	2934.9	3733.6	L:	Interface 35 NY-PJM						-2394.6	-3114.0	-0.24510		-0.24510	-1498.2	-2217.5			
				C:GEN:SEABROOK					1573										
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch												
14324	2935.4	3734.0	L:	130815 HINMN115	115	135452 LOCKPORT	115	1		189.0	280.0	0.03099		0.02789	170.9	252.7			
				C:135468 SNBRN102	115	135510 SHAW-102	115	1	625										
				Open 135468 SNBRN102	115	135510 SHAW-102	115	1				0.15350	0.02018	118.4	177.6				

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14325	2936.1	3734.5	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	89.7	180.0	0.03074	0.02728	80.1	160.2
			C:135452 LOCKPORT	115	135872 SOUR-111	115	1	599					
			Open 135452 LOCKPORT	115	135872 SOUR-111	115	1			0.12820	0.02697	75.1	154.3
14327	2939.4	3736.9	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	60.6	153.0	0.03142	0.02806	52.3	134.8
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228					
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1			0.03640	0.09229	228.6	499.9
14330	2940.1	3737.5	*L: 130815 HINMN115	115	135452 LOCKPORT	115	1	188.8	280.0	0.03103	0.02789	170.9	252.9
			C:135464 SANBORNT	115	147850 NIAG115E	115	1	621					
			Open 135464 SANBORNT	115	147850 NIAG115E	115	1			-0.14943	-0.02099	-119.9	-181.6
14331	2940.3	3737.6	L: 130836 N.WAV115	115	131018 LOUNS115	115	1	-14.9	173.0	0.06391	0.03770	22.2	133.1
			C:130763 HILSD230	230	130768 WATRC230	230	1	219					
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.19959	0.13134	-186.1	200.1
14341	2946.9	3742.4	*L: 130764 MEYER230	230	131122 WTHRS230	230	1	-213.2	-540.0	-0.11090	-0.09229	-238.5	-510.5
			C:ETHS/NWES/LLGD					1648					
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.14637	-0.08167	117.6	-123.0
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.12198	-0.03421	43.0	-57.8
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.07595	-0.03270	38.0	-58.4
14347	2949.7	3744.5	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	89.3	180.0	0.03074	0.02728	80.1	160.6
			C:135872 SOUR-111	115	135873 SWDN-111	115	1	706					
			Open 135872 SOUR-111	115	135873 SWDN-111	115	1			0.12820	0.02697	71.8	151.4
14348	2949.9	3744.6	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	164.6	336.0	0.05811	0.03185	110.7	204.6
			C:130751 CNDGUA_T	230	130764 MEYER230	230	1	198					
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1			-0.43445	-0.06044	-124.1	-302.4
14351	2950.6	3745.1	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	60.6	153.0	0.03131	0.02806	52.3	135.1
			C:135856 EBAT-119	115	135859 LAPPINS1	115	1	681					
			Open 135856 EBAT-119	115	135859 LAPPINS1	115	1			0.10274	0.03162	80.7	174.0
14352	2951.4	3745.7	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	60.3	153.0	0.03142	0.02806	52.3	135.1
			C:130767 STOLE230	230	130770 SHLDN230	230	1	226					
			Open 130767 STOLE230	230	130770 SHLDN230	230	1			0.03640	0.09229	218.2	490.6
14353	2952.3	3746.3	L: Interface	35	NY-PJM			-2390.4	-3114.0	-0.24510	-0.24510	-1498.2	-2221.8
			C:SIN:250					1677					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00004	0.00000	-0.1	-0.1
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
14354	2952.3	3746.3	L: Interface	19	PJM-NY			2390.4	3114.0	0.24510	0.24510	1498.2	2221.8
			C:SIN:250					1677					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
14355	2952.9	3746.8	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-37.8	239.0	0.09374	0.06580	-75.0	119.3
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.14107	-0.19804	-263.5	-848.3
14367	2958.7	3751.0	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	60.4	153.0	0.03131	0.02806	52.3	135.3
			C:135859 LAPPINS1	115	135866 NLEROYTA	115	1	688					
			Open 135859 LAPPINS1	115	135866 NLEROYTA	115	1			0.10274	0.03162	78.2	171.8
14397	2968.4	3758.1	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1120.1	-1792.0	-0.22635	-0.18384	-916.1	-1461.8
			C:BUS:N.S._77					1614					
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.09196	-0.04428	-248.0	-379.5
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.02619	0.00051	111.8	113.3
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.28820	0.17152	819.4	1328.6

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			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				-0.06914	-0.04104	-92.7	-214.5
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				0.13842	0.00000	-0.0	-0.0
14400	2970.3	3759.4	L: 130815 HINMN115	115	131611 HARIS115	115	1	-215.7	-306.0	-0.03042		-0.02720	-198.4	-279.2
			C:135452 LOCKPORT	115	135464 SANBORNT	115	1	590						
			Open 135452 LOCKPORT	115	135464 SANBORNT	115	1				0.15095	-0.02132	-114.4	-177.7
14405	2971.1	3760.1	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	60.4	153.0	0.03118		0.02806	52.3	135.7
			C:135851 SHEL-113	115	135874 SWDN-113	115	1	674						
			Open 135851 SHEL-113	115	135874 SWDN-113	115	1				0.11433	0.02729	70.3	151.4
14408	2971.8	3760.6	L: 137451 LEEDS 3	345	137455 ATHENS	345	1	983.0	1725.0	0.24968		0.17209	433.3	944.7
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	120						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				-0.42910	-0.18083	-1281.0	-1818.4
14423	2973.8	3762.0	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	78.5	180.0	0.03414		0.02728	80.1	161.3
			C:130754 KINTI345	345	147834 NIAG 345	345	1	204						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				-0.03569	-0.19211	46.0	-525.3
14433	2975.7	3763.4	L: 130815 HINMN115	115	131611 HARIS115	115	1	-216.1	-306.0	-0.03021		-0.02720	-198.4	-279.3
			C:135468 SNBRN102	115	147850 NIAG115E	115	1	626						
			Open 135468 SNBRN102	115	147850 NIAG115E	115	1				0.14911	-0.02018	-118.9	-178.9
14448	2978.2	3765.2	L: 130815 HINMN115	115	131611 HARIS115	115	1	-216.0	-306.0	-0.03021		-0.02720	-198.4	-279.4
			C:135468 SNBRN102	115	135510 SHAW-102	115	1	625						
			Open 135468 SNBRN102	115	135510 SHAW-102	115	1				-0.14911	0.02018	118.4	178.5
14476	2982.7	3768.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1	819.4	1331.0	0.17152				
			Base Case											
14478	2982.8	3768.6	*L: 130815 HINMN115	115	131611 HARIS115	115	1	-215.8	-306.0	-0.03025		-0.02720	-198.4	-279.5
			C:135464 SANBORNT	115	147850 NIAG115E	115	1	621						
			Open 135464 SANBORNT	115	147850 NIAG115E	115	1				0.14515	-0.02099	-119.9	-182.5
14524	2988.1	3772.5	*L: 135850 SOUR-114	115	135861 MORTIMER	115	1	58.9	153.0	0.03148		0.02806	52.3	136.2
			C:135862 MUMFORD1	115	135866 NLEROYTA	115	1	698						
			Open 135862 MUMFORD1	115	135866 NLEROYTA	115	1				-0.10614	-0.03216	-62.4	-158.5
14557	2991.1	3774.7	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1	-81.0	-180.0	-0.03309		-0.02807	-66.3	-150.2
			C:135452 LOCKPORT	115	135851 SHEL-113	115	1	596						
			Open 135452 LOCKPORT	115	135851 SHEL-113	115	1				-0.18400	0.02728	80.1	161.7
14586	2993.3	3776.2	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	88.6	180.0	0.03055		0.02728	80.1	161.8
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				-0.03539	-0.09229	-238.5	-514.8

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, APR 08 2009 10:55
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From ON_B_EXP To GHI_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 16120 violations

Interface-1 Interface 2 WEST-CENTRAL Init.Flow= 170.68 TDF= 0.7266

N	FCITC IntFcel L: Limiting constraint	C: Contingency description	Ncon	PreShift Flow	MW Rating	TDF	LODF	PTDF =Base Case Flow=	
								Init	Final
1	-170335.-123591.	L: Interface 21 PJM-WEST	1665	5211.1	-0.0	0.03059	0.05237	5112.7	-3807.3
		C:SIN:30							
		Open 126260 BOWLINE1 345 146841 BOW1	20.0 1		NA				
		Open 126260 BOWLINE1 345 146750 WHAV345	345 10			-0.20891	0.10404	-470.6	-18192.4
		Open 126290 LADENTWN 345 146750 WHAV345	345 1			-0.00041	0.09565	-170.6	-16463.4
2	-156373.-113446.	L: Interface 21 PJM-WEST	1605	5137.7	0.0	0.03286	0.05237	5112.7	-3076.2
		C:SER:C398/NWES							
		Open 409 GROVER 230 200675 E.TWANDA	230 1			0.06509	0.00131	-15.6	-220.3
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.17346	-0.08302	117.6	13100.2
		Open 381 TOWANDA 115 200675 E.TWANDA	230 1			0.01304	-0.00674	-52.1	1002.3
		Open 130836 N.WAV115 115 200676 E.SAYRE	115 1			0.14744	-0.03464	43.0	5460.1
3	-156166.-113296.	L: Interface 21 PJM-WEST	1606	5139.3	-0.0	0.03291	0.05237	5112.7	-3065.3
		C:SER:ETHS/NWES							
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.17144	-0.08302	117.6	13083.0
		Open 130836 N.WAV115 115 200676 E.SAYRE	115 1			0.15082	-0.03464	43.0	5452.9
4	-139189.-100961.	L: Interface 21 PJM-WEST	1649	5133.5	-0.0	0.03688	0.05237	5112.7	-2176.3
		C:ETHS/LLGD							
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.13801	-0.08302	117.6	11673.5
		Open 130807 GOUDY115 115 200680 LAUREL L	115 1			0.12187	-0.03304	38.0	4637.2

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5	-122092.-88539.1	L: Interface	21	PJM-WEST	5127.4	-0.0	0.04200	0.05237	5112.7	-1281.0
		C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375			
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.12492	-0.08302	117.6 10254.1
6	-114601.-83096.2	L: Interface	21	PJM-WEST	5123.5	0.0	0.04471	0.05237	5112.7	-888.7
		C:130763 HILSD230	230	130768 WATRC230	230	1	219			
		Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.05811	0.13182	-186.1-15293.2
7	-112501.-81570.2	L: Interface	21	PJM-WEST	5130.0	0.0	0.04560	0.05237	5112.7	-778.7
		C:BUS:WATERCURE_230					1633			
		Open 130768 WATRC230	230	130772 SHRED230	230	1		-0.02074	0.05541	71.0 -6162.8
		Open 130757 WATRC345	345	130768 WATRC230	230	1		0.07352	-0.07641	257.6 8854.0
		Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.18949	0.00000	0.5 0.5
8	-109893.-79675.8	L: Interface	21	PJM-WEST	5043.3	-0.0	0.04589	0.05237	5112.7	-642.2
		C:MULT04					1656			
		Open 9 JUNIATA	500	21 SUNBURY	500	1		-0.13383	0.04745	524.7 -4689.8
		Open 21 SUNBURY	500	3084 SUNBURY	230	24		-0.00698	0.01781	-121.6 -2079.4
9	-108647.-78770.5	L: Interface	21	PJM-WEST	5130.0	0.0	0.04722	0.05237	5112.7	-576.9
		C:130757 WATRC345	345	130768 WATRC230	230	1	213			
		Open 130757 WATRC345	345	130768 WATRC230	230	1		0.06740	-0.07641	257.6 8559.6
10	-104415.-75695.5	*L: Interface	21	PJM-WEST	5182.8	-0.0	0.04964	0.05237	5112.7	-355.3
		C:SER:HC-SR_37&W-F_171					1600			
		Open 135398 SW345	345	200769 HOMER CY	345	1		-0.17837	0.01506	-378.4 -1951.3
		Open 135277 FALCONER	115	200579 WARREN	115	1		-0.07354	0.00060	-35.9 -98.3
1759	-64764.9-46886.2	L: Interface	20	PJM-CENT	3528.6	-0.0	0.05448	0.11186	3269.0	-3975.5
		C:126260 BOWLINE1	345	146750 WHAV345	345	10	79			
		Open 126260 BOWLINE1	345	146750 WHAV345	345	10		-0.55149	0.10404	-470.6 -7208.8
1764	-51447.4-37209.9	L: Interface	20	PJM-CENT	3469.8	-0.0	0.06744	0.11186	3269.0	-2485.9
		C:SIN:30					1665			
		Open 126260 BOWLINE1	345	146841 BOW1	20.0	1	NA			
		Open 126260 BOWLINE1	345	146750 WHAV345	345	10		-0.42624	0.10404	-470.6 -5823.2
		Open 126290 LADENTWN	345	146750 WHAV345	345	1		-0.00074	0.09565	-170.6 -5091.6
1765	-48535.9-35094.5	L: Interface	20	PJM-CENT	3229.5	-0.0	0.06654	0.11186	3269.0	-2160.2
		C:LKWANA-OXBW					1651			
		Open 417 OXBOW	230	3070 LACKAWNA	230	1		0.33047	-0.13714	-119.7 6536.7
1766	-46628.4-33708.6	L: Interface	20	PJM-CENT	3322.8	0.0	0.07126	0.11186	3269.0	-1946.8
		C:ETHS/NWES/LLGD					1648			
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.28248	-0.08302	117.6 3988.9
		Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.25885	-0.03464	43.0 1658.3
		Open 130807 GOUDY115	115	200680 LAUREL L	115	1		0.24753	-0.03304	38.0 1578.7
1767	-39151.4-28275.9	L: Interface	20	PJM-CENT	3304.2	-0.0	0.08439	0.11186	3269.0	-1110.4
		C:SER:C398/NWES					1605			
		Open 409 GROVER	230	200675 E.TWANDA	230	1		0.09834	0.00131	-15.6 -66.8
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.24445	-0.08302	117.6 3368.1
		Open 381 TOWANDA	115	200675 E.TWANDA	230	1		0.01930	-0.00674	-52.1 211.9
		Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.20696	-0.03464	43.0 1399.3
1768	-39143.1-28269.9	L: Interface	20	PJM-CENT	3306.6	-0.0	0.08447	0.11186	3269.0	-1109.5
		C:SER:ETHS/NWES					1606			
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.24142	-0.08302	117.6 3367.4
		Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.21196	-0.03464	43.0 1399.0

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1769	-36604.4-26425.3	L: Interface	20	PJM-CENT					3298.4	-0.0	0.09011		0.11186	3269.0	-825.5
		C:ETHS/LLGD													
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.19432	-0.08302	117.6	3156.6
		Open	130807	GOUDY115	115	200680	LAUREL L	115	1			0.17004	-0.03304	38.0	1247.5
1770	-35457.3-25591.9	L: Interface	20	PJM-CENT					3966.3	0.0	0.11186		0.11186	3269.0	-697.2
		C:GEN:PEACHBTM													
		Remove unit	1	from bus	34	PCHBTM 2	22.0	1060.3	MW	dispatch					
1771	-34995.6-25256.4	L: Interface	20	PJM-CENT					3914.6	0.0	0.11186		0.11186	3269.0	-645.6
		C:GEN:SALEM													
		Remove unit	1	from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch					
1772	-33862.0-24432.7	*L: Interface	20	PJM-CENT					3787.8	-0.0	0.11186		0.11186	3269.0	-518.7
		C:SIN:250													
		Open	100508	SANDB115	115	100509	SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1
		Remove unit	3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
3528	-3168.9 -2131.8	L: Interface	26	ONTARIO-MICH					761.4	-0.0	0.24029		0.25959	736.0	-86.6
		C:ETHS/NWES/LLGD													
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.12812	-0.08302	117.6	380.7
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.13049	-0.03464	43.0	152.8
		Open	130807	GOUDY115	115	200680	LAUREL L	115	1			0.12559	-0.03304	38.0	142.7
3529	-3049.5 -2045.0	L: Interface	26	ONTARIO-MICH					753.2	0.0	0.24699		0.25959	736.0	-55.6
		C:SER:ETHS/NWES													
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.10729	-0.08302	117.6	370.8
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.10670	-0.03464	43.0	148.6
3530	-3049.2 -2044.8	L: Interface	26	ONTARIO-MICH					753.1	0.0	0.24698		0.25959	736.0	-55.5
		C:SER:C398/NWES													
		Open	409	GROVER	230	200675	E.TWANDA	230	1			0.00017	0.00131	-15.6	-19.6
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.10753	-0.08302	117.6	370.8
		Open	381	TOWANDA	115	200675	E.TWANDA	230	1			0.00253	-0.00674	-52.1	-31.6
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.10604	-0.03464	43.0	148.6
3531	-2999.0 -2008.4	L: Interface	26	ONTARIO-MICH					749.1	-0.0	0.24979		0.25959	736.0	-42.5
		C:ETHS/LLGD													
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.08368	-0.08302	117.6	366.6
		Open	130807	GOUDY115	115	200680	LAUREL L	115	1			0.08652	-0.03304	38.0	137.1
3532	-2992.8 -2003.8	L: Interface	26	ONTARIO-MICH					762.5	-0.0	0.25478		0.25959	736.0	-40.9
		C:W44LC													
		Open	160062	LONGWOOD	220	160074	COWALJ44	220	1			-0.16056	0.02464	189.2	115.5
		Open	160074	COWALJ44	220	160134	BUCHJW44	220	1			0.16303	-0.00527	334.4	350.2
		Open	160054	BUCHANAN	220	160134	BUCHJW44	220	1			-0.00035	0.00527	-256.1	-271.9
		Open	160055	CHATHAM	220	160074	COWALJ44	220	1			0.71981	0.00000	3.1	3.1
3533	-2992.6 -2003.7	L: Interface	26	ONTARIO-MICH					762.5	-0.0	0.25478		0.25959	736.0	-40.9
		C:W45LC													
		Open	160062	LONGWOOD	220	160075	COWALJ45	220	1			-0.16050	0.02462	189.2	115.5
		Open	160075	COWALJ45	220	160135	BUCHJW45	220	1			0.16297	-0.00527	334.3	350.0
		Open	160054	BUCHANAN	220	160135	BUCHJW45	220	1			-0.00035	0.00527	-262.5	-278.2
		Open	160055	CHATHAM	220	160075	COWALJ45	220	1			0.71977	0.00000	3.1	3.1
3534	-2979.7 -1994.3	L: Interface	26	ONTARIO-MICH					771.6	0.0	0.25895		0.25959	736.0	-37.5
		C:131128 LAPEER			345	136153	LAFAYTTE	345	1	392					
		Open	131128	LAPEER	345	136153	LAFAYTTE	345	1			-0.05454	0.01186	-652.6	-687.9

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3535	-2967.5	-1985.4	L: Interface	26	ONTARIO-MICH				721.7	0.0	0.24319		0.25959	736.0	-34.3	
			C:LKWANA-OXBW											1651		
			Open	417	OXBOW	230	3070	LACKAWNA	230	1						
3536	-2964.7	-1983.4	L: Interface	26	ONTARIO-MICH				770.8	-0.0	0.25999		0.11958	-0.13714	-119.7	287.2
			C:130755 OAKDL345			345	131128	LAPEER	345	1	209					
			Open	130755	OAKDL345	345	131128	LAPEER	345	1						
3537	-2946.1	-1969.9	*L: Interface	26	ONTARIO-MICH				749.2	0.0	0.25432		0.25959	736.0	-28.8	
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL												1650	
			Open	505	SHELOCTA	230	521	KEYSTONE	230	1						
			Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1						
5297	-1378.0	-830.6	L: Interface	39	ZoneD-ONT				-47.0	-0.0	-0.03409		0.00000	0.5	0.5	
			C:147834 NIAG	345		345	149000	ROCH	345	345	1	1226				
			Open	147834	NIAG	345	345	149000	ROCH	345	345	1				
5298	-1378.0	-830.6	L: Interface	40	ONT-Zoned				47.0	0.0	0.03409		0.00000	-0.5	-0.5	
			C:147834 NIAG	345		345	149000	ROCH	345	345	1	1226				
			Open	147834	NIAG	345	345	149000	ROCH	345	345	1				
5299	-403.9	-122.7	L: 126294	PLTVLLEY	345	137451	LEEDS	3	345	2						
			C:126294	PLTVLLEY	345	137455	ATHENS	345	1	121						
			Open	126294	PLTVLLEY	345	137455	ATHENS	345	1						
5300	-263.3	-20.6	L: 126294	PLTVLLEY	345	137455	ATHENS	345	1							
			C:126294	PLTVLLEY	345	137451	LEEDS	3	345	2	120					
			Open	126294	PLTVLLEY	345	137451	LEEDS	3	345	2					
5301	276.3	371.4	L: 126294	PLTVLLEY	345	137451	LEEDS	3	345	2						
			Base Case													
5302	396.5	458.8	L: Interface	14	Leeds-PV				2522.1	2662.0	0.35290					
			Base Case													
5303	522.8	550.5	L: 126294	PLTVLLEY	345	137455	ATHENS	345	1							
			Base Case													
5304	549.3	569.8	L: 146758	CHESTER	138	146771	SHOEM138	138	1							
			C:SIN:440												1683	
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1						
5305	549.3	569.8	L: 146758	CHESTER	138	146771	SHOEM138	138	1							
			C:125001	ROCK TAV	345	126297	RAMAPO	345	1	7						
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1						
5306	637.9	634.2	L: 126294	PLTVLLEY	345	137451	LEEDS	3	345	2						
			C:125000	HURLEY 3	345	137451	LEEDS	3	345	1	3					
			Open	125000	HURLEY 3	345	137451	LEEDS	3	345	1					
5307	774.3	733.3	L: Interface	14	Leeds-PV				3101.0	3450.0	0.45068		0.35290	2522.1	2795.3	
			C:125000	HURLEY 3	345	137451	LEEDS	3	345	1	3					
			Open	125000	HURLEY 3	345	137451	LEEDS	3	345	1					
5308	888.6	816.3	L: 126294	PLTVLLEY	345	137451	LEEDS	3	345	2						
			C:125002	ROSETON	345	126281	FISHKILL	345	1	10						
			Open	125002	ROSETON	345	126281	FISHKILL	345	1						
5309	888.6	816.3	L: 126294	PLTVLLEY	345	137451	LEEDS	3	345	2						
			C:SIN:430												1682	
			Open	125002	ROSETON	345	126281	FISHKILL	345	1						
5310	917.6	837.4	L: 126294	PLTVLLEY	345	137455	ATHENS	345	1							
			C:125000	HURLEY 3	345	137451	LEEDS	3	345	1	3					

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			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1				0.31397	-0.15186	-899.2	-1038.5
5311	936.1	850.9	L: 130750 COOPC345	345	130753 FRASR345	345	1	-997.1	-1207.0	-0.22425				
			Base Case											
5312	984.4	885.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1472.2	-1725.0	-0.25676		-0.18082	-1281.0	-1459.0
			C:137451 LEEDS 3	345	137455 ATHENS	345	1 1006							
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1				-0.44128	0.17208	433.3	602.7
5313	1065.6	945.0	L: Interface 14 Leeds-PV					3080.0	3450.0	0.34717		0.35290	2522.1	2898.1
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.37040	-0.01548	1506.4	1489.9
5314	1065.6	945.0	L: Interface 14 Leeds-PV					3080.0	3450.0	0.34717		0.35290	2522.1	2898.1
			C:SIN:430				1682							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.37040	-0.01548	1506.4	1489.9
5315	1136.0	996.1	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1474.4	-1725.0	-0.22057		-0.18082	-1281.0	-1486.5
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1							
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.29333	0.13549	659.3	813.2
5316	1184.5	1031.3	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05535		0.03009	126.6	162.2
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.11202	0.22545	1114.8	1381.9
5317	1184.5	1031.3	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05535		0.03009	126.6	162.2
			C:SIN:440				1683							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.11202	0.22545	1114.8	1381.9
5318	1213.6	1052.5	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08236		-0.05021	-448.0	-509.0
			C:SIN:440				1683							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.14263	0.22545	1114.8	1388.4
5319	1213.6	1052.5	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08236		-0.05021	-448.0	-509.0
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.14263	0.22545	1114.8	1388.4
5320	1251.7	1080.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16928		-0.17208	-1241.0	-1456.4
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.18061	-0.01548	1506.4	1487.0
5321	1251.7	1080.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16928		-0.17208	-1241.0	-1456.4
			C:SIN:430				1682							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.18061	-0.01548	1506.4	1487.0
5322	1270.2	1093.6	L: 130794 DELHI115	115	130804 DEL T115	115	1	68.4	164.0	0.07527		0.04072	0.5	52.2
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200							
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				-0.11754	-0.29396	-577.5	-950.9
5323	1278.8	1099.8	L: Interface 14 Leeds-PV					2899.5	3450.0	0.43046		0.35290	2522.1	2973.4
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1							
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				0.57248	0.13549	659.3	832.6
5324	1364.5	1162.1	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1317.8	-1703.0	-0.28229		-0.22425	-997.1	-1303.1
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196							
			Open 130750 COOPC345	345	147833 MARCY T1	345	1				0.43391	-0.13378	-739.1	-921.7
5325	1374.5	1169.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1430.3	-1725.0	-0.21440		-0.18082	-1281.0	-1529.6
			C:130750 COOPC345	345	130753 FRASR345	345	1 192							
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.14972	-0.22425	-997.1	-1305.3
5326	1381.7	1174.6	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1348.1	-1724.0	-0.27206		-0.17417	-863.0	-1103.6
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2 1005							
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.56508	-0.17322	-858.5	-1097.8

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5327	1387.3	1178.7	L: 130817 JENN 115	115	130819 KATEL115	115	1	-107.6	-159.0	-0.03702	-0.01862	-71.5	-97.3
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345		345 130755 OAKDL345		345 1			0.06259	-0.29396	-577.5	-985.3
5328	1395.9	1184.9	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1345.1	-1724.0	-0.27144	-0.17322	-858.5	-1100.3
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1 1004						
			Open 137451 LEEDS 3		345 137452 N.SCOT77		345 1			0.56388	-0.17417	-863.0	-1106.1
5329	1428.9	1208.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1425.1	-1725.0	-0.20990	-0.17208	-1241.0	-1486.9
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1						
			Open 125000 HURLEY 3		345 125002 ROSETON		345 1			-0.27915	0.13549	659.3	852.9
5330	1452.7	1226.2	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-237.7	-317.0	-0.05456	-0.03009	-161.7	-205.4
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1 9						
			Open 125001 ROCK TAV		345 146754 MDTN TAP		345 1			0.17871	-0.13693	-425.4	-624.3
5331	1490.1	1253.3	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1350.8	1793.0	0.29676	0.18714	874.1	1152.9
			C:125001 ROCK TAV	345	130750 COOPC345	345	2 8						
			Open 125001 ROCK TAV		345 130750 COOPC345		345 2			-0.64149	-0.17088	-743.2	-997.8
5332	1521.4	1276.1	L: Interface 14 Leeds-PV					2813.4	3450.0	0.41842	0.35290	2522.1	3059.0
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345		345 130753 FRASR345		345 1			-0.29219	-0.22425	-997.1	-1338.2
5333	1599.2	1332.6	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.3	173.0	0.04608	0.03097	78.2	127.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345		345 149000 ROCH 345		345 1			0.04986	0.30305	422.3	906.9
5334	1630.1	1355.1	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	46.7	143.0	0.05909	0.03792	18.7	80.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345		345 130757 WATRC345		345 1			-0.10628	-0.19912	-263.5	-588.1
5335	1638.6	1361.2	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	78.2	129.0	0.03097			
			Base Case										
5336	1645.6	1366.3	L: Interface 32 F-To-G					3713.3	4643.0	0.56498			
			Base Case										
5337	1663.0	1379.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-44.7	-143.0	-0.05909	-0.03792	-16.7	-79.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345		345 130757 WATRC345		345 1			0.10628	-0.19912	-263.5	-594.7
5338	1666.2	1381.3	L: Interface 23 QFW					892.6	-0.0	-0.53568	-0.53185	1095.5	209.3
			C:GEN:KINTIGH-New				1777						
			Open 130754 KINTI345		345 130873 KINTIG24		24.0 1			0.00000	-0.00544	-288.5	-297.5
			Open 130754 KINTI345		345 130873 KINTIG24		24.0 2			0.35120	-0.01090	-577.7	-595.9
5339	1675.7	1388.2	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1383.1	-1725.0	-0.20403	-0.17208	-1241.0	-1529.4
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345		345 130753 FRASR345		345 1			0.14248	-0.22425	-997.1	-1372.9
5340	1686.4	1396.0	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.0	159.0	0.03912	0.02623	75.1	119.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345		345 149000 ROCH 345		345 1			0.04252	0.30305	422.3	933.3
5341	1687.1	1396.5	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08236	0.05021	448.0	532.7
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV		345 126297 RAMAPO		345 1			0.14263	0.22545	1114.8	1495.2
5342	1687.1	1396.5	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08236	0.05021	448.0	532.7
			C:SIN:440				1683						
			Open 125001 ROCK TAV		345 126297 RAMAPO		345 1			0.14263	0.22545	1114.8	1495.2
5343	1694.5	1401.9	L: 130817 JENN 115	115	130851 SIDNT115	115	1	53.9	120.0	0.03904	0.02171	19.8	56.6

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				C:130753 FRASR345	345	130755 OAKDL345	345	1	200										
				Open 130753 FRASR345	345	130755 OAKDL345	345	1						-0.05894	-0.29396	-577.5	-1075.6		
5344	1711.8	1414.4	L:	Interface	23	QFW				910.4	-0.0	-0.53185		-0.53185	1095.5	185.0			
				C:GEN:9 MI PT2					1561										
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch											
5345	1723.3	1422.8	L:	130757 WATRC345	345	200769 HOMER CY	345	1		-543.5	-755.0	-0.12271							
				Base Case															
5346	1726.7	1425.3	L:	Interface	23	QFW				918.7	0.0	-0.53203		-0.53185	1095.5	177.1			
				C:HQ-NY-765-New					1778										
				Open 147827 MARCY765	765	147828 MASS 765	765	1		NA									
				Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA									
				Open 147827 MARCY765	765	147833 MARCY T1	345	1					-0.25138	0.00039	624.7	625.4			
				Open 147827 MARCY765	765	147833 MARCY T1	345	2					-0.25138	0.00034	543.6	544.2			
				Open 156 MCY765SW	0.0	147827 MARCY765	765	1		NA									
				Open 147838 MASS230B	230	147839 MOSES E	230	1					0.00000	-0.00036	10.3	9.7			
				Open 147828 MASS 765	765	147838 MASS230B	230	1		NA									
				Open 147837 MASS230A	230	147839 MOSES E	230	1					-0.09617	0.00000	18.8	18.8			
				Open 147828 MASS 765	765	147837 MASS230A	230	1		NA									
				Open 158 MS765SW2	0.0	147828 MASS 765	765	1		NA									
				Open 157 MS765SW1	0.0	147828 MASS 765	765	1		NA									
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch											
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch											
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch											
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch											
5347	1734.4	1430.9	L:	125001 ROCK TAV	345	130750 COOPC345	345	2		-1292.6	-1793.0	-0.28852		-0.17088	-743.2	-1039.5			
				C:130750 COOPC345	345	146754 MDTN TAP	345	1	195										
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1					-0.62859	0.18714	874.1	1198.6			
5348	1734.8	1431.2	L:	130750 COOPC345	345	147833 MARCY T1	345	1		-1008.0	-1345.0	-0.19425		-0.13378	-739.1	-971.2			
				C:130750 COOPC345	345	130753 FRASR345	345	1	192										
				Open 130750 COOPC345	345	130753 FRASR345	345	1					0.26966	-0.22425	-997.1	-1386.1			
5349	1768.4	1455.6	L:	Interface	23	QFW				940.5	-0.0	-0.53185		-0.53185	1095.5	154.9			
				C:GEN:GINNA					1562										
				Remove unit 1 from bus 149140 GINNA 19	19.0	605.0	MW	dispatch											
5350	1769.7	1456.5	L:	135872 SOUR-111	115	135873 SWDN-111	115	1		89.8	159.0	0.03912		0.02623	71.8	118.2			
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.04252	0.30305	422.3	958.6			
5351	1817.1	1491.0	L:	Interface	23	QFW				966.4	-0.0	-0.53185		-0.53185	1095.5	129.0			
				C:GEN:SEAB&OMS					1575										
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2					0.00003	0.00000	-0.1	-0.1			
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch											
5352	1817.1	1491.0	L:	Interface	23	QFW				966.4	-0.0	-0.53185		-0.53185	1095.5	129.0			
				C:GEN:SEABROOK					1573										
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch											
5353	1823.3	1495.4	L:	Interface	23	QFW				969.7	0.0	-0.53185		-0.53185	1095.5	125.8			
				C:SIN:250					1677										
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2					0.00003	0.00000	-0.1	-0.1			
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch											
5354	1825.2	1496.9	L:	Interface	23	QFW				970.7	0.0	-0.53185		-0.53185	1095.5	124.7			

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			C:GEN:MILLST 3			1572							
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
5355	1825.2	1496.9	L: Interface 23 QFW					970.7	0.0	-0.53185		-0.53185	1095.5 124.7
			C:GEN:MLS3&OMS										
			Open 100508 SANDB115 115 100509 SB RCTOR	115	2					0.00003	0.00000		-0.1 -0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
5356	1828.1	1498.9	L: 130819 KATEL115 115 130838 OAKDL115	115	1			-124.3	-192.0	-0.03702		-0.01862	-88.2 -122.2
			C:130753 FRASR345 345 130755 OAKDL345	345	1 200								
			Open 130753 FRASR345 345 130755 OAKDL345	345	1					0.06259	-0.29396		-577.5 -1114.9
5357	1839.7	1507.4	L: 135859 LAPPINS1 115 135866 NLEROYTA	115	1			99.9	173.0	0.03971		0.03097	78.2 135.2
			C:130754 KINTI345 345 149000 ROCH 345	345	1 205								
			Open 130754 KINTI345 345 149000 ROCH 345	345	1					0.04136	0.21118		524.7 913.2
5358	1844.5	1510.8	*L: Interface 23 QFW					972.3	-0.0	-0.52715		-0.53185	1095.5 114.5
			C:SER:HC-SR_37&W-F_171										
			Open 135398 SW345 345 200769 HOMER CY	345	1					0.30257	0.01506		-378.4 -350.6
			Open 135277 FALCONER 115 200579 WARREN	115	1					0.24131	0.00060		-35.9 -34.8
5359	1857.3	1520.2	L: 125001 ROCK TAV 345 130750 COOPC345	345	2			-1262.4	-1793.0	-0.28567		-0.17088	-743.2 -1060.5
			C:SER:CMT34&MTR34										
			Open 130750 COOPC345 345 146754 MDTN TAP	345	1					-0.55569	0.18714		874.1 1221.7
			Open 125001 ROCK TAV 345 146754 MDTN TAP	345	1					0.07885	-0.13693		-425.4 -679.7
5365	1902.4	1552.9	L: 135862 MUMFORD1 115 135866 NLEROYTA	115	1			-83.8	-173.0	-0.04686		-0.03150	-62.4 -122.4
			C:147834 NIAG 345 345 149000 ROCH 345	345	1 1226								
			Open 147834 NIAG 345 345 149000 ROCH 345	345	1					-0.05070	0.30305		422.3 998.8
5366	1904.5	1554.5	L: 126294 PLTVLLEY 345 137451 LEEDS 3	345	2			-1353.2	-1725.0	-0.19523		-0.18082	-1281.0 -1625.4
			C:SER:CMT34&MTR34										
			Open 130750 COOPC345 345 146754 MDTN TAP	345	1					-0.09362	0.18714		874.1 1230.5
			Open 125001 ROCK TAV 345 146754 MDTN TAP	345	1					-0.02277	-0.13693		-425.4 -686.1
5367	1911.6	1559.6	L: 130753 FRASR345 345 130755 OAKDL345	345	1			-772.3	-1380.0	-0.31791		-0.29396	-577.5 -1139.5
			C:130753 FRASR345 345 137200 EDIC	345	1 202								
			Open 130753 FRASR345 345 137200 EDIC	345	1					0.27558	-0.08691		-706.7 -872.9
5368	1917.3	1563.8	L: 126294 PLTVLLEY 345 137451 LEEDS 3	345	2			-1353.2	-1725.0	-0.19389		-0.18082	-1281.0 -1627.7
			C:130750 COOPC345 345 147833 MARCY T1	345	1 196								
			Open 130750 COOPC345 345 147833 MARCY T1	345	1					0.09769	-0.13378		-739.1 -995.6
5372	1942.3	1581.9	L: 135452 LOCKPORT 115 135872 SOUR-111	115	1			93.6	159.0	0.03368		0.02623	75.1 126.0
			C:130754 KINTI345 345 149000 ROCH 345	345	1 205								
			Open 130754 KINTI345 345 149000 ROCH 345	345	1					0.03527	0.21118		524.7 934.8
5375	1951.8	1588.8	L: 135452 LOCKPORT 115 135876 TELRDTP1	115	1			104.1	180.0	0.03890		0.02608	86.2 137.1
			C:147834 NIAG 345 345 149000 ROCH 345	345	1 1226								
			Open 147834 NIAG 345 345 149000 ROCH 345	345	1					0.04231	0.30305		422.3 1013.8
5380	1957.4	1592.9	*L: 126294 PLTVLLEY 345 137451 LEEDS 3	345	2			-1344.5	-1725.0	-0.19440		-0.18082	-1281.0 -1635.0
			C:130750 COOPC345 345 146754 MDTN TAP	345	1 195								
			Open 130750 COOPC345 345 146754 MDTN TAP	345	1					-0.07257	0.18714		874.1 1240.4
5395	1989.1	1615.9	L: 130757 WATRC345 345 130768 WATRC230	230	1			455.1	600.0	0.07284		-0.07641	257.6 105.6
			C:130755 OAKDL345 345 130757 WATRC345	345	1 206								
			Open 130755 OAKDL345 345 130757 WATRC345	345	1					-0.74956	-0.19912		-263.5 -659.6
5396	1991.6	1617.7	L: 146771 SHOEM138 138 146772 SHOEMTAP	138	1			-544.9	-707.0	-0.08139		-0.05021	-448.0 -548.0
			C:125001 ROCK TAV 345 146754 MDTN TAP	345	1 9								
			Open 125001 ROCK TAV 345 146754 MDTN TAP	345	1					0.22773	-0.13693		-425.4 -698.1

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5407	2014.0	1634.0	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	71.0	153.0	0.04071	0.02730	52.3	107.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04425	0.30305	422.3	1032.6
5440	2039.1	1652.2	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	90.3	159.0	0.03368	0.02623	71.8	125.3
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03527	0.21118	524.7	955.3
6906	2064.9	1671.0	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	98.3	180.0	0.03958	0.02654	80.1	134.9
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04302	0.30305	422.3	1048.0
6932	2065.8	1671.7	L: Interface 14 Leeds-PV					2662.9	3450.0	0.38101	0.35290	2522.1	3251.1
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			0.18272	0.18714	874.1	1260.7
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.04443	-0.13693	-425.4	-708.2
6985	2068.8	1673.9	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1082.7	-1703.0	-0.29983	-0.22425	-997.1	-1461.0
			C:130753 FRASR345	345	147831 GILB 345	345	1 203						
			Open 130753 FRASR345	345	147831 GILB 345	345	1			-0.39383	0.19192	217.4	614.5
6987	2069.0	1674.0	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1214.0	-1724.0	-0.24648	-0.17322	-858.5	-1216.9
			C:BUS:N.S._77				1614						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.60779	-0.04435	-248.0	-339.8
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.40443	0.00052	111.8	112.8
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.33531	0.17137	819.4	1174.0
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.26699	-0.04104	-92.7	-177.6
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.20561	0.00000	-0.0	-0.0
7066	2077.7	1680.3	L: 130836 N.WAV115	115	131018 LOUN5115	115	1	50.2	173.0	0.05909	0.03792	22.2	101.0
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.10628	-0.19912	-263.5	-677.3
7074	2079.8	1681.8	L: Interface 14 Leeds-PV					2663.0	3450.0	0.37840	0.35290	2522.1	3256.0
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			-0.19065	-0.13378	-739.1	-1017.4
7091	2086.6	1686.7	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	192.0	280.0	0.04216	0.02697	170.9	227.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.05011	0.30305	422.3	1054.6
7104	2097.0	1694.4	L: 146758 CHESTER	138	146773 SGRLF138	138	1	202.6	317.0	0.05456	0.03009	126.6	189.7
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1 9						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.17871	-0.13693	-425.4	-712.5
7121	2113.3	1706.2	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-62.4	-129.0	-0.03150			
			Base Case										
7124	2119.4	1710.6	L: Interface 14 Leeds-PV					2645.9	3450.0	0.37941	0.35290	2522.1	3270.0
			C:130750 COOPC345	345	146754 MDTN TAP	345	1 195						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			0.14164	0.18714	874.1	1270.7
7125	2123.0	1713.2	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-238.5	-430.0	-0.09018			
			Base Case										
7126	2123.2	1713.4	L: 130815 HINMN115	115	131611 HARIS115	115	1	-218.9	-306.0	-0.04101	-0.02625	-198.4	-254.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04868	0.30305	422.3	1065.7
7139	2175.3	1751.2	L: Interface 14 Leeds-PV					2625.9	3450.0	0.37883	0.35290	2522.1	3289.8
			C:SER:PV_LM_398				1597						
			Open 103105 LONG MTN	345	103117 CTNY398	345	1			0.33673	0.07700	308.5	476.0

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			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1				-0.23700	0.00000	0.2	0.2		
7140	2175.4	1751.3	*L: Interface 14 Leeds-PV						2625.9	3450.0	0.37883		0.35290	2522.1	3289.8		
			C:103117 CTNY398	345	126294	PLTVLLEY	345	1	1362								
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1				0.33673	0.07700	308.3	475.8		
7145	2191.6	1763.0	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1				-84.5	-173.0	-0.04038	-0.03150	-62.4	-131.5
			C:130754 KINTI345	345	149000	ROCH	345	1	205								
			Open 130754 KINTI345	345	149000	ROCH	345	1						-0.04206	0.21118	524.7	987.5
7147	2193.2	1764.2	L: 130794 DELHI115	115	130851	SIDNT115	115	1				-35.8	-120.0	-0.03838	-0.02118	-2.0	-48.5
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200								
			Open 130753 FRASR345	345	130755	OAKDL345	345	1						0.05853	-0.29396	-577.5	-1222.2
7158	2223.3	1786.1	L: 130750 COOPC345	345	130753	FRASR345	345	1				-1147.3	-1703.0	-0.24996	-0.22425	-997.1	-1495.6
			C:137451 LEEDS 3	345	147831	GILB	345	1	1007								
			Open 137451 LEEDS 3	345	147831	GILB	345	1						0.16344	-0.15736	-918.9	-1268.7
7160	2233.2	1793.3	L: 130770 SHLDN230	230	131122	WTHRS230	230	1				228.6	430.0	0.09018			
			Base Case														
7161	2235.4	1794.9	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1				-1309.7	-1725.0	-0.18578	-0.17208	-1241.0	-1625.7
			C:SER:CMT34&MTR34						1593								
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1						-0.08910	0.18714	874.1	1292.4
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1						-0.02167	-0.13693	-425.4	-731.4
7162	2242.5	1800.0	L: 130764 MEYER230	230	131122	WTHRS230	230	1				-301.9	-540.0	-0.10618	-0.09018	-238.5	-440.8
			C:SER:HCWC/NWES						1607								
			Open 130757 WATRC345	345	200769	HOMER CY	345	1						0.11957	-0.12271	-543.5	-818.7
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1						0.03821	-0.03464	43.0	-34.7
7164	2250.5	1805.8	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1				-1309.8	-1725.0	-0.18451	-0.17208	-1241.0	-1628.3
			C:130750 COOPC345	345	147833	MARCY T1	345	1	196								
			Open 130750 COOPC345	345	147833	MARCY T1	345	1						0.09296	-0.13378	-739.1	-1040.2
7165	2250.7	1806.0	L: 135452 LOCKPORT	115	135876	TELRDTP1	115	1				104.6	180.0	0.03349	0.02608	86.2	144.9
			C:130754 KINTI345	345	149000	ROCH	345	1	205								
			Open 130754 KINTI345	345	149000	ROCH	345	1						0.03510	0.21118	524.7	1000.0
7168	2266.0	1817.1	L: 130764 MEYER230	230	131122	WTHRS230	230	1				-302.8	-540.0	-0.10469	-0.09018	-238.5	-442.9
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374								
			Open 130757 WATRC345	345	200769	HOMER CY	345	1						0.11819	-0.12271	-543.5	-821.6
7170	2269.8	1819.9	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1				448.0	562.0	0.05021			
			Base Case														
7175	2287.9	1833.0	L: 130764 MEYER230	230	131122	WTHRS230	230	1				-300.6	-540.0	-0.10465	-0.09018	-238.5	-444.9
			C:SER:HC-WC_30&W-F_171						1601								
			Open 130757 WATRC345	345	200769	HOMER CY	345	1						0.11761	-0.12271	-543.5	-824.3
			Open 135277 FALCONER	115	200579	WARREN	115	1						-0.05269	0.00060	-35.9	-34.5
7177	2289.7	1834.3	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1				-1301.4	-1725.0	-0.18500	-0.17208	-1241.0	-1635.0
			C:130750 COOPC345	345	146754	MDTN TAP	345	1	195								
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1						-0.06906	0.18714	874.1	1302.6
7181	2303.6	1844.4	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1				-1229.4	-1792.0	-0.24422	-0.18369	-916.1	-1339.2
			C:SIN:160						1670								
			Open 137200 EDIC	345	137452	N.SCOT77	345	1						-0.35322	0.17137	819.4	1214.2
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1						-0.19918	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246	VALLEY	115	1						-0.00023	-0.00018	74.8	74.4
7182	2303.6	1844.4	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1				-1229.4	-1792.0	-0.24422	-0.18369	-916.1	-1339.2
			C:SIN:150						1669								

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			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.35322	0.17137	819.4	1214.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19920	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			-0.00016	-0.00011	88.8	88.5
7183	2304.6	1845.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-577.5	-1255.0	-0.29396			
			Base Case										
7186	2313.1	1851.3	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	88.4	180.0	0.03958	0.02654	70.3	131.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04303	0.30305	422.3	1123.3
7191	2322.7	1858.3	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	71.6	153.0	0.03505	0.02730	52.3	115.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03671	0.21118	524.7	1015.2
7193	2329.2	1863.0	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	16.6	143.0	0.05427	0.03792	18.7	107.0
			C:BUS:WATERCURE_345					1632					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.05669	-0.12271	-543.5	-829.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.12286	-0.07641	257.6	79.6
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.05534	0.00000	22.4	22.4
7195	2333.5	1866.2	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1	-85.0	-180.0	-0.04072	-0.02731	-66.3	-130.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04426	0.30305	422.3	1129.5
7198	2336.1	1868.1	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	291.9	540.0	0.10618	0.09018	228.6	439.3
			C:SER:HCWC/NWES					1607					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11957	-0.12271	-543.5	-830.2
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.03821	-0.03464	43.0	-37.9
7201	2340.9	1871.5	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-63.3	-173.0	-0.04686	-0.03150	-41.9	-115.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05070	0.30305	422.3	1131.7
7207	2345.9	1875.1	*L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1291.7	-1725.0	-0.18472	-0.17208	-1241.0	-1644.7
			C:SER:PV_LM_398					1597					
			Open 103105 LONG MTN	345	103117 CTNY398	345	1			-0.16419	0.07700	308.5	489.1
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			0.11556	0.00000	0.2	0.2
7209	2346.5	1875.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-656.6	-1380.0	-0.30828	-0.29396	-577.5	-1267.3
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196					
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.10700	-0.13378	-739.1	-1053.1
7212	2348.0	1876.7	L: 130767 STOLE230	230	130770 SHLDN230	230	1	218.2	430.0	0.09018			
			Base Case										
7219	2353.9	1881.0	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1184.4	-1724.0	-0.22922	-0.17417	-863.0	-1273.0
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1007					
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34981	-0.15736	-918.9	-1289.3
7221	2357.0	1883.2	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	-3.7	-143.0	-0.05909	-0.03792	24.3	-65.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.10628	-0.19912	-263.5	-732.9
7224	2357.7	1883.8	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	703.6	1685.0	0.41627	0.30305	422.3	1136.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.53611	0.21118	524.7	1022.6
7227	2360.1	1885.5	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	-11.0	143.0	0.06525	0.03792	18.7	108.2
			C:BUS:WATERCURE_230					1633					
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.24198	0.05541	71.0	201.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.18211	-0.07641	257.6	77.2

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			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.12849	0.00000	0.5	0.5
7229	2361.0	1886.1	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	292.8	540.0	0.10469	0.09018	228.6	441.5
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11819	-0.12271	-543.5	-833.3
7233	2365.1	1889.1	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-14.7	-143.0	-0.05427	-0.03792	-16.7	-106.4
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.05669	-0.12271	-543.5	-833.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.12286	-0.07641	257.6	76.9
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.05534	0.00000	22.4	22.4
7242	2376.6	1897.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.30731	-0.29396	-577.5	-1276.1
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.18369	-916.1	-1352.6
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04702	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00061	-0.00011	88.8	88.5
7243	2376.6	1897.5	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.30731	-0.29396	-577.5	-1276.1
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.18369	-916.1	-1352.6
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04710	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00092	-0.00018	74.8	74.4
7247	2381.1	1900.7	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-54.4	-153.0	-0.04140	-0.02776	-35.4	-101.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04499	0.30305	422.3	1143.9
7248	2381.9	1901.3	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	98.8	180.0	0.03407	0.02654	80.1	143.3
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03569	0.21118	524.7	1027.7
7249	2383.0	1902.1	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	290.6	540.0	0.10465	0.09018	228.6	443.5
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11761	-0.12271	-543.5	-836.0
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.05269	0.00060	-35.9	-34.5
7250	2383.0	1902.1	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1180.0	-1724.0	-0.22829	-0.17322	-858.5	-1271.3
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34992	-0.15736	-918.9	-1293.9
7251	2385.6	1904.0	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-678.7	-1380.0	-0.29396	-0.29396	-577.5	-1278.8
			C:SIN:250				1677						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00002	0.00000	-0.1	-0.1
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
7257	2389.9	1907.1	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	12.9	-143.0	-0.06525	-0.03792	-16.7	-107.4
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.24198	0.05541	71.0	203.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.18211	-0.07641	257.6	75.0
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.12849	0.00000	0.5	0.5
7269	2402.4	1916.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-642.5	-1380.0	-0.30699	-0.29396	-577.5	-1283.7
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1 1012						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07092	-0.18369	-916.1	-1357.4
7281	2416.4	1926.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-640.6	-1380.0	-0.30600	-0.29396	-577.5	-1287.9
			C:SIN:150				1669						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.07027	0.17137	819.4	1233.5
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04606	0.00000	119.9	119.9

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			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00061	-0.00011	88.8	88.5
7282	2416.4	1926.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-640.6	-1380.0	-0.30600	-0.29396	-577.5	-1287.9
			C:SIN:160				1670						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.07027	0.17137	819.4	1233.5
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04614	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00092	-0.00018	74.8	74.4
7283	2418.3	1927.8	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	98.1	173.0	0.03097	0.03097	78.2	153.2
			C:GEN:GINNA				1562						
			Remove unit 1 from bus 149140 GINNA 19	19.0	605.0 MW	dispatch							
7284	2419.5	1928.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-668.8	-1380.0	-0.29396	-0.29396	-577.5	-1288.8
			C:GEN:SEAB&OMS				1575						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00002	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
7285	2419.5	1928.6*L:	130753 FRASR345	345	130755 OAKDL345	345	1	-668.8	-1380.0	-0.29396	-0.29396	-577.5	-1288.8
			C:GEN:SEABROOK				1573						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
7306	2427.2	1934.2	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-268.7	-540.0	-0.11179	-0.09018	-238.5	-457.4
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.07131	0.30305	422.3	1157.8
7322	2433.3	1938.7	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-50.8	-153.0	-0.04198	-0.02815	-31.6	-100.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04563	0.30305	422.3	1159.7
7325	2433.6	1938.9	L: 130767 STOLE230	230	130770 SHLDN230	230	1	281.6	540.0	0.10618	0.09018	218.2	437.7
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11957	-0.12271	-543.5	-842.2
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.03821	-0.03464	43.0	-41.3
7341	2438.8	1942.6	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1199.5	-1792.0	-0.24296	-0.18369	-916.1	-1364.1
			C:137200 EDIC	345	137452 N.SCOT77	345	1	946					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.34586	0.17137	819.4	1237.4
7359	2442.4	1945.3	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	192.7	280.0	0.03575	0.02697	170.9	236.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04157	0.21118	524.7	1040.5
7484	2450.6	1951.3	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	88.0	173.0	0.03467	0.03097	78.2	154.2
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221					
			Open 130764 MEYER230	230	131122 WTHRS230	230	1			-0.04101	-0.09018	-238.5	-459.6
8660	2457.5	1956.2	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	29.3	143.0	0.04625	0.03792	18.7	111.9
			C:130768 WATRC230	230	130772 SHRED230	230	1	227					
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.15025	0.05541	71.0	207.2
8750	2459.9	1958.0	L: 130767 STOLE230	230	130770 SHLDN230	230	1	282.5	540.0	0.10469	0.09018	218.2	440.1
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11819	-0.12271	-543.5	-845.4
8768	2460.9	1958.7	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	18.7	112.0	0.03792			
			Base Case										
8792	2462.0	1959.5	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	76.3	173.0	0.03926	0.03097	78.2	154.5
			C:130754 KINTI345	345	147834 NIAG 345	345	1	204					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.04136	-0.20028	46.0	-447.1
8796	2462.4	1959.8	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	87.6	173.0	0.03467	0.03097	78.2	154.5
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228					

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			Open 130770 SHLDN230	230	131122	WTHRS230	230	1			0.04101	0.09018	228.6	450.7
8843	2468.1	1963.9	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	195.5	280.0	0.03425	0.02697	170.9	237.4
			C:130766 ROBIN230	230	130767	STOLE230	230	1	224					
			Open 130766 ROBIN230	230	130767	STOLE230	230	1			0.26884	0.02708	91.5	158.3
8844	2468.2	1964.0	L: 137200 EDIC	345	137452	N.SCOT77	345	1	1149.2	1724.0	0.23290	0.17137	819.4	1242.4
			C:SIN:170					1671						
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1			-0.33494	-0.18369	-916.1	-1369.5
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1			0.19090	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246	VALLEY	115	1			0.00024	-0.00018	74.8	74.4
8845	2468.2	1964.0	L: 137200 EDIC	345	137452	N.SCOT77	345	1	1149.2	1724.0	0.23290	0.17137	819.4	1242.4
			C:SIN:180					1672						
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1			-0.33494	-0.18369	-916.1	-1369.5
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1			0.19092	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905	ILION	115	1			0.00016	-0.00011	88.8	88.5
8856	2470.7	1965.9	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1	544.9	746.0	0.08139	0.05021	448.0	572.1
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	9					
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1			-0.22773	-0.13693	-425.4	-763.7
8862	2472.3	1967.0	L: 131018 LOUNSI115	115	131850	CNYOG115	115	1	28.7	143.0	0.04625	0.03792	18.7	112.4
			C:SER:OAKDALE_WATRC230					1594						
			Open 130768 WATRC230	230	130772	SHRED230	230	1			0.15025	0.05541	71.0	208.0
			Open 130765 OAKDL230	230	130772	SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			-0.10162	0.00000	6.8	6.8
8876	2474.6	1968.7	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	87.2	173.0	0.03467	0.03097	78.2	154.9
			C:130767 STOLE230	230	130770	SHLDN230	230	1	226					
			Open 130767 STOLE230	230	130770	SHLDN230	230	1			0.04101	0.09018	218.2	441.4
8885	2478.6	1971.6	L: 131018 LOUNSI115	115	131850	CNYOG115	115	1	28.4	143.0	0.04625	0.03792	18.7	112.7
			C:130765 OAKDL230	230	130772	SHRED230	230	1	222					
			Open 130765 OAKDL230	230	130772	SHRED230	230	1			-0.15025	-0.05541	-64.5	-201.9
8892	2479.4	1972.2	L: 131018 LOUNSI115	115	131850	CNYOG115	115	1	28.3	143.0	0.04625	0.03792	18.7	112.7
			C:130765 OAKDL230	230	130838	OAKDL115	115	1	223					
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			0.15025	0.05541	64.3	201.6
8896	2481.9	1974.0	L: 130767 STOLE230	230	130770	SHLDN230	230	1	280.3	540.0	0.10465	0.09018	218.2	442.1
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.11761	-0.12271	-543.5	-848.1
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.05269	0.00060	-35.9	-34.4
8907	2485.1	1976.3	L: 130815 HINMN115	115	131611	HARIS115	115	1	-219.6	-306.0	-0.03478	-0.02625	-198.4	-263.6
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			-0.04038	0.21118	524.7	1049.5
8924	2494.4	1983.1	L: 131018 LOUNSI115	115	131850	CNYOG115	115	1	47.6	143.0	0.03825	0.03792	18.7	113.3
			C:130755 OAKDL345	345	131128	LAPEER	345	1	209					
			Open 130755 OAKDL345	345	131128	LAPEER	345	1			-0.05020	-0.00662	-575.7	-592.2
8932	2499.6	1986.8	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-27.4	-143.0	-0.04625	-0.03792	-16.7	-111.5
			C:130768 WATRC230	230	130772	SHRED230	230	1	227					
			Open 130768 WATRC230	230	130772	SHRED230	230	1			-0.15025	0.05541	71.0	209.5
8951	2512.3	1996.1	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-16.7	-112.0	-0.03792			
			Base Case											
8952	2512.6	1996.3	L: 130815 HINMN115	115	131611	HARIS115	115	1	-222.3	-306.0	-0.03333	-0.02625	-198.4	-264.3
			C:130766 ROBIN230	230	130767	STOLE230	230	1	224					

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			Open 130766 ROBIN230	230	130767 STOLE230	230	1				-0.26115	0.02708	91.5	159.5
8954	2513.7	1997.1	L: 131018 LOUNSD230	115	131850 CNYOG115	115	1	-18.5	143.0	0.06423		0.03792	18.7	114.0
			C:130763 HILSD230	230	130768 WATRC230	230	1							
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.19959	0.13182	-186.1	145.3
8955	2514.5	1997.6	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.7	-143.0	-0.04625		-0.03792	-16.7	-112.1
			C:SER:OAKDALE_WATRC230											1594
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.15025	0.05541	71.0	210.4
			Open 130765 OAKDL230	230	130772 SHRED230	230	1						NA	
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.10162	0.00000	6.8	6.8
8960	2516.2	1998.9	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	258.7	540.0	0.11179		0.09018	228.6	455.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							1226
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.07131	0.30305	422.3	1184.8
8962	2516.6	1999.2	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	196.5	383.0	0.07411		0.05972	134.5	284.8
			C:SER:HCWC/NWES											1607
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11471	-0.12271	-543.5	-852.4
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.00924	-0.03464	43.0	-44.2
8969	2520.7	2002.2	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.04625		-0.03792	-16.7	-112.3
			C:130765 OAKDL230	230	130772 SHRED230	230	1							222
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				0.15025	-0.05541	-64.5	-204.2
8972	2521.6	2002.8	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.04625		-0.03792	-16.7	-112.4
			C:130765 OAKDL230	230	130838 OAKDL115	115	1							223
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				-0.15025	0.05541	64.3	204.0
8973	2521.9	2003.1	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	94.9	173.0	0.03097		0.03097	78.2	156.4
			C:GEN:9 MI PT2											1561
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW									dispatch
8975	2522.2	2003.3	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1095.5	-1703.0	-0.24087		-0.22425	-997.1	-1562.7
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1							3
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1				0.10944	-0.15186	-899.2	-1282.2
8980	2525.0	2005.3	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-195.9	-383.0	-0.07411		-0.05972	-133.9	-284.7
			C:SER:HCWC/NWES											1607
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11471	-0.12271	-543.5	-853.4
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00924	-0.03464	43.0	-44.5
8983	2526.0	2006.1	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	196.7	383.0	0.07375		0.05972	134.5	285.4
			C:130757 WATRC345	345	200769 HOMER CY	345	1							1374
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11437	-0.12271	-543.5	-853.5
8996	2534.5	2012.2	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-196.1	-383.0	-0.07375		-0.05972	-133.9	-285.3
			C:130757 WATRC345	345	200769 HOMER CY	345	1							1374
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11437	-0.12271	-543.5	-854.5
8998	2537.2	2014.2	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1097.9	-1703.0	-0.23848		-0.22425	-997.1	-1566.0
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2							120
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				0.07872	-0.18082	-1281.0	-1739.8
9004	2544.1	2019.2	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	20.4	-143.0	-0.06423		-0.03792	-16.7	-113.2
			C:130763 HILSD230	230	130768 WATRC230	230	1							219
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.19959	0.13182	-186.1	149.3
9007	2545.4	2020.1	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-45.6	-143.0	-0.03825		-0.03792	-16.7	-113.3
			C:130755 OAKDL345	345	131128 LAPEER	345	1							209
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				0.05020	-0.00662	-575.7	-592.6
9017	2550.1	2023.5	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	195.0	383.0	0.07372		0.05972	134.5	286.8

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			C:SER:HC-WC_30&W-F_171				1601								
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11393	-0.12271	-543.5	-856.5		
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.04046	0.00060	-35.9	-34.4		
9025	2558.5	2029.6	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1			-194.4	-383.0	-0.07372	-0.05972	-133.9	-286.7
			C:SER:HC-WC_30&W-F_171				1601								
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.11393	-0.12271	-543.5	-857.5		
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.04046	0.00060	-35.9	-34.4		
9029	2562.2	2032.4	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1			85.7	173.0	0.03406	0.03097	78.2	157.6
			C:135850 SOUR-114	115	135876 TELRDTP1	115	1	673							
			Open 135850 SOUR-114	115	135876 TELRDTP1	115	1			-0.11295	-0.02731	-66.3	-136.3		
9032	2564.5	2034.0	*L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1			93.5	173.0	0.03098	0.03097	78.2	157.7
			C:HQ-NY-765-New				1778								
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA							
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA							
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.00935	0.00039	624.7	625.7		
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.00935	0.00034	543.6	544.5		
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA							
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.00036	10.3	9.4		
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA							
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.00431	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA							
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA							
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA							
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch								
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch								
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch								
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch								
9036	2566.8	2035.7	L: 130815 HINMN115	115	135452 LOCKPORT	115	1			191.1	280.0	0.03463	0.02697	170.9	240.1
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221							
			Open 130764 MEYER230	230	131122 WTHRS230	230	1			-0.08488	-0.09018	-238.5	-470.0		
9040	2569.3	2037.5	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1			73.5	159.0	0.03330	0.02623	75.1	142.5
			C:130754 KINTI345	345	147834 NIAG 345	345	1	204							
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.03527	-0.20028	46.0	-468.6		
9041	2569.7	2037.8	L: 130750 COOPC345	345	130753 FRASR345	345	1			-1092.7	-1703.0	-0.23750	-0.22425	-997.1	-1573.3
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	121							
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1			0.07704	-0.17208	-1241.0	-1683.2		
9061	2580.9	2045.9	L: 135452 LOCKPORT	115	135876 TELRDTP1	115	1			100.5	180.0	0.03081	0.02608	86.2	153.5
			C:135452 LOCKPORT	115	135851 SHEL-113	115	1	596							
			Open 135452 LOCKPORT	115	135851 SHEL-113	115	1			0.17825	0.02654	80.1	148.6		
9071	2591.2	2053.4	L: 130815 HINMN115	115	135452 LOCKPORT	115	1			190.3	280.0	0.03463	0.02697	170.9	240.8
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228							
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1			0.08488	0.09018	228.6	462.3		
9092	2602.0	2061.2	L: 130750 COOPC345	345	130753 FRASR345	345	1			-1083.6	-1703.0	-0.23807	-0.22425	-997.1	-1580.6
			C:BUS:N.S._99				1615								
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			0.12460	-0.03456	-310.7	-400.6		
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.04425	-0.18369	-916.1	-1394.0		
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			-0.00286	0.00067	118.7	120.4		
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.00800	-0.17322	-858.5	-1309.2		

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				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.01512	0.00000	1.6	1.6
9113	2608.8	2066.2	L:	130767 STOLE230	230	130770 SHLDN230	230	1	248.4	540.0	0.11179		0.09018	218.2	453.5
			C:	147834 NIAG 345	345	149000 ROCH 345	345	1 1226							
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.07131	0.30305	422.3	1212.9
9116	2609.1	2066.4	L:	137200 EDIC	345	137452 N.SCOT77	345	1	1119.7	1724.0	0.23160		0.17137	819.4	1266.6
			C:	137453 N.SCOT99	345	147833 MARCY T1	345	1 1012							
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.32784	-0.18369	-916.1	-1395.3
9123	2610.7	2067.6	L:	130815 HINMN115	115	131611 HARIS115	115	1	-218.0	-306.0	-0.03369		-0.02625	-198.4	-266.9
			C:	130764 MEYER230	230	131122 WTHRS230	230	1 221							
				Open 130764 MEYER230	230	131122 WTHRS230	230	1				0.08245	-0.09018	-238.5	-474.0
9147	2616.6	2071.8	L:	130815 HINMN115	115	135452 LOCKPORT	115	1	189.4	280.0	0.03463		0.02697	170.9	241.4
			C:	130767 STOLE230	230	130770 SHLDN230	230	1 226							
				Open 130767 STOLE230	230	130770 SHLDN230	230	1				0.08488	0.09018	218.2	454.2
10523	2633.8	2084.3	L:	130764 MEYER230	230	131122 WTHRS230	230	1	-269.6	-540.0	-0.10268		-0.09018	-238.5	-476.1
			C:	130754 KINTI345	345	149000 ROCH 345	345	1 205							
				Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.05915	0.21118	524.7	1080.9
10554	2635.0	2085.3	L:	130815 HINMN115	115	131611 HARIS115	115	1	-217.2	-306.0	-0.03369		-0.02625	-198.4	-267.6
			C:	130770 SHLDN230	230	131122 WTHRS230	230	1 228							
				Open 130770 SHLDN230	230	131122 WTHRS230	230	1				-0.08245	0.09018	228.6	466.2
10678	2653.3	2098.5	L:	130764 MEYER230	230	131122 WTHRS230	230	1	-303.1	-540.0	-0.08928		-0.09018	-238.5	-477.8
			C:	BUS:WATERCURE_345				1632							
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.06555	-0.12271	-543.5	-869.1
				Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.11714	-0.07641	257.6	54.8
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.05467	0.00000	22.4	22.4
10693	2658.5	2102.3	L:	137200 EDIC	345	137452 N.SCOT77	345	1	1117.4	1724.0	0.22818		0.17137	819.4	1275.0
			C:	BUS:N.S._99				1615							
				Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.18532	-0.03456	-310.7	-402.6
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.38312	-0.18369	-916.1	-1404.4
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.09741	0.00067	118.7	120.5
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.11491	-0.17322	-858.5	-1319.0
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.24148	0.00000	1.6	1.6
10701	2660.4	2103.7	L:	130815 HINMN115	115	131611 HARIS115	115	1	-216.4	-306.0	-0.03369		-0.02625	-198.4	-268.2
			C:	130767 STOLE230	230	130770 SHLDN230	230	1 226							
				Open 130767 STOLE230	230	130770 SHLDN230	230	1				-0.08245	0.09018	218.2	458.2
10711	2667.2	2108.6	L:	135872 SOUR-111	115	135873 SWDN-111	115	1	70.2	159.0	0.03330		0.02623	71.8	141.8
			C:	130754 KINTI345	345	147834 NIAG 345	345	1 204							
				Open 130754 KINTI345	345	147834 NIAG 345	345	1				-0.03527	-0.20028	46.0	-488.2
10715	2670.2	2110.8	L:	135851 SHEL-113	115	135874 SWDN-113	115	1	89.0	180.0	0.03408		0.02654	70.3	141.1
			C:	130754 KINTI345	345	149000 ROCH 345	345	1 205							
				Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03569	0.21118	524.7	1088.6
10741	2682.9	2120.0	L:	137451 LEEDS 3	345	147831 GILB 345	345	1	-1318.9	-1912.0	-0.22107		-0.15736	-918.9	-1341.1
			C:	BUS:N.S._99				1615							
				Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.62614	-0.03456	-310.7	-403.4
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.16124	-0.18369	-916.1	-1408.9
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.03268	0.00067	118.7	120.5
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.07201	-0.17322	-858.5	-1323.2
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.10439	0.00000	1.6	1.6
10749	2685.7	2122.1	L:	130750 COOPC345	345	130753 FRASR345	345	1	-1063.9	-1703.0	-0.23797		-0.22425	-997.1	-1599.3

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			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1												
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1						-0.10131	0.13549	659.3	1023.2				
10752	2687.0	2123.0	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1						-863.0	-1331.0	-0.17417					
			Base Case																	
10766	2691.4	2126.2	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1						1692.2	2283.0	0.21951		0.22545	1114.8	1721.6	
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10												
			Open 125002 ROSETON	345	126281 FISHKILL	345	1										0.38330	-0.01548	1506.4	1464.7
10767	2691.4	2126.2	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1						1692.2	2283.0	0.21951		0.22545	1114.8	1721.6	
			C:SIN:430					1682												
			Open 125002 ROSETON	345	126281 FISHKILL	345	1										0.38330	-0.01548	1506.4	1464.7
10775	2693.8	2128.0	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1						-85.6	-180.0	-0.03506		-0.02731	-66.3	-139.9	
			C:130754 KINTI345	345	149000 ROCH	345	1	205												
			Open 130754 KINTI345	345	149000 ROCH	345	1													
10791	2700.5	2132.8	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1						-64.0	-173.0	-0.04038		-0.03150	-41.9	-126.9	
			C:130754 KINTI345	345	149000 ROCH	345	1	205												
			Open 130754 KINTI345	345	149000 ROCH	345	1													
10816	2707.6	2137.9	L: 130764 MEYER230	230	131122 WTHRS230	230	1						-252.5	-540.0	-0.10618		-0.09018	-238.5	-482.7	
			C:LKWANA-OXBW					1651												
			Open 417 OXBOW	230	3070 LACKAWNA	230	1										0.11664	-0.13714	-119.7	-491.1
11054	2727.9	2152.7	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1						-448.0	-585.0	-0.05021					
			Base Case																	
11055	2727.9	2152.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2						-858.5	-1331.0	-0.17322					
			Base Case																	
12118	2730.6	2154.7	L: 130770 SHLDN230	230	131122 WTHRS230	230	1						259.6	540.0	0.10268		0.09018	228.6	474.9	
			C:130754 KINTI345	345	149000 ROCH	345	1	205												
			Open 130754 KINTI345	345	149000 ROCH	345	1													
12435	2749.1	2168.1	L: 135861 MORTIMER	115	135873 SWDN-111	115	1						-55.0	-153.0	-0.03564		-0.02776	-35.4	-111.7	
			C:130754 KINTI345	345	149000 ROCH	345	1	205												
			Open 130754 KINTI345	345	149000 ROCH	345	1													
12443	2751.6	2169.9	*L: 131018 LOUNS115	115	131850 CNYOG115	115	1						39.7	143.0	0.03754		0.03792	18.7	123.0	
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392												
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1													
12480	2764.2	2179.1	L: 130750 COOPC345	345	130753 FRASR345	345	1						-1051.1	-1703.0	-0.23582		-0.22425	-997.1	-1616.9	
			C:BUS:N.S._77					1614												
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1													
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1													
			Open 137200 EDIC	345	137452 N.SCOT77	345	1													
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1													
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1													
12481	2764.7	2179.5	L: 130770 SHLDN230	230	131122 WTHRS230	230	1						293.2	540.0	0.08928		0.09018	228.6	477.9	
			C:BUS:WATERCURE_345					1632												
			Open 130757 WATRC345	345	200769 HOMER CY	345	1													
			Open 130757 WATRC345	345	130768 WATRC230	230	1													
			Open 130755 OAKDL345	345	130757 WATRC345	345	1													
12484	2765.5	2180.0	L: 130836 N.WAV115	115	131018 LOUNS115	115	1						-7.4	173.0	0.06525		0.03792	22.2	127.1	
			C:BUS:WATERCURE_230					1633												
			Open 130768 WATRC230	230	130772 SHRED230	230	1													
			Open 130757 WATRC345	345	130768 WATRC230	230	1													

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			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.12849	0.00000	0.5	0.5
12485	2765.7	2180.2	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-41.9	-129.0	-0.03150			
			Base Case										
12492	2767.6	2181.5	L: 130753 FRASR345	345	137200 EDIC	345	1	-886.4	-1380.0	-0.17836	-0.08691	-706.7	-947.3
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			0.31108	-0.29396	-577.5	-1391.1
12499	2771.1	2184.1	L: Interface 35 NY-PJM					-2394.6	-3114.0	-0.25959	-0.25959	-1498.2	-2217.5
			C:GEN:SEAB&OMS				1575						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00004	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
12500	2771.1	2184.1	L: Interface 19 PJM-NY					2394.6	3114.0	0.25959	0.25959	1498.2	2217.5
			C:GEN:SEAB&OMS				1575						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
12501	2771.1	2184.1	L: Interface 19 PJM-NY					2394.6	3114.0	0.25959	0.25959	1498.2	2217.5
			C:GEN:SEABROOK				1573						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
12502	2771.1	2184.1	L: Interface 35 NY-PJM					-2394.6	-3114.0	-0.25959	-0.25959	-1498.2	-2217.5
			C:GEN:SEABROOK				1573						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
12505	2775.5	2187.3	L: 130787 CODNT115	115	130830 MONTR115	115	1	-6.1	-144.0	-0.04968	-0.03332	15.5	-77.0
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.08214	-0.19912	-263.5	-816.2
12516	2780.6	2191.0	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	92.3	180.0	0.03155	0.02654	80.1	153.9
			C:135850 SOUR-114	115	135876 TELRDTF1	115	1 673						
			Open 135850 SOUR-114	115	135876 TELRDTF1	115	1			-0.18349	-0.02731	-66.3	-142.2
12528	2783.5	2193.1	L: 130794 DELHI115	115	130838 OAKDL115	115	1	-76.3	-179.0	-0.03688	-0.01954	-42.2	-96.6
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			0.05902	-0.29396	-577.5	-1395.8
12532	2785.8	2194.8	L: 136150 CLAY	345	137200 EDIC	345	2	766.3	1434.0	0.23966	0.18035	576.6	1079.1
			C:136150 CLAY	345	137200 EDIC	345	1 715						
			Open 136150 CLAY	345	137200 EDIC	345	1			0.33000	0.17974	574.8	1075.6
12540	2787.5	2196.0	L: Interface 35 NY-PJM					-2390.4	-3114.0	-0.25959	-0.25959	-1498.2	-2221.8
			C:SIN:250				1677						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00004	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
12541	2787.5	2196.0	L: Interface 19 PJM-NY					2390.4	3114.0	0.25959	0.25959	1498.2	2221.8
			C:SIN:250				1677						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
12605	2799.0	2204.4	L: 136150 CLAY	345	137200 EDIC	345	1	764.7	1434.0	0.23913	0.17974	574.8	1077.9
			C:136150 CLAY	345	137200 EDIC	345	2 716						
			Open 136150 CLAY	345	137200 EDIC	345	2			0.32927	0.18035	576.6	1081.4
12618	2801.2	2206.0	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	242.6	540.0	0.10618	0.09018	228.6	481.2
			C:LKWANA-OXBW				1651						
			Open 417 OXBOW	230	3070 LACKAWNA	230	1			-0.11664	-0.13714	-119.7	-503.9
12642	2803.5	2207.6	*L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-37.8	-143.0	-0.03754	-0.03792	-16.7	-123.0
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1 392						

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			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				0.03223	0.01186	-652.6	-619.3	
12735	2807.7	2210.7	L: 130768 WATRC230	230	130772 SHRED230	230	1	139.4	440.0	0.10707		0.05541	71.0	226.6	
			C:130755 OAKDL345	345	130757 WATRC345	345	1								
			Open 130755 OAKDL345	345	130757 WATRC345	345	1								
12785	2809.8	2212.2	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-51.4	-153.0	-0.03615		-0.25941	-0.19912	-263.5	-822.6
			C:130754 KINTI345	345	149000 ROCH	345	1								
			Open 130754 KINTI345	345	149000 ROCH	345	1								
13991	2816.6	2217.2	L: 130836 N.WAV115	115	131018 LOUN5115	115	1	20.2	173.0	0.05427		-0.03785	0.21118	524.7	1118.0
			C:BUS:WATERCURE_345												
			Open 130757 WATRC345	345	200769 HOMER CY	345	1								
			Open 130757 WATRC345	345	130768 WATRC230	230	1								
			Open 130755 OAKDL345	345	130757 WATRC345	345	1								
14021	2818.0	2218.2	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-60.5	-173.0	-0.03992		-0.05534	0.00000	22.4	22.4
			C:130754 KINTI345	345	147834 NIAG	345	1								
			Open 130754 KINTI345	345	147834 NIAG	345	1								
14098	2825.7	2223.8	L: 130754 KINTI345	345	149000 ROCH	345	1	710.8	1685.0	0.34476		0.04206	-0.20028	46.0	-518.4
			C:147834 NIAG	345	149000 ROCH	345	1								
			Open 147834 NIAG	345	149000 ROCH	345	1								
14118	2830.6	2227.3	L: Interface	32	F-To-G			4205.5	6118.0	0.67567		0.44079	0.30305	422.3	1278.6
			C:130750 COOPC345	345	130753 FRASR345	345	1								
			Open 130750 COOPC345	345	130753 FRASR345	345	1								
14130	2831.4	2227.9	L: 130767 STOLE230	230	130770 SHLDN230	230	1	249.3	540.0	0.10268		0.56498	0.09018	218.2	473.6
			C:130754 KINTI345	345	149000 ROCH	345	1								
			Open 130754 KINTI345	345	149000 ROCH	345	1								
14134	2831.7	2228.1	*L: 130750 COOPC345	345	130753 FRASR345	345	1	-1030.5	-1703.0	-0.23750		0.05915	0.21118	524.7	1122.6
			C:137451 LEEDS 3	345	137455 ATHENS	345	1								
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1								
14136	2832.8	2228.9	L: Interface	19	PJM-NY			2378.6	3114.0	0.25959		0.21118	0.25959	433.3	920.6
			C:GEN:MILLST 3												
			Remove unit 3	from bus	103563 MILL#3	24.0	1276.0								
14137	2832.8	2228.9	L: Interface	19	PJM-NY			2378.6	3114.0	0.25959		0.56498	0.25959	1498.2	2233.6
			C:GEN:MLS3&OMS												
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2								
			Remove unit 3	from bus	103563 MILL#3	24.0	1276.0								
14138	2832.8	2228.9	L: Interface	35	NY-PJM			-2378.6	-3114.0	-0.25959		-0.00004	0.00000	-0.1	-0.1
			C:GEN:MLS3&OMS												
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2								
			Remove unit 3	from bus	103563 MILL#3	24.0	1276.0								
14139	2832.8	2228.9	L: Interface	35	NY-PJM			-2378.6	-3114.0	-0.25959		-0.00004	0.00000	-0.1	-0.1
			C:GEN:MILLST 3												
			Remove unit 3	from bus	103563 MILL#3	24.0	1276.0								
14186	2853.7	2244.1	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-72.4	-173.0	-0.03526		-0.25959	-0.25959	-1498.2	-2233.6
			C:130764 MEYER230	230	131122 WTHRS230	230	1								
			Open 130764 MEYER230	230	131122 WTHRS230	230	1								
14199	2859.1	2248.0	L: 130753 FRASR345	345	147831 GILB	345	1	678.7	1524.0	0.29566		0.04170	-0.09018	-238.5	-495.9
			C:130750 COOPC345	345	130753 FRASR345	345	1								
			Open 130750 COOPC345	345	130753 FRASR345	345	1								
14203	2865.4	2252.6	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-72.0	-173.0	-0.03526		-0.46262	-0.22425	-997.1	-1638.2

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				C:130770 SHLDN230	230	131122	WTHRS230	230	1	228										
				Open 130770 SHLDN230	230	131122	WTHRS230	230	1					-0.04170	0.09018	228.6	487.0			
14210	2868.4	2254.8	L:	130765 OAKDL230	230	130772	SHRED230	230	1					-132.9	-440.0	-0.10707		-0.05541	-64.5	-223.5
				C:130755 OAKDL345	345	130757	WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757	WATRC345	345	1											
14212	2869.5	2255.6	L:	135862 MUMFORD1	115	135866	NLEROYTA	115	1					-82.6	-173.0	-0.03150		-0.03150	-62.4	-152.8
				C:GEN:GINNA						1562										
				Remove unit 1 from bus 149140 GINNA 19	19.0	605.0	MW	dispatch												
14213	2870.9	2256.6	L:	130765 OAKDL230	230	130838	OAKDL115	115	1					132.6	440.0	0.10707		0.05541	64.3	223.3
				C:130755 OAKDL345	345	130757	WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757	WATRC345	345	1											
14215	2874.0	2258.8	L:	135861 MORTIMER	115	136213	LAWLER-2	115	1					63.6	159.0	0.03320		0.02322	37.1	103.8
				C:135860 LAWLER-1	115	135861	MORTIMER	115	1	689										
				Open 135860 LAWLER-1	115	135861	MORTIMER	115	1											
14218	2877.7	2261.5	L:	135862 MUMFORD1	115	135866	NLEROYTA	115	1					-71.5	-173.0	-0.03526		-0.03150	-62.4	-153.1
				C:130767 STOLE230	230	130770	SHLDN230	230	1	226										
				Open 130767 STOLE230	230	130770	SHLDN230	230	1											
14222	2880.7	2263.7	L:	130767 STOLE230	230	130770	SHLDN230	230	1					282.8	540.0	0.08928		0.09018	218.2	477.8
				C:BUS:WATERCURE_345						1632										
				Open 130757 WATRC345	345	200769	HOMER CY	345	1											
				Open 130757 WATRC345	345	130768	WATRC230	230	1											
				Open 130755 OAKDL345	345	130757	WATRC345	345	1											
14224	2881.7	2264.4	L:	135452 LOCKPORT	115	135876	TELRDTP1	115	1					84.6	180.0	0.03311		0.02608	86.2	161.4
				C:130754 KINTI345	345	147834	NIAG 345	345	1	204										
				Open 130754 KINTI345	345	147834	NIAG 345	345	1											
14245	2898.7	2276.8	L:	130767 STOLE230	230	130770	SHLDN230	230	1					232.2	540.0	0.10618		0.09018	218.2	479.7
				C:LKWANA-OXBW						1651										
				Open 417 OXBOW	230	3070	LACKAWNA	230	1											
14247	2899.6	2277.5	L:	147834 NIAG 345	345	149000	ROCH 345	345	1					422.3	1301.0	0.30305				
				Base Case																
14268	2925.5	2296.3	L:	130836 N.WAV115	115	131018	LOUN115	115	1					-14.9	173.0	0.06423		0.03792	22.2	133.2
				C:130763 HILSD230	230	130768	WATRC230	230	1	219										
				Open 130763 HILSD230	230	130768	WATRC230	230	1											
14272	2931.6	2300.7	L:	130807 GOUDY115	115	130838	OAKDL115	115	1					-37.8	239.0	0.09442		0.06633	-75.0	119.5
				C:130755 OAKDL345	345	130757	WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757	WATRC345	345	1											
14295	2954.0	2317.0	L:	135850 SOUR-114	115	135861	MORTIMER	115	1					50.6	153.0	0.03465		0.02730	52.3	133.0
				C:130754 KINTI345	345	147834	NIAG 345	345	1	204										
				Open 130754 KINTI345	345	147834	NIAG 345	345	1											
14297	2956.9	2319.1	L:	130764 MEYER230	230	131343	MEYER M4	34.5	1					169.2	336.0	0.05641		0.03047	110.7	200.8
				C:130751 CNDGUA_T	230	130761	AVOCA230	230	1	197										
				Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1											
14298	2957.0	2319.2	L:	130764 MEYER230	230	131343	MEYER M4	34.5	1					169.2	336.0	0.05641		0.03047	110.7	200.8
				C:SER:MEYER_HILLSD_68						1604										
				Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1											
				Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1											
14299	2957.9	2319.9	L:	130764 MEYER230	230	131343	MEYER M4	34.5	1					169.1	336.0	0.05641		0.03047	110.7	200.8
				C:130761 AVOCA230	230	131154	STONY RIDGE	230	1	216										

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			Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1				0.43445	0.05972	134.5	311.2
14300	2962.7	2323.3	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1	168.9	336.0	0.05641		0.03047	110.7	201.0
			C:130763 HILSD230	230	131154	STONY RIDGE	230	1	220						
			Open 130763 HILSD230	230	131154	STONY RIDGE	230	1				-0.43445	-0.05972	-133.9	-310.8
14309	2971.1	2329.4	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1	-1120.1	-1792.0	-0.22615		-0.18369	-916.1	-1461.8
			C:BUS:N.S._77											1614	
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				-0.09196	-0.04435	-248.0	-379.8
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1				0.02619	0.00052	111.8	113.3
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.28820	0.17137	819.4	1328.6
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1				-0.06914	-0.04104	-92.7	-214.6
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1				0.13842	0.00000	-0.0	-0.0
14310	2972.0	2330.1	L: 137451 LEEDS 3	345	137455	ATHENS	345	1	983.0	1725.0	0.24967		0.17208	433.3	944.7
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	2	120						
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	2				-0.42910	-0.18082	-1281.0	-1818.4
14312	2972.6	2330.5	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-70.0	-173.0	-0.03463		-0.03150	-62.4	-156.1
			C:135850 SOUR-114	115	135876	TELRDTP1	115	1	673						
			Open 135850 SOUR-114	115	135876	TELRDTP1	115	1				0.11483	-0.02731	-66.3	-147.5
14313	2973.1	2330.9	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-79.4	-173.0	-0.03150		-0.03150	-62.4	-156.1
			C:GEN:9 MI PT2											1561	
			Remove unit 2 from bus	136700	9M	PT 2G	25.0	1197.5	MW	dispatch					
14318	2977.7	2334.2	L: 130764 MEYER230	230	131122	WTHRS230	230	1	-273.3	-540.0	-0.08955		-0.09018	-238.5	-507.1
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392						
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1				0.05332	0.01186	-652.6	-617.2
14324	2979.6	2335.6	*L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-70.6	-173.0	-0.03436		-0.03150	-62.4	-156.3
			C:135452 LOCKPORT	115	135872	SOUR-111	115	1	599						
			Open 135452 LOCKPORT	115	135872	SOUR-111	115	1				-0.10907	0.02623	75.1	153.2
14325	2981.2	2336.8	L: 130764 MEYER230	230	131122	WTHRS230	230	1	-235.8	-540.0	-0.10203		-0.09018	-238.5	-507.4
			C:130754 KINTI345	345	147834	NIAG 345	345	1	204						
			Open 130754 KINTI345	345	147834	NIAG 345	345	1				0.05915	-0.20028	46.0	-551.1
14332	2985.2	2339.6	L: 137200 EDIC	345	137452	N.SCOT77	345	1	819.4	1331.0	0.17137				
			Base Case												
14344	2996.2	2347.7	*L: 130764 MEYER230	230	131122	WTHRS230	230	1	-213.2	-540.0	-0.10907		-0.09018	-238.5	-508.8
			C:ETHS/NWES/LLGD											1648	
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.14637	-0.08302	117.6	-131.1
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.12198	-0.03464	43.0	-60.8
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1				0.07595	-0.03304	38.0	-61.0

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, APR 08 2009 10:56
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Exclud.File STARS.exc

Study transfer. From D_EXPORT To GHI_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 37201 violations

Interface-1 Interface 4 MOSES SOUTH Init.Flow= 1373.46 TDF= 1.0000

N	FCITC IntFcel L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
						Init	Final
1	-115912.-114538. L: Interface 21 PJM-WEST	Ncon	Flow	Rating	LODF		
	C: Contingency description	5304.9	-0.0	0.04577	0.00305	5112.7	4759.4
	C:HQ-NY-765-New	1778					
	Open 147827 MARCY765 765 147828 MASS 765	765 1	NA				
	Open 147828 MASS 765 765 180819 CHA-NY	765 1	NA				
	Open 147827 MARCY765 765 147833 MARCY T1	345 1			0.05905	0.38694	624.7-44226.5
	Open 147827 MARCY765 765 147833 MARCY T1	345 2			0.05905	0.33649	543.6-38459.5
	Open 156 MCY765SW 0.0 147827 MARCY765	765 1	NA				
	Open 147838 MASS230B 230 147839 MOSES E	230 1			0.00000	-0.36171	10.3 41937.5
	Open 147828 MASS 765 765 147838 MASS230B	230 1	NA				
	Open 147837 MASS230A 230 147839 MOSES E	230 1			-0.12735	0.00000	18.8 18.8
	Open 147828 MASS 765 765 147837 MASS230A	230 1	NA				
	Open 158 MS765SW2 0.0 147828 MASS 765	765 1	NA				
	Open 157 MS765SW1 0.0 147828 MASS 765	765 1	NA				
	Decrease bus 180001 BEA-DLX 13.8 generation by	100.0	percent dispatch				
	Set bus 181319 CHAT G3 120 load to	357.0	MW dispatch				
	Decrease bus 180002 BEA-DL 13.8 generation by	100.0	percent dispatch				
	Set bus 181419 CHAT G4 120 load to	357.0	MW dispatch				
2	-43911.8-42538.3 L: Interface 20 PJM-CENT	3710.4	0.0	0.08450	0.00567	3269.0	3019.9
	C:HQ-NY-765-New	1778					

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	Open	147827	MARCY765	765	147828	MASS	765	765	1	NA								
	Open	147828	MASS	765	765	180819	CHA-NY	765	1	NA								
	Open	147827	MARCY765	765	147833	MARCY	T1	345	1		0.10896	0.38694	624.7	-16366.5				
	Open	147827	MARCY765	765	147833	MARCY	T1	345	2		0.10896	0.33649	543.6	-14232.2				
	Open	156	MCY765SW	0.0	147827	MARCY765		765	1	NA								
	Open	147838	MASS230B	230	147839	MOSES	E	230	1		0.00000	-0.36171	10.3	15893.9				
	Open	147828	MASS	765	765	147838	MASS230B	230	1	NA								
	Open	147837	MASS230A	230	147839	MOSES	E	230	1		-0.32690	0.00000	18.8	18.8				
	Open	147828	MASS	765	765	147837	MASS230A	230	1	NA								
	Open	158	MS765SW2	0.0	147828	MASS	765	765	1	NA								
	Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA								
	Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch								
	Set	bus	181319	CHAT	G3	120	load	to	357.0	MW	dispatch							
	Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch								
	Set	bus	181419	CHAT	G4	120	load	to	357.0	MW	dispatch							
3	-32393.0-31019.6	L:	Interface	23	QFW			994.5	-0.0	0.03070		0.00773	1095.5	845.0				
		C:	SIN:130					1668										
		Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	1		-0.00563	-0.14267	786.0	5407.5			
		Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	2		-0.00563	-0.14267	786.0	5407.5			
		Open	126263	BUCHANAN	S	345	126290	LADENTWN	345	1		0.09227	0.23155	39.8	-7460.9			
		Open	126263	BUCHANAN	S	345	147832	IP3	345	1	NA							
		Open	147798	IP#3	GEN	22.0	147832	IP3	345	1	NA							
		Open	147798	IP#3	GEN	22.0	147832	IP3	345	2	NA							
		Remove	unit	1	from	bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch					
4	-32393.0-31019.6	L:	Interface	23	QFW			994.5	-0.0	0.03070		0.00773	1095.5	845.0				
		C:	SIN:120					1667										
		Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	1		-0.00563	-0.14267	786.0	5407.5			
		Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	2		-0.00563	-0.14267	786.0	5407.5			
		Open	126263	BUCHANAN	S	345	126290	LADENTWN	345	1		0.09227	0.23155	39.8	-7460.9			
		Open	126263	BUCHANAN	S	345	147832	IP3	345	1	NA							
		Open	147798	IP#3	GEN	22.0	147832	IP3	345	1	NA							
		Open	147798	IP#3	GEN	22.0	147832	IP3	345	2	NA							
		Remove	unit	1	from	bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch					
5	-20648.0-19274.6	L:	Interface	26	ONTARIO-MICH			632.6	-0.0	0.03064		0.00773	736.0	576.4				
		C:	GEN:IND	PT	2-New			1774										
		Open	126288	IP2	345	345	126651	IND	PT	2	22.0	1	0.00000	0.11287	-509.2	-2839.7		
		Open	126288	IP2	345	345	126651	IND	PT	2	22.0	2	0.10149	0.22573	-1018.4	-5679.3		
6	-19618.3-18244.8	L:	Interface	26	ONTARIO-MICH			627.0	-0.0	0.03196		0.00773	736.0	584.3				
		C:	GEN:IND	PT	3-New			1775										
		Open	147798	IP#3	GEN	22.0	147832	IP3	345	1	0.00000	-0.11639	522.5	2805.8				
		Open	147798	IP#3	GEN	22.0	147832	IP3	345	2	0.10464	0.23155	-1041.8	-5584.4				
7	-12961.1-11587.7	L:	Interface	23	QFW			1066.2	0.0	0.08226		0.00773	1095.5	995.3				
		C:	147839	MOSES	E	230	147840	MOSES	W	230	1	1232						
		Open	147839	MOSES	E	230	147840	MOSES	W	230	1		-0.13269	-0.56170	220.6	7500.9		
8	-12652.9-11279.5	L:	Interface	26	ONTARIO-MICH			608.4	0.0	0.04809		0.00773	736.0	638.2				
		C:	SIN:130					1668										
		Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	1		-0.01497	-0.14267	786.0	2591.2			
		Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	2		-0.01497	-0.14267	786.0	2591.2			

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			Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1		0.15584	0.23155	39.8	-2890.0
			Open 126263 BUCHANAN S	345 147832 IP3 345	345 1	NA				
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1	NA				
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2	NA				
			Remove unit 1 from bus	147798 IP#3 GEN 22.0	1072.8 MW	dispatch				
9	-12652.9-11279.5	L:	Interface 26 ONTARIO-MICH				608.4	0.0	0.04809	0.00773 736.0 638.2
			C:SIN:120		1667					
			Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1		-0.01497	-0.14267	786.0	2591.2
			Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2		-0.01497	-0.14267	786.0	2591.2
			Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1		0.15584	0.23155	39.8	-2890.0
			Open 126263 BUCHANAN S	345 147832 IP3 345	345 1	NA				
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1	NA				
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2	NA				
			Remove unit 1 from bus	147798 IP#3 GEN 22.0	1072.8 MW	dispatch				
10	-4766.4 -3393.0	L:	Interface 26 ONTARIO-MICH				504.4	-0.0	0.10583	0.00773 736.0 699.1
			C:HQ-NY-765-New		1778					
			Open 147827 MARCY765	765 147828 MASS 765	765 1	NA				
			Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA				
			Open 147827 MARCY765	765 147833 MARCY T1	345 1		0.13560	0.38694	624.7	-1219.6
			Open 147827 MARCY765	765 147833 MARCY T1	345 2		0.13560	0.33649	543.6	-1060.2
			Open 156 MCY765SW	0.0 147827 MARCY765	765 1	NA				
			Open 147838 MASS230B	230 147839 MOSES E	230 1		-0.00000	-0.36171	10.3	1734.4
			Open 147828 MASS 765	765 147838 MASS230B	230 1	NA				
			Open 147837 MASS230A	230 147839 MOSES E	230 1		0.35776	0.00000	18.8	18.8
			Open 147828 MASS 765	765 147837 MASS230A	230 1	NA				
			Open 158 MS765SW2	0.0 147828 MASS 765	765 1	NA				
			Open 157 MS765SW1	0.0 147828 MASS 765	765 1	NA				
			Decrease bus 180001 BEA-DLX	13.8 generation by	100.0 percent dispatch					
			Set bus 181319 CHAT G3	120 load to	357.0 MW dispatch					
			Decrease bus 180002 BEA-DL	13.8 generation by	100.0 percent dispatch					
			Set bus 181419 CHAT G4	120 load to	357.0 MW dispatch					
11	-398.2 975.3	L:	126294 PLTVLLEY	345 137451 LEEDS 3	345 2		-1828.7	-1725.0	-0.26041	-0.18340 -1281.0 -1208.0
			C:126294 PLTVLLEY	345 137455 ATHENS	345 1 121					
			Open 126294 PLTVLLEY	345 137455 ATHENS	345 1		0.44128	-0.17453	-1241.0	-1171.5
12	-259.6 1113.9	L:	126294 PLTVLLEY	345 137455 ATHENS	345 1		-1790.7	-1725.0	-0.25322	-0.17453 -1241.0 -1195.7
			C:126294 PLTVLLEY	345 137451 LEEDS 3	345 2 120					
			Open 126294 PLTVLLEY	345 137451 LEEDS 3	345 2		0.42910	-0.18340	-1281.0	-1233.4
13	15.7 1389.1	L:	Interface 39 ZoneD-ONT				-0.6	-0.0	0.04070	0.00000 0.5 0.5
			C:SER:MASS765/230_2		1592					
			Open 147828 MASS 765	765 147838 MASS230B	230 1		-0.11251	-0.36171	10.3	4.7
			Open 147838 MASS230B	230 147839 MOSES E	230 1		0.31979	0.00000	0.0	0.0
14	15.7 1389.1	L:	Interface 40 ONT-Zoned				0.6	0.0	-0.04070	0.00000 -0.5 -0.5
			C:SER:MASS765/230_2		1592					
			Open 147828 MASS 765	765 147838 MASS230B	230 1		0.11251	-0.36171	10.3	4.7
			Open 147838 MASS230B	230 147839 MOSES E	230 1		-0.31979	0.00000	0.0	0.0
15	15.7 1389.1	L:	Interface 40 ONT-Zoned				0.6	0.0	-0.04070	0.00000 -0.5 -0.5
			C:SER:MASS765/230_1		1591					
			Open 147828 MASS 765	765 147837 MASS230A	230 1		0.11251	-0.36171	10.3	4.7

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				Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.31979	0.00000	0.0	0.0
16	15.7	1389.1	L:	Interface 39 ZoneD-ONT					-0.6	-0.0	0.04070	0.00000	0.5	0.5
				C:SER:MASS765/230_1				1591						
				Open 147828 MASS 765	765	147837 MASS230A	230	1			-0.11251	-0.36171	10.3	4.7
				Open 147837 MASS230A	230	147839 MOSES E	230	1			0.31979	0.00000	0.0	0.0
17	15.7	1389.2	L:	Interface 39 ZoneD-ONT					-0.6	0.0	0.04070	0.00000	0.5	0.5
				C:147837 MASS230A	230	147839 MOSES E	230	1 1230						
				Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.11251	-0.36171	10.3	4.7
18	15.7	1389.2	L:	Interface 40 ONT-Zoned					0.6	-0.0	-0.04070	0.00000	-0.5	-0.5
				C:147838 MASS230B	230	147839 MOSES E	230	1 1231						
				Open 147838 MASS230B	230	147839 MOSES E	230	1			0.11251	-0.36171	10.3	4.7
19	15.7	1389.2	L:	Interface 40 ONT-Zoned					0.6	-0.0	-0.04070	0.00000	-0.5	-0.5
				C:147837 MASS230A	230	147839 MOSES E	230	1 1230						
				Open 147837 MASS230A	230	147839 MOSES E	230	1			0.11251	-0.36171	10.3	4.7
20	15.7	1389.2	L:	Interface 39 ZoneD-ONT					-0.6	0.0	0.04070	0.00000	0.5	0.5
				C:147838 MASS230B	230	147839 MOSES E	230	1 1231						
				Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.11251	-0.36171	10.3	4.7
21	15.7	1389.2	L:	Interface 40 ONT-Zoned					0.6	0.0	-0.04070	0.00000	-0.5	-0.5
				C:147828 MASS 765	765	147838 MASS230B	230	1 1221						
				Open 147828 MASS 765	765	147838 MASS230B	230	1			0.11251	-0.36171	10.3	4.7
22	15.7	1389.2	L:	Interface 39 ZoneD-ONT					-0.6	-0.0	0.04070	0.00000	0.5	0.5
				C:147828 MASS 765	765	147837 MASS230A	230	1 1220						
				Open 147828 MASS 765	765	147837 MASS230A	230	1			-0.11251	-0.36171	10.3	4.7
23	15.7	1389.2	L:	Interface 40 ONT-Zoned					0.6	0.0	-0.04070	0.00000	-0.5	-0.5
				C:147828 MASS 765	765	147837 MASS230A	230	1 1220						
				Open 147828 MASS 765	765	147837 MASS230A	230	1			0.11251	-0.36171	10.3	4.7
24	15.7	1389.2	L:	Interface 39 ZoneD-ONT					-0.6	-0.0	0.04070	0.00000	0.5	0.5
				C:147828 MASS 765	765	147838 MASS230B	230	1 1221						
				Open 147828 MASS 765	765	147838 MASS230B	230	1			-0.11251	-0.36171	10.3	4.7
25	165.2	1538.7	L:	131753 NOEND115	115	131833 NOEND3S\$	13.8	1	-70.1	-80.0	-0.05991			
				Base Case										
26	165.3	1538.7	L:	131753 NOEND115	115	131831 NOEND1G\$	13.8	1	-70.1	-80.0	-0.05991			
				Base Case										
27	165.3	1538.8	L:	131753 NOEND115	115	131832 NOEND2G\$	13.8	1	-70.1	-80.0	-0.05991			
				Base Case										
28	272.4	1645.9	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1281.0	-1331.0	-0.18340			
				Base Case										
29	344.3	1717.8	L:	147767 MOS21-24	13.8	147840 MOSES W	230	6	199.4	258.0	0.17031	0.17031	199.0	257.7
				C:GEN:SEABROOK				1573						
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
30	344.3	1717.8	L:	147767 MOS21-24	13.8	147840 MOSES W	230	6	199.4	258.0	0.17031	0.17031	199.0	257.7
				C:GEN:SEAB&OMS				1575						
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.1	-0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
31	344.4	1717.8	L:	147767 MOS21-24	13.8	147840 MOSES W	230	6	199.4	258.0	0.17031	0.17031	199.0	257.7
				C:GEN:MILLST 3				1572						
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
32	344.4	1717.8	L:	147767 MOS21-24	13.8	147840 MOSES W	230	6	199.4	258.0	0.17031	0.17031	199.0	257.7

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				Open 100508 SANDB115	115	100509	SB RCTOR	115	2	0.00000	0.00000	-0.1	-0.1		
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch								
5340	353.7	1727.2	L:	147764 MOS17-20	13.8	147839	MOSES E	230	5	200.8	258.0	0.16173	0.16173	200.5	257.7
				C:GEN:SEABROOK					1573						
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch								
5341	353.8	1727.3	L:	147764 MOS17-20	13.8	147839	MOSES E	230	5	200.8	258.0	0.16173	0.16173	200.5	257.7
				C:GEN:MILLST 3					1572						
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch								
5342	353.8	1727.3	L:	147764 MOS17-20	13.8	147839	MOSES E	230	5	200.8	258.0	0.16173	0.16173	200.5	257.7
				C:GEN:MLS3&OMS					1574						
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2	0.00000	0.00000	-0.1	-0.1		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch								
5343	353.9	1727.4	L:	147764 MOS17-20	13.8	147839	MOSES E	230	5	200.8	258.0	0.16173	0.16173	200.5	257.7
				C:GEN:9 MI PT2					1561						
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW dispatch								
5344	354.0	1727.5	L:	147764 MOS17-20	13.8	147839	MOSES E	230	5	200.7	258.0	0.16173	0.16173	200.5	257.7
				C:GEN:SALEM					1567						
				Remove unit 1 from bus 36 SALEM-G1	22.0	1117.3	MW dispatch								
5345	354.1	1727.6	L:	147764 MOS17-20	13.8	147839	MOSES E	230	5	200.7	258.0	0.16173	0.16173	200.5	257.7
				C:GEN:IND PT 3					1555						
				Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch								
5346	354.1	1727.6	L:	147764 MOS17-20	13.8	147839	MOSES E	230	5	200.7	258.0	0.16173	0.16173	200.5	257.7
				C:GEN:PEACHBTM					1568						
				Remove unit 1 from bus 34 PCHBTM 2	22.0	1060.3	MW dispatch								
5347	354.1	1727.6	L:	147764 MOS17-20	13.8	147839	MOSES E	230	5	200.7	258.0	0.16173	0.16173	200.5	257.7
				C:GEN:IND PT 2					1554						
				Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7	MW dispatch								
5348	354.3	1727.7	*L:	147764 MOS17-20	13.8	147839	MOSES E	230	5	200.7	258.0	0.16167	0.16173	200.5	257.8
				C:GEN:IND PT 3-New					1775						
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	0.00000	-0.11639	522.5	481.2		
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	-0.00024	0.23155	-1041.8	-959.7		
6545	355.7	1729.2	L:	147764 MOS17-20	13.8	147839	MOSES E	230	5	200.5	258.0	0.16173			
				Base Case											
7109	377.5	1751.0	L:	Interface 39 ZoneD-ONT						-108.5	0.0	0.28746	0.00000	0.5	0.5
				C:HQ-NY-765-New					1778						
				Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
				Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
				Open 147827 MARCY765	765	147833	MARCY T1	345	1	0.39735	0.38694	624.7	770.8		
				Open 147827 MARCY765	765	147833	MARCY T1	345	2	0.39735	0.33649	543.6	670.6		
				Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA					
				Open 147838 MASS230B	230	147839	MOSES E	230	1	0.00000	-0.36171	10.3	-126.2		
				Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
				Open 147837 MASS230A	230	147839	MOSES E	230	1	0.48604	0.00000	18.8	18.8		
				Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
				Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA					
				Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA					
				Decrease bus 180001 BEA-DLX	13.8	generation by		100.0	percent dispatch						
				Set bus 181319 CHAT G3	120	load to		357.0	MW dispatch						

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			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
7110	377.5	1751.0	L: Interface 40 ONT-Zoned			108.5	-0.0	-0.28746	0.00000	-0.5	-0.5			
			C:HQ-NY-765-New			1778								
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.39735	0.38694	624.7	770.8		
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.39735	0.33649	543.6	670.6		
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	-0.36171	10.3	-126.2		
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1		-0.48604	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
7111	390.9	1764.4	L: Interface 14 Leeds-PV			2522.1	2662.0	0.35792						
			Base Case											
7112	396.9	1770.4	L: Interface 39 ZoneD-ONT			50.3	0.0	-0.12669	0.00000	0.5	0.5			
			C:147839 MOSES E	230	147840 MOSES W	230	1	1232						
			Open 147839 MOSES E	230	147840 MOSES W	230	1		0.22554	-0.56170	220.6	-2.3		
7113	396.9	1770.4	L: Interface 40 ONT-Zoned			-50.3	-0.0	0.12669	0.00000	-0.5	-0.5			
			C:147839 MOSES E	230	147840 MOSES W	230	1	1232						
			Open 147839 MOSES E	230	147840 MOSES W	230	1		-0.22554	-0.56170	220.6	-2.3		
7114	515.4	1888.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1		-1241.0	-1331.0	-0.17453			
			Base Case											
7115	566.4	1939.8	L: 146758 CHESTER	138	146771 SHOEM138	138	1		-286.6	-317.0	-0.05368	-0.02901	-161.7	-178.2
			C:SIN:440			1683								
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1		-0.11202	0.22015	1114.8	1239.5		
7116	566.4	1939.8	L: 146758 CHESTER	138	146771 SHOEM138	138	1		-286.6	-317.0	-0.05368	-0.02901	-161.7	-178.2
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1		-0.11202	0.22015	1114.8	1239.5		
7117	628.0	2001.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1577.7	-1725.0	-0.23455	-0.18340	-1281.0	-1396.2
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1		0.32992	-0.15506	-899.2	-996.5		
7118	762.3	2135.8	L: Interface 14 Leeds-PV			3101.0	3450.0	0.45777	0.35792	2522.1	2794.9			
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1		-0.64389	-0.15506	-899.2	-1017.4		
7119	783.1	2156.6	L: 147827 MARCY765	765	147833 MARCY T1	345	1		1113.9	1654.0	0.68972	0.38694	624.7	927.7
			C:147827 MARCY765	765	147833 MARCY T1	345	2	1219						
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.89984	0.33649	543.6	807.1		
7120	831.1	2204.5	L: 131753 NOEND115	115	131833 NOEND3S\$	13.8	1		-70.2	-120.0	-0.05991	-0.05991	-70.1	-119.9
			C:GEN:SEABROOK			1573								
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
7121	831.1	2204.5	L: 131753 NOEND115	115	131833 NOEND3S\$	13.8	1		-70.2	-120.0	-0.05991	-0.05991	-70.1	-119.9

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ID	Area	Time	Code	Text	Cost	Unit	Capacity	MW	Dispatch	Value	Value	Value	Value
				C:GEN:SEAB&OMS			1575						
				Open 100508 SANDB115	115	100509	SB RCTOR	115 2		-0.00000	0.00000	-0.1	-0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch					
7122	831.1	2204.6	L:	131753 NOEND115	115	131831	NOEND1G\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9
				C:GEN:SEAB&OMS			1575						
				Open 100508 SANDB115	115	100509	SB RCTOR	115 2		0.00000	0.00000	-0.1	-0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch					
7123	831.1	2204.6	L:	131753 NOEND115	115	131831	NOEND1G\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9
				C:GEN:SEABROOK			1573						
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch					
7124	831.1	2204.6	L:	131753 NOEND115	115	131833	NOEND3S\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9
				C:GEN:MLS3&OMS			1574						
				Open 100508 SANDB115	115	100509	SB RCTOR	115 2		-0.00000	0.00000	-0.1	-0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
7125	831.1	2204.6	L:	131753 NOEND115	115	131833	NOEND3S\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9
				C:GEN:MILLST 3			1572						
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
7126	831.2	2204.6	L:	131753 NOEND115	115	131832	NOEND2G\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9
				C:GEN:SEABROOK			1573						
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch					
7127	831.2	2204.6	L:	131753 NOEND115	115	131832	NOEND2G\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9
				C:GEN:SEAB&OMS			1575						
				Open 100508 SANDB115	115	100509	SB RCTOR	115 2		0.00000	0.00000	-0.1	-0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch					
7128	831.2	2204.6	L:	131753 NOEND115	115	131831	NOEND1G\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9
				C:GEN:MLS3&OMS			1574						
				Open 100508 SANDB115	115	100509	SB RCTOR	115 2		0.00000	0.00000	-0.1	-0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
7129	831.2	2204.6	L:	131753 NOEND115	115	131831	NOEND1G\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9
				C:GEN:MILLST 3			1572						
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
7130	831.2	2204.7	L:	131753 NOEND115	115	131832	NOEND2G\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9
				C:GEN:MLS3&OMS			1574						
				Open 100508 SANDB115	115	100509	SB RCTOR	115 2		0.00000	0.00000	-0.1	-0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
7131	831.2	2204.7	L:	131753 NOEND115	115	131832	NOEND2G\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9
				C:GEN:MILLST 3			1572						
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
7132	831.3	2204.7	L:	131753 NOEND115	115	131833	NOEND3S\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9
				C:GEN:9 MI PT2			1561						
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch					
7133	831.3	2204.8	L:	131753 NOEND115	115	131831	NOEND1G\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9
				C:GEN:9 MI PT2			1561						
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch					
7134	831.3	2204.8	L:	131753 NOEND115	115	131832	NOEND2G\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9
				C:GEN:9 MI PT2			1561						
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch					
7135	831.4	2204.8	L:	131753 NOEND115	115	131833	NOEND3S\$	13.8 1	-70.2	-120.0	-0.05991	-0.05991	-70.1 -119.9

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			C:GEN:SALEM		1567							
			Remove unit 1 from bus	36 SALEM-G1	22.0	1117.3	MW	dispatch				
7136	831.4	2204.9	L: 131753 NOEND115	115 131831 NOEND1G\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:SALEM		1567							
			Remove unit 1 from bus	36 SALEM-G1	22.0	1117.3	MW	dispatch				
7137	831.4	2204.9	L: 131753 NOEND115	115 131833 NOEND3S\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:IND PT 3		1555							
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1072.8	MW	dispatch				
7138	831.4	2204.9	L: 131753 NOEND115	115 131833 NOEND3S\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:PEACHBTM		1568							
			Remove unit 1 from bus	34 PCHBTM 2	22.0	1060.3	MW	dispatch				
7139	831.5	2204.9	L: 131753 NOEND115	115 131833 NOEND3S\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:IND PT 2		1554							
			Remove unit 2 from bus	126651 IND PT 2	22.0	1053.7	MW	dispatch				
7140	831.5	2204.9	L: 131753 NOEND115	115 131832 NOEND2G\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:SALEM		1567							
			Remove unit 1 from bus	36 SALEM-G1	22.0	1117.3	MW	dispatch				
7141	831.5	2204.9	L: 131753 NOEND115	115 131831 NOEND1G\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:IND PT 3		1555							
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1072.8	MW	dispatch				
7142	831.5	2204.9	L: 131753 NOEND115	115 131831 NOEND1G\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:PEACHBTM		1568							
			Remove unit 1 from bus	34 PCHBTM 2	22.0	1060.3	MW	dispatch				
7143	831.5	2205.0	L: 131753 NOEND115	115 131831 NOEND1G\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:IND PT 2		1554							
			Remove unit 2 from bus	126651 IND PT 2	22.0	1053.7	MW	dispatch				
7144	831.5	2205.0	L: 131753 NOEND115	115 131832 NOEND2G\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:IND PT 3		1555							
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1072.8	MW	dispatch				
7145	831.5	2205.0	L: 131753 NOEND115	115 131832 NOEND2G\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:PEACHBTM		1568							
			Remove unit 1 from bus	34 PCHBTM 2	22.0	1060.3	MW	dispatch				
7146	831.5	2205.0	L: 131753 NOEND115	115 131832 NOEND2G\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:IND PT 2		1554							
			Remove unit 2 from bus	126651 IND PT 2	22.0	1053.7	MW	dispatch				
7147	831.7	2205.2*L:	131753 NOEND115	115 131833 NOEND3S\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:FITZPATR		1559							
			Open 136155 SCRIBA	345 147830 JA FITZP	345	1		-0.00000 -0.01088 -67.9 -76.9				
			Open 137200 EDIC	345 147830 JA FITZP	345	1		0.00000 0.00000 43.5 43.5				
			Remove unit 1 from bus	147797 JAFITZ1G	24.0	886.8	MW	dispatch				
7148	831.7	2205.2*L:	131753 NOEND115	115 131831 NOEND1G\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:FITZPATR		1559							
			Open 136155 SCRIBA	345 147830 JA FITZP	345	1		0.00000 -0.01088 -67.9 -76.9				
			Open 137200 EDIC	345 147830 JA FITZP	345	1		0.00000 0.00000 43.5 43.5				
			Remove unit 1 from bus	147797 JAFITZ1G	24.0	886.8	MW	dispatch				
7151	831.8	2205.2*L:	131753 NOEND115	115 131832 NOEND2G\$	13.8	1		-70.2 -120.0 -0.05991	-0.05991	-70.1	-119.9	
			C:GEN:FITZPATR		1559							
			Open 136155 SCRIBA	345 147830 JA FITZP	345	1		0.00000 -0.01088 -67.9 -76.9				

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			Open 137200 EDIC	345	147830	JA FITZP	345	1		0.00000	0.00000	43.5	43.5		
			Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8	MW dispatch									
12427	883.1	2256.6	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1566.9	-1725.0	-0.17898	-0.18340	-1281.0	-1443.0	
			C:125002 ROSETON	345	126281	FISHKILL	345	1	10						
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.18979	-0.02327	1506.4	1485.8
12428	883.1	2256.6	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1566.9	-1725.0	-0.17898	-0.18340	-1281.0	-1443.0	
			C:SIN:430											1682	
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.18979	-0.02327	1506.4	1485.8
12429	903.4	2276.9	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1523.3	-1725.0	-0.22321	-0.17453	-1241.0	-1398.7	
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1	3						
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				0.31397	-0.15506	-899.2	-1039.3
12430	933.1	2306.6	L: 131752 ASHLY115	115	147922	PLAT 115	115	1	129.4	285.0	0.16674	0.04672	26.5	70.1	
			C:131753 NOEND115	115	147922	PLAT 115	115	1	419						
			Open 131753 NOEND115	115	147922	PLAT 115	115	1				0.92620	0.12958	111.1	232.0
12431	969.3	2342.8	L: 136778 LOWVILLE	115	136807	TAYLORVL	115	1	-100.7	-134.0	-0.03436	-0.02330	-66.0	-88.6	
			C:Lyons Falls Tap											1704	
			Open 136761 BU+LY+MO	115	137221	BOONVL	115	1				-0.47527	0.02328	72.9	95.5
12432	969.3	2342.8	L: 136778 LOWVILLE	115	136807	TAYLORVL	115	1	-100.7	-134.0	-0.03436	-0.02330	-66.0	-88.6	
			C:136761 BU+LY+MO	115	137221	BOONVL	115	1	893						
			Open 136761 BU+LY+MO	115	137221	BOONVL	115	1				-0.47527	0.02328	72.9	95.5
12433	970.6	2344.0	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1472.2	-1725.0	-0.26041	-0.18340	-1281.0	-1459.0	
			C:137451 LEEDS 3	345	137455	ATHENS	345	1	1006						
			Open 137451 LEEDS 3	345	137455	ATHENS	345	1				-0.44128	0.17453	433.3	602.7
12434	1059.1	2432.6	L: Interface 14 Leeds-PV						3080.0	3450.0	0.34931	0.35792	2522.1	2901.2	
			C:125002 ROSETON	345	126281	FISHKILL	345	1	10						
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				0.37040	-0.02327	1506.4	1481.7
12435	1059.1	2432.6	L: Interface 14 Leeds-PV						3080.0	3450.0	0.34931	0.35792	2522.1	2901.2	
			C:SIN:430											1682	
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				0.37040	-0.02327	1506.4	1481.7
12436	1117.0	2490.5	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1474.4	-1725.0	-0.22432	-0.18340	-1281.0	-1485.9	
			C:125000 HURLEY 3	345	125002	ROSETON	345	1	1						
			Open 125000 HURLEY 3	345	125002	ROSETON	345	1				-0.29333	0.13950	659.3	815.1
12437	1127.1	2500.5	L: 136759 BRNS FLS	115	136807	TAYLORVL	115	2	39.3	134.0	0.08404	0.04068	29.6	75.4	
			C:HQ-NY-765-New											1778	
			Open 147827 MARCY765	765	147828	MASS 765	765	1						NA	
			Open 147828 MASS 765	765	180819	CHA-NY	765	1						NA	
			Open 147827 MARCY765	765	147833	MARCY T1	345	1				0.05994	0.38694	624.7	1060.8
			Open 147827 MARCY765	765	147833	MARCY T1	345	2				0.05994	0.33649	543.6	922.9
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1						NA	
			Open 147838 MASS230B	230	147839	MOSES E	230	1				-0.00000	-0.36171	10.3	-397.3
			Open 147828 MASS 765	765	147838	MASS230B	230	1						NA	
			Open 147837 MASS230A	230	147839	MOSES E	230	1				0.05065	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837	MASS230A	230	1						NA	
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1						NA	
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1						NA	
			Decrease bus 180001 BEA-DLX	13.8	generation by				100.0	percent dispatch					
			Set bus 181319 CHAT G3	120	load to				357.0	MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by				100.0	percent dispatch					

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			Set	bus 181419	CHAT G4	120	load	to	357.0	MW dispatch						
12438	1139.0	2512.4	L:	136759	BRNS FLS	115	136807	TAYLORVL	115	1	39.3	135.0	0.08404	0.04068	29.6	75.9
			C:	HQ-NY-765-New						1778						
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		0.05994	0.38694	624.7	1065.4	
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		0.05994	0.33649	543.6	926.9	
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
			Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.36171	10.3	-401.6	
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
			Open	147837	MASS230A	230	147839	MOSES E	230	1		0.05065	0.00000	18.8	18.8	
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
			Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent dispatch						
			Set	bus 181319	CHAT G3	120	load	to	357.0	MW dispatch						
			Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent dispatch						
			Set	bus 181419	CHAT G4	120	load	to	357.0	MW dispatch						
12439	1155.2	2528.7	L:	136778	LOWVILLE	115	136807	TAYLORVL	115	1	-94.3	-134.0	-0.03436	-0.02330	-66.0	-93.0
			C:	Boon-Taylor						1715						
			Open	136761	BU+LY+MO	115	137221	BOONVL	115	1		-0.47527	0.02328	72.9	99.8	
			Open	136761	BU+LY+MO	115	136848	LYNDL MR	115	1	NA					
			Open	136758	BREMEN	115	136761	BU+LY+MO	115	1	NA					
			Open	136758	BREMEN	115	136807	TAYLORVL	115	1		-0.31709	0.00000	-20.1	-20.1	
12440	1159.9	2533.3	L:	136759	BRNS FLS	115	136771	FLAT RCK	115	1	-37.7	-135.0	-0.08385	-0.04059	-28.0	-75.1
			C:	HQ-NY-765-New						1778						
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		-0.05980	0.38694	624.7	1073.5	
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		-0.05980	0.33649	543.6	933.9	
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
			Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.36171	10.3	-409.2	
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
			Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.05054	0.00000	18.8	18.8	
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
			Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent dispatch						
			Set	bus 181319	CHAT G3	120	load	to	357.0	MW dispatch						
			Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent dispatch						
			Set	bus 181419	CHAT G4	120	load	to	357.0	MW dispatch						
12441	1177.5	2551.0	L:	136759	BRNS FLS	115	136775	HIGLEY	115	1	-35.8	-135.0	-0.08424	-0.04077	-26.1	-74.1
			C:	HQ-NY-765-New						1778						
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		-0.06008	0.38694	624.7	1080.3	
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		-0.06008	0.33649	543.6	939.8	
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					

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			Open	147838	MASS230B	230	147839	MOSES E	230	1		0.00000	-0.36171	10.3	-415.6		
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA						
			Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.05077	0.00000	18.8	18.8		
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA						
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease	bus 180001	BEA-DLX	13.8	generation by		100.0	percent dispatch							
			Set	bus 181319	CHAT G3	120	load to		357.0	MW dispatch							
			Decrease	bus 180002	BEA-DL	13.8	generation by		100.0	percent dispatch							
			Set	bus 181419	CHAT G4	120	load to		357.0	MW dispatch							
12442	1214.3	2587.7	L:	136761	BU+LY+MO	115	137221	BOONVL	115	1		104.3	146.0	0.03435	0.02328	72.9	101.2
			C:	Lowville-Taylorvl							1703						
			Open	136778	LOWVILLE	115	136807	TAYLORVL	115	1		-0.47515	-0.02330	-66.0	-94.3		
12443	1214.3	2587.7	L:	136761	BU+LY+MO	115	137221	BOONVL	115	1		104.3	146.0	0.03435	0.02328	72.9	101.2
			C:	136778	LOWVILLE	115	136807	TAYLORVL	115	1	917						
			Open	136778	LOWVILLE	115	136807	TAYLORVL	115	1		-0.47515	-0.02330	-66.0	-94.3		
12444	1221.4	2594.8	L:	146758	CHESTER	138	146773	SGRLF138	138	1		251.4	317.0	0.05368	0.02901	126.6	162.0
			C:	SIN:440							1683						
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		0.11202	0.22015	1114.8	1383.7		
12445	1221.4	2594.8	L:	146758	CHESTER	138	146773	SGRLF138	138	1		251.4	317.0	0.05368	0.02901	126.6	162.0
			C:	125001	ROCK TAV	345	126297	RAMAPO	345	1	7						
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		0.11202	0.22015	1114.8	1383.7		
12446	1222.1	2595.6	L:	130750	COOPC345	345	130753	FRASR345	345	1		-997.1	-1207.0	-0.17177			
			Base Case														
12447	1233.2	2606.7	L:	136778	LOWVILLE	115	136807	TAYLORVL	115	1		-73.7	-134.0	-0.04887	-0.02330	-66.0	-94.8
			C:	HQ-NY-765-New							1778						
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA						
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA						
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		-0.03535	0.38694	624.7	1101.9		
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		-0.03535	0.33649	543.6	958.6		
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open	147838	MASS230B	230	147839	MOSES E	230	1		0.00000	-0.36171	10.3	-435.7		
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA						
			Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.02823	0.00000	18.8	18.8		
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA						
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease	bus 180001	BEA-DLX	13.8	generation by		100.0	percent dispatch							
			Set	bus 181319	CHAT G3	120	load to		357.0	MW dispatch							
			Decrease	bus 180002	BEA-DL	13.8	generation by		100.0	percent dispatch							
			Set	bus 181419	CHAT G4	120	load to		357.0	MW dispatch							
12448	1240.1	2613.5	L:	131752	ASHLY115	115	131753	NOEND115	115	1		-165.1	-388.0	-0.17972	-0.05014	-54.0	-116.2
			C:	131753	NOEND115	115	147922	PLAT 115	115	1	419						
			Open	131753	NOEND115	115	147922	PLAT 115	115	1		-1.00000	0.12958	111.1	271.8		
12449	1240.1	2613.5	L:	131753	NOEND115	115	147922	PLAT 115	115	1		165.1	388.0	0.17972	0.12958	111.1	271.8
			C:	131752	ASHLY115	115	131753	NOEND115	115	1	416						
			Open	131752	ASHLY115	115	131753	NOEND115	115	1		-1.00000	-0.05014	-54.0	-116.2		
12450	1244.0	2617.5	L:	126294	PLTVLLEY	345	137455	ATHENS	345	1		-1513.1	-1725.0	-0.17032	-0.17453	-1241.0	-1458.2

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			C:125002 ROSETON	345	126281 FISHKILL	345	1	10										
			Open 125002 ROSETON	345	126281 FISHKILL	345	1					-0.18061	-0.02327	1506.4	1477.4			
12451	1244.0	2617.5	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1		-1513.1	-1725.0	-0.17032		-0.17453	-1241.0	-1458.2			
			C:SIN:430					1682										
			Open 125002 ROSETON	345	126281 FISHKILL	345	1					-0.18061	-0.02327	1506.4	1477.4			
12452	1245.8	2619.3	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1		-607.0	-707.0	-0.08023		-0.04883	-448.0	-508.9			
			C:SIN:440					1683										
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1					-0.14263	0.22015	1114.8	1389.1			
12453	1245.8	2619.3	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1		-607.0	-707.0	-0.08023		-0.04883	-448.0	-508.9			
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7										
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1					-0.14263	0.22015	1114.8	1389.1			
12454	1246.9	2620.3	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1		-1348.1	-1724.0	-0.30148		-0.19308	-863.0	-1103.7			
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2	1005										
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2					0.56508	-0.19183	-858.5	-1097.7			
12455	1247.9	2621.4	L: 136778 LOWVILLE	115	136807 TAYLORVL	115	1		-91.1	-134.0	-0.03436		-0.02330	-66.0	-95.1			
			C:Taylorvl-Bremen					1706										
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1					0.47527	-0.02328	-52.8	-81.8			
12456	1247.9	2621.4	L: 136778 LOWVILLE	115	136807 TAYLORVL	115	1		-91.1	-134.0	-0.03436		-0.02330	-66.0	-95.1			
			C:136758 BREMEN	115	136807 TAYLORVL	115	1	886										
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1					0.47527	-0.02328	-52.8	-81.8			
12457	1257.4	2630.9	L: Interface 14 Leeds-PV						2899.5	3450.0	0.43779		0.35792	2522.1	2972.1			
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1										
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1					0.57248	0.13950	659.3	834.7			
12458	1260.1	2633.5	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-1345.1	-1724.0	-0.30071		-0.19183	-858.5	-1100.2			
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1	1004										
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1					0.56388	-0.19308	-863.0	-1106.3			
12459	1269.5	2642.9	L: 136764 COLTON	115	136771 FLAT RCK	115	1		35.6	142.0	0.08385		0.04059	25.9	77.4			
			C:HQ-NY-765-New					1778										
			Open 147827 MARCY765	765	147828 MASS 765	765	1		NA									
			Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA									
			Open 147827 MARCY765	765	147833 MARCY T1	345	1					0.05980	0.38694	624.7	1115.9			
			Open 147827 MARCY765	765	147833 MARCY T1	345	2					0.05980	0.33649	543.6	970.8			
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1		NA									
			Open 147838 MASS230B	230	147839 MOSES E	230	1					0.00000	-0.36171	10.3	-448.8			
			Open 147828 MASS 765	765	147838 MASS230B	230	1		NA									
			Open 147837 MASS230A	230	147839 MOSES E	230	1					0.05054	0.00000	18.8	18.8			
			Open 147828 MASS 765	765	147837 MASS230A	230	1		NA									
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1		NA									
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1		NA									
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0												
			Set bus 181319 CHAT G3	120	load to	357.0												
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0												
			Set bus 181419 CHAT G4	120	load to	357.0												
12460	1286.7	2660.2	L: 147836 ADRON B2	230	147840 MOSES W	230	1		-143.5	-440.0	-0.23042		-0.09761	-110.2	-235.8			
			C:HQ-NY-765-New					1778										
			Open 147827 MARCY765	765	147828 MASS 765	765	1		NA									
			Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA									
			Open 147827 MARCY765	765	147833 MARCY T1	345	1					-0.18360	0.38694	624.7	1122.6			

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				Open	147827	MARCY765	765	147833	MARCY T1	345	2				-0.18360	0.33649	543.6	976.6		
				Open	156	MCY765SW	0.0	147827	MARCY765	765	1		NA							
				Open	147838	MASS230B	230	147839	MOSES E	230	1				-0.00000	-0.36171	10.3	-455.1		
				Open	147828	MASS 765	765	147838	MASS230B	230	1		NA							
				Open	147837	MASS230A	230	147839	MOSES E	230	1				-0.15191	0.00000	18.8	18.8		
				Open	147828	MASS 765	765	147837	MASS230A	230	1		NA							
				Open	158	MS765SW2	0.0	147828	MASS 765	765	1		NA							
				Open	157	MS765SW1	0.0	147828	MASS 765	765	1		NA							
				Decrease	bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch									
				Set	bus	181319	CHAT G3	120	load to	357.0	MW dispatch									
				Decrease	bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch									
				Set	bus	181419	CHAT G4	120	load to	357.0	MW dispatch									
12461	1286.7	2660.2		L:	147835	ADRON B1	230	147840	MOSES W	230	1				-143.5	-440.0	-0.23042	-0.09761	-110.2	-235.8
				C:	HQ-NY-765-New						1778									
				Open	147827	MARCY765	765	147828	MASS 765	765	1		NA							
				Open	147828	MASS 765	765	180819	CHA-NY	765	1		NA							
				Open	147827	MARCY765	765	147833	MARCY T1	345	1				-0.18360	0.38694	624.7	1122.6		
				Open	147827	MARCY765	765	147833	MARCY T1	345	2				-0.18360	0.33649	543.6	976.6		
				Open	156	MCY765SW	0.0	147827	MARCY765	765	1		NA							
				Open	147838	MASS230B	230	147839	MOSES E	230	1				-0.00000	-0.36171	10.3	-455.1		
				Open	147828	MASS 765	765	147838	MASS230B	230	1		NA							
				Open	147837	MASS230A	230	147839	MOSES E	230	1				-0.15191	0.00000	18.8	18.8		
				Open	147828	MASS 765	765	147837	MASS230A	230	1		NA							
				Open	158	MS765SW2	0.0	147828	MASS 765	765	1		NA							
				Open	157	MS765SW1	0.0	147828	MASS 765	765	1		NA							
				Decrease	bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch									
				Set	bus	181319	CHAT G3	120	load to	357.0	MW dispatch									
				Decrease	bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch									
				Set	bus	181419	CHAT G4	120	load to	357.0	MW dispatch									
12462	1295.2	2668.6		L:	136759	BRNS FLS	115	136807	TAYLORVL	115	2				48.2	134.0	0.06628	0.04068	29.6	82.2
				C:	136759	BRNS FLS	115	136807	TAYLORVL	115	1		890							
				Open	136759	BRNS FLS	115	136807	TAYLORVL	115	1				0.62930	0.04068	29.6	82.2		
12463	1304.8	2678.3		L:	136759	BRNS FLS	115	136807	TAYLORVL	115	2			7.4	134.0	0.09700	0.04068	29.6	82.6	
				C:	147839	MOSES E	230	147840	MOSES W	230	1		1232							
				Open	147839	MOSES E	230	147840	MOSES W	230	1				-0.10026	-0.56170	220.6	-512.3		
12464	1310.3	2683.7		L:	136759	BRNS FLS	115	136807	TAYLORVL	115	1			48.2	135.0	0.06628	0.04068	29.6	82.9	
				C:	136759	BRNS FLS	115	136807	TAYLORVL	115	2		891							
				Open	136759	BRNS FLS	115	136807	TAYLORVL	115	2				0.62930	0.04068	29.6	82.9		
12465	1314.5	2688.0		L:	136778	LOWVILLE	115	136807	TAYLORVL	115	1			-89.2	-134.0	-0.03406	-0.02330	-66.0	-96.7	
				C:	Black River						1709									
				Open	136755	BLACK RV	115	136762	CLIMAX	115	1				0.30952	-0.01781	-41.7	-65.1		
				Open	136755	BLACK RV	115	136793	NY AIR B	115	1				0.00000	0.00422	31.4	37.0		
				Open	136755	BLACK RV	115	136776	INDN RIV	115	1		NA							
				Open	136755	BLACK RV	115	136768	E WTRTWN	115	1				0.00000	0.01305	31.2	48.4		
				Open	136755	BLACK RV	115	136772	FT. DRUM	115	1				0.30952	-0.01697	-33.5	-55.8		
				Open	136216	LTHSE HL	115	136755	BLACK RV	115	1				-0.00000	-0.01742	4.4	-18.5		
				Open	136755	BLACK RV	115	136963	BLKRIVER	23.0	1				0.00489	0.00000	17.8	17.8		
12466	1315.1	2688.6		L:	136759	BRNS FLS	115	136807	TAYLORVL	115	1			7.4	135.0	0.09700	0.04068	29.6	83.1	

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			C:147839 MOSES E	230	147840 MOSES W	230	1	1232											
			Open 147839 MOSES E	230	147840 MOSES W	230	1					-0.10026	-0.56170	220.6	-518.1				
12467	1329.3	2702.8	L: 136778 LOWVILLE	115	136807 TAYLORVL	115	1					-88.3	-134.0	-0.03436		-0.02330	-66.0	-97.0	
			C:Bremen-Lyons Falls Tap					1705											
			Open 136758 BREMEN	115	136761 BU+LY+MO	115	1					-0.47527	0.02328	46.9	77.8				
12468	1329.3	2702.8	L: 136778 LOWVILLE	115	136807 TAYLORVL	115	1					-88.3	-134.0	-0.03436		-0.02330	-66.0	-97.0	
			C:136758 BREMEN	115	136761 BU+LY+MO	115	1	885											
			Open 136758 BREMEN	115	136761 BU+LY+MO	115	1					-0.47527	0.02328	46.9	77.8				
12469	1333.3	2706.7	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1					-6.0	-135.0	-0.09677		-0.04059	-28.0	-82.2	
			C:147839 MOSES E	230	147840 MOSES W	230	1	1232											
			Open 147839 MOSES E	230	147840 MOSES W	230	1					0.10003	-0.56170	220.6	-528.3				
12470	1339.1	2712.5	L: 136761 BU+LY+MO	115	137221 BOONVL	115	1					80.6	146.0	0.04884		0.02328	72.9	104.1	
			C:HQ-NY-765-New					1778											
			Open 147827 MARCY765	765	147828 MASS 765	765	1					NA							
			Open 147828 MASS 765	765	180819 CHA-NY	765	1					NA							
			Open 147827 MARCY765	765	147833 MARCY T1	345	1					0.03533	0.38694	624.7	1142.9				
			Open 147827 MARCY765	765	147833 MARCY T1	345	2					0.03533	0.33649	543.6	994.2				
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1					NA							
			Open 147838 MASS230B	230	147839 MOSES E	230	1					0.00000	-0.36171	10.3	-474.0				
			Open 147828 MASS 765	765	147838 MASS230B	230	1					NA							
			Open 147837 MASS230A	230	147839 MOSES E	230	1					0.02822	0.00000	18.8	18.8				
			Open 147828 MASS 765	765	147837 MASS230A	230	1					NA							
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1					NA							
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1					NA							
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0						100.0							
			Set bus 181319 CHAT G3	120	load to	357.0						357.0							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0						100.0							
			Set bus 181419 CHAT G4	120	load to	357.0						357.0							
12471	1348.5	2722.0	L: 136759 BRNS FLS	115	136775 HIGLEY	115	1					-3.9	-135.0	-0.09722		-0.04077	-26.1	-81.1	
			C:147839 MOSES E	230	147840 MOSES W	230	1	1232											
			Open 147839 MOSES E	230	147840 MOSES W	230	1					0.10049	-0.56170	220.6	-536.8				
12472	1357.4	2730.8	L: 131753 NOEND115	115	147922 PLAT 115	115	1					111.1	287.0	0.12958					
			Base Case																
12473	1368.1	2741.6	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1					-45.5	-135.0	-0.06540		-0.04059	-28.0	-83.6	
			C:136764 COLTON	115	136775 HIGLEY	115	1	900											
			Open 136764 COLTON	115	136775 HIGLEY	115	1					-0.60859	0.04077	28.7	84.5				
12474	1392.8	2766.2	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1					-43.9	-135.0	-0.06540		-0.04059	-28.0	-84.6	
			C:136759 BRNS FLS	115	136775 HIGLEY	115	1	888											
			Open 136759 BRNS FLS	115	136775 HIGLEY	115	1					0.60859	-0.04077	-26.1	-82.9				
12475	1401.6	2775.1	L: 136759 BRNS FLS	115	136775 HIGLEY	115	1					-43.2	-135.0	-0.06552		-0.04077	-26.1	-83.2	
			C:136759 BRNS FLS	115	136771 FLAT RCK	115	1	887											
			Open 136759 BRNS FLS	115	136771 FLAT RCK	115	1					0.60968	-0.04059	-28.0	-84.9				
12476	1405.0	2778.4	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1					-1425.1	-1725.0	-0.21347		-0.17453	-1241.0	-1486.2	
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1											
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1					-0.27915	0.13950	659.3	855.3				
12477	1409.2	2782.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2					-1430.3	-1725.0	-0.20911		-0.18340	-1281.0	-1539.5	
			C:130750 COOPC345	345	130753 FRASR345	345	1	192											
			Open 130750 COOPC345	345	130753 FRASR345	345	1					0.14972	-0.17177	-997.1	-1239.1				

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12478	1422.0	2795.5	L: 136759 BRNS FLS	115	136775 HIGLEY	115	1	-41.8	-135.0	-0.06552	-0.04077	-26.1	-84.0
			C:136764 COLTON	115	136771 FLAT RCK	115	1 899						
			Open 136764 COLTON		115 136771 FLAT RCK	115	1			-0.60968	0.04059	25.9	83.6
12479	1428.2	2801.7	L: 136764 COLTON	115	136771 FLAT RCK	115	1	3.8	142.0	0.09677	0.04059	25.9	83.8
			C:147839 MOSES E	230	147840 MOSES W	230	1 1232						
			Open 147839 MOSES E	230	147840 MOSES W	230	1			-0.10003	-0.56170	220.6	-581.6
12480	1431.0	2804.4	L: 136764 COLTON	115	136775 HIGLEY	115	1	38.5	159.0	0.08424	0.04077	28.7	87.1
			C:HQ-NY-765-New				1778						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.06008	0.38694	624.7	1178.4
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.06008	0.33649	543.6	1025.1
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	-0.36171	10.3	-507.3
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.05077	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
12481	1451.3	2824.8	L: 136758 BREMEN	115	136807 TAYLORVL	115	1	-84.1	-134.0	-0.03435	-0.02328	-52.8	-86.6
			C:Lowville-Taylorvl				1703						
			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1			0.47515	-0.02330	-66.0	-99.9
12482	1451.3	2824.8	L: 136758 BREMEN	115	136807 TAYLORVL	115	1	-84.1	-134.0	-0.03435	-0.02328	-52.8	-86.6
			C:136778 LOWVILLE	115	136807 TAYLORVL	115	1 917						
			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1			0.47515	-0.02330	-66.0	-99.9
12483	1463.9	2837.4	*L: 136778 LOWVILLE	115	136807 TAYLORVL	115	1	-53.6	-134.0	-0.05490	-0.02330	-66.0	-100.1
			C:147839 MOSES E	230	147840 MOSES W	230	1 1232						
			Open 147839 MOSES E	230	147840 MOSES W	230	1			0.05627	-0.56170	220.6	-601.6
12484	1466.4	2839.8	L: 136761 BU+LY+MO	115	137221 BOONVL	115	1	96.1	146.0	0.03404	0.02328	72.9	107.0
			C:Black River				1709						
			Open 136755 BLACK RV	115	136762 CLIMAX	115	1			-0.30937	-0.01781	-41.7	-67.8
			Open 136755 BLACK RV	115	136793 NY AIR B	115	1			-0.00000	0.00422	31.4	37.6
			Open 136755 BLACK RV	115	136776 INDN RIV	115	1	NA					
			Open 136755 BLACK RV	115	136768 E WTRTWN	115	1			-0.00000	0.01305	31.2	50.4
			Open 136755 BLACK RV	115	136772 FT. DRUM	115	1			-0.30937	-0.01697	-33.5	-58.4
			Open 136216 LTHSE HL	115	136755 BLACK RV	115	1			0.00000	-0.01742	4.4	-21.2
			Open 136755 BLACK RV	115	136963 BLKRIVER	23.0	1			-0.00488	0.00000	17.8	17.8
12485	1486.7	2860.1	L: 147836 ADRON B2	230	147840 MOSES W	230	1	-43.9	-440.0	-0.26645	-0.09761	-110.2	-255.3
			C:147839 MOSES E	230	147840 MOSES W	230	1 1232						
			Open 147839 MOSES E	230	147840 MOSES W	230	1			0.30059	-0.56170	220.6	-614.4
12486	1486.7	2860.1	L: 147835 ADRON B1	230	147840 MOSES W	230	1	-43.9	-440.0	-0.26645	-0.09761	-110.2	-255.3
			C:147839 MOSES E	230	147840 MOSES W	230	1 1232						
			Open 147839 MOSES E	230	147840 MOSES W	230	1			0.30059	-0.56170	220.6	-614.4
12487	1494.3	2867.8	L: 131753 NOEND115	115	147922 PLAT 115	115	1	134.0	388.0	0.16996	0.12958	111.1	304.7

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			C:131752 ASHLY115	115	147922 PLAT 115	115	1	418								
			Open 131752 ASHLY115	115	147922 PLAT 115	115	1				0.86435	0.04672	26.5	96.3		
12488	1505.8	2879.3	L: 136758 BREMEN	115	136807 TAYLORVL	115	1		-60.5	-134.0	-0.04884	-0.02328	-52.8	-87.8		
			C:HQ-NY-765-New					1778								
			Open 147827 MARCY765	765	147828 MASS 765	765	1									
			Open 147828 MASS 765	765	180819 CHA-NY	765	1									
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.03533	0.38694	624.7	1207.4		
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.03533	0.33649	543.6	1050.3		
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1									
			Open 147838 MASS230B	230	147839 MOSES E	230	1				0.00000	-0.36171	10.3	-534.3		
			Open 147828 MASS 765	765	147838 MASS230B	230	1									
			Open 147837 MASS230A	230	147839 MOSES E	230	1				-0.02822	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837 MASS230A	230	1									
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1									
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1									
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0										
			Set bus 181319 CHAT G3	120	load to	357.0										
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0										
			Set bus 181419 CHAT G4	120	load to	357.0										
12489	1508.2	2881.7	L: 136761 BU+LY+MO	115	137221 BOONVL	115	1				94.2	146.0	0.03435	0.02328	72.9	108.0
			C:136778 LOWVILLE	115	137221 BOONVL	115	1	918								
			Open 136778 LOWVILLE	115	137221 BOONVL	115	1				0.47515	0.02330	44.8	79.9		
12490	1508.6	2882.1	L: 136764 COLTON	115	136771 FLAT RCK	115	1		43.3	142.0	0.06540	0.04059	25.9	87.1		
			C:136764 COLTON	115	136775 HIGLEY	115	1	900								
			Open 136764 COLTON	115	136775 HIGLEY	115	1				0.60859	0.04077	28.7	90.2		
12491	1529.2	2902.7	L: 146758 CHESTER	138	146771 SHOEM138	138	1		-237.7	-317.0	-0.05183	-0.02901	-161.7	-206.1		
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	9								
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.17871	-0.12769	-425.4	-620.6		
12492	1533.3	2906.7	L: 136764 COLTON	115	136771 FLAT RCK	115	1		41.7	142.0	0.06540	0.04059	25.9	88.1		
			C:136759 BRNS FLS	115	136775 HIGLEY	115	1	888								
			Open 136759 BRNS FLS	115	136775 HIGLEY	115	1				-0.60859	-0.04077	-26.1	-88.6		
12493	1558.1	2931.6	L: 136761 BU+LY+MO	115	137221 BOONVL	115	1		60.5	146.0	0.05488	0.02328	72.9	109.2		
			C:147839 MOSES E	230	147840 MOSES W	230	1	1232								
			Open 147839 MOSES E	230	147840 MOSES W	230	1				-0.05624	-0.56170	220.6	-654.6		
12494	1559.8	2933.3	L: Interface 14 Leeds-PV						2813.4	3450.0	0.40811	0.35792	2522.1	3080.4		
			C:130750 COOPC345	345	130753 FRASR345	345	1	192								
			Open 130750 COOPC345	345	130753 FRASR345	345	1				-0.29219	-0.17177	-997.1	-1265.0		
12495	1561.1	2934.5	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1		41.3	135.0	0.06003	0.04068	29.6	93.1		
			C:Taylorville 2					1722								
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	2				0.66490	0.04068	29.6	93.1		
			Open 136766 DEFERIET	115	136807 TAYLORVL	115	1				0.13886	-0.01697	6.8	-19.6		
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1				0.22941	-0.02328	-52.8	-89.1		
			Open 136786 MOSH-SUN	115	136807 TAYLORVL	115	1				-0.30235	0.00000	-10.7	-10.7		
12496	1568.1	2941.6	L: 136764 COLTON	115	136775 HIGLEY	115	1		6.5	159.0	0.09722	0.04077	28.7	92.7		
			C:147839 MOSES E	230	147840 MOSES W	230	1	1232								
			Open 147839 MOSES E	230	147840 MOSES W	230	1				-0.10049	-0.56170	220.6	-660.2		
12497	1570.1	2943.6	L: 136761 BU+LY+MO	115	137221 BOONVL	115	1		97.3	146.0	0.03101	0.02328	72.9	109.5		
			C:Taylorville 1					1721								

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			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1				-0.52175	-0.02330	-66.0	-102.6	
			Open 136788 N CARTHG	115	136807 TAYLORVL	115	1				-0.17530	-0.01714	26.5	-0.4	
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	1				-0.18274	0.04068	29.6	93.4	
12498	1581.2	2954.6	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1350.8	1793.0	0.27967		0.17652	874.1	1153.2	
			C:125001 ROCK TAV	345	130750 COOPC345	345	2								
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2					-0.64149	-0.16079	-743.2	-997.4
12499	1581.3	2954.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1317.8	-1703.0	-0.24360		-0.17177	-997.1	-1268.7	
			C:130750 COOPC345	345	147833 MARCY T1	345	1								
			Open 130750 COOPC345	345	147833 MARCY T1	345	1					0.43391	-0.16554	-739.1	-1000.9
12500	1587.7	2961.2	L: 136778 LOWVILLE	115	137221 BOONVL	115	1	79.4	134.0	0.03436		0.02330	44.8	81.8	
			C:Lyons Falls Tap												
			Open 136761 BU+LY+MO	115	137221 BOONVL	115	1					0.47527	0.02328	72.9	109.9
12501	1587.7	2961.2	L: 136778 LOWVILLE	115	137221 BOONVL	115	1	79.4	134.0	0.03436		0.02330	44.8	81.8	
			C:136761 BU+LY+MO	115	137221 BOONVL	115	1								
			Open 136761 BU+LY+MO	115	137221 BOONVL	115	1					0.47527	0.02328	72.9	109.9
12502	1590.6	2964.1	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-1008.0	-1345.0	-0.21186		-0.16554	-739.1	-1002.5	
			C:130750 COOPC345	345	130753 FRASR345	345	1								
			Open 130750 COOPC345	345	130753 FRASR345	345	1					0.26966	-0.17177	-997.1	-1270.3
12503	1594.3	2967.7	L: 137210 PORTER 2	230	137928 CHASES L	230	1	-192.6	-560.0	-0.23042		-0.09761	-159.3	-314.9	
			C:HQ-NY-765-New												
			Open 147827 MARCY765	765	147828 MASS 765	765	1								
			Open 147828 MASS 765	765	180819 CHA-NY	765	1								
			Open 147827 MARCY765	765	147833 MARCY T1	345	1					-0.18360	0.38694	624.7	1241.6
			Open 147827 MARCY765	765	147833 MARCY T1	345	2					-0.18360	0.33649	543.6	1080.1
			Open 156 MCV765SW	0.0	147827 MARCY765	765	1								
			Open 147838 MASS230B	230	147839 MOSES E	230	1					-0.00000	-0.36171	10.3	-566.3
			Open 147828 MASS 765	765	147838 MASS230B	230	1								
			Open 147837 MASS230A	230	147839 MOSES E	230	1					-0.15191	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1								
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1								
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1								
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0									
			Set bus 181319 CHAT G3	120	load to	357.0									
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0									
			Set bus 181419 CHAT G4	120	load to	357.0									
12504	1603.9	2977.3	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2	37.6	134.0	0.06008		0.04068	29.6	94.8	
			C:Taylorville 1												
			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1					0.22904	-0.02330	-66.0	-103.4
			Open 136788 N CARTHG	115	136807 TAYLORVL	115	1					0.13454	-0.01714	26.5	-1.0
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	1					0.66465	0.04068	29.6	94.8
12505	1606.9	2980.3	L: Interface	32	F-To-G			3713.3	4643.0	0.57859					
			Base Case												
12506	1618.8	2992.2	L: 137210 PORTER 2	230	147836 ADRON B2	230	1	-187.0	-560.0	-0.23042		-0.09761	-153.7	-311.7	
			C:HQ-NY-765-New												
			Open 147827 MARCY765	765	147828 MASS 765	765	1								
			Open 147828 MASS 765	765	180819 CHA-NY	765	1								
			Open 147827 MARCY765	765	147833 MARCY T1	345	1					-0.18360	0.38694	624.7	1251.1
			Open 147827 MARCY765	765	147833 MARCY T1	345	2					-0.18360	0.33649	543.6	1088.3

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			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA							
			Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.36171	10.3			-575.2	
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA							
			Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.15191	0.00000	18.8			18.8	
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA							
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA							
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA							
			Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch							
			Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch							
			Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch							
			Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch							
12507	1641.8	3015.3	L:	147843	PLAT T#1	230	147922	PLAT 115	115	1		51.4	-214.0	-0.16163		-0.09001	39.2	-108.6
			C:	147846	WILLIS W	230	147970	RYAN	230	1	1250							
			Open	147846	WILLIS W	230	147970	RYAN	230	1		0.64916	-0.11033	18.8			-162.4	
12508	1642.2	3015.7	L:	147843	PLAT T#1	230	147859	DULEY	230	1		-51.4	214.0	0.16163		0.09001	-39.2	108.6
			C:	147846	WILLIS W	230	147970	RYAN	230	1	1250							
			Open	147846	WILLIS W	230	147970	RYAN	230	1		-0.64916	-0.11033	18.8			-162.4	
12510	1668.1	3041.6	L:	136778	LOWVILLE	115	137221	BOONVL	115	1		52.5	134.0	0.04887		0.02330	44.8	83.7
			C:	HQ-NY-765-New							1778							
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA							
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA							
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		0.03535	0.38694	624.7			1270.2	
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		0.03535	0.33649	543.6			1104.9	
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA							
			Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.36171	10.3			-593.0	
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA							
			Open	147837	MASS230A	230	147839	MOSES E	230	1		0.02823	0.00000	18.8			18.8	
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA							
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA							
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA							
			Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch							
			Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch							
			Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch							
			Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch							
12511	1683.0	3056.5	L:	136759	BRNS FLS	115	136807	TAYLORVL	115	2		40.8	134.0	0.05537		0.04068	29.6	98.0
			C:	BrownsFalls 1							1725							
			Open	136759	BRNS FLS	115	136771	FLAT RCK	115	1		0.32988	-0.04059	-28.0			-96.4	
			Open	136759	BRNS FLS	115	136790	NEWTON F	115	1		0.49944	0.00000	0.2			0.2	
			Open	136759	BRNS FLS	115	136807	TAYLORVL	115	1		0.69030	0.04068	29.6			98.0	
12512	1686.2	3059.7	L:	137200	EDIC	345	147833	MARCY T1	345	1		-972.2	-1793.0	-0.48677		-0.31658	-268.4	-802.2
			C:	137453	N.SCOT99	345	147833	MARCY T1	345	1	1012							
			Open	137453	N.SCOT99	345	147833	MARCY T1	345	1		0.76829	-0.22152	-916.1			-1289.6	
12513	1693.9	3067.3	L:	136759	BRNS FLS	115	136807	TAYLORVL	115	1		41.3	135.0	0.05529		0.04068	29.6	98.5
			C:	BrownsFalls 2							1726							
			Open	136759	BRNS FLS	115	136775	HIGLEY	115	1		0.33089	-0.04077	-26.1			-95.1	
			Open	136759	BRNS FLS	115	136807	TAYLORVL	115	2		0.69077	0.04068	29.6			98.5	
12514	1705.6	3079.0	L:	136758	BREMEN	115	136807	TAYLORVL	115	1		-75.9	-134.0	-0.03404		-0.02328	-52.8	-92.5
			C:	Black River							1709							

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			Open 136755 BLACK RV	115	136762 CLIMAX	115	1		0.30937	-0.01781	-41.7	-72.1		
			Open 136755 BLACK RV	115	136793 NY AIR B	115	1		0.00000	0.00422	31.4	38.6		
			Open 136755 BLACK RV	115	136776 INDN RIV	115	1	NA						
			Open 136755 BLACK RV	115	136768 E WTRTWN	115	1		0.00000	0.01305	31.2	53.5		
			Open 136755 BLACK RV	115	136772 FT. DRUM	115	1		0.30937	-0.01697	-33.5	-62.4		
			Open 136216 LTHSE HL	115	136755 BLACK RV	115	1		-0.00000	-0.01742	4.4	-25.3		
			Open 136755 BLACK RV	115	136963 BLKRIVER	23.0	1		0.00488	0.00000	17.8	17.8		
12515	1706.5	3080.0	L: 136758 BREMEN	115	136807 TAYLORVL	115	1		-40.4	-134.0	-0.05488	-0.02328	-52.8	-92.5
			C:147839 MOSES E	230	147840 MOSES W	230	1	1232						
			Open 147839 MOSES E	230	147840 MOSES W	230	1		0.05624	-0.56170	220.6	-737.9		
12516	1714.6	3088.1	L: 137928 CHASES L	230	147835 ADRON B1	230	1		-164.9	-560.0	-0.23042	-0.09761	-131.6	-299.0
			C:HQ-NY-765-New					1778						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.18360	0.38694	624.7	1288.2		
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.18360	0.33649	543.6	1120.6		
			Open 156 MCV765SW	0.0	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	-0.36171	10.3	-609.9		
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1		-0.15191	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch						
12517	1718.1	3091.5	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1		-1383.1	-1725.0	-0.19900	-0.17453	-1241.0	-1540.9
			C:130750 COOPC345	345	130753 FRASR345	345	1	192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1		0.14248	-0.17177	-997.1	-1292.2		
12518	1727.5	3101.0	L: 136764 COLTON	115	136775 HIGLEY	115	1		45.8	159.0	0.06552	0.04077	28.7	99.2
			C:136759 BRNS FLS	115	136771 FLAT RCK	115	1	887						
			Open 136759 BRNS FLS	115	136771 FLAT RCK	115	1		-0.60968	-0.04059	-28.0	-98.2		
12519	1728.7	3102.1	L: 137200 EDIC	345	147833 MARCY T1	345	1		-953.3	-1793.0	-0.48576	-0.31658	-268.4	-815.6
			C:SIN:180					1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.76373	-0.22152	-916.1	-1299.0		
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.12208	0.00000	119.9	119.9		
			Open 137235 PORTER 1	115	147905 ILION	115	1		0.00118	0.00000	88.8	88.8		
12520	1728.7	3102.1	L: 137200 EDIC	345	147833 MARCY T1	345	1		-953.3	-1793.0	-0.48576	-0.31658	-268.4	-815.7
			C:SIN:170					1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.76373	-0.22152	-916.1	-1299.0		
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.12193	0.00000	119.9	119.9		
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00177	0.00001	74.8	74.9		
12521	1731.9	3105.4	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1		607.0	746.0	0.08023	0.04883	448.0	532.6
			C:SIN:440					1683						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1		0.14263	0.22015	1114.8	1496.1		
12522	1731.9	3105.4	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1		607.0	746.0	0.08023	0.04883	448.0	532.6
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7						

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			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.14263	0.22015	1114.8	1496.1
12523	1739.0	3112.4	L: 137200 EDIC	345	147833 MARCY T1	345	1	-956.9	-1793.0	-0.48079	-0.31658	-268.4	-818.9
			C:BUS:N.S._99				1615						
			Open 137453 N.SCOT99	345	147831 GILB	345	1			0.03732	0.00958	-310.7	-294.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.78180	-0.22152	-916.1	-1301.3
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.00336	-0.00578	118.7	108.6
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			-0.04503	-0.19183	-858.5	-1192.1
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.11450	0.00000	1.6	1.6
12524	1745.2	3118.7	L: 136758 BREMEN	115	136807 TAYLORVL	115	1	-74.0	-134.0	-0.03435	-0.02328	-52.8	-93.4
			C:136778 LOWVILLE	115	137221 BOONVL	115	1	918					
			Open 136778 LOWVILLE	115	137221 BOONVL	115	1			-0.47515	0.02330	44.8	85.4
12525	1747.9	3121.3	L: 136764 COLTON	115	136775 HIGLEY	115	1	44.5	159.0	0.06552	0.04077	28.7	100.0
			C:136764 COLTON	115	136771 FLAT RCK	115	1	899					
			Open 136764 COLTON	115	136771 FLAT RCK	115	1			0.60968	0.04059	25.9	96.8
12526	1752.7	3126.1	L: 137210 PORTER 2	230	137928 CHASES L	230	1	-93.0	-560.0	-0.26645	-0.09761	-159.3	-330.4
			C:147839 MOSES E	230	147840 MOSES W	230	1	1232					
			Open 147839 MOSES E	230	147840 MOSES W	230	1			0.30059	-0.56170	220.6	-763.8
12527	1773.6	3147.1	L: 136778 LOWVILLE	115	137221 BOONVL	115	1	73.1	134.0	0.03436	0.02330	44.8	86.1
			C:Boon-Taylor				1715						
			Open 136761 BU+LY+MO	115	137221 BOONVL	115	1			0.47527	0.02328	72.9	114.2
			Open 136761 BU+LY+MO	115	136848 LYNDL MR	115	1	NA					
			Open 136758 BREMEN	115	136761 BU+LY+MO	115	1	NA					
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1			0.31709	0.00000	-20.1	-20.1
12528	1773.9	3147.3	L: 137210 PORTER 2	230	147836 ADRON B2	230	1	-87.4	-560.0	-0.26645	-0.09761	-153.7	-326.8
			C:147839 MOSES E	230	147840 MOSES W	230	1	1232					
			Open 147839 MOSES E	230	147840 MOSES W	230	1			0.30059	-0.56170	220.6	-775.8
12529	1780.8	3154.3	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1	29.6	102.0	0.04068			
			Base Case										
12530	1784.3	3157.7	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1	-36.3	-135.0	-0.05529	-0.04059	-28.0	-100.5
			C:BrownsFalls 2				1726						
			Open 136759 BRNS FLS	115	136775 HIGLEY	115	1			0.66911	-0.04077	-26.1	-98.8
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	2			0.30923	0.04068	29.6	102.1
12531	1784.8	3158.3	L: 147844 PLAT T#4	230	147922 PLAT 115	115	1	61.2	-214.0	-0.15417	-0.09094	41.3	-121.0
			C:147859 DULEY	230	147980 PATNODE	230	1	1265					
			Open 147859 DULEY	230	147980 PATNODE	230	1			-0.64913	0.09740	-30.6	143.2
12532	1785.0	3158.5	L: 147844 PLAT T#4	230	147922 PLAT 115	115	1	61.2	-214.0	-0.15417	-0.09094	41.3	-121.1
			C:147845 WILLIS E	230	147980 PATNODE	230	1	1248					
			Open 147845 WILLIS E	230	147980 PATNODE	230	1			0.64913	-0.09740	30.7	-143.2
12533	1785.8	3159.3	L: 147844 PLAT T#4	230	147970 RYAN	230	1	-61.3	214.0	0.15417	0.09094	-41.4	121.0
			C:147859 DULEY	230	147980 PATNODE	230	1	1265					
			Open 147859 DULEY	230	147980 PATNODE	230	1			0.64913	0.09740	-30.6	143.3
12534	1786.0	3159.4	L: 147844 PLAT T#4	230	147970 RYAN	230	1	-61.3	214.0	0.15417	0.09094	-41.4	121.0
			C:147845 WILLIS E	230	147980 PATNODE	230	1	1248					
			Open 147845 WILLIS E	230	147980 PATNODE	230	1			-0.64913	-0.09740	30.7	-143.3
12535	1794.9	3168.4	L: 136759 BRNS FLS	115	136775 HIGLEY	115	1	-35.6	-135.0	-0.05537	-0.04077	-26.1	-99.3
			C:BrownsFalls 1				1725						
			Open 136759 BRNS FLS	115	136771 FLAT RCK	115	1			0.67012	-0.04059	-28.0	-100.9
			Open 136759 BRNS FLS	115	136790 NEWTON F	115	1			0.50056	0.00000	0.2	0.2

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				Open 136759 BRNS FLS	115	136807 TAYLORVL	115	1				0.30970	0.04068	29.6	102.6
12536	1822.1	3195.6	L:	136759 BRNS FLS	115	136771 FLAT RCK	115	1	-28.0	-102.0	-0.04059				
				Base Case											
12537	1825.7	3199.1	L:	147827 MARCY765	765	147833 MARCY T1	345	2	1097.4	2338.0	0.67952		0.33649	543.6	1157.9
			C:	147827 MARCY765	765	147833 MARCY T1	345	1 1218							
				Open 147827 MARCY765	765	147833 MARCY T1	345	1				0.88652	0.38694	624.7	1331.1
12538	1832.7	3206.2	L:	136758 BREMEN	115	136807 TAYLORVL	115	1	-77.2	-134.0	-0.03101		-0.02328	-52.8	-95.4
			C:	Taylorville 1				1721							
				Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1				0.52175	-0.02330	-66.0	-108.7
				Open 136788 N CARTHG	115	136807 TAYLORVL	115	1				0.17530	-0.01714	26.5	-4.9
				Open 136759 BRNS FLS	115	136807 TAYLORVL	115	1				0.18274	0.04068	29.6	104.1
12539	1841.4	3214.9	L:	125001 ROCK TAV	345	130750 COOPC345	345	2	-1292.6	-1793.0	-0.27175		-0.16079	-743.2	-1039.2
			C:	130750 COOPC345	345	146754 MDTN TAP	345	1 195							
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.62859	0.17652	874.1	1199.1
12540	1850.9	3224.4	L:	136778 LOWVILLE	115	137221 BOONVL	115	1	32.4	134.0	0.05490		0.02330	44.8	87.9
			C:	147839 MOSES E	230	147840 MOSES W	230	1 1232							
				Open 147839 MOSES E	230	147840 MOSES W	230	1				-0.05627	-0.56170	220.6	-819.0
12541	1856.7	3230.2	L:	137928 CHASES L	230	147835 ADRON B1	230	1	-65.3	-560.0	-0.26645		-0.09761	-131.6	-312.8
			C:	147839 MOSES E	230	147840 MOSES W	230	1 1232							
				Open 147839 MOSES E	230	147840 MOSES W	230	1				0.30059	-0.56170	220.6	-822.3
12542	1862.3	3235.7	L:	136759 BRNS FLS	115	136775 HIGLEY	115	1	-26.1	-102.0	-0.04077				
				Base Case											
12543	1862.8	3236.3	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1353.2	-1725.0	-0.19957		-0.18340	-1281.0	-1622.7
			C:	130750 COOPC345	345	147833 MARCY T1	345	1 196							
				Open 130750 COOPC345	345	147833 MARCY T1	345	1				0.09769	-0.16554	-739.1	-1047.5
12544	1866.3	3239.8	L:	136778 LOWVILLE	115	137221 BOONVL	115	1	69.9	134.0	0.03436		0.02330	44.8	88.3
			C:	136758 BREMEN	115	136807 TAYLORVL	115	1 886							
				Open 136758 BREMEN	115	136807 TAYLORVL	115	1				-0.47527	-0.02328	-52.8	-96.2
12545	1866.3	3239.8	L:	136778 LOWVILLE	115	137221 BOONVL	115	1	69.9	134.0	0.03436		0.02330	44.8	88.3
			C:	Taylorvl-Bremen				1706							
				Open 136758 BREMEN	115	136807 TAYLORVL	115	1				-0.47527	-0.02328	-52.8	-96.2
12546	1872.0	3245.4	L:	136758 BREMEN	115	136761 BU+LY+MO	115	1	54.6	146.0	0.04884		0.02328	46.9	90.5
			C:	HQ-NY-765-New				1778							
				Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
				Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
				Open 147827 MARCY765	765	147833 MARCY T1	345	1				0.03533	0.38694	624.7	1349.0
				Open 147827 MARCY765	765	147833 MARCY T1	345	2				0.03533	0.33649	543.6	1173.5
				Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA						
				Open 147838 MASS230B	230	147839 MOSES E	230	1				0.00000	-0.36171	10.3	-666.8
				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
				Open 147837 MASS230A	230	147839 MOSES E	230	1				0.02822	0.00000	18.8	18.8
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
				Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						
				Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA						
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							

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12547	1878.4	3251.9	L: 147843 PLAT T#1	230	147922 PLAT 115	115	1	66.0	-214.0	-0.14905	-0.09001	39.2	-129.9
			C:147844 PLAT T#4	230	147922 PLAT 115	115	1 1244						
			Open 147844 PLAT T#4	230	147922 PLAT 115	115	1			0.64916	-0.09094	41.3	-129.6
12548	1878.8	3252.3	L: 147843 PLAT T#1	230	147859 DULEY	230	1	-66.0	214.0	0.14905	0.09001	-39.2	129.9
			C:147844 PLAT T#4	230	147922 PLAT 115	115	1 1244						
			Open 147844 PLAT T#4	230	147922 PLAT 115	115	1			-0.64916	-0.09094	41.3	-129.6
12549	1879.1	3252.5	L: 147843 PLAT T#1	230	147922 PLAT 115	115	1	66.1	-214.0	-0.14905	-0.09001	39.2	-130.0
			C:147844 PLAT T#4	230	147970 RYAN	230	1 1245						
			Open 147844 PLAT T#4	230	147970 RYAN	230	1			-0.64916	0.09094	-41.4	129.5
12550	1879.1	3252.6	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2	29.6	106.0	0.04068			
			Base Case										
12551	1879.2	3252.7	L: 147844 PLAT T#4	230	147922 PLAT 115	115	1	66.7	-214.0	-0.14937	-0.09094	41.3	-129.6
			C:147843 PLAT T#1	230	147922 PLAT 115	115	1 1243						
			Open 147843 PLAT T#1	230	147922 PLAT 115	115	1			0.64913	-0.09001	39.2	-130.0
12552	1879.5	3252.9	L: 147843 PLAT T#1	230	147859 DULEY	230	1	-66.1	214.0	0.14905	0.09001	-39.2	129.9
			C:147844 PLAT T#4	230	147970 RYAN	230	1 1245						
			Open 147844 PLAT T#4	230	147970 RYAN	230	1			0.64916	0.09094	-41.4	129.5
12553	1879.5	3253.0	L: 147844 PLAT T#4	230	147922 PLAT 115	115	1	66.7	-214.0	-0.14937	-0.09094	41.3	-129.7
			C:147843 PLAT T#1	230	147859 DULEY	230	1 1242						
			Open 147843 PLAT T#1	230	147859 DULEY	230	1			-0.64913	0.09001	-39.2	129.9
12554	1880.3	3253.7	L: 147844 PLAT T#4	230	147970 RYAN	230	1	-66.9	214.0	0.14937	0.09094	-41.4	129.6
			C:147843 PLAT T#1	230	147922 PLAT 115	115	1 1243						
			Open 147843 PLAT T#1	230	147922 PLAT 115	115	1			-0.64913	-0.09001	39.2	-130.1
12555	1880.5	3254.0	L: 147844 PLAT T#4	230	147970 RYAN	230	1	-66.9	214.0	0.14937	0.09094	-41.4	129.6
			C:147843 PLAT T#1	230	147859 DULEY	230	1 1242						
			Open 147843 PLAT T#1	230	147859 DULEY	230	1			0.64913	0.09001	-39.2	130.0
12556	1887.2	3260.7	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1353.2	-1725.0	-0.19702	-0.18340	-1281.0	-1627.1
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.09362	0.17652	874.1	1207.2
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.02277	-0.12769	-425.4	-666.3
12557	1913.6	3287.0	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1214.0	-1724.0	-0.26650	-0.19183	-858.5	-1225.6
			C:BUS:N.S._77				1614						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.60779	-0.02589	-248.0	-297.6
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.40443	-0.00555	111.8	101.2
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.33531	0.19809	819.4	1198.5
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.26699	-0.03645	-92.7	-162.4
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.20561	0.00000	-0.0	-0.0
12558	1930.1	3303.5	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1229.4	-1792.0	-0.29149	-0.22152	-916.1	-1343.6
			C:SIN:160				1670						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.35322	0.19809	819.4	1201.7
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19918	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			-0.00023	0.00001	74.8	74.9
12559	1930.1	3303.5	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1229.4	-1792.0	-0.29149	-0.22152	-916.1	-1343.6
			C:SIN:150				1669						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.35322	0.19809	819.4	1201.7
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19920	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILLION	115	1			-0.00016	0.00000	88.8	88.8
12560	1938.4	3311.9	L: 136778 LOWVILLE	115	137221 BOONVL	115	1	68.0	134.0	0.03406	0.02330	44.8	89.9

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			C:Black River											1709
			Open 136755 BLACK RV	115	136762 CLIMAX	115	1				-0.30952	-0.01781	-41.7	-76.2
			Open 136755 BLACK RV	115	136793 NY AIR B	115	1				0.00000	0.00422	31.4	39.6
			Open 136755 BLACK RV	115	136776 INDN RIV	115	1		NA					
			Open 136755 BLACK RV	115	136768 E WTRTWN	115	1				0.00000	0.01305	31.2	56.5
			Open 136755 BLACK RV	115	136772 FT. DRUM	115	1				-0.30952	-0.01697	-33.5	-66.4
			Open 136216 LTHSE HL	115	136755 BLACK RV	115	1				-0.00000	-0.01742	4.4	-29.4
			Open 136755 BLACK RV	115	136963 BLKRIVER	23.0	1				-0.00489	0.00000	17.8	17.8
12561	1939.4	3312.8	*L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1344.5	-1725.0	-0.19621		-0.18340	-1281.0	-1636.7
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.07257	0.17652	874.1	1216.4
12562	1947.7	3321.2	L: 136778 LOWVILLE	115	137221 BOONVL	115	1	67.1	134.0	0.03436		0.02330	44.8	90.2
			C:136758 BREMEN	115	136761 BU+LY+MO	115	1	885						
			Open 136758 BREMEN	115	136761 BU+LY+MO	115	1				0.47527	0.02328	46.9	92.2
12563	1947.7	3321.2	*L: 136778 LOWVILLE	115	137221 BOONVL	115	1	67.1	134.0	0.03436		0.02330	44.8	90.2
			C:Bremen-Lyons Falls Tap											1705
			Open 136758 BREMEN	115	136761 BU+LY+MO	115	1				0.47527	0.02328	46.9	92.2
12564	1950.5	3323.9	L: 136764 COLTON	115	136771 FLAT RCK	115	1	34.2	142.0	0.05529		0.04059	25.9	105.0
			C:BrownsFalls 2											1726
			Open 136759 BRNS FLS	115	136775 HIGLEY	115	1				-0.66911	-0.04077	-26.1	-105.6
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	2				-0.30923	0.04068	29.6	108.9
12565	1971.9	3345.4	L: 136758 BREMEN	115	136761 BU+LY+MO	115	1	78.3	146.0	0.03435		0.02328	46.9	92.8
			C:Lowville-Taylorvl											1703
			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1				-0.47515	-0.02330	-66.0	-112.0
12566	1971.9	3345.4	L: 136758 BREMEN	115	136761 BU+LY+MO	115	1	78.3	146.0	0.03435		0.02328	46.9	92.8
			C:136778 LOWVILLE	115	136807 TAYLORVL	115	1	917						
			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1				-0.47515	-0.02330	-66.0	-112.0
12567	1972.8	3346.3	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1262.4	-1793.0	-0.26895		-0.16079	-743.2	-1060.4
			C:SER:CMT34&MTR34											1593
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.55569	0.17652	874.1	1222.3
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.07885	-0.12769	-425.4	-677.3
12575	2017.2	3390.7	L: 136755 BLACK RV	115	136762 CLIMAX	115	1	-73.2	-134.0	-0.03014		-0.01781	-41.7	-77.6
			C:5+6_2											1719
			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1				0.26471	-0.02330	-66.0	-113.0
			Open 136761 BU+LY+MO	115	137221 BOONVL	115	1				-0.26471	0.02328	72.9	119.9
			Open 136761 BU+LY+MO	115	136848 LYNDL MR	115	1			NA				
			Open 136758 BREMEN	115	136761 BU+LY+MO	115	1			NA				
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1				-0.26214	0.00000	-20.1	-20.1
12577	2020.6	3394.1	L: Interface 14 Leeds-PV					2663.0	3450.0	0.38948		0.35792	2522.1	3245.3
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1				-0.19065	-0.16554	-739.1	-1073.6
12578	2032.4	3405.9	L: 136758 BREMEN	115	136761 BU+LY+MO	115	1	34.5	146.0	0.05488		0.02328	46.9	94.2
			C:147839 MOSES E	230	147840 MOSES W	230	1	1232						
			Open 147839 MOSES E	230	147840 MOSES W	230	1				-0.05624	-0.56170	220.6	-921.0
12580	2043.0	3416.4	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1199.5	-1792.0	-0.29003		-0.22152	-916.1	-1368.6
			C:137200 EDIC	345	137452 N.SCOT77	345	1	946						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.34586	0.19809	819.4	1224.1
12583	2047.1	3420.5	L: Interface 14 Leeds-PV					2662.9	3450.0	0.38450		0.35792	2522.1	3254.8

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				C:130821 KENTS115	115	130825 LYONS115	115	1	323										
				Open 130821 KENTS115	115	130825 LYONS115	115	1				0.05408	0.03233	-5.0	63.2				
12597	2111.0	3484.5	L:	131753 NOEND115	115	147922 PLAT 115	115	1		110.8	388.0	0.13133		0.12958	111.1	384.7			
				C:130777 BRAIN115	115	130825 LYONS115	115	1	240										
				Open 130777 BRAIN115	115	130825 LYONS115	115	1				-0.05408	-0.03233	6.4	-61.9				
12598	2111.0	3484.5	L:	131753 NOEND115	115	147922 PLAT 115	115	1		110.8	388.0	0.13133		0.12958	111.1	384.7			
				C:130777 BRAIN115	115	130784 CHATP115	115	1	239										
				Open 130777 BRAIN115	115	130784 CHATP115	115	1				0.05408	0.03233	-6.4	61.8				
12599	2111.2	3484.7	L:	137200 EDIC	345	137452 N.SCOT77	345	1		1149.2	1724.0	0.27228		0.19809	819.4	1237.6			
				C:SIN:170					1671										
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33494	-0.22152	-916.1	-1383.8				
				Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19090	0.00000	119.9	119.9				
				Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00024	0.00001	74.8	74.9				
12600	2111.2	3484.7	L:	137200 EDIC	345	137452 N.SCOT77	345	1		1149.2	1724.0	0.27228		0.19809	819.4	1237.6			
				C:SIN:180					1672										
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33494	-0.22152	-916.1	-1383.8				
				Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19092	0.00000	119.9	119.9				
				Open 137235 PORTER 1	115	147905 ILION	115	1				0.00016	0.00000	88.8	88.8				
12601	2114.4	3487.9	L:	131753 NOEND115	115	147922 PLAT 115	115	1		111.6	388.0	0.13073		0.12958	111.1	385.1			
				C:130802 FLATR115	115	131754 MASON115	115	1	291										
				Open 130802 FLATR115	115	131754 MASON115	115	1				-0.33673	-0.00342	-1.4	-8.6				
12602	2118.6	3492.0	L:	136759 BRNS FLS	115	136807 TAYLORVL	115	1		42.0	135.0	0.04391		0.04068	29.6	115.7			
				C:136750 ALCOA-NM	115	147847 ALCOA N	115	1	867										
				Open 136750 ALCOA-NM	115	147847 ALCOA N	115	1				0.26941	0.01198	46.1	71.5				
12603	2124.5	3497.9	L:	136750 ALCOA-NM	115	136767 DENNISON	115	1		-20.3	222.0	0.11404		0.03741	9.8	89.3			
				C:147839 MOSES E	230	147840 MOSES W	230	1	1232										
				Open 147839 MOSES E	230	147840 MOSES W	230	1				-0.13642	-0.56170	220.6	-972.7				
12604	2128.0	3501.4	*L:	131753 NOEND115	115	147922 PLAT 115	115	1		111.2	388.0	0.13007		0.12958	111.1	386.9			
				C:HQ-NY-765-New					1778										
				Open 147827 MARCY765	765	147828 MASS 765	765	1		NA									
				Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA									
				Open 147827 MARCY765	765	147833 MARCY T1	345	1				0.00068	0.38694	624.7	1448.1				
				Open 147827 MARCY765	765	147833 MARCY T1	345	2				0.00068	0.33649	543.6	1259.6				
				Open 156 MCV765SW	0.0	147827 MARCY765	765	1		NA									
				Open 147838 MASS230B	230	147839 MOSES E	230	1				-0.00000	-0.36171	10.3	-759.4				
				Open 147828 MASS 765	765	147838 MASS230B	230	1		NA									
				Open 147837 MASS230A	230	147839 MOSES E	230	1				0.00065	0.00000	18.8	18.8				
				Open 147828 MASS 765	765	147837 MASS230A	230	1		NA									
				Open 158 MS765SW2	0.0	147828 MASS 765	765	1		NA									
				Open 157 MS765SW1	0.0	147828 MASS 765	765	1		NA									
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch											
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch											
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch											
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch											
12612	2133.6	3507.0	L:	Interface 14 Leeds-PV						2625.9	3450.0	0.38624		0.35792	2522.1	3285.7			
				C:SER:PV_LM_398					1597										
				Open 103105 LONG MTN	345	103117 CTNY398	345	1				0.33673	0.08410	308.5	488.0				
				Open 103117 CTNY398	345	126294 PLTVLLEY	345	1				-0.23700	0.00000	0.2	0.2				

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12613	2133.6	3507.1	*L: Interface 14 Leeds-PV			2625.9	3450.0	0.38624		0.35792	2522.1	3285.8
			C:103117 CTNY398 345 126294 PLTVLLEY 345 1 1362									
			Open 103117 CTNY398 345 126294 PLTVLLEY 345 1						0.33673	0.08410	308.3	487.7
12614	2133.6	3507.1	L: 136761 BU+LY+MO 115 137221 BOONVL 115 1			73.4	146.0	0.03404		0.02328	72.9	122.6
			C:5+6 1718									
			Open 136216 LTHSE HL 115 136768 E WTRTWN 115 1						-0.30937	-0.01737	9.0	-28.1
			Open 136755 BLACK RV 115 136768 E WTRTWN 115 1						0.00000	0.01305	31.2	59.1
			Open 136763 COFFEEN 115 136768 E WTRTWN 115 1						0.30449	0.00000	15.0	15.0
			Open 136216 LTHSE HL 115 136755 BLACK RV 115 1						-0.30937	-0.01742	4.4	-32.8
14367	2158.6	3532.0	L: 136759 BRNS FLS 115 136771 FLAT RCK 115 1			-40.4	-135.0	-0.04381		-0.04059	-28.0	-115.7
			C:136750 ALCOA-NM 115 147847 ALCOA N 115 1 867									
			Open 136750 ALCOA-NM 115 147847 ALCOA N 115 1						-0.26879	0.01198	46.1	72.0
14370	2178.4	3551.9	L: 147836 ADRON B2 230 147840 MOSES W 230 1			-150.2	-440.0	-0.13304		-0.09761	-110.2	-322.8
			C:147835 ADRON B1 230 147840 MOSES W 230 1 1228									
			Open 147835 ADRON B1 230 147840 MOSES W 230 1						0.36299	-0.09761	-110.2	-322.8
14371	2178.4	3551.9	L: 147835 ADRON B1 230 147840 MOSES W 230 1			-150.2	-440.0	-0.13304		-0.09761	-110.2	-322.8
			C:147836 ADRON B2 230 147840 MOSES W 230 1 1229									
			Open 147836 ADRON B2 230 147840 MOSES W 230 1						0.36299	-0.09761	-110.2	-322.8
14373	2180.5	3554.0	L: 136764 COLTON 115 136775 HIGLEY 115 1			38.3	159.0	0.05537		0.04077	28.7	117.6
			C:BrownsFalls 1 1725									
			Open 136759 BRNS FLS 115 136771 FLAT RCK 115 1						-0.67012	-0.04059	-28.0	-116.5
			Open 136759 BRNS FLS 115 136790 NEWTON F 115 1						-0.50056	0.00000	0.2	0.2
			Open 136759 BRNS FLS 115 136807 TAYLORVL 115 1						-0.30970	0.04068	29.6	118.3
14375	2186.5	3559.9	L: 126294 PLTVLLEY 345 137455 ATHENS 345 1			-1309.8	-1725.0	-0.18992		-0.17453	-1241.0	-1622.6
			C:130750 COOPC345 345 147833 MARCY T1 345 1 196									
			Open 130750 COOPC345 345 147833 MARCY T1 345 1						0.09296	-0.16554	-739.1	-1101.1
14377	2192.3	3565.8	L: 136759 BRNS FLS 115 136775 HIGLEY 115 1			-38.5	-135.0	-0.04401		-0.04077	-26.1	-115.5
			C:136750 ALCOA-NM 115 147847 ALCOA N 115 1 867									
			Open 136750 ALCOA-NM 115 147847 ALCOA N 115 1						-0.27002	0.01198	46.1	72.4
14378	2194.3	3567.8	L: 147852 PLAT T#3 115 147922 PLAT 115 115 3			-118.5	-302.0	-0.08361		0.00000	-115.5	-115.5
			C:HQ-NY-765-New 1778									
			Open 147827 MARCY765 765 147828 MASS 765 765 1 NA									
			Open 147828 MASS 765 765 180819 CHA-NY 765 1 NA									
			Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.11557	0.38694	624.7	1473.8
			Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.11557	0.33649	543.6	1282.0
			Open 156 MCY765SW 0.0 147827 MARCY765 765 1 NA									
			Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.36171	10.3	-783.4
			Open 147828 MASS 765 765 147838 MASS230B 230 1 NA									
			Open 147837 MASS230A 230 147839 MOSES E 230 1						-0.10883	0.00000	18.8	18.8
			Open 147828 MASS 765 765 147837 MASS230A 230 1 NA									
			Open 158 MS765SW2 0.0 147828 MASS 765 765 1 NA									
			Open 157 MS765SW1 0.0 147828 MASS 765 765 1 NA									
			Decrease bus 180001 BEA-DLX 13.8 generation by 100.0 percent dispatch									
			Set bus 181319 CHAT G3 120 load to 357.0 MW dispatch									
			Decrease bus 180002 BEA-DL 13.8 generation by 100.0 percent dispatch									
			Set bus 181419 CHAT G4 120 load to 357.0 MW dispatch									
14380	2199.2	3572.7	L: 147838 MASS230B 230 147839 MOSES E 230 1			17.7	-1348.0	-0.62101		-0.36171	10.3	-785.2
			C:147837 MASS230A 230 147839 MOSES E 230 1 1230									

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			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.71684	-0.36171	10.3	-785.2
14381	2199.2	3572.7	L: 147837 MASS230A	230	147839 MOSES E	230	1	17.7	-1348.0	-0.62101	-0.36171	10.3	-785.2
			C:147838 MASS230B	230	147839 MOSES E	230	1 1231						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.71684	-0.36171	10.3	-785.2
14382	2199.2	3572.7	L: 147838 MASS230B	230	147839 MOSES E	230	1	17.7	-1348.0	-0.62101	-0.36171	10.3	-785.2
			C:SER:MASS765/230_1				1591						
			Open 147828 MASS 765	765	147837 MASS230A	230	1			0.71684	-0.36171	10.3	-785.2
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.41839	0.00000	0.0	0.0
14383	2199.2	3572.7	L: 147837 MASS230A	230	147839 MOSES E	230	1	17.7	-1348.0	-0.62101	-0.36171	10.3	-785.2
			C:SER:MASS765/230_2				1592						
			Open 147828 MASS 765	765	147838 MASS230B	230	1			0.71684	-0.36171	10.3	-785.2
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.41839	0.00000	0.0	0.0
14384	2199.2	3572.7	L: 147838 MASS230B	230	147839 MOSES E	230	1	17.7	-1348.0	-0.62101	-0.36171	10.3	-785.2
			C:147828 MASS 765	765	147837 MASS230A	230	1 1220						
			Open 147828 MASS 765	765	147837 MASS230A	230	1			0.71684	-0.36171	10.3	-785.2
14385	2199.2	3572.7	L: 147837 MASS230A	230	147839 MOSES E	230	1	17.7	-1348.0	-0.62101	-0.36171	10.3	-785.2
			C:147828 MASS 765	765	147838 MASS230B	230	1 1221						
			Open 147828 MASS 765	765	147838 MASS230B	230	1			0.71684	-0.36171	10.3	-785.2
14386	2199.2	3572.7	L: 147828 MASS 765	765	147837 MASS230A	230	1	17.7	-1348.0	-0.62101	-0.36171	10.3	-785.2
			C:147838 MASS230B	230	147839 MOSES E	230	1 1231						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.71684	-0.36171	10.3	-785.2
14387	2199.2	3572.7	L: 147828 MASS 765	765	147838 MASS230B	230	1	17.7	-1348.0	-0.62101	-0.36171	10.3	-785.2
			C:147837 MASS230A	230	147839 MOSES E	230	1 1230						
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.71684	-0.36171	10.3	-785.2
14388	2199.2	3572.7	L: 147828 MASS 765	765	147837 MASS230A	230	1	17.7	-1348.0	-0.62101	-0.36171	10.3	-785.2
			C:SER:MASS765/230_2				1592						
			Open 147828 MASS 765	765	147838 MASS230B	230	1			0.71684	-0.36171	10.3	-785.2
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.41839	0.00000	0.0	0.0
14389	2199.2	3572.7	L: 147828 MASS 765	765	147838 MASS230B	230	1	17.7	-1348.0	-0.62101	-0.36171	10.3	-785.2
			C:SER:MASS765/230_1				1591						
			Open 147828 MASS 765	765	147837 MASS230A	230	1			0.71684	-0.36171	10.3	-785.2
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.41839	0.00000	0.0	0.0
14390	2199.2	3572.7	L: 147828 MASS 765	765	147837 MASS230A	230	1	17.7	-1348.0	-0.62101	-0.36171	10.3	-785.2
			C:147828 MASS 765	765	147838 MASS230B	230	1 1221						
			Open 147828 MASS 765	765	147838 MASS230B	230	1			0.71684	-0.36171	10.3	-785.2
14391	2199.2	3572.7	L: 147828 MASS 765	765	147838 MASS230B	230	1	17.7	-1348.0	-0.62101	-0.36171	10.3	-785.2
			C:147828 MASS 765	765	147837 MASS230A	230	1 1220						
			Open 147828 MASS 765	765	147837 MASS230A	230	1			0.71684	-0.36171	10.3	-785.2
14392	2206.5	3580.0	L: 137210 PORTER 2	230	147836 ADRON B2	230	1	-226.1	-560.0	-0.15132	-0.09761	-153.7	-369.0
			C:137928 CHASES L	230	147835 ADRON B1	230	1 1189						
			Open 137928 CHASES L	230	147835 ADRON B1	230	1			0.55037	-0.09761	-131.6	-347.0
14393	2207.5	3580.9	L: 146758 CHESTER	138	146773 SGRLF138	138	1	202.6	317.0	0.05183	0.02901	126.6	190.6
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1 9						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.17871	-0.12769	-425.4	-707.2
14395	2215.1	3588.5	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1309.7	-1725.0	-0.18749	-0.17453	-1241.0	-1627.6
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.08910	0.17652	874.1	1265.1
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.02167	-0.12769	-425.4	-708.2

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14398	2230.9	3604.3	L: 136758 BREMEN	115	136761 BU+LY+MO	115	1	70.1	146.0	0.03404	0.02328	46.9	98.8
			C:Black River										
			Open 136755 BLACK RV	115	136762 CLIMAX	115	1						
			Open 136755 BLACK RV	115	136793 NY AIR B	115	1			-0.30937	-0.01781	-41.7	-81.4
			Open 136755 BLACK RV	115	136776 INDN RIV	115	1	NA		0.00000	0.00422	31.4	40.9
			Open 136755 BLACK RV	115	136768 E WTRTWN	115	1			0.00000	0.01305	31.2	60.3
			Open 136755 BLACK RV	115	136772 FT. DRUM	115	1			-0.30937	-0.01697	-33.5	-71.3
			Open 136216 LTHSE HL	115	136755 BLACK RV	115	1			-0.00000	-0.01742	4.4	-34.5
			Open 136755 BLACK RV	115	136963 BLKRIVER	23.0	1			-0.00488	0.00000	17.8	17.8
14399	2231.1	3604.5	L: 147827 MARCY765	765	147833 MARCY T1	345	1	624.7	1488.0	0.38694			
			Base Case										
14400	2232.1	3605.6	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1119.7	1724.0	0.27071	0.19809	819.4	1261.6
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1 1012						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.32784	-0.22152	-916.1	-1410.5
14401	2234.5	3608.0	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2	29.4	134.0	0.04682	0.04068	29.6	120.5
			C:147838 MASS230B	230	147839 MOSES E	230	1 1231						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.01697	-0.36171	10.3	-797.9
14402	2234.5	3608.0	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2	29.4	134.0	0.04682	0.04068	29.6	120.5
			C:147837 MASS230A	230	147839 MOSES E	230	1 1230						
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.01697	-0.36171	10.3	-797.9
14403	2234.5	3608.0	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2	29.4	134.0	0.04682	0.04068	29.6	120.5
			C:SER:MASS765/230_2										
			Open 147828 MASS 765	765	147838 MASS230B	230	1			-0.01697	-0.36171	10.3	-797.9
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.02557	0.00000	0.0	0.0
14404	2234.5	3608.0	*L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2	29.4	134.0	0.04682	0.04068	29.6	120.5
			C:SER:MASS765/230_1										
			Open 147828 MASS 765	765	147837 MASS230A	230	1			-0.01697	-0.36171	10.3	-797.9
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.02557	0.00000	0.0	0.0
14412	2255.9	3629.3	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1	29.4	135.0	0.04682	0.04068	29.6	121.3
			C:SER:MASS765/230_2										
			Open 147828 MASS 765	765	147838 MASS230B	230	1			-0.01697	-0.36171	10.3	-805.6
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.02557	0.00000	0.0	0.0
14413	2255.9	3629.3	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1	29.4	135.0	0.04682	0.04068	29.6	121.3
			C:147837 MASS230A	230	147839 MOSES E	230	1 1230						
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.01697	-0.36171	10.3	-805.6
14414	2255.9	3629.3	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1	29.4	135.0	0.04682	0.04068	29.6	121.3
			C:SER:MASS765/230_1										
			Open 147828 MASS 765	765	147837 MASS230A	230	1			-0.01697	-0.36171	10.3	-805.6
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.02557	0.00000	0.0	0.0
14415	2255.9	3629.3	*L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1	29.4	135.0	0.04682	0.04068	29.6	121.3
			C:147838 MASS230B	230	147839 MOSES E	230	1 1231						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.01697	-0.36171	10.3	-805.6
14419	2257.0	3630.4	L: 147844 PLAT T#4	230	147922 PLAT 115	115	1	-8.7	-214.0	-0.09094	-0.09094	41.3	-164.0
			C:147852 PLAT T#3	115	147922 PLAT 115	115	3 1264						
			Open 147852 PLAT T#3	115	147922 PLAT 115	115	3			0.43320	0.00000	-115.5	-115.5
14420	2257.0	3630.5	L: 147843 PLAT T#1	230	147922 PLAT 115	115	1	-10.8	-214.0	-0.09001	-0.09001	39.2	-164.0
			C:147852 PLAT T#3	115	147922 PLAT 115	115	3 1264						
			Open 147852 PLAT T#3	115	147922 PLAT 115	115	3			0.43325	0.00000	-115.5	-115.5

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14421	2257.7	3631.2	L: 147843 PLAT T#1	230	147859 DULEY	230	1	10.8	214.0	0.09001	0.09001	-39.2	164.0
			C:147852 PLAT T#3	115	147922 PLAT 115	115	3 1264						
			Open 147852 PLAT T#3	115	147922 PLAT 115	115	3			-0.43325	0.00000	-115.5	-115.5
14422	2258.6	3632.1	L: 147844 PLAT T#4	230	147970 RYAN	230	1	8.6	214.0	0.09094	0.09094	-41.4	164.0
			C:147852 PLAT T#3	115	147922 PLAT 115	115	3 1264						
			Open 147852 PLAT T#3	115	147922 PLAT 115	115	3			-0.43320	0.00000	-115.5	-115.5
14424	2261.2	3634.6	L: 147844 PLAT T#4	230	147922 PLAT 115	115	1	-8.4	-214.0	-0.09094	-0.09094	41.3	-164.4
			C:100511 GRAND IS	115	147852 PLAT T#3	115	1 1357						
			Open 100511 GRAND IS	115	147852 PLAT T#3	115	1			0.43320	0.00000	-114.6	-114.6
14425	2261.3	3634.7	L: 147843 PLAT T#1	230	147922 PLAT 115	115	1	-10.5	-214.0	-0.09001	-0.09001	39.2	-164.4
			C:100511 GRAND IS	115	147852 PLAT T#3	115	1 1357						
			Open 100511 GRAND IS	115	147852 PLAT T#3	115	1			0.43325	0.00000	-114.6	-114.6
14426	2262.0	3635.4	L: 147843 PLAT T#1	230	147859 DULEY	230	1	10.4	214.0	0.09001	0.09001	-39.2	164.4
			C:100511 GRAND IS	115	147852 PLAT T#3	115	1 1357						
			Open 100511 GRAND IS	115	147852 PLAT T#3	115	1			-0.43325	0.00000	-114.6	-114.6
14427	2262.8	3636.3	L: 147844 PLAT T#4	230	147970 RYAN	230	1	8.2	214.0	0.09094	0.09094	-41.4	164.4
			C:100511 GRAND IS	115	147852 PLAT T#3	115	1 1357						
			Open 100511 GRAND IS	115	147852 PLAT T#3	115	1			-0.43320	0.00000	-114.6	-114.6
14430	2265.8	3639.3	L: 136758 BREMEN	115	136761 BU+LY+MO	115	1	68.2	146.0	0.03435	0.02328	46.9	99.6
			C:136778 LOWVILLE	115	137221 BOONVL	115	1 918						
			Open 136778 LOWVILLE	115	137221 BOONVL	115	1			0.47515	0.02330	44.8	97.6
14431	2268.2	3641.7	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1184.4	-1724.0	-0.23788	-0.19308	-863.0	-1300.9
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34981	-0.12807	-918.9	-1209.4
14432	2268.6	3642.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1301.4	-1725.0	-0.18672	-0.17453	-1241.0	-1637.0
			C:130750 COOPC345	345	146754 MDTN TAP	345	1 195						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.06906	0.17652	874.1	1274.5
14434	2272.1	3645.6	L: 137928 CHASES L	230	147835 ADRON B1	230	1	-216.2	-560.0	-0.15132	-0.09761	-131.6	-353.4
			C:137210 PORTER 2	230	147836 ADRON B2	230	1 955						
			Open 137210 PORTER 2	230	147836 ADRON B2	230	1			0.55037	-0.09761	-153.7	-375.4
14436	2280.2	3653.6	L: 130753 FRASR345	345	137200 EDIC	345	1	-894.6	-1380.0	-0.21286	-0.17208	-706.7	-1099.1
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.18409	-0.22152	-916.1	-1421.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.16035	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			-0.00053	0.00001	74.8	74.9
14437	2280.2	3653.7	L: 130753 FRASR345	345	137200 EDIC	345	1	-894.6	-1380.0	-0.21286	-0.17208	-706.7	-1099.1
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.18409	-0.22152	-916.1	-1421.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.16039	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			-0.00035	0.00000	88.8	88.8
14441	2284.1	3657.6	L: 130753 FRASR345	345	137200 EDIC	345	1	-892.1	-1380.0	-0.21360	-0.17208	-706.7	-1099.8
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.25081	-0.16554	-739.1	-1117.3
14445	2293.4	3666.8	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1	-27.9	-135.0	-0.04671	-0.04059	-28.0	-121.1
			C:SER:MASS765/230_1				1591						
			Open 147828 MASS 765	765	147837 MASS230A	230	1			0.01693	-0.36171	10.3	-819.2
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.02551	0.00000	0.0	0.0
14446	2293.4	3666.8	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1	-27.9	-135.0	-0.04671	-0.04059	-28.0	-121.1

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Base Case													
14499	2334.0	3707.5	L: 147844 PLAT T#4	230	147922 PLAT 115	115	1	46.6	-214.0	-0.11164	-0.09094	41.3	-171.0
			C:130784 CHATP115	115	147856 WILL 115	115	1 248						
			Open 130784 CHATP115	115	147856 WILL 115	115	1			-0.43883	0.04715	-12.0	98.0
14500	2334.7	3708.2	L: 147843 PLAT T#1	230	147922 PLAT 115	115	1	44.5	-214.0	-0.11070	-0.09001	39.2	-171.0
			C:130784 CHATP115	115	147856 WILL 115	115	1 248						
			Open 130784 CHATP115	115	147856 WILL 115	115	1			-0.43888	0.04715	-12.0	98.0
14501	2335.3	3708.8	L: 147843 PLAT T#1	230	147859 DULEY	230	1	-44.5	214.0	0.11070	0.09001	-39.2	171.0
			C:130784 CHATP115	115	147856 WILL 115	115	1 248						
			Open 130784 CHATP115	115	147856 WILL 115	115	1			0.43888	0.04715	-12.0	98.1
14502	2335.4	3708.8	L: 147844 PLAT T#4	230	147970 RYAN	230	1	-46.7	214.0	0.11164	0.09094	-41.4	171.0
			C:130784 CHATP115	115	147856 WILL 115	115	1 248						
			Open 130784 CHATP115	115	147856 WILL 115	115	1			0.43883	0.04715	-12.0	98.1
14503	2335.9	3709.4	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1117.4	1724.0	0.25970	0.19809	819.4	1282.1
			C:BUS:N.S._99				1615						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			-0.18532	0.00958	-310.7	-288.3
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.38312	-0.22152	-916.1	-1433.5
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			-0.09741	-0.00578	118.7	105.2
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.11491	-0.19183	-858.5	-1306.6
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.24148	0.00000	1.6	1.6
14514	2348.8	3722.3	L: 130784 CHATP115	115	147856 WILL 115	115	1	-15.5	143.0	0.06748	0.04715	-12.0	98.7
			C:147846 WILLIS W	230	147970 RYAN	230	1 1250						
			Open 147846 WILLIS W	230	147970 RYAN	230	1			-0.18427	-0.11033	18.8	-240.4
14516	2350.6	3724.1	L: 136761 BU+LY+MO	115	137221 BOONVL	115	1	66.0	146.0	0.03404	0.02328	72.9	127.6
			C:1+2				1716						
			Open 136755 BLACK RV	115	136762 CLIMAX	115	1			-0.30937	-0.01781	-41.7	-83.6
			Open 136762 CLIMAX	115	136788 N CARTHG	115	1			0.30449	0.00000	-58.8	-58.8
			Open 136755 BLACK RV	115	136772 FT. DRUM	115	1			-0.30937	-0.01697	-33.5	-73.4
			Open 136766 DEFERIET	115	136772 FT. DRUM	115	1		NA				
			Open 136766 DEFERIET	115	136807 TAYLORVL	115	1			0.30449	0.00000	-40.3	-40.3
14536	2368.3	3741.8	L: 136764 COLTON	115	136771 FLAT RCK	115	1	38.2	142.0	0.04381	0.04059	25.9	122.0
			C:136750 ALCOA-NM	115	147847 ALCOA N	115	1 867						
			Open 136750 ALCOA-NM	115	147847 ALCOA N	115	1			0.26879	0.01198	46.1	74.5
14542	2370.7	3744.2	L: 136755 BLACK RV	115	136762 CLIMAX	115	1	-31.8	-134.0	-0.04313	-0.01781	-41.7	-83.9
			C:147839 MOSES E	230	147840 MOSES W	230	1 1232						
			Open 147839 MOSES E	230	147840 MOSES W	230	1			0.04507	-0.56170	220.6	-1111.0
14544	2372.8	3746.3	L: 136758 BREMEN	115	136807 TAYLORVL	115	1	-53.2	-134.0	-0.03404	-0.02328	-52.8	-108.0
			C:5+6				1718						
			Open 136216 LTHSE HL	115	136768 E WTRTWN	115	1			0.30937	-0.01737	9.0	-32.2
			Open 136755 BLACK RV	115	136768 E WTRTWN	115	1			-0.00000	0.01305	31.2	62.2
			Open 136763 COFFEN	115	136768 E WTRTWN	115	1			-0.30449	0.00000	15.0	15.0
			Open 136216 LTHSE HL	115	136755 BLACK RV	115	1			0.30937	-0.01742	4.4	-37.0
14552	2379.5	3753.0	L: 137200 EDIC	345	147833 MARCY T1	345	1	-771.5	-1793.0	-0.42927	-0.31658	-268.4	-1021.7
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.68073	-0.16554	-739.1	-1133.0
14626	2407.0	3780.5	L: 130753 FRASR345	345	137200 EDIC	345	1	-877.5	-1380.0	-0.20875	-0.17208	-706.7	-1120.9
			C:SIN:160				1670						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.18514	0.19809	819.4	1296.2

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			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				-0.15892	0.00000	119.9	119.9		
			Open 137235	PORTER 1	115	137246	VALLEY	115	1				-0.00053	0.00001	74.8	74.9		
14627	2407.0	3780.5	L: 130753	FRASR345	345	137200	EDIC	345	1				-877.5	-1380.0	-0.20875	-0.17208	-706.7	-1120.9
			C:SIN:150													1669		
			Open 137200	EDIC	345	137452	N.SCOT77	345	1				-0.18514	0.19809	819.4	1296.2		
			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				-0.15896	0.00000	119.9	119.9		
			Open 137235	PORTER 1	115	147905	ILION	115	1				-0.00035	0.00000	88.8	88.8		
14641	2409.2	3782.6	L: 130753	FRASR345	345	137200	EDIC	345	1				-886.4	-1380.0	-0.20489	-0.17208	-706.7	-1121.3
			C:130753	FRASR345	345	130755	OAKDL345	345	1	200								
			Open 130753	FRASR345	345	130755	OAKDL345	345	1					0.31108	-0.10547	-577.5	-831.6	
14644	2409.5	3782.9	L: 136758	BREMEN	115	136761	BU+LY+MO	115	1				71.3	146.0	0.03101	0.02328	46.9	103.0
			C:Taylorville	1													1721	
			Open 136778	LOWVILLE	115	136807	TAYLORVL	115	1				-0.52175	-0.02330	-66.0	-122.2		
			Open 136788	N CARTHG	115	136807	TAYLORVL	115	1				-0.17530	-0.01714	26.5	-14.8		
			Open 136759	BRNS FLS	115	136807	TAYLORVL	115	1				-0.18274	0.04068	29.6	127.6		
14671	2411.4	3784.8	L: 130753	FRASR345	345	137200	EDIC	345	1				-869.9	-1380.0	-0.21154	-0.17208	-706.7	-1121.7
			C:137453	N.SCOT99	345	147833	MARCY T1	345	1	1012								
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	1					0.17813	-0.22152	-916.1	-1450.2	
16003	2423.9	3797.4	L: 137451	LEEDS 3	345	137452	N.SCOT77	345	1				-863.0	-1331.0	-0.19308			
			Base Case															
16122	2435.7	3809.1	L: 130753	FRASR345	345	137200	EDIC	345	1				-866.3	-1380.0	-0.21089	-0.17208	-706.7	-1125.9
			C:BUS:N.S._77														1614	
			Open 137452	N.SCOT77	345	137453	N.SCOT99	345	1					0.02056	-0.02589	-248.0	-311.1	
			Open 137452	N.SCOT77	345	137516	N.SCOT1	115	1					0.04950	-0.00555	111.8	98.3	
			Open 137200	EDIC	345	137452	N.SCOT77	345	1				-0.20081	0.19809	819.4	1301.9		
			Open 137450	ALPS345	345	137452	N.SCOT77	345	1				-0.04864	-0.03645	-92.7	-181.5		
			Open 137451	LEEDS 3	345	137452	N.SCOT77	345	1				0.04918	0.00000	-0.0	-0.0		
16128	2436.4	3809.8	L: 147836	ADRON B2	230	147840	MOSES W	230	1				-110.2	-348.0	-0.09761			
			Base Case															
16129	2436.4	3809.9	L: 147835	ADRON B1	230	147840	MOSES W	230	1				-110.2	-348.0	-0.09761			
			Base Case															
16165	2449.0	3822.5	L: 147844	PLAT T#4	230	147922	PLAT 115	115	1				43.5	-214.0	-0.10513	-0.09094	41.3	-181.4
			C:130821	KENTS115	115	130825	LYONS115	115	1	323								
			Open 130821	KENTS115	115	130825	LYONS115	115	1					-0.43883	0.03233	-5.0	74.2	
16167	2450.2	3823.6	L: 147827	MARCY765	765	147833	MARCY T1	345	1				650.3	1654.0	0.40963	0.38694	624.7	1572.8
			C:147836	ADRON B2	230	147840	MOSES W	230	1	1229								
			Open 147836	ADRON B2	230	147840	MOSES W	230	1					-0.23251	-0.09761	-110.2	-349.3	
16168	2450.2	3823.6	L: 147827	MARCY765	765	147833	MARCY T1	345	1				650.3	1654.0	0.40963	0.38694	624.7	1572.8
			C:147835	ADRON B1	230	147840	MOSES W	230	1	1228								
			Open 147835	ADRON B1	230	147840	MOSES W	230	1					-0.23251	-0.09761	-110.2	-349.3	
16175	2450.4	3823.9	L: 147844	PLAT T#4	230	147970	RYAN	230	1				-43.6	214.0	0.10513	0.09094	-41.4	181.4
			C:130821	KENTS115	115	130825	LYONS115	115	1	323								
			Open 130821	KENTS115	115	130825	LYONS115	115	1					0.43883	0.03233	-5.0	74.2	
16178	2450.8	3824.3	L: 147843	PLAT T#1	230	147922	PLAT 115	115	1				41.4	-214.0	-0.10420	-0.09001	39.2	-181.4
			C:130821	KENTS115	115	130825	LYONS115	115	1	323								
			Open 130821	KENTS115	115	130825	LYONS115	115	1					-0.43888	0.03233	-5.0	74.2	
16181	2451.4	3824.9	L: 147843	PLAT T#1	230	147859	DULEY	230	1				-41.4	214.0	0.10420	0.09001	-39.2	181.4
			C:130821	KENTS115	115	130825	LYONS115	115	1	323								

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			Open 130821 KENTS115	115	130825 LYONS115	115	1			0.43888	0.03233	-5.0	74.3
16187	2453.2	3826.7	L: 147827 MARCY765	765	147833 MARCY T1	345	1	643.1	1654.0	0.41208	0.38694	624.7	1574.0
			C:Taylorville										
													1708
			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1			0.00463	-0.02330	-66.0	-123.2
			Open 136788 N CARTHG	115	136807 TAYLORVL	115	1			0.00000	-0.01714	26.5	-15.5
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	1			0.31167	0.04068	29.6	129.4
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	2			0.31167	0.04068	29.6	129.4
			Open 136766 DEFERIET	115	136807 TAYLORVL	115	1			0.00000	-0.01697	6.8	-34.8
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1			0.00463	-0.02328	-52.8	-109.9
			Open 136786 MOSH-SUN	115	136807 TAYLORVL	115	1			-0.04663	0.00000	-10.7	-10.7
16189	2453.6	3827.0	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1120.1	-1792.0	-0.27385	-0.22152	-916.1	-1459.6
			C:BUS:N.S._77										1614
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.09196	-0.02589	-248.0	-311.6
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.02619	-0.00555	111.8	98.2
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.28820	0.19809	819.4	1305.4
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.06914	-0.03645	-92.7	-182.1
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.13842	0.00000	-0.0	-0.0
16192	2454.8	3828.2	L: 147844 PLAT T#4	230	147922 PLAT 115	115	1	44.1	-214.0	-0.10513	-0.09094	41.3	-182.0
			C:130777 BRAIN115	115	130825 LYONS115	115	1						240
			Open 130777 BRAIN115	115	130825 LYONS115	115	1			0.43883	-0.03233	6.4	-73.0
16193	2454.9	3828.3	*L: 147844 PLAT T#4	230	147922 PLAT 115	115	1	44.1	-214.0	-0.10513	-0.09094	41.3	-182.0
			C:130777 BRAIN115	115	130784 CHATP115	115	1						239
			Open 130777 BRAIN115	115	130784 CHATP115	115	1			-0.43883	0.03233	-6.4	73.0
16195	2456.2	3829.6	L: 147844 PLAT T#4	230	147970 RYAN	230	1	-44.2	214.0	0.10513	0.09094	-41.4	182.0
			C:130777 BRAIN115	115	130825 LYONS115	115	1						240
			Open 130777 BRAIN115	115	130825 LYONS115	115	1			-0.43883	-0.03233	6.4	-73.0
16196	2456.3	3829.8	*L: 147844 PLAT T#4	230	147970 RYAN	230	1	-44.2	214.0	0.10513	0.09094	-41.4	182.0
			C:130777 BRAIN115	115	130784 CHATP115	115	1						239
			Open 130777 BRAIN115	115	130784 CHATP115	115	1			0.43883	0.03233	-6.4	73.0
16197	2456.6	3830.1	L: 147843 PLAT T#1	230	147922 PLAT 115	115	1	42.0	-214.0	-0.10420	-0.09001	39.2	-181.9
			C:130777 BRAIN115	115	130825 LYONS115	115	1						240
			Open 130777 BRAIN115	115	130825 LYONS115	115	1			0.43888	-0.03233	6.4	-73.0
16198	2456.8	3830.2	L: 147843 PLAT T#1	230	147922 PLAT 115	115	1	42.0	-214.0	-0.10420	-0.09001	39.2	-182.0
			C:130777 BRAIN115	115	130784 CHATP115	115	1						239
			Open 130777 BRAIN115	115	130784 CHATP115	115	1			-0.43888	0.03233	-6.4	73.0
16200	2457.2	3830.7	L: 147843 PLAT T#1	230	147859 DULEY	230	1	-42.0	214.0	0.10420	0.09001	-39.2	181.9
			C:130777 BRAIN115	115	130825 LYONS115	115	1						240
			Open 130777 BRAIN115	115	130825 LYONS115	115	1			-0.43888	-0.03233	6.4	-73.1
16201	2457.3	3830.8	L: 147843 PLAT T#1	230	147859 DULEY	230	1	-42.0	214.0	0.10420	0.09001	-39.2	181.9
			C:130777 BRAIN115	115	130784 CHATP115	115	1						239
			Open 130777 BRAIN115	115	130784 CHATP115	115	1			0.43888	0.03233	-6.4	73.0
16204	2459.5	3832.9	L: 136764 COLTON	115	136775 HIGLEY	115	1	28.7	129.0	0.04077			
			Base Case										
16209	2463.3	3836.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-858.5	-1331.0	-0.19183			
			Base Case										
16228	2468.3	3841.8	L: 130784 CHATP115	115	147856 WILL	115	1	-17.7	143.0	0.06510	0.04715	-12.0	104.3
			C:147859 DULEY	230	147980 PATNODE	230	1						1265
			Open 147859 DULEY	230	147980 PATNODE	230	1			0.18429	0.09740	-30.6	209.8

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16229	2468.4	3841.9	L: 130784 CHATP115	115	147856 WILL	115	115	1	-17.7	143.0	0.06510	0.04715	-12.0	104.3
			C:147845 WILLIS E	230	147980 PATNODE	230	1	1248						
			Open 147845 WILLIS E	230	147980 PATNODE	230	1				-0.18429	-0.09740	30.7	-209.7
16261	2489.5	3862.9	L: 147827 MARCY765	765	147833 MARCY T1	345	1		650.9	1654.0	0.40296	0.38694	624.7	1588.0
			C:137210 PORTER 2	230	137928 CHASES L	230	1	954						
			Open 137210 PORTER 2	230	137928 CHASES L	230	1				-0.16411	-0.09761	-159.3	-402.3
16263	2490.1	3863.6	L: 136764 COLTON	115	136771 FLAT RCK	115	1		25.7	142.0	0.04671	0.04059	25.9	126.9
			C:SER:MASS765/230_1					1591						
			Open 147828 MASS 765	765	147837 MASS230A	230	1				-0.01693	-0.36171	10.3	-890.4
			Open 147837 MASS230A	230	147839 MOSES E	230	1				0.02551	0.00000	0.0	0.0
16264	2490.1	3863.6	L: 136764 COLTON	115	136771 FLAT RCK	115	1		25.7	142.0	0.04671	0.04059	25.9	126.9
			C:SER:MASS765/230_2					1592						
			Open 147828 MASS 765	765	147838 MASS230B	230	1				-0.01693	-0.36171	10.3	-890.4
			Open 147838 MASS230B	230	147839 MOSES E	230	1				0.02551	0.00000	0.0	0.0
16265	2490.1	3863.6	L: 136764 COLTON	115	136771 FLAT RCK	115	1		25.7	142.0	0.04671	0.04059	25.9	126.9
			C:147838 MASS230B	230	147839 MOSES E	230	1	1231						
			Open 147838 MASS230B	230	147839 MOSES E	230	1				-0.01693	-0.36171	10.3	-890.4
16266	2490.1	3863.6	*L: 136764 COLTON	115	136771 FLAT RCK	115	1		25.7	142.0	0.04671	0.04059	25.9	126.9
			C:147837 MASS230A	230	147839 MOSES E	230	1	1230						
			Open 147837 MASS230A	230	147839 MOSES E	230	1				-0.01693	-0.36171	10.3	-890.4
16272	2491.8	3865.2	L: 147827 MARCY765	765	147833 MARCY T1	345	1		649.9	1654.0	0.40296	0.38694	624.7	1588.9
			C:137210 PORTER 2	230	147836 ADRON B2	230	1	955						
			Open 137210 PORTER 2	230	147836 ADRON B2	230	1				-0.16411	-0.09761	-153.7	-396.9
16282	2495.1	3868.6	L: 136755 BLACK RV	115	136762 CLIMAX	115	1		-44.1	-134.0	-0.03604	-0.01781	-41.7	-86.1
			C:HQ-NY-765-New					1778						
			Open 147827 MARCY765	765	147828 MASS 765	765	1		NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.02520	0.38694	624.7	1590.2
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.02520	0.33649	543.6	1383.2
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1		NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1				-0.00000	-0.36171	10.3	-892.2
			Open 147828 MASS 765	765	147838 MASS230B	230	1		NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1				-0.02297	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1		NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1		NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1		NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0			percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0			MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0			percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0			MW dispatch					
16289	2496.5	3870.0	L: 130753 FRASR345	345	137200 EDIC	345	1		-840.9	-1380.0	-0.21594	-0.17208	-706.7	-1136.3
			C:BUS:N.S._99					1615						
			Open 137453 N.SCOT99	345	147831 GILB	345	1				-0.13914	0.00958	-310.7	-286.8
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.14673	-0.22152	-916.1	-1469.1
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.01302	-0.00578	118.7	104.2
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.05186	-0.19183	-858.5	-1337.4
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.00449	0.00000	1.6	1.6
16295	2500.7	3874.2	L: 147827 MARCY765	765	147833 MARCY T1	345	1		646.3	1654.0	0.40296	0.38694	624.7	1592.3

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			C:137928 CHASES L	230	147835 ADRON B1	230	1	1189											
			Open 137928 CHASES L	230	147835 ADRON B1	230	1						-0.16411	-0.09761	-131.6	-375.7			
16312	2511.6	3885.1	L: 130750 COOPC345	345	147833 MARCY T1	345	1						-854.1	-1345.0	-0.19545		-0.16554	-739.1	-1154.9
			C:BUS:N.S._99					1615											
			Open 137453 N.SCOT99	345	147831 GILB	345	1						-0.02831	0.00958	-310.7	-286.6			
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1						0.10640	-0.22152	-916.1	-1472.5			
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1						0.00615	-0.00578	118.7	104.1			
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2						0.03145	-0.19183	-858.5	-1340.3			
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1						-0.00725	0.00000	1.6	1.6			
16318	2513.3	3886.7	L: 147827 MARCY765	765	147833 MARCY T1	345	1						681.5	1654.0	0.38694		0.38694	624.7	1597.2
			C:GEN:9 MI PT2					1561											
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch													
16358	2529.8	3903.3	L: 147827 MARCY765	765	147833 MARCY T1	345	1						675.6	1654.0	0.38675		0.38694	624.7	1603.6
			C:GEN:FITZPATR					1559											
			Open 136155 SCRIBA	345	147830 JA FITZP	345	1						0.01723	-0.01088	-67.9	-95.4			
			Open 137200 EDIC	345	147830 JA FITZP	345	1						-0.06290	0.00000	43.5	43.5			
			Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8 MW	dispatch													
16368	2532.4	3905.9	*L: 136761 BU+LY+MO	115	137221 BOONVL	115	1						63.2	146.0	0.03270		0.02328	72.9	131.9
			C:2+8					1717											
			Open 136788 N CARTHG	115	136807 TAYLORVL	115	1						-0.27288	-0.01714	26.5	-16.9			
			Open 136755 BLACK RV	115	136772 FT. DRUM	115	1						-0.27929	-0.01697	-33.5	-76.5			
			Open 136766 DEFERIET	115	136772 FT. DRUM	115	1						NA						
			Open 136766 DEFERIET	115	136807 TAYLORVL	115	1						0.29329	0.00000	-40.3	-40.3			
16374	2535.7	3909.2	*L: 130753 FRASR345	345	137200 EDIC	345	1						-853.6	-1380.0	-0.20759		-0.17208	-706.7	-1143.1
			C:137200 EDIC	345	137452 N.SCOT77	345	1	946											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1						-0.17925	0.19809	819.4	1321.7			
16381	2538.2	3911.6	L: 130750 COOPC345	345	147833 MARCY T1	345	1						-858.0	-1345.0	-0.19187		-0.16554	-739.1	-1159.3
			C:SIN:170					1671											
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1						0.11884	-0.22152	-916.1	-1478.3			
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1						-0.08331	0.00000	119.9	119.9			
			Open 137235 PORTER 1	115	137246 VALLEY	115	1						-0.00021	0.00001	74.8	74.9			
16382	2538.2	3911.6	L: 130750 COOPC345	345	147833 MARCY T1	345	1						-858.0	-1345.0	-0.19187		-0.16554	-739.1	-1159.3
			C:SIN:180					1672											
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1						0.11884	-0.22152	-916.1	-1478.3			
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1						-0.08333	0.00000	119.9	119.9			
			Open 137235 PORTER 1	115	147905 ILION	115	1						-0.00014	0.00000	88.8	88.8			
16387	2539.0	3912.4	L: 137210 PORTER 2	230	137730 ROTRDM.2	230	2						351.5	560.0	0.08213		0.06177	262.2	419.0
			C:137204 JORDNVLL	230	137210 PORTER 2	230	1	949											
			Open 137204 JORDNVLL	230	137210 PORTER 2	230	1						-0.33873	-0.06011	-263.6	-416.2			
16406	2544.9	3918.4	L: 130784 CHATP115	115	147856 WILL 115	115	1						-19.7	143.0	0.06391		0.04715	-12.0	108.0
			C:147844 PLAT T#4	230	147922 PLAT 115	115	1	1244											
			Open 147844 PLAT T#4	230	147922 PLAT 115	115	1						-0.18427	-0.09094	41.3	-190.2			
16407	2545.4	3918.8	L: 130784 CHATP115	115	147856 WILL 115	115	1						-19.7	143.0	0.06391		0.04715	-12.0	108.0
			C:147844 PLAT T#4	230	147970 RYAN	230	1	1245											
			Open 147844 PLAT T#4	230	147970 RYAN	230	1						0.18427	0.09094	-41.4	190.1			
16411	2545.7	3919.2	L: 130784 CHATP115	115	147856 WILL 115	115	1						-19.3	143.0	0.06374		0.04715	-12.0	108.0
			C:147843 PLAT T#1	230	147922 PLAT 115	115	1	1243											
			Open 147843 PLAT T#1	230	147922 PLAT 115	115	1						-0.18429	-0.09001	39.2	-190.0			

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16412	2545.9	3919.4	L: 130784 CHATP115	115	147856 WILL	115	115	1	-19.3	143.0	0.06374	0.04715	-12.0	108.0
			C:147843 PLAT T#1	230	147859 DULEY	230	1	1242						
			Open 147843 PLAT T#1	230	147859 DULEY	230	1				0.18429	0.09001	-39.2	189.9
16585	2564.9	3938.4	L: 130750 COOPC345	345	147833 MARCY T1	345	1		-850.7	-1345.0	-0.19271	-0.16554	-739.1	-1163.7
			C:130753 FRASR345	345	137200 EDIC	345	1	202						
			Open 130753 FRASR345	345	137200 EDIC	345	1				0.15788	-0.17208	-706.7	-1148.1
17695	2568.0	3941.5	*L: 147827 MARCY765	765	147833 MARCY T1	345	1		642.9	1654.0	0.39374	0.38694	624.7	1618.4
			C:5+6_2					1719						
			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1				-0.14594	-0.02330	-66.0	-125.9
			Open 136761 BU+LY+MO	115	137221 BOONVL	115	1				0.14594	0.02328	72.9	132.7
			Open 136761 BU+LY+MO	115	136848 LYNDL MR	115	1		NA					
			Open 136758 BREMEN	115	136761 BU+LY+MO	115	1		NA					
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1				0.10443	0.00000	-20.1	-20.1
17894	2570.3	3943.7	L: 137210 PORTER 2	230	137730 ROTRDM.2	230	2		348.9	560.0	0.08213	0.06177	262.2	421.0
			C:137204 JORDNVLL	230	137730 ROTRDM.2	230	1	950						
			Open 137204 JORDNVLL	230	137730 ROTRDM.2	230	1				0.33873	0.06011	256.0	410.5
18062	2577.3	3950.8	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1		-916.1	-1487.0	-0.22152			
			Base Case											
18108	2581.1	3954.5	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1		544.9	746.0	0.07791	0.04883	448.0	574.1
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	9						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				-0.22773	-0.12769	-425.4	-754.9
18149	2582.6	3956.1	L: 137200 EDIC	345	137452 N.SCOT77	345	1		819.4	1331.0	0.19809			
			Base Case											
18449	2589.8	3963.3	L: 136758 BREMEN	115	136807 TAYLORVL	115	1		-45.8	-134.0	-0.03404	-0.02328	-52.8	-113.1
			C:1+2					1716						
			Open 136755 BLACK RV	115	136762 CLIMAX	115	1				0.30937	-0.01781	-41.7	-87.8
			Open 136762 CLIMAX	115	136788 N CARTHG	115	1				-0.30449	0.00000	-58.8	-58.8
			Open 136755 BLACK RV	115	136772 FT. DRUM	115	1				0.30937	-0.01697	-33.5	-77.4
			Open 136766 DEFERIET	115	136772 FT. DRUM	115	1		NA					
			Open 136766 DEFERIET	115	136807 TAYLORVL	115	1				-0.30449	0.00000	-40.3	-40.3
20738	2593.6	3967.1	L: 137204 JORDNVLL	230	137210 PORTER 2	230	1		-350.8	-560.0	-0.08066	-0.06011	-263.6	-419.5
			C:137210 PORTER 2	230	137730 ROTRDM.2	230	2	953						
			Open 137210 PORTER 2	230	137730 ROTRDM.2	230	2				-0.33267	0.06177	262.2	422.4
21179	2604.6	3978.0	L: 136216 LTHSE HL	115	136218 MALLORY	115	1		18.2	145.0	0.04868	0.02030	29.4	82.2
			C:147839 MOSES E	230	147840 MOSES W	230	1	1232						
			Open 147839 MOSES E	230	147840 MOSES W	230	1				-0.05051	-0.56170	220.6	-1242.4
21295	2614.5	3987.9	L: 130750 COOPC345	345	147833 MARCY T1	345	1		-845.2	-1345.0	-0.19118	-0.16554	-739.1	-1171.9
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.11574	-0.22152	-916.1	-1495.2
21316	2616.3	3989.7	L: 147838 MASS230B	230	147839 MOSES E	230	1		10.3	-936.0	-0.36171			
			Base Case											
21317	2616.3	3989.7	L: 147837 MASS230A	230	147839 MOSES E	230	1		10.3	-936.0	-0.36171			
			Base Case											
21318	2616.3	3989.7	L: 147828 MASS 765	765	147838 MASS230B	230	1		10.3	-936.0	-0.36171			
			Base Case											
21319	2616.3	3989.7	L: 147828 MASS 765	765	147837 MASS230A	230	1		10.3	-936.0	-0.36171			
			Base Case											
21357	2619.2	3992.7	L: 130750 COOPC345	345	147833 MARCY T1	345	1		-844.9	-1345.0	-0.19094	-0.16554	-739.1	-1172.7

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35193	2837.7	4211.2	L: 147836 ADRON B2	230	147840 MOSES W	230	1	-109.7	-440.0	-0.11641	-0.09761	-110.2	-387.2
			C:147828 MASS 765	765	147838 MASS230B	230	1 1221						
			Open 147828 MASS 765	765	147838 MASS230B	230	1	0.05199	-0.36171		10.3	-1016.1	
35194	2837.7	4211.2	L: 147836 ADRON B2	230	147840 MOSES W	230	1	-109.7	-440.0	-0.11641	-0.09761	-110.2	-387.2
			C:147828 MASS 765	765	147837 MASS230A	230	1 1220						
			Open 147828 MASS 765	765	147837 MASS230A	230	1	0.05199	-0.36171		10.3	-1016.1	
35195	2837.8	4211.2	L: 147835 ADRON B1	230	147840 MOSES W	230	1	-109.7	-440.0	-0.11641	-0.09761	-110.2	-387.2
			C:SER:MASS765/230_1				1591						
			Open 147828 MASS 765	765	147837 MASS230A	230	1	0.05199	-0.36171		10.3	-1016.1	
			Open 147837 MASS230A	230	147839 MOSES E	230	1	-0.07510	0.00000		0.0	0.0	
35196	2837.8	4211.2	L: 147835 ADRON B1	230	147840 MOSES W	230	1	-109.7	-440.0	-0.11641	-0.09761	-110.2	-387.2
			C:SER:MASS765/230_2				1592						
			Open 147828 MASS 765	765	147838 MASS230B	230	1	0.05199	-0.36171		10.3	-1016.1	
			Open 147838 MASS230B	230	147839 MOSES E	230	1	-0.07510	0.00000		0.0	0.0	
35197	2837.8	4211.2	L: 147835 ADRON B1	230	147840 MOSES W	230	1	-109.7	-440.0	-0.11641	-0.09761	-110.2	-387.2
			C:147837 MASS230A	230	147839 MOSES E	230	1 1230						
			Open 147837 MASS230A	230	147839 MOSES E	230	1	0.05199	-0.36171		10.3	-1016.1	
35198	2837.8	4211.2	L: 147835 ADRON B1	230	147840 MOSES W	230	1	-109.7	-440.0	-0.11641	-0.09761	-110.2	-387.2
			C:147838 MASS230B	230	147839 MOSES E	230	1 1231						
			Open 147838 MASS230B	230	147839 MOSES E	230	1	0.05199	-0.36171		10.3	-1016.1	
35199	2837.8	4211.2	L: 147835 ADRON B1	230	147840 MOSES W	230	1	-109.7	-440.0	-0.11641	-0.09761	-110.2	-387.2
			C:147828 MASS 765	765	147838 MASS230B	230	1 1221						
			Open 147828 MASS 765	765	147838 MASS230B	230	1	0.05199	-0.36171		10.3	-1016.1	
35200	2837.8	4211.2	L: 147835 ADRON B1	230	147840 MOSES W	230	1	-109.7	-440.0	-0.11641	-0.09761	-110.2	-387.2
			C:147828 MASS 765	765	147837 MASS230A	230	1 1220						
			Open 147828 MASS 765	765	147837 MASS230A	230	1	0.05199	-0.36171		10.3	-1016.1	
35212	2839.7	4213.2	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1082.7	-1703.0	-0.21844	-0.17177	-997.1	-1484.9
			C:130753 FRASR345	345	147831 GILB 345	345	1 203						
			Open 130753 FRASR345	345	147831 GILB 345	345	1	-0.39383	0.11849		217.4	553.9	
35218	2841.1	4214.6*L:	147836 ADRON B2	230	147840 MOSES W	230	1	-122.3	-440.0	-0.11184	-0.09761	-110.2	-387.5
			C:137200 EDIC	345	147833 MARCY T1	345	1 948						
			Open 137200 EDIC	345	147833 MARCY T1	345	1	0.04495	-0.31658		-268.4	-1167.8	
35219	2841.1	4214.6*L:	147835 ADRON B1	230	147840 MOSES W	230	1	-122.3	-440.0	-0.11184	-0.09761	-110.2	-387.5
			C:137200 EDIC	345	147833 MARCY T1	345	1 948						
			Open 137200 EDIC	345	147833 MARCY T1	345	1	0.04495	-0.31658		-268.4	-1167.8	
35450	2859.9	4233.4	L: 136755 BLACK RV	115	136772 FT. DRUM	115	1	-35.8	-134.0	-0.03433	-0.01697	-33.5	-82.0
			C:HQ-NY-765-New				1778						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1	-0.02400	0.38694		624.7	1731.3	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2	-0.02400	0.33649		543.6	1505.9	
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1	0.00000	-0.36171		10.3	-1024.1	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1	-0.02188	0.00000		18.8	18.8	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					

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				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
36576	2862.4	4235.9	L: 137210	PORTER 2	230	137730	ROTRDM.2	230	2	262.2	439.0	0.06177		
				Base Case										
36719	2864.5	4238.0	L: 136216	LTHSE HL	115	136218	MALLORY	115	1	30.5	145.0	0.03996	0.02030	29.4 87.5
				C:HQ-NY-765-New					1778					
				Open 147827	MARCY765	765	147828	MASS 765	765	1				NA
				Open 147828	MASS 765	765	180819	CHA-NY	765	1				NA
				Open 147827	MARCY765	765	147833	MARCY T1	345	1		0.02717	0.38694	624.7 1733.1
				Open 147827	MARCY765	765	147833	MARCY T1	345	2		0.02717	0.33649	543.6 1507.5
				Open 156	MCY765SW	0.0	147827	MARCY765	765	1				NA
				Open 147838	MASS230B	230	147839	MOSES E	230	1		0.00000	-0.36171	10.3 -1025.8
				Open 147828	MASS 765	765	147838	MASS230B	230	1				NA
				Open 147837	MASS230A	230	147839	MOSES E	230	1		0.02601	0.00000	18.8 18.8
				Open 147828	MASS 765	765	147837	MASS230A	230	1				NA
				Open 158	MS765SW2	0.0	147828	MASS 765	765	1				NA
				Open 157	MS765SW1	0.0	147828	MASS 765	765	1				NA
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
36748	2865.4	4238.8	L: 137210	PORTER 2	230	137928	CHASES L	230	1	-159.3	-439.0	-0.09761		
				Base Case										
36934	2883.0	4256.5	L: Interface	32 F-To-G						4205.5	6118.0	0.66338	0.57859	3713.3 5381.4
				C:130750	COOPC345	345	130753	FRASR345	345	1	192			
				Open 130750	COOPC345	345	130753	FRASR345	345	1		-0.49362	-0.17177	-997.1 -1492.3
36940	2883.9	4257.4	L: 130750	COOPC345	345	130753	FRASR345	345	1	-1147.3	-1703.0	-0.19270	-0.17177	-997.1 -1492.5
				C:137451	LEEDS 3	345	147831	GILB 345	345	1	1007			
				Open 137451	LEEDS 3	345	147831	GILB 345	345	1		0.16344	-0.12807	-918.9 -1288.2
36956	2889.1	4262.6	L: 137453	N.SCOT99	345	147833	MARCY T1	345	1	-1059.3	-1792.0	-0.25360	-0.22152	-916.1 -1556.1
				C:130750	COOPC345	345	147833	MARCY T1	345	1	196			
				Open 130750	COOPC345	345	147833	MARCY T1	345	1		0.19380	-0.16554	-739.1 -1217.4
36982	2898.1	4271.6	L: 136758	BREMEN	115	136761	BU+LY+MO	115	1	47.3	146.0	0.03404	0.02328	46.9 114.4
				C:5+6										1718
				Open 136216	LTHSE HL	115	136768	E WTRTWN	115	1		-0.30937	-0.01737	9.0 -41.4
				Open 136755	BLACK RV	115	136768	E WTRTWN	115	1		0.00000	0.01305	31.2 69.0
				Open 136763	COFFEEN	115	136768	E WTRTWN	115	1		0.30449	0.00000	15.0 15.0
				Open 136216	LTHSE HL	115	136755	BLACK RV	115	1		-0.30937	-0.01742	4.4 -46.1
36997	2902.9	4276.3	L: 130777	BRAIN115	115	130784	CHATP115	115	1	-9.9	143.0	0.05266	0.03233	-6.4 87.4
				C:147846	WILLIS W	230	147970	RYAN	230	1	1250			
				Open 147846	WILLIS W	230	147970	RYAN	230	1		-0.18427	-0.11033	18.8 -301.5
37003	2904.3	4277.8	L: 136750	ALCOA-NM	115	147847	ALCOA N	115	1	92.0	310.0	0.07508	0.01198	46.1 80.9
				C:Taylorville										1708
				Open 136778	LOWVILLE	115	136807	TAYLORVL	115	1		0.00001	-0.02330	-66.0 -133.7
				Open 136788	N CARTHG	115	136807	TAYLORVL	115	1		-0.00000	-0.01714	26.5 -23.3
				Open 136759	BRNS FLS	115	136807	TAYLORVL	115	1		0.77551	0.04068	29.6 147.7

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				Open 136759 BRNS FLS	115	136807 TAYLORVL	115	2			0.77551	0.04068	29.6	147.7	
				Open 136766 DEFERLET	115	136807 TAYLORVL	115	1			-0.00000	-0.01697	6.8	-42.4	
				Open 136758 BREMEN	115	136807 TAYLORVL	115	1			0.00001	-0.02328	-52.8	-120.4	
				Open 136786 MOSH-SUN	115	136807 TAYLORVL	115	1			-0.00081	0.00000	-10.7	-10.7	
37024	2919.4	4292.8	L:	100511 GRAND IS	115	147852 PLAT T#3	115	1		-70.8	-396.0	-0.11138	0.00000	-114.6	-114.6
			C:	147839 MOSES E	230	147840 MOSES W	230	1	1232						
				Open 147839 MOSES E	230	147840 MOSES W	230	1				0.19830	-0.56170	220.6	-1419.2
37036	2923.3	4296.7	L:	137210 PORTER 2	230	147836 ADRON B2	230	1		-153.7	-439.0	-0.09761			
				Base Case											
37046	2928.1	4301.6	L:	137453 N.SCOT99	345	147833 MARCY T1	345	1		-1048.8	-1792.0	-0.25383	-0.22152	-916.1	-1564.7
			C:	130753 FRASR345	345	137200 EDIC	345	1	202						
				Open 130753 FRASR345	345	137200 EDIC	345	1				0.18774	-0.17208	-706.7	-1210.6
37050	2930.3	4303.7	L:	137451 LEEDS 3	345	137455 ATHENS	345	1		983.0	1725.0	0.25322	0.17453	433.3	944.7
			C:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	120						
				Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				-0.42910	-0.18340	-1281.0	-1818.4
37057	2935.0	4308.4	L:	137204 JORDNVLL	230	137210 PORTER 2	230	1		-263.6	-440.0	-0.06011			
				Base Case											
37081	2953.1	4326.6	L:	137210 PORTER 2	230	137730 ROTRDM.2	230	2		337.3	560.0	0.07541	0.06177	262.2	444.6
			C:	SIN:170					1671						
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06157	-0.22152	-916.1	-1570.2
				Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.15593	0.00000	119.9	119.9
				Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00032	0.00001	74.8	74.9
37082	2953.1	4326.6	L:	137210 PORTER 2	230	137730 ROTRDM.2	230	2		337.3	560.0	0.07541	0.06177	262.2	444.6
			C:	SIN:180					1672						
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06157	-0.22152	-916.1	-1570.3
				Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.15595	0.00000	119.9	119.9
				Open 137235 PORTER 1	115	147905 ILION	115	1				0.00022	0.00000	88.8	88.8
37087	2961.1	4334.6	L:	130784 CHATP115	115	147856 WILL 115	115	1		3.4	143.0	0.04715	0.04715	-12.0	127.6
			C:	147852 PLAT T#3	115	147922 PLAT 115	115	3	1264						
				Open 147852 PLAT T#3	115	147922 PLAT 115	115	3				-0.13355	0.00000	-115.5	-115.5
37092	2963.6	4337.1	L:	130784 CHATP115	115	147856 WILL 115	115	1		3.3	143.0	0.04715	0.04715	-12.0	127.7
			C:	100511 GRAND IS	115	147852 PLAT T#3	115	1	1357						
				Open 100511 GRAND IS	115	147852 PLAT T#3	115	1				-0.13355	0.00000	-114.6	-114.6
37153	2987.6	4361.1	L:	137451 LEEDS 3	345	137452 N.SCOT77	345	1		-968.6	-1724.0	-0.25285	-0.19308	-863.0	-1439.8
			C:	BUS:N.S._99					1615						
				Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.61620	0.00958	-310.7	-282.1
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.37335	-0.22152	-916.1	-1577.9
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.18748	-0.00578	118.7	101.4
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.71757	-0.19183	-858.5	-1431.6
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.50614	0.00000	1.6	1.6

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, APR 08 2009 10:56
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From ON_C_EXP To GHI_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 16012 violations

Interface-1 Interface 3 VOLNEY EAST Init.Flow= 3597.96 TDF= 1.0000

N	FCITC IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
							Init	Final
		C: Contingency description	Ncon	Flow	Rating	LODF		
1	-166471.-162873.	L: Interface 21 PJM-WEST	5137.7	0.0	0.03086	0.04916	5112.7	-3070.3
		C:SER:C398/NWES	1605					
		Open 409 GROVER 230 200675 E.TWANDA	230	1		0.06509	0.00123	-15.6 -220.3
		Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.17346	-0.07787	117.6 13080.1
		Open 381 TOWANDA 115 200675 E.TWANDA	230	1		0.01304	-0.00632	-52.1 1000.6
		Open 130836 N.WAV115 115 200676 E.SAYRE	115	1		0.14744	-0.03244	43.0 5444.1
2	-166250.-162653.	L: Interface 21 PJM-WEST	5139.3	0.0	0.03091	0.04916	5112.7	-3059.5
		C:SER:ETHS/NWES	1606					
		Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.17144	-0.07787	117.6 13063.0
		Open 130836 N.WAV115 115 200676 E.SAYRE	115	1		0.15082	-0.03244	43.0 5437.0
3	-148309.-144711.	L: Interface 21 PJM-WEST	5133.5	-0.0	0.03461	0.04916	5112.7	-2177.6
		C:ETHS/LLGD	1649					
		Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.13801	-0.07787	117.6 11666.0
		Open 130807 GOUDY115 115 200680 LAUREL L	115	1		0.12187	-0.03114	38.0 4656.4
4	-130043.-126445.	L: Interface 21 PJM-WEST	5127.4	-0.0	0.03943	0.04916	5112.7	-1279.7
		C:130763 HILSD230 230 200675 E.TWANDA	230	1	1375			
		Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.12492	-0.07787	117.6 10243.6
5	-122426.-118828.	L: Interface 21 PJM-WEST	5123.5	-0.0	0.04185	0.04916	5112.7	-905.2
		C:130763 HILSD230 230 130768 WATRC230	230	1	219			

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	Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.05811	0.12573	-186.1	-15578.3
6	-120187.-116589.	L: Interface	21 PJM-WEST			5130.0	0.0	0.04268	0.04916	5112.7 -795.2
		C:BUS:WATERCURE_230			1633					
		Open 130768 WATRC230	230	130772 SHRED230	230		-0.02074	0.05252	71.0	-6240.8
		Open 130757 WATRC345	345	130768 WATRC230	230		0.07352	-0.07321	257.6	9056.5
		Open 130763 HILSD230	230	130768 WATRC230	230		-0.18949	0.00000	0.5	0.5
7	-117073.-113475.	L: Interface	21 PJM-WEST			5043.3	-0.0	0.04308	0.04916	5112.7 -642.1
		C:MULT04			1656					
		Open 9 JUNIATA	500	21 SUNBURY	500		-0.13383	0.04454	524.7	-4689.4
		Open 21 SUNBURY	500	3084 SUNBURY	230	24	-0.00698	0.01672	-121.6	-2079.2
8	-116008.-112410.	L: Interface	21 PJM-WEST			5130.0	-0.0	0.04422	0.04916	5112.7 -589.8
		C:130757 WATRC345	345	130768 WATRC230	230	1				
		Open 130757 WATRC345	345	130768 WATRC230	230	1		0.06740	-0.07321	257.6 8750.6
9	-111373.-107775.	L: Interface	21 PJM-WEST			5182.8	-0.0	0.04654	0.04916	5112.7 -362.0
		C:SER:HC-SR_37&W-F_171			1600					
		Open 135398 SW345	345	200769 HOMER CY	345	1	-0.17837	0.01442	-378.4	-1984.6
		Open 135277 FALCONER	115	200579 WARREN	115	1	-0.07354	0.00065	-35.9	-108.4
10	-110723.-107126.*	L: Interface	21 PJM-WEST			5175.9	-0.0	0.04675	0.04916	5112.7 -330.0
		C:135398 SW345	345	200769 HOMER CY	345	1				
		Open 135398 SW345	345	200769 HOMER CY	345	1	-0.16708	0.01442	-378.4	-1975.2
1757	-74150.3-70552.3	L: Interface	20 PJM-CENT			3528.6	-0.0	0.04759	0.10496	3269.0 -4514.0
		C:126260 BOWLINE1	345	146750 WHAV345	345	10				
		Open 126260 BOWLINE1	345	146750 WHAV345	345	10	-0.55149	0.10404	-470.6	-8185.3
1763	-57307.1-53709.1	L: Interface	20 PJM-CENT			3469.8	-0.0	0.06055	0.10496	3269.0 -2746.1
		C:SIN:30			1665					
		Open 126260 BOWLINE1	345	146841 BOW1	20.0	1	NA			
		Open 126260 BOWLINE1	345	146750 WHAV345	345	10	-0.42624	0.10404	-470.6	-6432.9
		Open 126290 LADENTWN	345	146750 WHAV345	345	1	-0.00074	0.09566	-170.6	-5652.4
1764	-51731.3-48133.4	L: Interface	20 PJM-CENT			3229.5	-0.0	0.06243	0.10496	3269.0 -2160.9
		C:LKWANA-OXBW			1651					
		Open 417 OXBOW	230	3070 LACKAWNA	230	1	0.33047	-0.12871	-119.7	6538.7
1765	-49696.7-46098.8	L: Interface	20 PJM-CENT			3322.8	-0.0	0.06686	0.10496	3269.0 -1947.3
		C:ETHS/NWES/LLGD			1648					
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1	0.28248	-0.07787	117.6	3987.3
		Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	0.25885	-0.03244	43.0	1655.4
		Open 130807 GOUDY115	115	200680 LAUREL L	115	1	0.24753	-0.03114	38.0	1585.6
1766	-41711.9-38113.9	L: Interface	20 PJM-CENT			3304.2	0.0	0.07921	0.10496	3269.0 -1109.2
		C:SER:C398/NWES			1605					
		Open 409 GROVER	230	200675 E.TWANDA	230	1	0.09834	0.00123	-15.6	-66.9
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1	0.24445	-0.07787	117.6	3365.6
		Open 381 TOWANDA	115	200675 E.TWANDA	230	1	0.01930	-0.00632	-52.1	211.7
		Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	0.20696	-0.03244	43.0	1396.3
1767	-41703.0-38105.1	L: Interface	20 PJM-CENT			3306.6	-0.0	0.07929	0.10496	3269.0 -1108.3
		C:SER:ETHS/NWES			1606					
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1	0.24142	-0.07787	117.6	3364.9
		Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	0.21196	-0.03244	43.0	1396.0
1768	-39016.4-35418.5	L: Interface	20 PJM-CENT			3298.4	-0.0	0.08454	0.10496	3269.0 -826.3
		C:ETHS/LLGD			1649					

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			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.19432	-0.07787	117.6	3155.7	
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.17004	-0.03114	38.0	1253.0	
1769	-37786.8-34188.9	L:	Interface	20	PJM-CENT				3966.3	-0.0	0.10496		0.10496	3269.0	-697.2
			C:GEN:PEACHBTM					1568							
			Remove unit 1 from bus	34	PCHBTM 2	22.0	1060.3	MW	dispatch						
1770	-37294.8-33696.8	L:	Interface	20	PJM-CENT				3914.6	0.0	0.10496		0.10496	3269.0	-645.6
			C:GEN:SALEM					1567							
			Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch						
1771	-36086.7-32488.7	*L:	Interface	20	PJM-CENT				3787.8	-0.0	0.10496		0.10496	3269.0	-518.7
			C:SIN:250					1677							
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1	
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch						
3527	-3382.0	216.0	L: Interface	26	ONTARIO-MICH				761.4	0.0	0.22515		0.24327	736.0	-86.7
			C:ETHS/NWES/LLGD					1648							
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.12812	-0.07787	117.6	381.0	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.13049	-0.03244	43.0	152.7	
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.12559	-0.03114	38.0	143.3	
3528	-3254.2	343.7	L: Interface	26	ONTARIO-MICH				753.2	-0.0	0.23145		0.24327	736.0	-55.7
			C:SER:ETHS/NWES					1606							
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.10729	-0.07787	117.6	371.0	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.10670	-0.03244	43.0	148.6	
3529	-3253.8	344.1	L: Interface	26	ONTARIO-MICH				753.1	0.0	0.23144		0.24327	736.0	-55.6
			C:SER:C398/NWES					1605							
			Open 409 GROVER	230	200675	E.TWANDA	230	1			0.00017	0.00123	-15.6	-19.6	
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.10753	-0.07787	117.6	371.0	
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1			0.00253	-0.00632	-52.1	-31.6	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.10604	-0.03244	43.0	148.6	
3530	-3200.6	397.4	L: Interface	26	ONTARIO-MICH				749.1	-0.0	0.23406		0.24327	736.0	-42.6
			C:ETHS/LLGD					1649							
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.08368	-0.07787	117.6	366.9	
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.08652	-0.03114	38.0	137.6	
3531	-3193.7	404.3	L: Interface	26	ONTARIO-MICH				762.5	0.0	0.23875		0.24327	736.0	-40.9
			C:W44LC					1642							
			Open 160062 LONGWOOD	220	160074	COWALJ44	220	1			-0.16056	0.02309	189.2	115.5	
			Open 160074 COWALJ44	220	160134	BUCHJW44	220	1			0.16303	-0.00497	334.4	350.3	
			Open 160054 BUCHANAN	220	160134	BUCHJW44	220	1			-0.00035	0.00497	-256.1	-272.0	
			Open 160055 CHATHAM	220	160074	COWALJ44	220	1			0.71981	0.00000	3.1	3.1	
3532	-3193.5	404.5	L: Interface	26	ONTARIO-MICH				762.5	-0.0	0.23876		0.24327	736.0	-40.9
			C:W45LC					1643							
			Open 160062 LONGWOOD	220	160075	COWALJ45	220	1			-0.16050	0.02306	189.2	115.6	
			Open 160075 COWALJ45	220	160135	BUCHJW45	220	1			0.16297	-0.00496	334.3	350.1	
			Open 160054 BUCHANAN	220	160135	BUCHJW45	220	1			-0.00035	0.00496	-262.5	-278.3	
			Open 160055 CHATHAM	220	160075	COWALJ45	220	1			0.71977	0.00000	3.1	3.1	
3533	-3174.8	423.1	L: Interface	26	ONTARIO-MICH				771.6	0.0	0.24303		0.24327	736.0	-36.3
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392						
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1			-0.05454	0.00434	-652.6	-666.3	
3534	-3167.0	431.0	L: Interface	26	ONTARIO-MICH				721.7	-0.0	0.22788		0.24327	736.0	-34.4
			C:LKWANA-OXBW					1651							

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			Open	417	OXBOW	230	3070	LACKAWNA	230	1				0.11958	-0.12871	-119.7	287.9		
3535	-3156.7	441.3	L: Interface	26	ONTARIO-MICH						770.8	-0.0	0.24418		0.24327	736.0	-31.9		
			C:130755	OAKDL345		345	131128	LAPEER	345	1	209								
			Open	130755	OAKDL345				345	1				-0.06047	-0.01515	-575.7	-527.9		
3536	-3143.8	454.2	*L: Interface	26	ONTARIO-MICH						749.2	0.0	0.23832		0.24327	736.0	-28.8		
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL														1650		
			Open	505	SHELOCTA		230	521	KEYSTONE	230	1			0.08784	-0.04638	50.1	195.9		
			Open	473	BLAIRSVL		138	235253	01SOCIAL	138	1			0.08830	-0.00985	100.2	131.2		
5296	-1476.4	2121.6	L: Interface	40	ONT-Zoned						47.0	0.0	0.03182		0.00000	-0.5	-0.5		
			C:147834	NIAG	345		345	149000	ROCH	345	1	1226							
			Open	147834	NIAG	345		345	149000	ROCH	345	1		0.11250	0.28286	422.3	4.7		
5297	-1476.4	2121.6	L: Interface	39	ZoneD-ONT						-47.0	-0.0	-0.03182		0.00000	0.5	0.5		
			C:147834	NIAG	345		345	149000	ROCH	345	1	1226							
			Open	147834	NIAG	345		345	149000	ROCH	345	1		-0.11250	0.28286	422.3	4.7		
5298	-403.7	3194.3	L: 126294	PLTVLLEY		345	137451	LEEDS	3	345	2			-1828.7	-1725.0	-0.25688	-0.18091	-1281.0	-1208.0
			C:126294	PLTVLLEY		345	137455	ATHENS		345	1	121							
			Open	126294	PLTVLLEY			345	137455	ATHENS		345	1	0.44128	-0.17216	-1241.0	-1171.5		
5299	-263.2	3334.8	L: 126294	PLTVLLEY		345	137455	ATHENS		345	1			-1790.7	-1725.0	-0.24979	-0.17216	-1241.0	-1195.7
			C:126294	PLTVLLEY		345	137451	LEEDS	3	345	2	120							
			Open	126294	PLTVLLEY			345	137451	LEEDS	3	345	2	0.42910	-0.18091	-1281.0	-1233.4		
5300	276.1	3874.1	L: 126294	PLTVLLEY		345	137451	LEEDS	3	345	2			-1281.0	-1331.0	-0.18091			
			Base Case																
5301	396.3	3994.2	L: Interface	14	Leeds-PV						2522.1	2662.0	0.35307						
			Base Case																
5302	522.5	4120.5	L: 126294	PLTVLLEY		345	137455	ATHENS		345	1			-1241.0	-1331.0	-0.17216			
			Base Case																
5303	549.7	4147.6	L: 146758	CHESTER		138	146771	SHOEM138		138	1			-286.6	-317.0	-0.05531	-0.03007	-161.7	-178.2
			C:SIN:440															1683	
			Open	125001	ROCK TAV		345	126297	RAMAPO		345	1							
5304	549.7	4147.6	L: 146758	CHESTER		138	146771	SHOEM138		138	1			-286.6	-317.0	-0.05531	-0.03007	-161.7	-178.2
			C:125001	ROCK TAV		345	126297	RAMAPO		345	1	7							
			Open	125001	ROCK TAV			345	126297	RAMAPO		345	1						
5305	637.5	4235.5	L: 126294	PLTVLLEY		345	137451	LEEDS	3	345	2			-1577.7	-1725.0	-0.23104	-0.18091	-1281.0	-1396.4
			C:125000	HURLEY	3	345	137451	LEEDS	3	345	1	3							
			Open	125000	HURLEY	3		345	137451	LEEDS	3	345	1	0.32992	-0.15196	-899.2	-996.0		
5306	773.9	4371.8	L: Interface	14	Leeds-PV						3101.0	3450.0	0.45091		0.35307	2522.1	2795.3		
			C:125000	HURLEY	3	345	137451	LEEDS	3	345	1	3							
			Open	125000	HURLEY	3		345	137451	LEEDS	3	345	1						
5307	888.3	4486.3	L: 126294	PLTVLLEY		345	137451	LEEDS	3	345	2			-1566.9	-1725.0	-0.17794	-0.18091	-1281.0	-1441.7
			C:SIN:430															1682	
			Open	125002	ROSETON		345	126281	FISHKILL		345	1							
5308	888.3	4486.3	L: 126294	PLTVLLEY		345	137451	LEEDS	3	345	2			-1566.9	-1725.0	-0.17794	-0.18091	-1281.0	-1441.7
			C:125002	ROSETON		345	126281	FISHKILL		345	1	10							
			Open	125002	ROSETON			345	126281	FISHKILL		345	1						
5309	917.1	4515.1	L: 126294	PLTVLLEY		345	137455	ATHENS		345	1			-1523.3	-1725.0	-0.21987	-0.17216	-1241.0	-1398.9
			C:125000	HURLEY	3	345	137451	LEEDS	3	345	1	3							
			Open	125000	HURLEY	3		345	137451	LEEDS	3	345	1	0.31397	-0.15196	-899.2	-1038.5		
5310	942.2	4540.1	L: 130750	COOPC345		345	130753	FRASR345		345	1			-997.1	-1207.0	-0.22280			

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5311	983.9	4581.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1472.2	-1725.0	-0.25688	-0.18091	-1281.0	-1459.0
			C:137451 LEEDS 3	345	137455 ATHENS	345	1 1006						
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1			-0.44128	0.17216	433.3	602.7
5312	1065.3	4663.3	L: Interface 14 Leeds-PV					3080.0	3450.0	0.34727	0.35307	2522.1	2898.2
			C:SIN:430									1682	
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.37040	-0.01566	1506.4	1489.7
5313	1065.3	4663.3	L: Interface 14 Leeds-PV					3080.0	3450.0	0.34727	0.35307	2522.1	2898.2
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.37040	-0.01566	1506.4	1489.7
5314	1135.4	4733.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1474.4	-1725.0	-0.22069	-0.18091	-1281.0	-1486.4
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1			-0.29333	0.13560	659.3	813.3
5315	1185.4	4783.3	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05531	0.03007	126.6	162.2
			C:SIN:440									1683	
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.11202	0.22532	1114.8	1381.9
5316	1185.4	4783.3	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05531	0.03007	126.6	162.2
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.11202	0.22532	1114.8	1381.9
5317	1214.4	4812.3	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08231	-0.05018	-448.0	-509.0
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14263	0.22532	1114.8	1388.4
5318	1214.4	4812.3	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08231	-0.05018	-448.0	-509.0
			C:SIN:440									1683	
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14263	0.22532	1114.8	1388.4
5319	1251.3	4849.3	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16933	-0.17216	-1241.0	-1456.5
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18061	-0.01566	1506.4	1486.8
5320	1251.3	4849.3	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16933	-0.17216	-1241.0	-1456.5
			C:SIN:430									1682	
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18061	-0.01566	1506.4	1486.8
5321	1278.1	4876.1	L: Interface 14 Leeds-PV					2899.5	3450.0	0.43070	0.35307	2522.1	2973.3
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1			0.57248	0.13560	659.3	832.6
5322	1294.5	4892.4	L: 130794 DELHI115	115	130804 DEL T115	115	1	68.4	164.0	0.07386	0.03995	0.5	52.2
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			-0.11754	-0.28848	-577.5	-951.0
5323	1369.6	4967.5	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1317.8	-1703.0	-0.28126	-0.22280	-997.1	-1302.2
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.43391	-0.13472	-739.1	-923.6
5324	1375.3	4973.2	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1430.3	-1725.0	-0.21427	-0.18091	-1281.0	-1529.8
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.14972	-0.22280	-997.1	-1303.5
5325	1377.5	4975.4	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1348.1	-1724.0	-0.27289	-0.17471	-863.0	-1103.6
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2 1005						
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.56508	-0.17375	-858.5	-1097.8
5326	1391.7	4989.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1345.1	-1724.0	-0.27226	-0.17375	-858.5	-1100.3
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1 1004						

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			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				0.56388	-0.17471	-863.0	-1106.1
5327	1425.2	5023.1	L: 130817 JENN 115	115	130819 KATEL115	115	1	-107.6	-159.0	-0.03604		-0.01798	-71.5	-97.1
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				0.06259	-0.28848	-577.5	-988.7
5328	1428.1	5026.0	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1425.1	-1725.0	-0.21001		-0.17216	-1241.0	-1486.9
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.27915	0.13560	659.3	852.9
5329	1454.5	5052.4	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-237.7	-317.0	-0.05450		-0.03007	-161.7	-205.4
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	9						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.17871	-0.13671	-425.4	-624.2
5330	1492.2	5090.1	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1350.8	1793.0	0.29634		0.18688	874.1	1152.9
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	8						
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2				-0.64149	-0.17064	-743.2	-997.8
5331	1522.3	5120.2	L: Interface 14 Leeds-PV					2813.4	3450.0	0.41817		0.35307	2522.1	3059.6
			C:130750 COOPC345	345	130753 FRASR345	345	1	192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1				-0.29219	-0.22280	-997.1	-1336.2
5332	1644.5	5242.5	L: Interface 32 F-To-G					3713.3	4643.0	0.56535				
			Base Case											
5333	1676.8	5274.7	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1383.1	-1725.0	-0.20390		-0.17216	-1241.0	-1529.7
			C:130750 COOPC345	345	130753 FRASR345	345	1	192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.14248	-0.22280	-997.1	-1370.7
5334	1688.2	5286.1	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08231		0.05018	448.0	532.7
			C:SIN:440					1683						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.14263	0.22532	1114.8	1495.2
5335	1688.2	5286.1	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08231		0.05018	448.0	532.7
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.14263	0.22532	1114.8	1495.2
5336	1714.9	5312.9	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.3	173.0	0.04297		0.02887	78.2	127.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04986	0.28286	422.3	907.4
5337	1718.7	5316.7	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	46.7	143.0	0.05604		0.03598	18.7	80.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.10628	-0.18869	-263.5	-587.8
5338	1722.9	5320.9	L: 130817 JENN 115	115	130851 SIDNT115	115	1	53.9	120.0	0.03839		0.02139	19.8	56.7
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				-0.05894	-0.28848	-577.5	-1074.6
5339	1729.9	5327.9	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-1008.0	-1345.0	-0.19480		-0.13472	-739.1	-972.2
			C:130750 COOPC345	345	130753 FRASR345	345	1	192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.26966	-0.22280	-997.1	-1382.5
5340	1736.9	5334.8	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1292.6	-1793.0	-0.28811		-0.17064	-743.2	-1039.5
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.62859	0.18688	874.1	1198.7
5341	1753.5	5351.5	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-44.7	-143.0	-0.05604		-0.03598	-16.7	-79.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.10628	-0.18869	-263.5	-594.4
5342	1784.2	5382.2	L: Interface 23 QFW					892.6	-0.0	-0.50025		-0.49667	1095.5	209.3
			C:GEN:KINTIGH-New					1777						
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	1				0.00000	-0.00509	-288.5	-297.5

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			Open 130754 KINTI345	345	130873 KINTIG24	24.0	2			0.35120	-0.01019	-577.7	-595.9
5343	1808.5	5406.4	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.0	159.0	0.03648	0.02445	75.1	119.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04252	0.28286	422.3	933.8
5344	1831.3	5429.2	L: 130757 WATRC345	345	200769 HOMER CY	345	1	-543.5	-755.0	-0.11548			
			Base Case										
5345	1833.1	5431.0	L: Interface 23 QFW					910.4	-0.0	-0.49667	-0.49667	1095.5	185.0
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
5346	1848.9	5446.9	L: Interface 23 QFW					918.7	0.0	-0.49686	-0.49667	1095.5	177.1
			C:HQ-NY-765-New				1778						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.25138	0.00042	624.7	625.5
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.25138	0.00036	543.6	544.3
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.00039	10.3	9.6
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.09617	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
5347	1860.0	5457.9	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1262.4	-1793.0	-0.28526	-0.17064	-743.2	-1060.5
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.55569	0.18688	874.1	1221.7
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.07885	-0.13671	-425.4	-679.6
5348	1878.0	5475.9	L: 130819 KATEL115	115	130838 OAKDL115	115	1	-124.3	-192.0	-0.03604	-0.01798	-88.2	-121.9
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			0.06259	-0.28848	-577.5	-1119.3
5349	1893.7	5491.7	L: Interface 23 QFW					940.5	0.0	-0.49667	-0.49667	1095.5	154.9
			C:GEN:GINNA				1562						
			Remove unit 1 from bus 149140 GINNA 19	19.0	605.0 MW	dispatch							
5350	1897.8	5495.8	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	89.8	159.0	0.03648	0.02445	71.8	118.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04252	0.28286	422.3	959.1
5351	1903.8	5501.8	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1353.2	-1725.0	-0.19529	-0.18091	-1281.0	-1625.5
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.09362	0.18688	874.1	1229.9
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.02277	-0.13671	-425.4	-685.6
5352	1915.6	5513.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1353.2	-1725.0	-0.19407	-0.18091	-1281.0	-1627.6
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196					
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.09769	-0.13472	-739.1	-997.2
5353	1940.5	5538.5	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-772.3	-1380.0	-0.31317	-0.28848	-577.5	-1137.3
			C:130753 FRASR345	345	137200 EDIC	345	1	202					

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			Open 130753 FRASR345	345 137200 EDIC	345 1				0.27558	-0.08958	-706.7	-880.6
5354	1945.8	5543.8	L: Interface 23 QFW			966.4	-0.0	-0.49667		-0.49667	1095.5	129.0
			C:GEN:SEABROOK		1573							
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
5355	1945.8	5543.8	L: Interface 23 QFW			966.4	-0.0	-0.49667		-0.49667	1095.5	129.0
			C:GEN:SEAB&OMS		1575							
			Open 100508 SANDB115	115 100509 SB RCTOR	115 2				0.00003	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
5356	1952.4	5550.4	L: Interface 23 QFW			969.7	-0.0	-0.49667		-0.49667	1095.5	125.8
			C:SIN:250		1677							
			Open 100508 SANDB115	115 100509 SB RCTOR	115 2				0.00003	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
5357	1954.5	5552.5	L: Interface 23 QFW			970.7	0.0	-0.49667		-0.49667	1095.5	124.7
			C:GEN:MLS3&OMS		1574							
			Open 100508 SANDB115	115 100509 SB RCTOR	115 2				0.00003	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
5358	1954.5	5552.5	L: Interface 23 QFW			970.7	0.0	-0.49667		-0.49667	1095.5	124.7
			C:GEN:MILLST 3		1572							
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
5359	1956.7	5554.6	*L: 126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1344.5	-1725.0	-0.19447		-0.18091	-1281.0	-1635.0
			C:130750 COOPC345	345 146754 MDTN TAP	345 1 195							
			Open 130750 COOPC345	345 146754 MDTN TAP	345 1				-0.07257	0.18688	874.1	1239.7
5360	1973.1	5571.1	L: 135859 LAPPINS1	115 135866 NLEROYTA	115 1	99.9	173.0	0.03702		0.02887	78.2	135.2
			C:130754 KINTI345	345 149000 ROCH 345	345 1 205							
			Open 130754 KINTI345	345 149000 ROCH 345	345 1				0.04136	0.19712	524.7	913.6
5361	1975.6	5573.6	*L: Interface 23 QFW			972.3	0.0	-0.49215		-0.49667	1095.5	114.2
			C:SER:HC-SR_37&W-F_171		1600							
			Open 135398 SW345	345 200769 HOMER CY	345 1				0.30257	0.01442	-378.4	-349.9
			Open 135277 FALCONER	115 200579 WARREN	115 1				0.24131	0.00065	-35.9	-34.6
5362	1993.6	5591.6	L: 146771 SHOEM138	138 146772 SHOEMTAP	138 1	-544.9	-707.0	-0.08131		-0.05018	-448.0	-548.1
			C:125001 ROCK TAV	345 146754 MDTN TAP	345 1 9							
			Open 125001 ROCK TAV	345 146754 MDTN TAP	345 1				0.22773	-0.13671	-425.4	-697.9
5374	2040.1	5638.1	L: 135862 MUMFORD1	115 135866 NLEROYTA	115 1	-83.8	-173.0	-0.04370		-0.02936	-62.4	-122.3
			C:147834 NIAG 345	345 149000 ROCH 345	345 1 1226							
			Open 147834 NIAG 345	345 149000 ROCH 345	345 1				-0.05070	0.28286	422.3	999.3
5376	2064.3	5662.3	L: 137451 LEEDS 3	345 137453 N.SCOT99	345 2	-1214.0	-1724.0	-0.24704		-0.17375	-858.5	-1217.1
			C:BUS:N.S._77		1614							
			Open 137452 N.SCOT77	345 137453 N.SCOT99	345 1				0.60779	-0.04383	-248.0	-338.5
			Open 137452 N.SCOT77	345 137516 N.SCOT1	115 1				0.40443	0.00048	111.8	112.8
			Open 137200 EDIC	345 137452 N.SCOT77	345 1				-0.33531	0.17241	819.4	1175.3
			Open 137450 ALPS345	345 137452 N.SCOT77	345 1				-0.26699	-0.04105	-92.7	-177.4
			Open 137451 LEEDS 3	345 137452 N.SCOT77	345 1				0.20561	0.00000	-0.0	-0.0
5378	2065.1	5663.1	L: Interface 14 Leeds-PV			2662.9	3450.0	0.38114		0.35307	2522.1	3251.2
			C:SER:CMT34&MTR34		1593							
			Open 130750 COOPC345	345 146754 MDTN TAP	345 1				0.18272	0.18688	874.1	1260.0
			Open 125001 ROCK TAV	345 146754 MDTN TAP	345 1				0.04443	-0.13671	-425.4	-707.7
5384	2077.9	5675.8	L: Interface 14 Leeds-PV			2663.0	3450.0	0.37876		0.35307	2522.1	3255.7
			C:130750 COOPC345	345 147833 MARCY T1	345 1 196							

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			Open 130750 COOPC345	345	147833	MARCY T1	345	1				-0.19065	-0.13472	-739.1	-1019.1
5385	2083.2	5681.1	L: 135452 LOCKPORT	115	135872	SOUR-111	115	1	93.6	159.0	0.03140		0.02445	75.1	126.0
			C:130754 KINTI345	345	149000	ROCH 345	345	1							
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.03527	0.19712	524.7	935.3
5386	2084.3	5682.3	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1082.7	-1703.0	-0.29760		-0.22280	-997.1	-1461.5
			C:130753 FRASR345	345	147831	GILB 345	345	1							
			Open 130753 FRASR345	345	147831	GILB 345	345	1				-0.39383	0.18992	217.4	613.3
5391	2093.1	5691.1	L: 135452 LOCKPORT	115	135876	TELRDTP1	115	1	104.1	180.0	0.03628		0.02431	86.2	137.1
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04231	0.28286	422.3	1014.3
5395	2099.6	5697.6	L: 146758 CHESTER	138	146773	SGRLF138	138	1	202.6	317.0	0.05450		0.03007	126.6	189.7
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				-0.17871	-0.13671	-425.4	-712.4
5405	2118.6	5716.6	L: Interface 14 Leeds-PV						2645.9	3450.0	0.37954		0.35307	2522.1	3270.1
			C:130750 COOPC345	345	146754	MDTN TAP	345	1							
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				0.14164	0.18688	874.1	1270.0
5408	2123.9	5721.8	L: 130757 WATRC345	345	130768	WATRC230	230	1	455.1	600.0	0.06822		-0.07321	257.6	102.1
			C:130755 OAKDL345	345	130757	WATRC345	345	1							
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.74956	-0.18869	-263.5	-664.3
5423	2159.8	5757.8	L: 135850 SOUR-114	115	135861	MORTIMER	115	1	71.0	153.0	0.03796		0.02545	52.3	107.3
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04425	0.28286	422.3	1033.2
5433	2174.1	5772.1	L: Interface 14 Leeds-PV						2625.9	3450.0	0.37904		0.35307	2522.1	3289.7
			C:SER:PV_LM_398					1597							
			Open 103105 LONG MTN	345	103117	CTNY398	345	1				0.33673	0.07713	308.5	476.2
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1				-0.23700	0.00000	0.2	0.2
5434	2174.2	5772.1	*L: Interface 14 Leeds-PV						2625.9	3450.0	0.37904		0.35307	2522.1	3289.7
			C:103117 CTNY398	345	126294	PLTVLLEY	345	1							
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1				0.33673	0.07713	308.3	476.0
5456	2187.0	5785.0	L: 135872 SOUR-111	115	135873	SWDN-111	115	1	90.3	159.0	0.03140		0.02445	71.8	125.3
			C:130754 KINTI345	345	149000	ROCH 345	345	1							
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.03527	0.19712	524.7	955.8
5471	2190.8	5788.7	L: 130836 N.WAV115	115	131018	LOUNSI115	115	1	50.2	173.0	0.05604		0.03598	22.2	101.1
			C:130755 OAKDL345	345	130757	WATRC345	345	1							
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.10628	-0.18869	-263.5	-676.9
6988	2214.4	5812.3	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1	98.3	180.0	0.03690		0.02473	80.1	134.9
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04302	0.28286	422.3	1048.6
7093	2229.9	5827.8	L: 130794 DELHI115	115	130851	SIDNT115	115	1	-35.8	-120.0	-0.03775		-0.02087	-2.0	-48.5
			C:130753 FRASR345	345	130755	OAKDL345	345	1							
			Open 130753 FRASR345	345	130755	OAKDL345	345	1				0.05853	-0.28848	-577.5	-1220.8
7104	2234.6	5832.5	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1309.7	-1725.0	-0.18585		-0.17216	-1241.0	-1625.8
			C:SER:CMT34&MTR34					1593							
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				-0.08910	0.18688	874.1	1291.7
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				-0.02167	-0.13671	-425.4	-730.8
7107	2236.2	5834.2	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	192.0	280.0	0.03934		0.02516	170.9	227.1
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.05011	0.28286	422.3	1054.8

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7108	2237.4	5835.3	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1147.3	-1703.0	-0.24839	-0.22280	-997.1	-1495.6
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3		345 147831 GILB 345	345	1			0.16344	-0.15657	-918.9	-1269.2
7120	2248.4	5846.4	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1309.8	-1725.0	-0.18468	-0.17216	-1241.0	-1628.1
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345		345 147833 MARCY T1	345	1			0.09296	-0.13472	-739.1	-1042.0
7136	2267.3	5865.3	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-238.5	-430.0	-0.08444			
			Base Case										
7140	2271.3	5869.3	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	448.0	562.0	0.05018			
			Base Case										
7143	2275.5	5873.5	L: 130815 HINMN115	115	131611 HARIS115	115	1	-218.9	-306.0	-0.03826	-0.02449	-198.4	-254.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345		345 149000 ROCH 345	345	1			-0.04868	0.28286	422.3	1065.9
7148	2288.8	5886.8	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1301.4	-1725.0	-0.18507	-0.17216	-1241.0	-1635.1
			C:130750 COOPC345	345	146754 MDTN TAP	345	1 195						
			Open 130750 COOPC345		345 146754 MDTN TAP	345	1			-0.06906	0.18688	874.1	1301.8
7149	2289.1	5887.1	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1229.4	-1792.0	-0.24576	-0.18486	-916.1	-1339.3
			C:SIN:160				1670						
			Open 137200 EDIC		345 137452 N.SCOT77	345	1			-0.35322	0.17241	819.4	1214.1
			Open 137228 INGMS-CD		115 137886 INGHAM-E	115	1			-0.19918	0.00000	119.9	119.9
			Open 137235 PORTER 1		115 137246 VALLEY	115	1			-0.00023	-0.00018	74.8	74.4
7150	2289.1	5887.1	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1229.4	-1792.0	-0.24576	-0.18486	-916.1	-1339.3
			C:SIN:150				1669						
			Open 137200 EDIC		345 137452 N.SCOT77	345	1			-0.35322	0.17241	819.4	1214.1
			Open 137228 INGMS-CD		115 137886 INGHAM-E	115	1			-0.19920	0.00000	119.9	119.9
			Open 137235 PORTER 1		115 147905 ILION	115	1			-0.00016	-0.00011	88.8	88.5
7184	2344.5	5942.5	*L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1291.7	-1725.0	-0.18483	-0.17216	-1241.0	-1644.7
			C:SER:PV_LM_398				1597						
			Open 103105 LONG MTN		345 103117 CTNY398	345	1			-0.16419	0.07713	308.5	489.4
			Open 103117 CTNY398		345 126294 PLTVLLEY	345	1			0.11556	0.00000	0.2	0.2
7189	2348.4	5946.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-577.5	-1255.0	-0.28848			
			Base Case										
7195	2350.5	5948.5	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-84.5	-173.0	-0.03765	-0.02936	-62.4	-131.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345		345 149000 ROCH 345	345	1			-0.04206	0.19712	524.7	988.0
7196	2351.3	5949.3	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1184.4	-1724.0	-0.22948	-0.17471	-863.0	-1273.8
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3		345 147831 GILB 345	345	1			0.34981	-0.15657	-918.9	-1287.0
7221	2380.4	5978.3	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1180.0	-1724.0	-0.22854	-0.17375	-858.5	-1272.1
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3		345 147831 GILB 345	345	1			0.34992	-0.15657	-918.9	-1291.6
7228	2388.2	5986.1	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-656.6	-1380.0	-0.30290	-0.28848	-577.5	-1266.5
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345		345 147833 MARCY T1	345	1			0.10700	-0.13472	-739.1	-1060.9
7229	2389.3	5987.3	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	228.6	430.0	0.08429			
			Base Case										
7233	2393.3	5991.2	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-301.9	-540.0	-0.09949	-0.08444	-238.5	-440.6
			C:SER:HCWC/NWES				1607						

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			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11957	-0.11548	-543.5	-819.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.03821	-0.03244	43.0	-34.7
7252	2414.0	6012.0	L: 135452 LOCKPORT	115	135876 TELRDTP1	115	1	104.6	180.0	0.03123		0.02431	86.2	144.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03510	0.19712	524.7	1000.5
7254	2418.4	6016.4	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-302.8	-540.0	-0.09809		-0.08444	-238.5	-442.8
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11819	-0.11548	-543.5	-822.8
7256	2419.0	6017.0	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.30192		-0.28848	-577.5	-1275.4
			C:SIN:180					1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.07265	-0.18486	-916.1	-1363.3
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.04702	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1				0.00061	-0.00011	88.8	88.5
7257	2419.0	6017.0	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.30192		-0.28848	-577.5	-1275.4
			C:SIN:170					1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.07265	-0.18486	-916.1	-1363.3
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.04710	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00092	-0.00018	74.8	74.4
7269	2423.5	6021.4	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1199.5	-1792.0	-0.24449		-0.18486	-916.1	-1364.1
			C:137200 EDIC	345	137452 N.SCOT77	345	1	946						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.34586	0.17241	819.4	1237.3
7287	2430.9	6028.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-678.7	-1380.0	-0.28848		-0.28848	-577.5	-1278.8
			C:SIN:250					1677						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00002	0.00000	-0.1	-0.1
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
7325	2441.7	6039.7	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-300.6	-540.0	-0.09806		-0.08444	-238.5	-444.7
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11761	-0.11548	-543.5	-825.5
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.05269	0.00065	-35.9	-34.3
7360	2445.4	6043.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-642.5	-1380.0	-0.30159		-0.28848	-577.5	-1283.0
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.07092	-0.18486	-916.1	-1368.1
7649	2453.1	6051.1	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1149.2	1724.0	0.23433		0.17241	819.4	1242.4
			C:SIN:170					1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33494	-0.18486	-916.1	-1369.6
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19090	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00024	-0.00018	74.8	74.4
7651	2453.1	6051.1	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1149.2	1724.0	0.23433		0.17241	819.4	1242.4
			C:SIN:180					1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33494	-0.18486	-916.1	-1369.6
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19092	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1				0.00016	-0.00011	88.8	88.5
7656	2453.2	6051.1	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	16.6	143.0	0.05152		0.03598	18.7	106.9
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.05669	-0.11548	-543.5	-826.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.12286	-0.07321	257.6	78.0
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.05534	0.00000	22.4	22.4
8733	2459.8	6057.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-640.6	-1380.0	-0.30060		-0.28848	-577.5	-1287.1

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			C:SIN:150										1669	
			Open 137200 EDIC	345	137452	N.SCOT77	345	1			-0.07027	0.17241	819.4	1243.5
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1			-0.04606	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905	ILION	115	1			0.00061	-0.00011	88.8	88.5
8734	2459.8	6057.8	L: 130753 FRASR345	345	130755	OAKDL345	345	1			-640.6	-1380.0	-0.30060	
			C:SIN:160											1670
			Open 137200 EDIC	345	137452	N.SCOT77	345	1			-0.07027	0.17241	819.4	1243.5
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1			-0.04614	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246	VALLEY	115	1			0.00092	-0.00018	74.8	74.4
8794	2465.4	6063.4	L: 130753 FRASR345	345	130755	OAKDL345	345	1			-668.8	-1380.0	-0.28848	
			C:GEN:SEABROOK											1573
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
8795	2465.4	6063.4	*L: 130753 FRASR345	345	130755	OAKDL345	345	1			-668.8	-1380.0	-0.28848	
			C:GEN:SEAB&OMS											1575
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00002	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
8835	2473.3	6071.3	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1			544.9	746.0	0.08131	
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1						9
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1			-0.22773	-0.13671	-425.4	-763.5
8856	2480.5	6078.5	L: 135851 SHEL-113	115	135874	SWDN-113	115	1			88.4	180.0	0.03691	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1						1226
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1			0.04303	0.28286	422.3	1123.9
8866	2482.7	6080.6	L: 131018 LOUNS115	115	131850	CNYOG115	115	1			-11.0	143.0	0.06202	
			C:BUS:WATERCURE_230											1633
			Open 130768 WATRC230	230	130772	SHRED230	230	1			0.24198	0.05252	71.0	201.4
			Open 130757 WATRC345	345	130768	WATRC230	230	1			-0.18211	-0.07321	257.6	75.8
			Open 130763 HILSD230	230	130768	WATRC230	230	1			0.12849	0.00000	0.5	0.5
8874	2485.2	6083.2	L: 130807 GOUDY115	115	130848	S.OWE115	115	1			-3.7	-143.0	-0.05604	
			C:130755 OAKDL345	345	130757	WATRC345	345	1						206
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.10628	-0.18869	-263.5	-732.5
8884	2491.0	6088.9	L: 130848 S.OWE115	115	131850	CNYOG115	115	1			-14.7	-143.0	-0.05152	
			C:BUS:WATERCURE_345											1632
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.05669	-0.11548	-543.5	-831.2
			Open 130757 WATRC345	345	130768	WATRC230	230	1			0.12286	-0.07321	257.6	75.2
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.05534	0.00000	22.4	22.4
8885	2491.2	6089.2	L: 135850 SOUR-114	115	135861	MORTIMER	115	1			71.6	153.0	0.03268	
			C:130754 KINTI345	345	149000	ROCH 345	345	1						205
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			0.03671	0.19712	524.7	1015.7
8890	2497.0	6094.9	L: 130770 SHLDN230	230	131122	WTHRS230	230	1			291.9	540.0	0.09934	
			C:SER:HCWC/NWES											1607
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.11957	-0.11548	-543.5	-831.9
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.03821	-0.03244	43.0	-38.0
8906	2502.5	6100.4	L: 135850 SOUR-114	115	135876	TELRDTP1	115	1			-85.0	-180.0	-0.03797	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1						1226
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1			-0.04426	0.28286	422.3	1130.1
8914	2510.3	6108.3	L: 135858 GOLAH115	115	135862	MUMFORD1	115	1			-63.3	-173.0	-0.04370	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1						1226
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1			-0.05070	0.28286	422.3	1132.3

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8918	2514.1	6112.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	12.9	-143.0	-0.06202	-0.03598	-16.7	-107.2
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.24198	0.05252	71.0	203.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.18211	-0.07321	257.6	73.5
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.12849	0.00000	0.5	0.5
8923	2516.8	6114.7	L: 130767 STOLE230	230	130770 SHLDN230	230	1	218.2	430.0	0.08414			
			Base Case										
8935	2523.6	6121.6	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	292.8	540.0	0.09794	0.08429	228.6	441.3
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11819	-0.11548	-543.5	-834.9
8938	2526.0	6123.9	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	703.6	1685.0	0.38854	0.28286	422.3	1136.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.53611	0.19712	524.7	1022.6
8953	2537.3	6135.3	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1095.5	-1703.0	-0.23943	-0.22280	-997.1	-1562.4
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3					
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1			0.10944	-0.15196	-899.2	-1284.7
8965	2547.0	6144.9	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	290.6	540.0	0.09791	0.08429	228.6	443.3
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11761	-0.11548	-543.5	-837.6
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.05269	0.00065	-35.9	-34.2
8975	2552.6	6150.6	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1097.9	-1703.0	-0.23704	-0.22280	-997.1	-1565.8
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	120					
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			0.07872	-0.18091	-1281.0	-1742.8
8976	2553.5	6151.4	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-54.4	-153.0	-0.03860	-0.02587	-35.4	-101.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04499	0.28286	422.3	1144.5
8978	2554.7	6152.6	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	98.8	180.0	0.03177	0.02473	80.1	143.3
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03569	0.19712	524.7	1028.2
9011	2585.4	6183.3	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1092.7	-1703.0	-0.23606	-0.22280	-997.1	-1573.1
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	121					
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1			0.07704	-0.17216	-1241.0	-1686.1
9014	2590.4	6188.4	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	29.3	143.0	0.04387	0.03598	18.7	111.9
			C:130768 WATRC230	230	130772 SHRED230	230	1	227					
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.15025	0.05252	71.0	207.1
9018	2593.2	6191.1	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1119.7	1724.0	0.23302	0.17241	819.4	1266.5
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012					
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.32784	-0.18486	-916.1	-1395.5
9020	2593.5	6191.5	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	18.7	112.0	0.03598			
			Base Case										
9023	2593.8	6191.8	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-268.7	-540.0	-0.10461	-0.08444	-238.5	-457.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.07131	0.28286	422.3	1156.0
9029	2597.0	6194.9	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	47.6	143.0	0.03674	0.03598	18.7	112.1
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209					
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			-0.05020	-0.01515	-575.7	-615.1
9047	2605.3	6203.2	L: 130767 STOLE230	230	130770 SHLDN230	230	1	281.6	540.0	0.09919	0.08414	218.2	437.4
			C:SER:HCWC/NWES				1607						

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			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11957	-0.11548	-543.5	-844.4
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.03821	-0.03244	43.0	-41.5
9052	2606.1	6204.0	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	28.7	143.0	0.04387		0.03598	18.7	112.5
			C:SER:OAKDALE_WATRC230											
			Open 130768 WATRC230	230	130772 SHRED230	230	1				0.15025	0.05252	71.0	207.9
			Open 130765 OAKDL230	230	130772 SHRED230	230	1		NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				-0.10162	0.00000	6.8	6.8
9064	2609.5	6207.4	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-50.8	-153.0	-0.03915		-0.02624	-31.6	-100.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.04563	0.28286	422.3	1160.4
9078	2612.7	6210.6	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	28.4	143.0	0.04387		0.03598	18.7	112.7
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222						
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				-0.15025	-0.05252	-64.5	-201.7
9081	2613.6	6211.5	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	28.3	143.0	0.04387		0.03598	18.7	112.7
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.15025	0.05252	64.3	201.5
9110	2617.7	6215.7	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	192.7	280.0	0.03336		0.02516	170.9	236.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.04157	0.19712	524.7	1040.7
9124	2618.9	6216.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1083.6	-1703.0	-0.23653		-0.22280	-997.1	-1580.6
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.12460	-0.03335	-310.7	-398.1
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.04425	-0.18486	-916.1	-1400.2
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.00286	0.00064	118.7	120.3
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.00800	-0.17375	-858.5	-1313.5
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.01512	0.00000	1.6	1.6
9567	2627.9	6225.9	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	88.0	173.0	0.03233		0.02887	78.2	154.1
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				-0.04101	-0.08444	-238.5	-460.5
10496	2633.5	6231.4	L: 130767 STOLE230	230	130770 SHLDN230	230	1	282.5	540.0	0.09779		0.08414	218.2	439.8
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11819	-0.11548	-543.5	-847.6
10519	2634.8	6232.8	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-27.4	-143.0	-0.04387		-0.03598	-16.7	-111.5
			C:130768 WATRC230	230	130772 SHRED230	230	1	227						
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.15025	0.05252	71.0	209.4
10572	2640.7	6238.6	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	76.3	173.0	0.03660		0.02887	78.2	154.5
			C:130754 KINTI345	345	147834 NIAG 345	345	1	204						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				-0.04136	-0.18693	46.0	-447.7
10576	2641.1	6239.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	87.6	173.0	0.03233		0.02887	78.2	154.5
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228						
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				0.04101	0.08429	228.6	451.2
10587	2643.5	6241.4	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	195.5	280.0	0.03198		0.02516	170.9	237.4
			C:130766 ROBIN230	230	130767 STOLE230	230	1	224						
			Open 130766 ROBIN230	230	130767 STOLE230	230	1				0.26884	0.02536	91.5	158.5
10590	2643.6	6241.6	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	-18.5	143.0	0.06108		0.03598	18.7	113.8
			C:130763 HILSD230	230	130768 WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.19959	0.12573	-186.1	146.3
10594	2644.5	6242.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1117.4	1724.0	0.22939		0.17241	819.4	1275.4

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			Open 130763 HILSD230	230	130768 WATRC230	230	1						-0.19959	0.12573	-186.1	150.3		
10685	2678.8	6276.8	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1						-863.0	-1331.0	-0.17471			
			Base Case															
10697	2685.8	6283.8	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1						195.0	383.0	0.06999	0.05681	134.5	287.1
			C:SER:HC-WC_30&W-F_171					1601										
			Open 130757 WATRC345	345	200769 HOMER CY	345	1											
			Open 135277 FALCONER	115	200579 WARREN	115	1											
10705	2691.1	6289.1	L: 130815 HINMN115	115	131611 HARIS115	115	1						-222.3	-306.0	-0.03111	-0.02449	-198.4	-264.3
			C:130766 ROBIN230	230	130767 STOLE230	230	1	224										
			Open 130766 ROBIN230	230	130767 STOLE230	230	1											
10709	2692.7	6290.7	L: 130770 SHLDN230	230	131122 WTHRS230	230	1						258.7	540.0	0.10446	0.08429	228.6	455.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226										
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1											
10713	2693.9	6291.8	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1						1692.2	2283.0	0.21931	0.22532	1114.8	1721.8
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10										
			Open 125002 ROSETON	345	126281 FISHKILL	345	1											
10714	2693.9	6291.8	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1						1692.2	2283.0	0.21931	0.22532	1114.8	1721.8
			C:SIN:430					1682										
			Open 125002 ROSETON	345	126281 FISHKILL	345	1											
10717	2694.7	6292.6	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1						-194.4	-383.0	-0.06999	-0.05681	-133.9	-287.0
			C:SER:HC-WC_30&W-F_171					1601										
			Open 130757 WATRC345	345	200769 HOMER CY	345	1											
			Open 135277 FALCONER	115	200579 WARREN	115	1											
10723	2698.9	6296.9	L: 137451 LEEDS 3	345	147831 GILB 345	345	1						-1318.9	-1912.0	-0.21975	-0.15657	-918.9	-1341.5
			C:BUS:N.S._99					1615										
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1											
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1											
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1											
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2											
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1											
10730	2702.0	6300.0	L: 130750 COOPC345	345	130753 FRASR345	345	1						-1063.9	-1703.0	-0.23654	-0.22280	-997.1	-1599.1
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1										
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1											
10759	2719.6	6317.6	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2						-858.5	-1331.0	-0.17375			
			Base Case															
10775	2729.7	6327.6	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1						-448.0	-585.0	-0.05018			
			Base Case															
10815	2749.0	6346.9	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1						85.7	173.0	0.03174	0.02887	78.2	157.6
			C:135850 SOUR-114	115	135876 TELRDTP1	115	1	673										
			Open 135850 SOUR-114	115	135876 TELRDTP1	115	1											
10817	2749.2	6347.2	L: 130815 HINMN115	115	135452 LOCKPORT	115	1						191.1	280.0	0.03233	0.02516	170.9	240.0
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221										
			Open 130764 MEYER230	230	131122 WTHRS230	230	1											
10822	2752.7	6350.7	L: 130753 FRASR345	345	137200 EDIC	345	1						-886.4	-1380.0	-0.17932	-0.08958	-706.7	-953.3
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200										
			Open 130753 FRASR345	345	130755 OAKDL345	345	1											
10824	2753.1	6351.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1						86.3	173.0	0.03149	0.02887	78.2	157.7
			C:135452 LOCKPORT	115	135872 SOUR-111	115	1	599										

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			Open 135452 LOCKPORT	115	135872 SOUR-111	115	1				0.10725	0.02445	75.1	142.4	
10831	2755.7	6353.7	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	73.5	159.0	0.03104		0.02445	75.1	142.5	
			C:130754 KINTI345	345	147834 NIAG 345	345	1								
			Open 130754 KINTI345	345	147834 NIAG 345	345	1								
10861	2764.0	6361.9	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	84.6	173.0	0.03197		-0.03527	-0.18693	46.0	-469.2
			C:135850 SOUR-114	115	135861 MORTIMER	115	1								
			Open 135850 SOUR-114	115	135861 MORTIMER	115	1								
10862	2764.2	6362.1	*L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	86.0	173.0	0.03149		0.12194	0.02545	52.3	122.7
			C:135872 SOUR-111	115	135873 SWDN-111	115	1								
			Open 135872 SOUR-111	115	135873 SWDN-111	115	1								
10948	2776.4	6374.4	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	190.3	280.0	0.03232		0.10725	0.02445	71.8	139.4
			C:130770 SHLDN230	230	131122 WTHRS230	230	1								
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1								
11194	2780.8	6378.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1051.1	-1703.0	-0.23442		0.08488	0.08429	228.6	462.6
			C:BUS:N.S._77												
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1								
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1								
			Open 137200 EDIC	345	137452 N.SCOT77	345	1								
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1								
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1								
12481	2796.0	6394.0	L: 130767 STOLE230	230	130770 SHLDN230	230	1	248.4	540.0	0.10431		-0.03865	-0.04383	-248.0	-369.9
			C:147834 NIAG 345	345	149000 ROCH 345	345	1								
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1								
12482	2796.2	6394.2	L: 130815 HINMN115	115	131611 HARIS115	115	1	-218.0	-306.0	-0.03145		0.07131	0.28286	422.3	1213.2
			C:130764 MEYER230	230	131122 WTHRS230	230	1								
			Open 130764 MEYER230	230	131122 WTHRS230	230	1								
12502	2798.4	6396.3	L: 136150 CLAY	345	137200 EDIC	345	2	766.3	1434.0	0.23859		0.08245	-0.08444	-238.5	-474.7
			C:136150 CLAY	345	137200 EDIC	345	1								
			Open 136150 CLAY	345	137200 EDIC	345	1								
12586	2804.7	6402.7	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	189.4	280.0	0.03231		0.33000	0.17894	574.8	1075.6
			C:130767 STOLE230	230	130770 SHLDN230	230	1								
			Open 130767 STOLE230	230	130770 SHLDN230	230	1								
13641	2811.6	6409.5	L: 136150 CLAY	345	137200 EDIC	345	1	764.7	1434.0	0.23805		0.08488	0.08414	218.2	454.2
			C:136150 CLAY	345	137200 EDIC	345	2								
			Open 136150 CLAY	345	137200 EDIC	345	2								
13859	2813.9	6411.9	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-269.6	-540.0	-0.09610		0.32927	0.17954	576.6	1081.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1								
			Open 130754 KINTI345	345	149000 ROCH 345	345	1								
14003	2823.4	6421.3	L: 130815 HINMN115	115	131611 HARIS115	115	1	-217.2	-306.0	-0.03144		-0.05915	0.19712	524.7	1079.3
			C:130770 SHLDN230	230	131122 WTHRS230	230	1								
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1								
14046	2832.0	6430.0	L: Interface 32 F-To-G					4205.5	6118.0	0.67533		-0.08245	0.08429	228.6	466.6
			C:130750 COOPC345	345	130753 FRASR345	345	1								
			Open 130750 COOPC345	345	130753 FRASR345	345	1								
14069	2839.1	6437.0	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-303.1	-540.0	-0.08344		0.32927	0.17954	576.6	1081.4
			C:BUS:WATERCURE_345												
			Open 130757 WATRC345	345	200769 HOMER CY	345	1								
			Open 130757 WATRC345	345	130768 WATRC230	230	1								

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			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.05467	0.00000	22.4	22.4
14095	2843.6	6441.6	L: 130794 DELHI115	115	130838 OAKDL115	115	1	-76.3	-179.0	-0.03610	-0.01908	-42.2	-96.5
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			0.05902	-0.28848	-577.5	-1397.9
14112	2849.0	6446.9	*L: 130750 COOPC345	345	130753 FRASR345	345	1	-1030.5	-1703.0	-0.23606	-0.22280	-997.1	-1631.8
			C:137451 LEEDS 3	345	137455 ATHENS	345	1 1006						
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1			-0.07704	0.17216	433.3	923.8
14115	2851.7	6449.6	L: 130815 HINMN115	115	131611 HARIS115	115	1	-216.4	-306.0	-0.03143	-0.02449	-198.4	-268.2
			C:130767 STOLE230	230	130770 SHLDN230	230	1 226						
			Open 130767 STOLE230	230	130770 SHLDN230	230	1			-0.08245	0.08414	218.2	458.2
14131	2860.8	6458.7	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	70.2	159.0	0.03104	0.02445	71.8	141.8
			C:130754 KINTI345	345	147834 NIAG 345	345	1 204						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.03527	-0.18693	46.0	-488.8
14133	2863.9	6461.8	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	89.0	180.0	0.03177	0.02474	70.3	141.1
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03569	0.19712	524.7	1089.2
14147	2881.8	6479.8	*L: 131018 LOUNS115	115	131850 CNYOG115	115	1	39.7	143.0	0.03584	0.03598	18.7	122.4
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1 392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			-0.03223	0.00434	-652.6	-640.1
14151	2885.0	6483.0	L: 130753 FRASR345	345	147831 GILB 345	345	1	678.7	1524.0	0.29300	0.18992	217.4	765.4
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			-0.46262	-0.22280	-997.1	-1639.9
14156	2889.3	6487.2	L: 135850 SOUR-114	115	135876 TELRDP1	115	1	-85.6	-180.0	-0.03269	-0.02545	-66.3	-139.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.03671	0.19712	524.7	1094.2
14159	2890.7	6488.6	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-252.5	-540.0	-0.09946	-0.08444	-238.5	-482.6
			C:LKWANA-OXBW				1651						
			Open 417 OXBOW	230	3070 LACKAWNA	230	1			0.11664	-0.12871	-119.7	-491.8
14162	2896.3	6494.3	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-64.0	-173.0	-0.03765	-0.02936	-41.9	-126.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04206	0.19712	524.7	1095.6
14182	2909.2	6507.1	L: 130836 N.WAV115	115	131018 LOUNS115	115	1	-7.4	173.0	0.06202	0.03598	22.2	126.9
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.24198	0.05252	71.0	223.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.18211	-0.07321	257.6	44.6
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.12849	0.00000	0.5	0.5
14190	2921.9	6519.9	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	259.6	540.0	0.09595	0.08429	228.6	474.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.05915	0.19712	524.7	1100.6
14203	2936.2	6534.1	*L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-37.8	-143.0	-0.03584	-0.03598	-16.7	-122.4
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1 392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			0.03223	0.00434	-652.6	-639.8
14211	2948.5	6546.5	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-55.0	-153.0	-0.03323	-0.02587	-35.4	-111.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.03732	0.19712	524.7	1105.9
14212	2951.2	6549.2	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1120.1	-1792.0	-0.22767	-0.18486	-916.1	-1461.7
			C:BUS:N.S._77				1614						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.09196	-0.04383	-248.0	-377.4

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			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.02619	0.00048	111.8	113.2	
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.28820	0.17241	819.4	1328.3	
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.06914	-0.04105	-92.7	-213.8	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		0.13842	0.00000	-0.0	-0.0	
14216	2957.0	6555.0	L: Interface 19 PJM-NY					2394.6	3114.0	0.24327	0.24327	1498.2	2217.5
			C:GEN:SEAB&OMS										1575
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1	
			Remove unit 1 from bus 102869 SBRK G1	25.0		1318.0							MW dispatch
14217	2957.0	6555.0	L: Interface 35 NY-PJM					-2394.6	-3114.0	-0.24327	-0.24327	-1498.2	-2217.5
			C:GEN:SEABROOK										1573
			Remove unit 1 from bus 102869 SBRK G1	25.0		1318.0							MW dispatch
14218	2957.0	6555.0	L: Interface 35 NY-PJM					-2394.6	-3114.0	-0.24327	-0.24327	-1498.2	-2217.5
			C:GEN:SEAB&OMS										1575
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00004	0.00000	-0.1	-0.1	
			Remove unit 1 from bus 102869 SBRK G1	25.0		1318.0							MW dispatch
14219	2957.0	6555.0	L: Interface 19 PJM-NY					2394.6	3114.0	0.24327	0.24327	1498.2	2217.5
			C:GEN:SEABROOK										1573
			Remove unit 1 from bus 102869 SBRK G1	25.0		1318.0							MW dispatch
14222	2962.8	6560.7	L: 130768 WATRC230	230	130772 SHRED230	230	1	139.4	440.0	0.10146	0.05252	71.0	226.6
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						
14224	2963.6	6561.5	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	293.2	540.0	0.08329	0.08429	228.6	478.4
			C:BUS:WATERCURE_345										1632
			Open 130757 WATRC345	345	200769 HOMER CY	345	1						
			Open 130757 WATRC345	345	130768 WATRC230	230	1						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						
14225	2966.6	6564.5	L: 130836 N.WAV115	115	131018 LOUNS115	115	1	20.2	173.0	0.05152	0.03598	22.2	129.0
			C:BUS:WATERCURE_345										1632
			Open 130757 WATRC345	345	200769 HOMER CY	345	1						
			Open 130757 WATRC345	345	130768 WATRC230	230	1						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						
14226	2967.2	6565.1	L: 137200 EDIC	345	137452 N.SCOT77	345	1	819.4	1331.0	0.17241			
			Base Case										
14227	2970.6	6568.5	L: 137451 LEEDS 3	345	137455 ATHENS	345	1	983.0	1725.0	0.24979	0.17216	433.3	944.7
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	120					
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2						
14228	2974.5	6572.5	L: Interface 35 NY-PJM					-2390.4	-3114.0	-0.24327	-0.24327	-1498.2	-2221.8
			C:SIN:250										1677
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2						
			Remove unit 3 from bus 103563 MILL#3	24.0		1276.0							MW dispatch
14229	2974.5	6572.5	L: Interface 19 PJM-NY					2390.4	3114.0	0.24327	0.24327	1498.2	2221.8
			C:SIN:250										1677
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2						
			Remove unit 3 from bus 103563 MILL#3	24.0		1276.0							MW dispatch
14231	2977.2	6575.2	L: 130787 CODNT115	115	130830 MONTR115	115	1	-6.1	-144.0	-0.04631	-0.03081	15.5	-76.2
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						
14235	2995.1	6593.1	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	242.6	540.0	0.09931	0.08429	228.6	481.1

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C:LKWANA-OXBW

Open 417 OXBOW

230 3070 LACKAWNA

1651

230 1

-0.11664 -0.12871 -119.7 -505.3

TotalEast

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, APR 08 2009 10:56
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From ON_E_EXP To GHI_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 15991 violations

Interface-1 Interface 5 TOTAL EAST Init.Flow= 5748.69 TDF= 1.0000

N	FCITC IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
							Init	Final
		C: Contingency description	Ncon	Flow	Rating	LODF		
1	-170280.-164532.	L: Interface 21 PJM-WEST	5137.7	0.0	0.03017	0.04805	5112.7	-3068.8
		C:SER:C398/NWES	1605					
		Open 409 GROVER 230 200675 E.TWANDA	230	1		0.06509	0.00120	-15.6 -220.3
		Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.17346	-0.07609	117.6 13073.5
		Open 381 TOWANDA 115 200675 E.TWANDA	230	1		0.01304	-0.00618	-52.1 1000.5
		Open 130836 N.WAV115 115 200676 E.SAYRE	115	1		0.14744	-0.03170	43.0 5441.6
2	-170055.-164307.	L: Interface 21 PJM-WEST	5139.3	0.0	0.03022	0.04805	5112.7	-3058.0
		C:SER:ETHS/NWES	1606					
		Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.17144	-0.07609	117.6 13056.4
		Open 130836 N.WAV115 115 200676 E.SAYRE	115	1		0.15082	-0.03170	43.0 5434.5
3	-151727.-145978.	L: Interface 21 PJM-WEST	5133.5	0.0	0.03383	0.04805	5112.7	-2177.3
		C:ETHS/LLGD	1649					
		Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.13801	-0.07609	117.6 11661.8
		Open 130807 GOUDY115 115 200680 LAUREL L	115	1		0.12187	-0.03046	38.0 4659.2
4	-133033.-127284.	L: Interface 21 PJM-WEST	5127.4	0.0	0.03854	0.04805	5112.7	-1279.1
		C:130763 HILSD230 230 200675 E.TWANDA	230	1	1375			
		Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.12492	-0.07609	117.6 10239.5
5	-125291.-119542.	L: Interface 21 PJM-WEST	5123.5	0.0	0.04089	0.04805	5112.7	-907.2
		C:130763 HILSD230 230 130768 WATRC230	230	1	219			

TotalEast

	Open	130763	HILSD230	230	130768	WATRC230	230	1				-0.05811	0.12311	-186.1	-15611.2
6	-122996.-117248.	L: Interface	21	PJM-WEST			5130.0		0.0	0.04171		0.04805	5112.7	-796.9	
		C:BUS:WATERCURE_230						1633							
		Open	130768	WATRC230	230	130772	SHRED230	230	1			-0.02074	0.05141	71.0	-6252.4
		Open	130757	WATRC345	345	130768	WATRC230	230	1			0.07352	-0.07170	257.6	9076.9
		Open	130763	HILSD230	230	130768	WATRC230	230	1			-0.18949	0.00000	0.5	0.5
7	-119773.-114024.	L: Interface	21	PJM-WEST			5043.3		0.0	0.04211		0.04805	5112.7	-642.0	
		C:MULT04						1656							
		Open	9	JUNIATA	500	21	SUNBURY	500	1			-0.13383	0.04353	524.7	-4688.9
		Open	21	SUNBURY	500	3084	SUNBURY	230	24			-0.00698	0.01634	-121.6	-2079.0
8	-118712.-112963.	L: Interface	21	PJM-WEST			5130.0		-0.0	0.04321		0.04805	5112.7	-591.1	
		C:130757 WATRC345	345	130768 WATRC230	230	1	213								
		Open	130757	WATRC345	345	130768	WATRC230	230	1			0.06740	-0.07170	257.6	8769.7
9	-113981.-108232.	L: Interface	21	PJM-WEST			5182.8		0.0	0.04547		0.04805	5112.7	-363.8	
		C:SER:HC-SR_37&W-F_171						1600							
		Open	135398	SW345	345	200769	HOMER CY	345	1			-0.17837	0.01417	-378.4	-1993.5
		Open	135277	FALCONER	115	200579	WARREN	115	1			-0.07354	0.00066	-35.9	-111.4
10	-113309.-107560.*	L: Interface	21	PJM-WEST			5175.9		0.0	0.04568		0.04805	5112.7	-331.5	
		C:135398 SW345	345	200769 HOMER CY	345	1	1380								
		Open	135398	SW345	345	200769	HOMER CY	345	1			-0.16708	0.01417	-378.4	-1984.0
1755	-78066.8-72318.1	L: Interface	20	PJM-CENT			3528.6		-0.0	0.04520		0.10258	3269.0	-4738.8	
		C:126260 BOWLINE1	345	146750 WHAV345	345	10	79								
		Open	126260	BOWLINE1	345	146750	WHAV345	345	10			-0.55149	0.10404	-470.6	-8592.7
1763	-59659.4-53910.7	L: Interface	20	PJM-CENT			3469.8		-0.0	0.05816		0.10258	3269.0	-2850.6	
		C:SIN:30						1665							
		Open	126260	BOWLINE1	345	146841	BOW1	20.0	1		NA				
		Open	126260	BOWLINE1	345	146750	WHAV345	345	10			-0.42624	0.10404	-470.6	-6677.6
		Open	126290	LADENTWN	345	146750	WHAV345	345	1			-0.00074	0.09566	-170.6	-5877.8
1764	-52937.8-47189.1	L: Interface	20	PJM-CENT			3229.5		0.0	0.06101		0.10258	3269.0	-2161.1	
		C:LKWANA-OXBW						1651							
		Open	417	OXBOW	230	3070	LACKAWNA	230	1			0.33047	-0.12579	-119.7	6539.5
1765	-50855.5-45106.8	L: Interface	20	PJM-CENT			3322.8		0.0	0.06534		0.10258	3269.0	-1947.5	
		C:ETHS/NWES/LLGD						1648							
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.28248	-0.07609	117.6	3987.0
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.25885	-0.03170	43.0	1655.3
		Open	130807	GOUDY115	115	200680	LAUREL L	115	1			0.24753	-0.03046	38.0	1586.9
1766	-42681.0-36932.3	L: Interface	20	PJM-CENT			3304.2		-0.0	0.07742		0.10258	3269.0	-1109.0	
		C:SER:C398/NWES						1605							
		Open	409	GROVER	230	200675	E.TWANDA	230	1			0.09834	0.00120	-15.6	-66.9
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.24445	-0.07609	117.6	3365.0
		Open	381	TOWANDA	115	200675	E.TWANDA	230	1			0.01930	-0.00618	-52.1	211.7
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.20696	-0.03170	43.0	1396.2
1767	-42672.0-36923.3	L: Interface	20	PJM-CENT			3306.6		0.0	0.07749		0.10258	3269.0	-1108.1	
		C:SER:ETHS/NWES						1606							
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.24142	-0.07609	117.6	3364.3
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.21196	-0.03170	43.0	1395.9
1768	-39925.6-34176.9	L: Interface	20	PJM-CENT			3298.4		-0.0	0.08261		0.10258	3269.0	-826.4	
		C:ETHS/LLGD						1649							

TotalEast

			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.19432	-0.07609	117.6	3155.4	
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.17004	-0.03046	38.0	1254.0	
1769	-38666.3-32917.6	L:	Interface	20	PJM-CENT				3966.3	0.0	0.10258		0.10258	3269.0	-697.2
			C:GEN:PEACHBTM						1568						
			Remove unit 1 from bus	34	PCHBTM 2	22.0	1060.3	MW	dispatch						
1770	-38162.8-32414.1	L:	Interface	20	PJM-CENT				3914.6	0.0	0.10258		0.10258	3269.0	-645.6
			C:GEN:SALEM						1567						
			Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch						
1771	-36926.5-31177.9*L:	Interface	20	PJM-CENT					3787.8	0.0	0.10258		0.10258	3269.0	-518.7
			C:SIN:250						1677						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1	
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch						
3527	-3462.8	2285.9	L:	Interface	26	ONTARIO-MICH			761.4	-0.0	0.21989		0.23760	736.0	-86.8
			C:ETHS/NWES/LLGD						1648						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.12812	-0.07609	117.6	381.1	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.13049	-0.03170	43.0	152.8	
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.12559	-0.03046	38.0	143.4	
3528	-3331.9	2416.8	L:	Interface	26	ONTARIO-MICH			753.2	-0.0	0.22606		0.23760	736.0	-55.7
			C:SER:ETHS/NWES						1606						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.10729	-0.07609	117.6	371.1	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.10670	-0.03170	43.0	148.6	
3529	-3331.5	2417.2	L:	Interface	26	ONTARIO-MICH			753.1	-0.0	0.22604		0.23760	736.0	-55.6
			C:SER:C398/NWES						1605						
			Open 409 GROVER	230	200675	E.TWANDA	230	1			0.00017	0.00120	-15.6	-19.6	
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.10753	-0.07609	117.6	371.1	
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1			0.00253	-0.00618	-52.1	-31.5	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.10604	-0.03170	43.0	148.6	
3530	-3277.0	2471.7	L:	Interface	26	ONTARIO-MICH			749.1	0.0	0.22860		0.23760	736.0	-42.6
			C:ETHS/LLGD						1649						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.08368	-0.07609	117.6	367.0	
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.08652	-0.03046	38.0	137.8	
3531	-3269.8	2478.9	L:	Interface	26	ONTARIO-MICH			762.5	-0.0	0.23319		0.23760	736.0	-40.9
			C:W44LC						1642						
			Open 160062 LONGWOOD	220	160074	COWALJ44	220	1			-0.16056	0.02255	189.2	115.5	
			Open 160074 COWALJ44	220	160134	BUCHJW44	220	1			0.16303	-0.00487	334.4	350.3	
			Open 160054 BUCHANAN	220	160134	BUCHJW44	220	1			-0.00035	0.00487	-256.1	-272.1	
			Open 160055 CHATHAM	220	160074	COWALJ44	220	1			0.71981	0.00000	3.1	3.1	
3532	-3269.6	2479.1	L:	Interface	26	ONTARIO-MICH			762.5	-0.0	0.23320		0.23760	736.0	-40.9
			C:W45LC						1643						
			Open 160062 LONGWOOD	220	160075	COWALJ45	220	1			-0.16050	0.02252	189.2	115.6	
			Open 160075 COWALJ45	220	160135	BUCHJW45	220	1			0.16297	-0.00486	334.3	350.2	
			Open 160054 BUCHANAN	220	160135	BUCHJW45	220	1			-0.00035	0.00486	-262.5	-278.3	
			Open 160055 CHATHAM	220	160075	COWALJ45	220	1			0.71977	0.00000	3.1	3.1	
3533	-3249.2	2499.5	L:	Interface	26	ONTARIO-MICH			771.6	0.0	0.23747		0.23760	736.0	-36.0
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392						
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1			-0.05454	0.00241	-652.6	-660.4	
3534	-3242.6	2506.1	L:	Interface	26	ONTARIO-MICH			721.7	-0.0	0.22256		0.23760	736.0	-34.5
			C:LKWANA-OXBW						1651						

TotalEast

			Open	417	OXBOW	230	3070	LACKAWNA	230	1				0.11958	-0.12579	-119.7	288.2			
3535	-3230.1	2518.6	L: Interface	26	ONTARIO-MICH						770.8	0.0	0.23863		0.23760	736.0	-31.5			
			C:130755	OAKDL345		345	131128	LAPEER	345	1	209									
			Open	130755	OAKDL345				345	1				-0.06047	-0.01699	-575.7	-520.9			
3536	-3218.7	2530.0	*L: Interface	26	ONTARIO-MICH						749.2	-0.0	0.23278		0.23760	736.0	-28.8			
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL														1650			
			Open	505	SHELOCTA		230	521	KEYSTONE		230	1			0.08784	-0.04530	50.1	195.9		
			Open	473	BLAIRSVL		138	235253	01SOCIAL		138	1			0.08830	-0.00962	100.2	131.2		
5296	-1514.1	4234.6	L: Interface	39	ZoneD-ONT						-47.0	-0.0	-0.03103		0.00000	0.5	0.5			
			C:147834	NIAG	345		345	149000	ROCH	345	345	1	1226							
			Open	147834	NIAG	345			345	149000	ROCH	345	345	1		-0.11250	0.27581	422.3	4.7	
5297	-1514.1	4234.6	L: Interface	40	ONT-ZoneD						47.0	0.0	0.03103		0.00000	-0.5	-0.5			
			C:147834	NIAG	345		345	149000	ROCH	345	345	1	1226							
			Open	147834	NIAG	345			345	149000	ROCH	345	345	1		0.11250	0.27581	422.3	4.7	
5298	-403.5	5345.2	L: 126294	PLTVLLEY		345	137451	LEEDS	3		345	2			-1828.7	-1725.0	-0.25696	-0.18097	-1281.0	-1208.0
			C:126294	PLTVLLEY		345	137455	ATHENS			345	1	121							
			Open	126294	PLTVLLEY				345	137455	ATHENS		345	1		0.44128	-0.17221	-1241.0	-1171.5	
5299	-263.1	5485.6	L: 126294	PLTVLLEY		345	137455	ATHENS			345	1			-1790.7	-1725.0	-0.24987	-0.17221	-1241.0	-1195.7
			C:126294	PLTVLLEY		345	137451	LEEDS	3		345	2	120							
			Open	126294	PLTVLLEY				345	137451	LEEDS	3	345	2		0.42910	-0.18097	-1281.0	-1233.4	
5300	276.1	6024.8	L: 126294	PLTVLLEY		345	137451	LEEDS	3		345	2			-1281.0	-1331.0	-0.18097			
			Base Case																	
5301	396.2	6144.9	L: Interface	14	Leeds-PV						2522.1	2662.0	0.35318							
			Base Case																	
5302	522.4	6271.1	L: 126294	PLTVLLEY		345	137455	ATHENS			345	1			-1241.0	-1331.0	-0.17221			
			Base Case																	
5303	550.1	6298.8	L: 146758	CHESTER		138	146771	SHOEM138			138	1			-286.6	-317.0	-0.05527	-0.03004	-161.7	-178.2
			C:125001	ROCK TAV		345	126297	RAMAPO			345	1	7							
			Open	125001	ROCK TAV				345	126297	RAMAPO		345	1		-0.11202	0.22519	1114.8	1238.7	
5304	550.1	6298.8	L: 146758	CHESTER		138	146771	SHOEM138			138	1			-286.6	-317.0	-0.05527	-0.03004	-161.7	-178.2
			C:SIN:440										1683							
			Open	125001	ROCK TAV				345	126297	RAMAPO		345	1		-0.11202	0.22519	1114.8	1238.7	
5305	637.3	6386.0	L: 126294	PLTVLLEY		345	137451	LEEDS	3		345	2			-1577.7	-1725.0	-0.23112	-0.18097	-1281.0	-1396.4
			C:125000	HURLEY	3		345	137451	LEEDS	3		345	1	3						
			Open	125000	HURLEY	3			345	137451	LEEDS	3	345	1		0.32992	-0.15203	-899.2	-996.1	
5306	773.6	6522.3	L: Interface	14	Leeds-PV						3101.0	3450.0	0.45107		0.35318	2522.1	2795.3			
			C:125000	HURLEY	3		345	137451	LEEDS	3		345	1	3						
			Open	125000	HURLEY	3			345	137451	LEEDS	3	345	1		-0.64389	-0.15203	-899.2	-1016.8	
5307	888.2	6636.9	L: 126294	PLTVLLEY		345	137451	LEEDS	3		345	2			-1566.9	-1725.0	-0.17796	-0.18097	-1281.0	-1441.8
			C:125002	ROSETON		345	126281	FISHKILL			345	1	10							
			Open	125002	ROSETON				345	126281	FISHKILL		345	1		-0.18979	-0.01585	1506.4	1492.3	
5308	888.2	6636.9	L: 126294	PLTVLLEY		345	137451	LEEDS	3		345	2			-1566.9	-1725.0	-0.17796	-0.18097	-1281.0	-1441.8
			C:SIN:430										1682							
			Open	125002	ROSETON				345	126281	FISHKILL		345	1		-0.18979	-0.01585	1506.4	1492.3	
5309	916.8	6665.5	L: 126294	PLTVLLEY		345	137455	ATHENS			345	1			-1523.3	-1725.0	-0.21994	-0.17221	-1241.0	-1398.9
			C:125000	HURLEY	3		345	137451	LEEDS	3		345	1	3						
			Open	125000	HURLEY	3			345	137451	LEEDS	3	345	1		0.31397	-0.15203	-899.2	-1038.6	
5310	947.1	6695.8	L: 130750	COOPC345		345	130753	FRASR345			345	1			-997.1	-1207.0	-0.22164			

TotalEast

Base Case													
5311	983.6	6732.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1472.2	-1725.0	-0.25696	-0.18097	-1281.0	-1459.0
			C:137451 LEEDS 3	345	137455 ATHENS	345	1 1006						
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1			-0.44128	0.17221	433.3	602.7
5312	1065.2	6813.9	L: Interface	14	Leeds-PV			3080.0	3450.0	0.34731	0.35318	2522.1	2898.3
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.37040	-0.01585	1506.4	1489.5
5313	1065.2	6813.9	L: Interface	14	Leeds-PV			3080.0	3450.0	0.34731	0.35318	2522.1	2898.3
			C:SIN:430				1682						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.37040	-0.01585	1506.4	1489.5
5314	1135.0	6883.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1474.4	-1725.0	-0.22077	-0.18097	-1281.0	-1486.4
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1			-0.29333	0.13569	659.3	813.3
5315	1186.2	6934.9	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05527	0.03004	126.6	162.2
			C:SIN:440				1683						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.11202	0.22519	1114.8	1381.9
5316	1186.2	6934.9	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05527	0.03004	126.6	162.2
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.11202	0.22519	1114.8	1381.9
5317	1215.1	6963.8	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08226	-0.05014	-448.0	-509.0
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14263	0.22519	1114.8	1388.4
5318	1215.1	6963.8	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08226	-0.05014	-448.0	-509.0
			C:SIN:440				1683						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14263	0.22519	1114.8	1388.4
5319	1251.2	6999.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16935	-0.17221	-1241.0	-1456.5
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18061	-0.01585	1506.4	1486.5
5320	1251.2	6999.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16935	-0.17221	-1241.0	-1456.5
			C:SIN:430				1682						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18061	-0.01585	1506.4	1486.5
5321	1277.6	7026.3	L: Interface	14	Leeds-PV			2899.5	3450.0	0.43086	0.35318	2522.1	2973.3
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1			0.57248	0.13569	659.3	832.7
5322	1314.1	7062.8	L: 130794 DELHI115	115	130804 DEL T115	115	1	68.4	164.0	0.07275	0.03934	0.5	52.2
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			-0.11754	-0.28430	-577.5	-951.1
5323	1373.8	7122.5	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1317.8	-1703.0	-0.28039	-0.22164	-997.1	-1301.6
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.43391	-0.13539	-739.1	-925.1
5324	1374.2	7122.9	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1348.1	-1724.0	-0.27354	-0.17513	-863.0	-1103.7
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2 1005						
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.56508	-0.17416	-858.5	-1097.8
5325	1376.0	7124.7	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1430.3	-1725.0	-0.21415	-0.18097	-1281.0	-1530.1
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.14972	-0.22164	-997.1	-1302.1
5326	1388.4	7137.1	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1345.1	-1724.0	-0.27291	-0.17416	-858.5	-1100.3
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1 1004						

TotalEast

			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				0.56388	-0.17513	-863.0	-1106.1
5327	1427.6	7176.2	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1425.1	-1725.0	-0.21009		-0.17221	-1241.0	-1486.9
			C:125000 HURLEY 3	345	125002 ROSETON	345	1							
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.27915	0.13569	659.3	853.0
5328	1449.6	7198.3	L: 130817 JENN 115	115	130819 KATEL115	115	1	-107.6	-159.0	-0.03543		-0.01763	-71.5	-97.1
			C:130753 FRASR345	345	130755 OAKDL345	345	1							
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				0.06259	-0.28430	-577.5	-989.6
5329	1456.2	7204.9	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-237.7	-317.0	-0.05443		-0.03004	-161.7	-205.5
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.17871	-0.13649	-425.4	-624.1
5330	1494.2	7242.9	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1350.8	1793.0	0.29594		0.18663	874.1	1152.9
			C:125001 ROCK TAV	345	130750 COOPC345	345	2							
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2				-0.64149	-0.17040	-743.2	-997.8
5331	1523.1	7271.8	L: Interface 14 Leeds-PV					2813.4	3450.0	0.41794		0.35318	2522.1	3060.0
			C:130750 COOPC345	345	130753 FRASR345	345	1							
			Open 130750 COOPC345	345	130753 FRASR345	345	1				-0.29219	-0.22164	-997.1	-1334.7
5332	1643.6	7392.3	L: Interface 32 F-To-G					3713.3	4643.0	0.56566				
			Base Case											
5333	1677.7	7426.4	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1383.1	-1725.0	-0.20379		-0.17221	-1241.0	-1530.0
			C:130750 COOPC345	345	130753 FRASR345	345	1							
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.14248	-0.22164	-997.1	-1368.9
5334	1689.2	7437.9	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08226		0.05014	448.0	532.7
			C:SIN:440											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.14263	0.22519	1114.8	1495.2
5335	1689.2	7437.9	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08226		0.05014	448.0	532.7
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.14263	0.22519	1114.8	1495.2
5336	1726.7	7475.4	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-1008.0	-1345.0	-0.19516		-0.13539	-739.1	-972.9
			C:130750 COOPC345	345	130753 FRASR345	345	1							
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.26966	-0.22164	-997.1	-1379.8
5337	1739.2	7487.9	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1292.6	-1793.0	-0.28771		-0.17040	-743.2	-1039.5
			C:130750 COOPC345	345	146754 MDTN TAP	345	1							
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.62859	0.18663	874.1	1198.7
5338	1748.3	7497.0	L: 130817 JENN 115	115	130851 SIDNT115	115	1	53.9	120.0	0.03783		0.02108	19.8	56.7
			C:130753 FRASR345	345	130755 OAKDL345	345	1							
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				-0.05894	-0.28430	-577.5	-1074.6
5339	1755.9	7504.6	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	46.7	143.0	0.05485		0.03523	18.7	80.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.10628	-0.18460	-263.5	-587.7
5340	1759.0	7507.7	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.3	173.0	0.04190		0.02814	78.2	127.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04986	0.27581	422.3	907.4
5341	1791.5	7540.2	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-44.7	-143.0	-0.05485		-0.03523	-16.7	-79.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.10628	-0.18460	-263.5	-594.2
5342	1828.9	7577.6	L: Interface 23 QFW					892.6	0.0	-0.48802		-0.48453	1095.5	209.3
			C:GEN:KINTIGH-New											
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	1				0.00000	-0.00496	-288.5	-297.6

TotalEast

				Open 130754 KINTI345	345	130873 KINTIG24	24.0	2				0.35120	-0.00994	-577.7	-595.9
5343	1855.0	7603.6	L:	135452 LOCKPORT	115	135872 SOUR-111	115	1	93.0	159.0	0.03556		0.02383	75.1	119.3
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04252	0.27581	422.3	933.9
5344	1862.5	7611.2	L:	125001 ROCK TAV	345	130750 COOPC345	345	2	-1262.4	-1793.0	-0.28487		-0.17040	-743.2	-1060.5
				C:SER:CMT34&MTR34											1593
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.55569	0.18663	874.1	1221.7
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.07885	-0.13649	-425.4	-679.6
5345	1873.1	7621.8	L:	130757 WATRC345	345	200769 HOMER CY	345	1	-543.5	-755.0	-0.11289				
				Base Case											
5346	1879.0	7627.7	L:	Interface 23 QFW					910.4	0.0	-0.48453		-0.48453	1095.5	185.0
				C:GEN:9 MI PT2											1561
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch								
5347	1881.9	7630.6	L:	Interface 23 QFW					918.7	-0.0	-0.48817		-0.48453	1095.5	183.6
				C:HQ-NY-765-New											1778
				Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
				Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
				Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.25138	0.00775	624.7	639.3
				Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.25138	0.00674	543.6	556.3
				Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA						
				Open 147838 MASS230B	230	147839 MOSES E	230	1				0.00000	-0.00725	10.3	-3.3
				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
				Open 147837 MASS230A	230	147839 MOSES E	230	1				-0.09617	0.00000	18.8	18.8
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
				Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						
				Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA						
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
5348	1903.5	7652.2	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1353.2	-1725.0	-0.19533		-0.18097	-1281.0	-1625.5
				C:SER:CMT34&MTR34											1593
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.09362	0.18663	874.1	1229.3
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				-0.02277	-0.13649	-425.4	-685.2
5349	1910.2	7658.9	L:	130819 KATEL115	115	130838 OAKDL115	115	1	-124.3	-192.0	-0.03543		-0.01763	-88.2	-121.9
				C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
				Open 130753 FRASR345	345	130755 OAKDL345	345	1				0.06259	-0.28430	-577.5	-1120.6
5350	1914.4	7663.1	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1353.2	-1725.0	-0.19419		-0.18097	-1281.0	-1627.5
				C:130750 COOPC345	345	147833 MARCY T1	345	1	196						
				Open 130750 COOPC345	345	147833 MARCY T1	345	1				0.09769	-0.13539	-739.1	-998.3
5351	1941.1	7689.8	L:	Interface 23 QFW					940.5	0.0	-0.48453		-0.48453	1095.5	154.9
				C:GEN:GINNA											1562
				Remove unit 1 from bus 149140 GINNA 19	19.0	605.0 MW	dispatch								
5352	1946.6	7695.3	L:	135872 SOUR-111	115	135873 SWDN-111	115	1	89.8	159.0	0.03556		0.02383	71.8	118.2
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04252	0.27581	422.3	959.2
5353	1956.3	7705.0	*L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1344.5	-1725.0	-0.19451		-0.18097	-1281.0	-1635.1
				C:130750 COOPC345	345	146754 MDTN TAP	345	1	195						

TotalEast

7010	2271.3	8020.0	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	98.3	180.0	0.03598		0.02411	80.1	134.9
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04302	0.27581	422.3	1048.7	
7024	2272.8	8021.5	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	448.0	562.0	0.05014				
			Base Case											
7091	2280.2	8028.9	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1229.4	-1792.0	-0.24673		-0.18563	-916.1	-1339.3
			C:SIN:160				1670							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.35322	0.17297	819.4	1213.8	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19918	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			-0.00023	-0.00032	74.8	74.1	
7092	2280.2	8028.9	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1229.4	-1792.0	-0.24673		-0.18563	-916.1	-1339.3
			C:SIN:150				1669							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.35322	0.17297	819.4	1213.8	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19920	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	147905 ILION	115	1			-0.00016	-0.00021	88.8	88.3	
7114	2288.4	8037.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1301.4	-1725.0	-0.18510		-0.17221	-1241.0	-1635.1
			C:130750 COOPC345	345	146754 MDTN TAP	345	1 195							
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.06906	0.18663	874.1	1301.2	
7122	2293.7	8042.4	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	192.0	280.0	0.03835		0.02453	170.9	227.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.05011	0.27581	422.3	1054.9	
7154	2319.5	8068.2	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-238.5	-430.0	-0.08254				
			Base Case											
7160	2334.0	8082.7	L: 130815 HINMN115	115	131611 HARIS115	115	1	-218.9	-306.0	-0.03730		-0.02388	-198.4	-254.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04868	0.27581	422.3	1066.0	
7170	2343.5	8092.2	*L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1291.7	-1725.0	-0.18491		-0.17221	-1241.0	-1644.6
			C:SER:PV_LM_398				1597							
			Open 103105 LONG MTN	345	103117 CTNY398	345	1			-0.16419	0.07731	308.5	489.7	
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			0.11556	0.00000	0.2	0.2	
7177	2349.3	8098.0	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1184.4	-1724.0	-0.22967		-0.17513	-863.0	-1274.4
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007							
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34981	-0.15592	-918.9	-1285.2	
7208	2378.5	8127.1	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1180.0	-1724.0	-0.22872		-0.17416	-858.5	-1272.7
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007							
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34992	-0.15592	-918.9	-1289.7	
7211	2383.0	8131.7	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-577.5	-1255.0	-0.28430				
			Base Case											
7242	2411.0	8159.7	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-84.5	-173.0	-0.03670		-0.02862	-62.4	-131.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205							
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04206	0.19221	524.7	988.1	
7244	2414.0	8162.7	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1199.5	-1792.0	-0.24545		-0.18563	-916.1	-1364.2
			C:137200 EDIC	345	137452 N.SCOT77	345	1 946							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.34586	0.17297	819.4	1237.0	
7255	2421.1	8169.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-656.6	-1380.0	-0.29879		-0.28430	-577.5	-1265.8
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196							
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.10700	-0.13539	-739.1	-1066.9	
7350	2444.3	8193.0	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	228.6	430.0	0.08240				

TotalEast

Base Case												
7353	2444.6	8193.3	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1149.2	1724.0	0.23515	0.17297	819.4 1242.3
			C:SIN:170				1671					
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33494	-0.18563	-916.1 -1369.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19090	0.00000	119.9 119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00024	-0.00032	74.8 74.1
7354	2444.6	8193.3	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1149.2	1724.0	0.23515	0.17297	819.4 1242.3
			C:SIN:180				1672					
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33494	-0.18563	-916.1 -1369.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19092	0.00000	119.9 119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00016	-0.00021	88.8 88.3
7427	2448.3	8197.0	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-301.9	-540.0	-0.09725	-0.08254	-238.5 -440.6
			C:SER:HCWC/NWES				1607					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.11957	-0.11289	-543.5 -819.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.03821	-0.03170	43.0 -34.6
7672	2452.5	8201.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.29779	-0.28430	-577.5 -1274.8
			C:SIN:180				1672					
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.18563	-916.1 -1371.3
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04702	0.00000	119.9 119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00061	-0.00021	88.8 88.3
7675	2452.6	8201.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.29779	-0.28430	-577.5 -1274.8
			C:SIN:170				1671					
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.18563	-916.1 -1371.3
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04710	0.00000	119.9 119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00092	-0.00032	74.8 74.1
8798	2466.6	8215.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-678.7	-1380.0	-0.28430	-0.28430	-577.5 -1278.8
			C:SIN:250				1677					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00002	0.00000	-0.1 -0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
8827	2474.0	8222.7	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-302.8	-540.0	-0.09588	-0.08254	-238.5 -442.8
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.11819	-0.11289	-543.5 -822.8
8835	2475.8	8224.5	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	544.9	746.0	0.08123	0.05014	448.0 572.2
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1 9					
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.22773	-0.13649	-425.4 -763.3
8838	2476.1	8224.8	L: 135452 LOCKPORT	115	135876 TELRDTP1	115	1	104.6	180.0	0.03044	0.02370	86.2 144.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03510	0.19221	524.7 1000.6
8844	2479.3	8228.0	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-642.5	-1380.0	-0.29746	-0.28430	-577.5 -1282.4
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1 1012					
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07092	-0.18563	-916.1 -1376.3
8872	2494.2	8242.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-640.6	-1380.0	-0.29645	-0.28430	-577.5 -1286.6
			C:SIN:150				1669					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.07027	0.17297	819.4 1250.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04606	0.00000	119.9 119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00061	-0.00021	88.8 88.3
8873	2494.2	8242.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-640.6	-1380.0	-0.29645	-0.28430	-577.5 -1286.6
			C:SIN:160				1670					

TotalEast

			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.07027	0.17297	819.4	1250.9		
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04614	0.00000	119.9	119.9		
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00092	-0.00032	74.8	74.0		
8880	2497.8	8246.5	L: 130764 MEYER230	230	131122 WTHRS230	230	1			-300.6	-540.0	-0.09585	-0.08254	-238.5	-444.7
			C:SER:HC-WC_30&W-F_171											1601	
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.11761	-0.11289	-543.5	-825.5		
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.05269	0.00066	-35.9	-34.3		
8891	2501.7	8250.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1			-668.8	-1380.0	-0.28430	-0.28430	-577.5	-1288.8
			C:GEN:SEAB&OMS											1575	
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00002	0.00000	-0.1	-0.1		
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW									dispatch	
8892	2501.7	8250.4	*L: 130753 FRASR345	345	130755 OAKDL345	345	1			-668.8	-1380.0	-0.28430	-0.28430	-577.5	-1288.8
			C:GEN:SEABROOK											1573	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW									dispatch	
8895	2505.9	8254.6	L: 131018 LOUNS115	115	131850 CNYOG115	115	1			16.6	143.0	0.05044	0.03523	18.7	107.0
			C:BUS:WATERCURE_345											1632	
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.05669	-0.11289	-543.5	-826.4		
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.12286	-0.07170	257.6	77.9		
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.05534	0.00000	22.4	22.4		
8937	2535.6	8284.3	L: 131018 LOUNS115	115	131850 CNYOG115	115	1			-11.0	143.0	0.06073	0.03523	18.7	108.0
			C:BUS:WATERCURE_230											1633	
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.24198	0.05141	71.0	201.4		
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.18211	-0.07170	257.6	75.8		
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.12849	0.00000	0.5	0.5		
8942	2539.0	8287.7	L: 130807 GOUDY115	115	130848 S.OWE115	115	1			-3.7	-143.0	-0.05485	-0.03523	24.3	-65.2
			C:130755 OAKDL345	345	130757 WATRC345	345	1							206	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.10628	-0.18460	-263.5	-732.2		
8948	2544.3	8293.0	L: 135851 SHEL-113	115	135874 SWDN-113	115	1			88.4	180.0	0.03598	0.02412	70.3	131.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							1226	
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04303	0.27581	422.3	1124.0		
8949	2544.5	8293.2	L: 130848 S.OWE115	115	131850 CNYOG115	115	1			-14.7	-143.0	-0.05044	-0.03523	-16.7	-106.4
			C:BUS:WATERCURE_345											1632	
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.05669	-0.11289	-543.5	-830.8		
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.12286	-0.07170	257.6	75.1		
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.05534	0.00000	22.4	22.4		
8961	2549.6	8298.3	L: 130750 COOPC345	345	130753 FRASR345	345	1			-1095.5	-1703.0	-0.23828	-0.22164	-997.1	-1562.2
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1							3	
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1			0.10944	-0.15203	-899.2	-1286.8		
8963	2554.4	8303.1	L: 130770 SHLDN230	230	131122 WTHRS230	230	1			291.9	540.0	0.09711	0.08240	228.6	439.1
			C:SER:HCWC/NWES											1607	
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11957	-0.11289	-543.5	-831.9		
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.03821	-0.03170	43.0	-38.0		
8964	2555.3	8304.0	L: 135850 SOUR-114	115	135861 MORTIMER	115	1			71.6	153.0	0.03186	0.02481	52.3	115.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1							205	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03671	0.19221	524.7	1015.8		
8972	2565.1	8313.8	L: 130750 COOPC345	345	130753 FRASR345	345	1			-1097.9	-1703.0	-0.23589	-0.22164	-997.1	-1565.6
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2							120	
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			0.07872	-0.18097	-1281.0	-1745.2		

TotalEast

8975	2566.8	8315.5	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1	-85.0	-180.0	-0.03702	-0.02481	-66.3	-130.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04426	0.27581	422.3	1130.2
8976	2567.7	8316.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	12.9	-143.0	-0.06073	-0.03523	-16.7	-107.2
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.24198	0.05141	71.0	203.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.18211	-0.07170	257.6	73.5
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.12849	0.00000	0.5	0.5
8985	2574.7	8323.4	L: 130767 STOLE230	230	130770 SHLDN230	230	1	218.2	430.0	0.08224			
			Base Case										
8987	2574.8	8323.5	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-63.3	-173.0	-0.04261	-0.02862	-41.9	-115.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05070	0.27581	422.3	1132.4
8995	2581.7	8330.3	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	292.8	540.0	0.09574	0.08240	228.6	441.3
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11819	-0.11289	-543.5	-835.0
8997	2584.2	8332.9	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1119.7	1724.0	0.23383	0.17297	819.4	1266.4
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1 1012						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.32784	-0.18563	-916.1	-1395.8
9004	2590.5	8339.2	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	703.6	1685.0	0.37886	0.27581	422.3	1136.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.53611	0.19221	524.7	1022.6
9022	2598.1	8346.7	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1092.7	-1703.0	-0.23491	-0.22164	-997.1	-1572.9
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1 121						
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1			0.07704	-0.17221	-1241.0	-1688.5
9042	2605.5	8354.2	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	290.6	540.0	0.09571	0.08240	228.6	443.3
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11761	-0.11289	-543.5	-837.7
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.05269	0.00066	-35.9	-34.2
9120	2619.1	8367.8	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-54.4	-153.0	-0.03763	-0.02522	-35.4	-101.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04499	0.27581	422.3	1144.6
9145	2620.4	8369.1	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	98.8	180.0	0.03097	0.02411	80.1	143.3
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03569	0.19221	524.7	1028.3
10476	2632.7	8381.4	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1083.6	-1703.0	-0.23528	-0.22164	-997.1	-1580.6
			C:BUS:N.S._99				1615						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			0.12460	-0.03237	-310.7	-395.9
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.04425	-0.18563	-916.1	-1404.8
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			-0.00286	0.00045	118.7	119.9
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.00800	-0.17416	-858.5	-1317.0
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.01512	0.00000	1.6	1.6
10529	2637.2	8385.9	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1117.4	1724.0	0.23003	0.17297	819.4	1275.6
			C:BUS:N.S._99				1615						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			-0.18532	-0.03237	-310.7	-396.1
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.38312	-0.18563	-916.1	-1405.6
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			-0.09741	0.00045	118.7	119.9
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.11491	-0.17416	-858.5	-1317.8

TotalEast

			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.11471	-0.11289	-543.5	-850.3
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.00924	-0.03170	43.0	-43.2
10733	2718.0	8466.7	L: 130767 STOLE230	230	130770	SHLDN230	230	1	280.3	540.0	0.09556		0.08224	218.2	441.8
			C:SER:HC-WC_30&W-F_171					1601							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.11761	-0.11289	-543.5	-850.4
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.05269	0.00066	-35.9	-34.1
10734	2718.0	8466.7	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	196.7	383.0	0.06854		0.05563	134.5	285.7
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.11437	-0.11289	-543.5	-850.4
10742	2722.3	8471.0	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	87.2	173.0	0.03152		0.02814	78.2	154.9
			C:130767 STOLE230	230	130770	SHLDN230	230	1	226						
			Open 130767 STOLE230	230	130770	SHLDN230	230	1				0.04101	0.08224	218.2	442.1
10751	2727.1	8475.7	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-196.1	-383.0	-0.06854		-0.05563	-133.9	-285.6
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.11437	-0.11289	-543.5	-851.4
10756	2731.4	8480.1	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1	-448.0	-585.0	-0.05014				
			Base Case												
10757	2732.0	8480.7	L: 130815 HINMN115	115	131611	HARIS115	115	1	-219.6	-306.0	-0.03164		-0.02388	-198.4	-263.6
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				-0.04038	0.19221	524.7	1049.8
10758	2732.5	8481.2	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	20.4	-143.0	-0.05980		-0.03523	-16.7	-113.0
			C:130763 HILSD230	230	130768	WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768	WATRC230	230	1				-0.19959	0.12311	-186.1	150.3
10772	2743.7	8492.3	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	195.0	383.0	0.06852		0.05563	134.5	287.2
			C:SER:HC-WC_30&W-F_171					1601							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.11393	-0.11289	-543.5	-853.3
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.04046	0.00066	-35.9	-34.1
10774	2744.1	8492.8	L: 130753 FRASR345	345	137200	EDIC	345	1	-886.4	-1380.0	-0.17988		-0.09144	-706.7	-957.7
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755	OAKDL345	345	1				0.31108	-0.28430	-577.5	-1357.7
10780	2752.7	8501.4	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-194.4	-383.0	-0.06852		-0.05563	-133.9	-287.1
			C:SER:HC-WC_30&W-F_171					1601							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.11393	-0.11289	-543.5	-854.3
			Open 135277 FALCONER	115	200579	WARREN	115	1				-0.04046	0.00066	-35.9	-34.1
10790	2756.0	8504.7	L: 130770 SHLDN230	230	131122	WTHRS230	230	1	258.7	540.0	0.10206		0.08240	228.6	455.7
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.07131	0.27581	422.3	1182.4
10793	2758.2	8506.9	L: 130815 HINMN115	115	131611	HARIS115	115	1	-222.3	-306.0	-0.03036		-0.02388	-198.4	-264.2
			C:130766 ROBIN230	230	130767	STOLE230	230	1	224						
			Open 130766 ROBIN230	230	130767	STOLE230	230	1				-0.26115	0.02482	91.5	159.9
10899	2794.4	8543.1	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1051.1	-1703.0	-0.23327		-0.22164	-997.1	-1616.4
			C:BUS:N.S._77					1614							
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				0.03865	-0.04338	-248.0	-369.3
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1				0.01599	0.00031	111.8	112.7
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.05541	0.17297	819.4	1302.8
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1				0.00917	-0.04091	-92.7	-207.0
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1				-0.01068	0.00000	-0.0	-0.0
12460	2818.4	8567.1	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	191.1	280.0	0.03154		0.02453	170.9	240.0

TotalEast

				C:130764 MEYER230	230	131122 WTHRS230	230	1	221										
				Open 130764 MEYER230	230	131122 WTHRS230	230	1											
12517	2819.8	8568.5		L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1		85.7	173.0	0.03095							
				C:135850 SOUR-114	115	135876 TELRDTP1	115	1	673										
				Open 135850 SOUR-114	115	135876 TELRDTP1	115	1											
13748	2824.0	8572.7		L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1		86.3	173.0	0.03070							
				C:135452 LOCKPORT	115	135872 SOUR-111	115	1	599										
				Open 135452 LOCKPORT	115	135872 SOUR-111	115	1											
13868	2826.7	8575.4		L: 135452 LOCKPORT	115	135872 SOUR-111	115	1		73.5	159.0	0.03026							
				C:130754 KINTI345	345	147834 NIAG 345	345	1	204										
				Open 130754 KINTI345	345	147834 NIAG 345	345	1											
13977	2833.1	8581.8		L: Interface	32	F-To-G				4205.5	6118.0	0.67507							
				C:130750 COOPC345	345	130753 FRASR345	345	1	192										
				Open 130750 COOPC345	345	130753 FRASR345	345	1											
13992	2835.2	8583.9		L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1		84.6	173.0	0.03117							
				C:135850 SOUR-114	115	135861 MORTIMER	115	1	672										
				Open 135850 SOUR-114	115	135861 MORTIMER	115	1											
13995	2835.4	8584.1	*L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1		86.0	173.0	0.03070							
				C:135872 SOUR-111	115	135873 SWDN-111	115	1	706										
				Open 135872 SOUR-111	115	135873 SWDN-111	115	1											
14048	2846.3	8595.0		L: 130815 HINMN115	115	135452 LOCKPORT	115	1		190.3	280.0	0.03152							
				C:130770 SHLDN230	230	131122 WTHRS230	230	1	228										
				Open 130770 SHLDN230	230	131122 WTHRS230	230	1											
14083	2861.7	8610.4		L: 130767 STOLE230	230	130770 SHLDN230	230	1		248.4	540.0	0.10191							
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1											
14084	2863.0	8611.7	*L:	130750 COOPC345	345	130753 FRASR345	345	1		-1030.5	-1703.0	-0.23491							
				C:137451 LEEDS 3	345	137455 ATHENS	345	1	1006										
				Open 137451 LEEDS 3	345	137455 ATHENS	345	1											
14093	2866.6	8615.3		L: 130815 HINMN115	115	131611 HARIS115	115	1		-218.0	-306.0	-0.03068							
				C:130764 MEYER230	230	131122 WTHRS230	230	1	221										
				Open 130764 MEYER230	230	131122 WTHRS230	230	1											
14094	2867.4	8616.1		L: 136150 CLAY	345	137200 EDIC	345	2		766.3	1434.0	0.23285							
				C:136150 CLAY	345	137200 EDIC	345	1	715										
				Open 136150 CLAY	345	137200 EDIC	345	1											
14097	2875.4	8624.1		L: 130815 HINMN115	115	135452 LOCKPORT	115	1		189.4	280.0	0.03151							
				C:130767 STOLE230	230	130770 SHLDN230	230	1	226										
				Open 130767 STOLE230	230	130770 SHLDN230	230	1											
14106	2879.6	8628.2		L: 130764 MEYER230	230	131122 WTHRS230	230	1		-269.6	-540.0	-0.09391							
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1											
14107	2880.9	8629.6		L: 136150 CLAY	345	137200 EDIC	345	1		764.7	1434.0	0.23232							
				C:136150 CLAY	345	137200 EDIC	345	2	716										
				Open 136150 CLAY	345	137200 EDIC	345	2											
14131	2888.5	8637.2		L: 130794 DELHI115	115	130838 OAKDL115	115	1		-76.3	-179.0	-0.03554							
				C:130753 FRASR345	345	130755 OAKDL345	345	1	200										
				Open 130753 FRASR345	345	130755 OAKDL345	345	1											
14138	2894.5	8643.2		L: 130815 HINMN115	115	131611 HARIS115	115	1		-217.2	-306.0	-0.03067							

TotalEast

			C:130770 SHLDN230	230	131122	WTHRS230	230	1	228										
			Open 130770 SHLDN230		230	131122	WTHRS230	230	1				-0.08245	0.08240	228.6	467.1			
14150	2905.0	8653.7	L: 130764 MEYER230	230	131122	WTHRS230	230	1		-303.1	-540.0	-0.08154		-0.08254	-238.5	-478.3			
			C:BUS:WATERCURE_345						1632										
			Open 130757 WATRC345	345	200769	HOMER CY	345	1					0.06555	-0.11289	-543.5	-871.5			
			Open 130757 WATRC345	345	130768	WATRC230	230	1					-0.11714	-0.07170	257.6	49.3			
			Open 130755 OAKDL345	345	130757	WATRC345	345	1					0.05467	0.00000	22.4	22.4			
14154	2906.6	8655.3	L: 130753 FRASR345	345	147831	GILB 345	345	1		678.7	1524.0	0.29082		0.18828	217.4	764.7			
			C:130750 COOPC345	345	130753	FRASR345	345	1	192										
			Open 130750 COOPC345	345	130753	FRASR345	345	1					-0.46262	-0.22164	-997.1	-1641.3			
14166	2923.5	8672.2	L: 130815 HINMN115	115	131611	HARIS115	115	1		-216.4	-306.0	-0.03066		-0.02388	-198.4	-268.2			
			C:130767 STOLE230	230	130770	SHLDN230	230	1	226										
			Open 130767 STOLE230	230	130770	SHLDN230	230	1					-0.08245	0.08224	218.2	458.7			
14175	2934.4	8683.1	L: 135872 SOUR-111	115	135873	SWDN-111	115	1		70.2	159.0	0.03026		0.02383	71.8	141.8			
			C:130754 KINTI345	345	147834	NIAG 345	345	1	204										
			Open 130754 KINTI345	345	147834	NIAG 345	345	1					-0.03527	-0.18226	46.0	-488.9			
14177	2937.5	8686.2	L: 135851 SHEL-113	115	135874	SWDN-113	115	1		89.0	180.0	0.03098		0.02412	70.3	141.1			
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205										
			Open 130754 KINTI345	345	149000	ROCH 345	345	1					0.03569	0.19221	524.7	1089.3			
14181	2938.4	8687.1	*L: 131018 LOUNS115	115	131850	CNYOG115	115	1		39.7	143.0	0.03515		0.03523	18.7	122.2			
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392										
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1					-0.03223	0.00241	-652.6	-645.5			
14182	2938.5	8687.2	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1		-1120.1	-1792.0	-0.22866		-0.18563	-916.1	-1461.6			
			C:BUS:N.S._77						1614										
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1					-0.09196	-0.04338	-248.0	-375.5			
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1					0.02619	0.00031	111.8	112.7			
			Open 137200 EDIC	345	137452	N.SCOT77	345	1					-0.28820	0.17297	819.4	1327.7			
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1					-0.06914	-0.04091	-92.7	-212.9			
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1					0.13842	0.00000	-0.0	-0.0			
14195	2957.3	8706.0	L: 130764 MEYER230	230	131122	WTHRS230	230	1		-252.5	-540.0	-0.09721		-0.08254	-238.5	-482.6			
			C:LKWANA-OXBW						1651										
			Open 417 OXBOW	230	3070	LACKAWNA	230	1					0.11664	-0.12579	-119.7	-491.8			
14196	2957.6	8706.3	L: 137200 EDIC	345	137452	N.SCOT77	345	1		819.4	1331.0	0.17297							
			Base Case																
14200	2963.6	8712.3	L: 135850 SOUR-114	115	135876	TELRDTP1	115	1		-85.6	-180.0	-0.03187		-0.02481	-66.3	-139.8			
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205										
			Open 130754 KINTI345	345	149000	ROCH 345	345	1					-0.03671	0.19221	524.7	1094.3			
14202	2969.6	8718.3	L: 137451 LEEDS 3	345	137455	ATHENS	345	1		983.0	1725.0	0.24987		0.17221	433.3	944.7			
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	2	120										
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	2					-0.42910	-0.18097	-1281.0	-1818.4			
14203	2970.8	8719.5	L: 135858 GOLAH115	115	135862	MUMFORD1	115	1		-64.0	-173.0	-0.03670		-0.02862	-41.9	-126.9			
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205										
			Open 130754 KINTI345	345	149000	ROCH 345	345	1					-0.04206	0.19221	524.7	1095.7			
14204	2971.2	8719.9	L: 130836 N.WAV115	115	131018	LOUNS115	115	1		-7.4	173.0	0.06073		0.03523	22.2	126.9			
			C:BUS:WATERCURE_230						1633										
			Open 130768 WATRC230	230	130772	SHRED230	230	1					0.24198	0.05141	71.0	223.8			
			Open 130757 WATRC345	345	130768	WATRC230	230	1					-0.18211	-0.07170	257.6	44.5			
			Open 130763 HILSD230	230	130768	WATRC230	230	1					0.12849	0.00000	0.5	0.5			

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14214	2990.1	8738.8	L: 130770 SHLDN230	230	131122	WTHRS230	230	1	259.6	540.0	0.09377	0.08240	228.6	475.0	
			C:130754 KINTI345	345	149000	ROCH 345	345	1							
			Open 130754 KINTI345		345	149000	ROCH 345	345							
14217	2993.9	8742.6	*L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-37.8	-143.0	-0.03515	0.05915	0.19221	524.7	1099.4
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1							
			Open 131128 LAPEER		345	136153	LAFAYTTE	345							
												0.03223	0.00241	-652.6	-645.3

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, APR 29 2009 18:07
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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Study transfer. From ON_E_EXP To GHI_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 26635 violations

Interface-1 Interface 6 CENTRAL EAST Init.Flow= 2383.01 TDF= 0.4547

N	FCITC IntFcel L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
						Init	Final
1	-170280.-75041.2 L: Interface 21 PJM-WEST	Ncon	Flow	Rating	LODF		
	C:SER:C398/NWES	5137.7	0.0	0.03017	0.04805	5112.7	-3068.8
	Open 409 GROVER 230 200675 E.TWANDA	1605			0.06509	0.00120	-15.6 -220.3
	Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.17346	-0.07609	117.6 13073.5
	Open 381 TOWANDA 115 200675 E.TWANDA	230 1			0.01304	-0.00618	-52.1 1000.5
	Open 130836 N.WAV115 115 200676 E.SAYRE	115 1			0.14744	-0.03170	43.0 5441.6
2	-170055.-74938.9 L: Interface 21 PJM-WEST	5139.3	0.0	0.03022	0.04805	5112.7	-3058.0
	C:SER:ETHS/NWES	1606					
	Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.17144	-0.07609	117.6 13056.4
	Open 130836 N.WAV115 115 200676 E.SAYRE	115 1			0.15082	-0.03170	43.0 5434.5
3	-151727.-66605.1 L: Interface 21 PJM-WEST	5133.5	0.0	0.03383	0.04805	5112.7	-2177.3
	C:ETHS/LLGD	1649					
	Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.13801	-0.07609	117.6 11661.8
	Open 130807 GOUDY115 115 200680 LAUREL L	115 1			0.12187	-0.03046	38.0 4659.2
4	-133033.-58105.2 L: Interface 21 PJM-WEST	5127.4	0.0	0.03854	0.04805	5112.7	-1279.1
	C:130763 HILSD230 230 200675 E.TWANDA	230 1	1375				
	Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.12492	-0.07609	117.6 10239.5
5	-125291.-54585.0 L: Interface 21 PJM-WEST	5123.5	0.0	0.04089	0.04805	5112.7	-907.2
	C:130763 HILSD230 230 130768 WATRC230	230 1	219				

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			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		0.19432	-0.07609	117.6	3155.4
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1		0.17004	-0.03046	38.0	1254.0
1767	-38666.3-15198.0	L:	Interface	20	PJM-CENT				3966.3	0.0	0.10258	0.10258	3269.0 -697.2
			C:GEN:PEACHBTM					1568					
			Remove unit 1 from bus	34	PCHBTM 2	22.0	1060.3	MW	dispatch				
1768	-38162.8-14969.0	L:	Interface	20	PJM-CENT				3914.6	0.0	0.10258	0.10258	3269.0 -645.6
			C:GEN:SALEM					1567					
			Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch				
1769	-36926.5-14407.0	*L:	Interface	20	PJM-CENT				3787.8	0.0	0.10258	0.10258	3269.0 -518.7
			C:SIN:250					1677					
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
3523	-7163.4 -874.1	L:	Interface	47	C-PJMWest				-477.5	-0.0	-0.06666	-0.11289	-543.5 265.2
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206				
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.25044	-0.18460	-263.5	1058.8
3524	-7163.4 -874.1	L:	Interface	48	PJMWest-C				477.5	0.0	0.06666	0.11289	543.5 -265.2
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206				
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.25044	-0.18460	-263.5	1058.8
3525	-5980.8 -336.4	L:	Interface	47	C-PJMWest				-595.1	-0.0	-0.09950	-0.11289	-543.5 131.7
			C:SIN:120					1667					
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		-0.00658	-0.14056	786.0	1626.7
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2		-0.00658	-0.14056	786.0	1626.7
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1		0.04985	0.23155	39.8	-1345.0
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA				
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch				
3526	-5980.8 -336.4	L:	Interface	47	C-PJMWest				-595.1	-0.0	-0.09950	-0.11289	-543.5 131.7
			C:SIN:130					1668					
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		-0.00658	-0.14056	786.0	1626.7
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2		-0.00658	-0.14056	786.0	1626.7
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1		0.04985	0.23155	39.8	-1345.0
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA				
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch				
3527	-5980.8 -336.4	L:	Interface	48	PJMWest-C				595.1	0.0	0.09950	0.11289	543.5 -131.7
			C:SIN:130					1668					
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		0.00658	-0.14056	786.0	1626.7
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2		0.00658	-0.14056	786.0	1626.7
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1		-0.04985	0.23155	39.8	-1345.0
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA				
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch				
3528	-5980.8 -336.4	L:	Interface	48	PJMWest-C				595.1	0.0	0.09950	0.11289	543.5 -131.7
			C:SIN:120					1667					
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		0.00658	-0.14056	786.0	1626.7

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			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2		0.00658	-0.14056	786.0	1626.7		
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1		-0.04985	0.23155	39.8	-1345.0		
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA						
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch					
3529	-5810.2	-258.8	L: Interface	48	PJMWest-C				483.1	0.0	0.08315	0.11289	543.5	-112.4
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.10463	-0.28430	-577.5	1074.3		
3530	-5810.2	-258.8	L: Interface	47	C-PJMWest				-483.1	-0.0	-0.08315	-0.11289	-543.5	112.4
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		-0.10463	-0.28430	-577.5	1074.3		
3531	-5639.9	-181.3	L: Interface	48	PJMWest-C				584.9	0.0	0.10370	0.11289	543.5	-93.2
			C:GEN:IND PT 3-New					1773						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1		0.00000	-0.11639	522.5	1178.9		
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2		-0.03969	0.23155	-1041.8	-2347.7		
3532	-5639.9	-181.3	L: Interface	47	C-PJMWest				-584.9	-0.0	-0.10370	-0.11289	-543.5	93.2
			C:GEN:IND PT 3-New					1773						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1		0.00000	-0.11639	522.5	1178.9		
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2		0.03969	0.23155	-1041.8	-2347.7		
3533	-5597.7	-162.2	L: Interface	48	PJMWest-C				616.8	-0.0	0.11019	0.11289	543.5	-88.4
			C:SER:HC-SR_37&W-F_171					1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1		-0.18773	0.01417	-378.4	-457.7		
			Open 135277 FALCONER	115	200579 WARREN	115	1		-0.06276	0.00066	-35.9	-39.6		
3534	-5597.7	-162.2	L: Interface	47	C-PJMWest				-616.8	0.0	-0.11019	-0.11289	-543.5	88.4
			C:SER:HC-SR_37&W-F_171					1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1		0.18773	0.01417	-378.4	-457.7		
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.06276	0.00066	-35.9	-39.6		
3535	-5587.3	-157.4	L: Interface	48	PJMWest-C				582.5	-0.0	0.10426	0.11289	543.5	-87.2
			C:GEN:IND PT 2-New					1772						
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	1		0.00000	0.11287	-509.2	-1139.8		
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	2		-0.03827	0.22573	-1018.4	-2279.7		
3536	-5587.3	-157.4	L: Interface	47	C-PJMWest				-582.5	0.0	-0.10426	-0.11289	-543.5	87.2
			C:GEN:IND PT 2-New					1772						
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	1		0.00000	0.11287	-509.2	-1139.8		
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	2		0.03827	0.22573	-1018.4	-2279.7		
3537	-5561.3	-145.6	L: Interface	47	C-PJMWest				-629.8	-0.0	-0.11325	-0.11289	-543.5	84.3
			C:HQ-NY-765-New					1776						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.02483	0.00775	624.7	581.6		
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.02483	0.00674	543.6	506.1		
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00725	10.3	50.6		
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.05514	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						

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			Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA						
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch						
3538	-5561.3	-145.6	L:	Interface	48	PJMWest-C				629.8	0.0	0.11325		0.11289	543.5	-84.3		
				C:HQ-NY-765-New														
				Open	147827	MARCY765	765	147828	MASS	765	765	1	NA					
				Open	147828	MASS 765	765	180819	CHA-NY	765	765	1	NA					
				Open	147827	MARCY765	765	147833	MARCY T1	345	1		0.02483	0.00775	624.7	581.6		
				Open	147827	MARCY765	765	147833	MARCY T1	345	2		0.02483	0.00674	543.6	506.1		
				Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA						
				Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.00725	10.3	50.6		
				Open	147828	MASS 765	765	147838	MASS230B	230	1	NA						
				Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.05514	0.00000	18.8	18.8		
				Open	147828	MASS 765	765	147837	MASS230A	230	1	NA						
				Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA						
				Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA						
				Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
				Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch					
				Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
				Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch					
3539	-5535.2	-133.8	L:	Interface	47	C-PJMWest				-610.9	0.0	-0.11037		-0.11289	-543.5	81.4		
				C:135398	SW345		345	200769	HOMER CY	345	1	1380						
				Open	135398	SW345	345	200769	HOMER CY	345	1		0.17809	0.01417	-378.4	-456.8		
3540	-5535.2	-133.8	L:	Interface	48	PJMWest-C				610.9	-0.0	0.11037		0.11289	543.5	-81.4		
				C:135398	SW345		345	200769	HOMER CY	345	1	1380						
				Open	135398	SW345	345	200769	HOMER CY	345	1		-0.17809	0.01417	-378.4	-456.8		
3541	-5527.9	-130.4	*L:	Interface	47	C-PJMWest				-624.1	0.0	-0.11289		-0.11289	-543.5	80.5		
				C:GEN:9	MI	PT2												
				Remove	unit	2	from	bus	136700	9M	PT	2G	25.0	1197.5	MW	dispatch		
3542	-5527.9	-130.4	*L:	Interface	48	PJMWest-C				624.1	-0.0	0.11289		0.11289	543.5	-80.5		
				C:GEN:9	MI	PT2												
				Remove	unit	2	from	bus	136700	9M	PT	2G	25.0	1197.5	MW	dispatch		
3561	-5253.5	-5.7	L:	Interface	56	NYE-PJMEnoRE				-1496.2	-1287.0	-0.03981		-0.00000	-1299.1	-1299.1		
				C:SER:HC-WC_30&W-F_171														
				Open	130757	WATRC345	345	200769	HOMER CY	345	1		0.35346	-0.11289	-543.5	49.6		
				Open	135277	FALCONER	115	200579	WARREN	115	1		0.13824	0.00066	-35.9	-39.4		
3562	-5253.5	-5.7	L:	Interface	55	PJME-NYEnoRE				1496.2	1287.0	0.03981		0.00000	1299.1	1299.1		
				C:SER:HC-WC_30&W-F_171														
				Open	130757	WATRC345	345	200769	HOMER CY	345	1		-0.35346	-0.11289	-543.5	49.6		
				Open	135277	FALCONER	115	200579	WARREN	115	1		-0.13824	0.00066	-35.9	-39.4		
3581	-5118.4	55.8	L:	Interface	55	PJME-NYEnoRE				1490.4	1287.0	0.03973		0.00000	1299.1	1299.1		
				C:130757	WATRC345		345	200769	HOMER CY	345	1	1374						
				Open	130757	WATRC345	345	200769	HOMER CY	345	1		-0.35195	-0.11289	-543.5	34.3		
3582	-5118.4	55.8	L:	Interface	56	NYE-PJMEnoRE				-1490.4	-1287.0	-0.03973		-0.00000	-1299.1	-1299.1		
				C:130757	WATRC345		345	200769	HOMER CY	345	1	1374						
				Open	130757	WATRC345	345	200769	HOMER CY	345	1		0.35195	-0.11289	-543.5	34.3		

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			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.10670	-0.03170	43.0	148.6
7067	-3331.5	868.2	L: Interface 26 ONTARIO-MICH				753.1		-0.0	0.22604		0.23760	736.0	-55.6
			C:SER:C398/NWES					1605						
			Open 409 GROVER	230	200675	E.TWANDA	230	1			0.00017	0.00120	-15.6	-19.6
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.10753	-0.07609	117.6	371.1
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1			0.00253	-0.00618	-52.1	-31.5
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.10604	-0.03170	43.0	148.6
7068	-3277.0	893.0	L: Interface 26 ONTARIO-MICH				749.1		0.0	0.22860		0.23760	736.0	-42.6
			C:ETHS/LLGD					1649						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.08368	-0.07609	117.6	367.0
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.08652	-0.03046	38.0	137.8
7069	-3269.8	896.3	L: Interface 26 ONTARIO-MICH				762.5		-0.0	0.23319		0.23760	736.0	-40.9
			C:W44LC					1642						
			Open 160062 LONGWOOD	220	160074	COWALJ44	220	1			-0.16056	0.02255	189.2	115.5
			Open 160074 COWALJ44	220	160134	BUCHJW44	220	1			0.16303	-0.00487	334.4	350.3
			Open 160054 BUCHANAN	220	160134	BUCHJW44	220	1			-0.00035	0.00487	-256.1	-272.1
			Open 160055 CHATHAM	220	160074	COWALJ44	220	1			0.71981	0.00000	3.1	3.1
7070	-3269.6	896.4	L: Interface 26 ONTARIO-MICH				762.5		-0.0	0.23320		0.23760	736.0	-40.9
			C:W45LC					1643						
			Open 160062 LONGWOOD	220	160075	COWALJ45	220	1			-0.16050	0.02252	189.2	115.6
			Open 160075 COWALJ45	220	160135	BUCHJW45	220	1			0.16297	-0.00486	334.3	350.2
			Open 160054 BUCHANAN	220	160135	BUCHJW45	220	1			-0.00035	0.00486	-262.5	-278.3
			Open 160055 CHATHAM	220	160075	COWALJ45	220	1			0.71977	0.00000	3.1	3.1
7071	-3249.2	905.7	L: Interface 26 ONTARIO-MICH				771.6		0.0	0.23747		0.23760	736.0	-36.0
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392					
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1			-0.05454	0.00241	-652.6	-660.4
7072	-3242.6	908.7	L: Interface 26 ONTARIO-MICH				721.7		-0.0	0.22256		0.23760	736.0	-34.5
			C:LKWANA-OXBW					1651						
			Open 417 OXBOW	230	3070	LACKAWNA	230	1			0.11958	-0.12579	-119.7	288.2
7073	-3230.1	914.3	L: Interface 26 ONTARIO-MICH				770.8		0.0	0.23863		0.23760	736.0	-31.5
			C:130755 OAKDL345	345	131128	LAPEER	345	1	209					
			Open 130755 OAKDL345	345	131128	LAPEER	345	1			-0.06047	-0.01699	-575.7	-520.9
7074	-3218.7	919.5	*L: Interface 26 ONTARIO-MICH				749.2		-0.0	0.23278		0.23760	736.0	-28.8
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL					1650						
			Open 505 SHELOCTA	230	521	KEYSTONE	230	1			0.08784	-0.04530	50.1	195.9
			Open 473 BLAIRSVL	138	235253	01SOCIAL	138	1			0.08830	-0.00962	100.2	131.2
8774	-2966.6	1034.2	L: Interface 55 PJME-NYEnoRE				1477.4	1287.0	0.06418			0.00000	1299.1	1299.1
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.44167	-0.11289	-543.5	-208.6
			Open 130757 WATRC345	345	130768	WATRC230	230	1			-0.19968	-0.07170	257.6	470.3
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			-0.45967	0.00000	22.4	22.4
8775	-2966.6	1034.2	L: Interface 56 NYE-PJMEEnoRE				-1477.4	-1287.0	-0.06418			-0.00000	-1299.1	-1299.1
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.44167	-0.11289	-543.5	-208.6
			Open 130757 WATRC345	345	130768	WATRC230	230	1			0.19968	-0.07170	257.6	470.3
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.45967	0.00000	22.4	22.4
8804	-2747.2	1133.9	L: Interface 52 PJMEast-G				118.3		-0.0	0.04306		0.00000	0.4	0.4
			C:BUS:WATERCURE_345					1632						

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				Open 130757 WATRC345	345	200769	HOMER	CY	345	1				-0.29437	-0.11289	-543.5	-233.4		
				Open 130757 WATRC345	345	130768	WATRC230		230	1				-0.13699	-0.07170	257.6	454.6		
				Open 130755 OAKDL345	345	130757	WATRC345		345	1				-0.30557	0.00000	22.4	22.4		
8805	-2747.2	1133.9	L:	Interface	51	G-PJMEast								-118.3	0.0	-0.04306	-0.00000	-0.4	-0.4
				C:BUS:WATERCURE_345															
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1									
				Open 130757 WATRC345	345	130768	WATRC230		230	1									
				Open 130755 OAKDL345	345	130757	WATRC345		345	1									
8828	-2189.2	1387.6	L:	Interface	56	NYE-PJMENoRE								-1454.4	-1287.0	-0.07649	-0.00000	-1299.1	-1299.1
				C:130753 FRASR345	345	130755	OAKDL345		345	1	200								
				Open 130753 FRASR345	345	130755	OAKDL345		345	1									
8829	-2189.2	1387.6	L:	Interface	55	PJME-NYEnoRE								1454.4	1287.0	0.07649	0.00000	1299.1	1299.1
				C:130753 FRASR345	345	130755	OAKDL345		345	1	200								
				Open 130753 FRASR345	345	130755	OAKDL345		345	1									
8833	-2039.4	1455.7	L:	Interface	52	PJMEast-G								107.8	0.0	0.05284	0.00000	0.4	0.4
				C:130753 FRASR345	345	130755	OAKDL345		345	1	200								
				Open 130753 FRASR345	345	130755	OAKDL345		345	1									
8834	-2039.4	1455.7	L:	Interface	51	G-PJMEast								-107.8	-0.0	-0.05284	-0.00000	-0.4	-0.4
				C:130753 FRASR345	345	130755	OAKDL345		345	1	200								
				Open 130753 FRASR345	345	130755	OAKDL345		345	1									
8837	-1871.2	1532.2	L:	Interface	56	NYE-PJMENoRE								-1353.4	-1287.0	-0.03549	-0.00000	-1299.1	-1299.1
				C:147834 NIAG 345	345	149000	ROCH	345	345	1	1226								
				Open 147834 NIAG 345	345	149000	ROCH	345	345	1									
8838	-1871.2	1532.2	L:	Interface	55	PJME-NYEnoRE								1353.4	1287.0	0.03549	0.00000	1299.1	1299.1
				C:147834 NIAG 345	345	149000	ROCH	345	345	1	1226								
				Open 147834 NIAG 345	345	149000	ROCH	345	345	1									
8841	-1678.9	1619.7	L:	Interface	56	NYE-PJMENoRE								-1367.7	-1287.0	-0.04805	-0.00000	-1299.1	-1299.1
				C:130755 OAKDL345	345	130757	WATRC345		345	1	206								
				Open 130755 OAKDL345	345	130757	WATRC345		345	1									
8842	-1678.9	1619.7	L:	Interface	55	PJME-NYEnoRE								1367.7	1287.0	0.04805	0.00000	1299.1	1299.1
				C:130755 OAKDL345	345	130757	WATRC345		345	1	206								
				Open 130755 OAKDL345	345	130757	WATRC345		345	1									
8844	-1514.1	1694.6	L:	Interface	39	ZoneD-ONT								-47.0	-0.0	-0.03103	0.00000	0.5	0.5
				C:147834 NIAG 345	345	149000	ROCH	345	345	1	1226								
				Open 147834 NIAG 345	345	149000	ROCH	345	345	1									
8845	-1514.1	1694.6	L:	Interface	40	ONT-ZoneD								47.0	0.0	0.03103	0.00000	-0.5	-0.5
				C:147834 NIAG 345	345	149000	ROCH	345	345	1	1226								
				Open 147834 NIAG 345	345	149000	ROCH	345	345	1									
8846	-1440.5	1728.0	L:	Interface	51	G-PJMEast								-46.9	0.0	-0.03256	-0.00000	-0.4	-0.4
				C:130755 OAKDL345	345	130757	WATRC345		345	1	206								
				Open 130755 OAKDL345	345	130757	WATRC345		345	1									
8847	-1440.5	1728.0	L:	Interface	52	PJMEast-G								46.9	-0.0	0.03256	0.00000	0.4	0.4
				C:130755 OAKDL345	345	130757	WATRC345		345	1	206								
				Open 130755 OAKDL345	345	130757	WATRC345		345	1									
8848	-1127.8	1870.2	L:	Interface	55	PJME-NYEnoRE								1364.4	1287.0	0.06864	0.00000	1299.1	1299.1
				C:LKWANA-OXBW															
				Open 417 OXBOW	230	3070	LACKAWNA		230	1									
8849	-1127.8	1870.2	L:	Interface	56	NYE-PJMENoRE								-1364.4	-1287.0	-0.06864	-0.00000	-1299.1	-1299.1

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			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.20645	-0.07170	257.6	221.7
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.14892	0.00000	22.4	22.4
8864	522.4	2620.5	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1		-1241.0	-1331.0	-0.17221	
			Base Case									
8865	550.1	2633.1	L: 146758 CHESTER	138	146771 SHOEM138	138	1		-286.6	-317.0	-0.05527	-0.03004 -161.7 -178.2
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7				
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1					
8866	550.1	2633.1	L: 146758 CHESTER	138	146771 SHOEM138	138	1		-286.6	-317.0	-0.05527	-0.03004 -161.7 -178.2
			C:SIN:440					1683				
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1					
8867	637.3	2672.8	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1577.7	-1725.0	-0.23112	-0.18097 -1281.0 -1396.4
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3				
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1					
8868	773.6	2734.8	L: Interface 14 Leeds-PV						3101.0	3450.0	0.45107	0.35318 2522.1 2795.3
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3				
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1					
8869	780.1	2737.7	L: Interface 50 PJMCentral-C						-107.9	0.0	0.13825	0.13825 -198.6 -90.7
			C:GEN:9 MI PT2					1561				
			Remove unit 2 from bus 136700 9M PT 2G	25.0		1197.5	MW	dispatch				
8870	780.1	2737.7	L: Interface 49 C-PJMCentral						107.9	-0.0	-0.13825	-0.13825 198.6 90.7
			C:GEN:9 MI PT2					1561				
			Remove unit 2 from bus 136700 9M PT 2G	25.0		1197.5	MW	dispatch				
8871	822.9	2757.2	L: Interface 49 C-PJMCentral						114.0	0.0	-0.13848	-0.13825 198.6 84.8
			C:HQ-NY-765-New					1776				
			Open 147827 MARCY765	765	147828 MASS 765	765	1					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1					
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.01633	0.00775	624.7	631.1
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1					
			Open 147838 MASS230B	230	147839 MOSES E	230	1					
			Open 147828 MASS 765	765	147838 MASS230B	230	1					
			Open 147837 MASS230A	230	147839 MOSES E	230	1					
			Open 147828 MASS 765	765	147837 MASS230A	230	1					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch				
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch				
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch				
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch				
8872	822.9	2757.2	L: Interface 50 PJMCentral-C						-114.0	-0.0	0.13848	0.13825 -198.6 -84.8
			C:HQ-NY-765-New					1776				
			Open 147827 MARCY765	765	147828 MASS 765	765	1					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1					
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.01633	0.00775	624.7	631.1
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1					
			Open 147838 MASS230B	230	147839 MOSES E	230	1					
			Open 147828 MASS 765	765	147838 MASS230B	230	1		0.00000	-0.00725	10.3	4.4

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			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.05989	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch					
8873	888.2	2786.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			-1566.9	-1725.0	-0.17796	-0.18097 -1281.0 -1441.8
			C:SIN:430					1682					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18979	-0.01585	1506.4	1492.3
8874	888.2	2786.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			-1566.9	-1725.0	-0.17796	-0.18097 -1281.0 -1441.8
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18979	-0.01585	1506.4	1492.3
8875	916.8	2799.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1			-1523.3	-1725.0	-0.21994	-0.17221 -1241.0 -1398.9
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3					
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1			0.31397	-0.15203	-899.2	-1038.6
8876	944.8	2812.6	L: Interface 50 PJMCentral-C							-130.6	-0.0	0.13825	0.13825 -198.6 -68.0
			C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78					
			Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1			0.06789	0.00000	1001.1	1001.1
8877	944.8	2812.6	L: Interface 49 C-PJMCentral							130.6	0.0	-0.13825	-0.13825 198.6 68.0
			C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78					
			Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1			-0.06789	0.00000	1001.1	1001.1
8878	944.8	2812.6	L: Interface 50 PJMCentral-C							-130.6	0.0	0.13825	0.13825 -198.6 -68.0
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351					
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1			0.06789	0.00000	1001.1	1001.1
8879	944.8	2812.6	L: Interface 49 C-PJMCentral							130.6	-0.0	-0.13825	-0.13825 198.6 68.0
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351					
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1			-0.06789	0.00000	1001.1	1001.1
8880	947.1	2813.7	L: 130750 COOPC345	345	130753 FRASR345	345	1			-997.1	-1207.0	-0.22164	
			Base Case										
8881	983.6	2830.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			-1472.2	-1725.0	-0.25696	-0.18097 -1281.0 -1459.0
			C:137451 LEEDS 3	345	137455 ATHENS	345	1	1006					
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1			-0.44128	0.17221	433.3	602.7
8882	1000.4	2837.9	L: Interface 50 PJMCentral-C							-138.1	0.0	0.13802	0.13825 -198.6 -60.3
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392					
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			-0.09272	0.00241	-652.6	-650.1
8883	1000.4	2837.9	L: Interface 49 C-PJMCentral							138.1	-0.0	-0.13802	-0.13825 198.6 60.3
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392					
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			0.09272	0.00241	-652.6	-650.1
8884	1000.6	2838.0*L:	Interface 50 PJMCentral-C							-153.8	0.0	0.15373	0.13825 -198.6 -60.2
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221					
			Open 130764 MEYER230	230	131122 WTHRS230	230	1			-0.18761	-0.08254	-238.5	-321.1
8885	1000.6	2838.0*L:	Interface 49 C-PJMCentral							153.8	-0.0	-0.15373	-0.13825 198.6 60.2
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221					
			Open 130764 MEYER230	230	131122 WTHRS230	230	1			0.18761	-0.08254	-238.5	-321.1
8894	1065.2	2867.3	L: Interface 14 Leeds-PV							3080.0	3450.0	0.34731	0.35318 2522.1 2898.3
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10					

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8895	1065.2	2867.3	L: Open 125002 ROSETON 345 126281 FISHKILL 345 1						0.37040	-0.01585	1506.4	1489.5
			Interface 14 Leeds-PV	3080.0	3450.0	0.34731			0.35318	2522.1	2898.3	
			C:SIN:430									1682
8906	1135.0	2899.1	L: Open 125002 ROSETON 345 126281 FISHKILL 345 1						0.37040	-0.01585	1506.4	1489.5
			126294 PLTVLLEY 345 137451 LEEDS 3 345 2	-1474.4	-1725.0	-0.22077			-0.18097	-1281.0	-1486.4	
			C:125000 HURLEY 3 345 125002 ROSETON 345 1 1									
			Open 125000 HURLEY 3 345 125002 ROSETON 345 1						-0.29333	0.13569	659.3	813.3
8909	1144.5	2903.4	*L: Interface 56 NYE-PJMENoRE	-1241.3	-1287.0	-0.03989			-0.00000	-1299.1	-1299.1	
			C:ETHS/LLGD									1649
			Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.35117	-0.07609	117.6	30.5
			Open 130807 GOUDY115 115 200680 LAUREL L 115 1						0.43249	-0.03046	38.0	3.1
8910	1144.5	2903.4	*L: Interface 55 PJME-NYEnoRE	1241.3	1287.0	0.03989			0.00000	1299.1	1299.1	
			C:ETHS/LLGD									1649
			Open 130763 HILSD230 230 200675 E.TWANDA 230 1						-0.35117	-0.07609	117.6	30.5
			Open 130807 GOUDY115 115 200680 LAUREL L 115 1						-0.43249	-0.03046	38.0	3.1
8927	1186.2	2922.4	L: 146758 CHESTER 138 146773 SGRLF138 138 1	251.4	317.0	0.05527			0.03004	126.6	162.2	
			C:SIN:440									1683
			Open 125001 ROCK TAV 345 126297 RAMAPO 345 1						0.11202	0.22519	1114.8	1381.9
8928	1186.2	2922.4	L: 146758 CHESTER 138 146773 SGRLF138 138 1	251.4	317.0	0.05527			0.03004	126.6	162.2	
			C:125001 ROCK TAV 345 126297 RAMAPO 345 1 7									
			Open 125001 ROCK TAV 345 126297 RAMAPO 345 1						0.11202	0.22519	1114.8	1381.9
8933	1215.1	2935.5	L: 146771 SHOEM138 138 146772 SHOEMTAP 138 1	-607.0	-707.0	-0.08226			-0.05014	-448.0	-509.0	
			C:SIN:440									1683
			Open 125001 ROCK TAV 345 126297 RAMAPO 345 1						-0.14263	0.22519	1114.8	1388.4
8934	1215.1	2935.5	L: 146771 SHOEM138 138 146772 SHOEMTAP 138 1	-607.0	-707.0	-0.08226			-0.05014	-448.0	-509.0	
			C:125001 ROCK TAV 345 126297 RAMAPO 345 1 7									
			Open 125001 ROCK TAV 345 126297 RAMAPO 345 1						-0.14263	0.22519	1114.8	1388.4
8939	1251.2	2951.9	L: 126294 PLTVLLEY 345 137455 ATHENS 345 1	-1513.1	-1725.0	-0.16935			-0.17221	-1241.0	-1456.5	
			C:SIN:430									1682
			Open 125002 ROSETON 345 126281 FISHKILL 345 1						-0.18061	-0.01585	1506.4	1486.5
8940	1251.2	2951.9	L: 126294 PLTVLLEY 345 137455 ATHENS 345 1	-1513.1	-1725.0	-0.16935			-0.17221	-1241.0	-1456.5	
			C:125002 ROSETON 345 126281 FISHKILL 345 1 10									
			Open 125002 ROSETON 345 126281 FISHKILL 345 1						-0.18061	-0.01585	1506.4	1486.5
8947	1277.6	2963.9	L: Interface 14 Leeds-PV	2899.5	3450.0	0.43086			0.35318	2522.1	2973.3	
			C:125000 HURLEY 3 345 125002 ROSETON 345 1 1									
			Open 125000 HURLEY 3 345 125002 ROSETON 345 1						0.57248	0.13569	659.3	832.7
8962	1314.1	2980.5	L: 130794 DELHI115 115 130804 DEL T115 115 1	68.4	164.0	0.07275			0.03934	0.5	52.2	
			C:130753 FRASR345 345 130755 OAKDL345 345 1 200									
			Open 130753 FRASR345 345 130755 OAKDL345 345 1						-0.11754	-0.28430	-577.5	-951.1
9003	1373.8	3007.7	L: 130750 COOPC345 345 130753 FRASR345 345 1	-1317.8	-1703.0	-0.28039			-0.22164	-997.1	-1301.6	
			C:130750 COOPC345 345 147833 MARCY T1 345 1 196									
			Open 130750 COOPC345 345 147833 MARCY T1 345 1						0.43391	-0.13539	-739.1	-925.1
9004	1374.2	3007.8	L: 137451 LEEDS 3 345 137452 N.SCOT77 345 1	-1348.1	-1724.0	-0.27354			-0.17513	-863.0	-1103.7	
			C:137451 LEEDS 3 345 137453 N.SCOT99 345 2 1005									
			Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2						0.56508	-0.17416	-858.5	-1097.8
9009	1376.0	3008.7	L: 126294 PLTVLLEY 345 137451 LEEDS 3 345 2	-1430.3	-1725.0	-0.21415			-0.18097	-1281.0	-1530.1	
			C:130750 COOPC345 345 130753 FRASR345 345 1 192									
			Open 130750 COOPC345 345 130753 FRASR345 345 1						0.14972	-0.22164	-997.1	-1302.1

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9044	1388.4	3014.3	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1345.1	-1724.0	-0.27291	-0.17416	-858.5	-1100.3
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1 1004						
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.56388	-0.17513	-863.0	-1106.1
9191	1423.8	3030.4	L: Interface 52 PJMEast-G					-76.3	-0.0	0.05357	0.00000	0.4	0.4
			C:ETHS/NWES/LLGD									1648	
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.37609	-0.07609	117.6	9.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.38778	-0.03170	43.0	-2.2
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			-0.41556	-0.03046	38.0	-5.4
9192	1423.8	3030.4	L: Interface 51 G-PJMEast					76.3	0.0	-0.05357	-0.00000	-0.4	-0.4
			C:ETHS/NWES/LLGD									1648	
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.37609	-0.07609	117.6	9.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.38778	-0.03170	43.0	-2.2
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.41556	-0.03046	38.0	-5.4
9263	1427.6	3032.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1425.1	-1725.0	-0.21009	-0.17221	-1241.0	-1486.9
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1			-0.27915	0.13569	659.3	853.0
11946	1443.8	3039.5*L:	Interface 52 PJMEast-G					-48.0	-0.0	0.03322	0.00000	0.4	0.4
			C:SER:C398/NWES									1605	
			Open 409 GROVER	230	200675 E.TWANDA	230	1			-0.02734	0.00120	-15.6	-13.8
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.30865	-0.07609	117.6	7.8
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			-0.01228	-0.00618	-52.1	-61.1
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.30588	-0.03170	43.0	-2.8
11947	1443.8	3039.5*L:	Interface 51 G-PJMEast					48.0	0.0	-0.03322	-0.00000	-0.4	-0.4
			C:SER:C398/NWES									1605	
			Open 409 GROVER	230	200675 E.TWANDA	230	1			0.02734	0.00120	-15.6	-13.8
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.30865	-0.07609	117.6	7.8
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			0.01228	-0.00618	-52.1	-61.1
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.30588	-0.03170	43.0	-2.8
12090	1449.6	3042.1	L: 130817 JENN 115	115	130819 KATEL115	115	1	-107.6	-159.0	-0.03543	-0.01763	-71.5	-97.1
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			0.06259	-0.28430	-577.5	-989.6
12181	1456.2	3045.1	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-237.7	-317.0	-0.05443	-0.03004	-161.7	-205.5
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1 9						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.17871	-0.13649	-425.4	-624.1
12288	1494.2	3062.4	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1350.8	1793.0	0.29594	0.18663	874.1	1152.9
			C:125001 ROCK TAV	345	130750 COOPC345	345	2 8						
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2			-0.64149	-0.17040	-743.2	-997.8
12303	1523.1	3075.6	L: Interface 14 Leeds-PV					2813.4	3450.0	0.41794	0.35318	2522.1	3060.0
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			-0.29219	-0.22164	-997.1	-1334.7
12380	1643.6	3130.3	L: Interface 32 F-To-G					3713.3	4643.0	0.56566			
			Base Case										
12397	1677.7	3145.8	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1383.1	-1725.0	-0.20379	-0.17221	-1241.0	-1530.0
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.14248	-0.22164	-997.1	-1368.9
12406	1689.2	3151.1	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08226	0.05014	448.0	532.7
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.14263	0.22519	1114.8	1495.2

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12407	1689.2	3151.1	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08226	0.05014	448.0	532.7
			C:SIN:440				1683						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.14263	0.22519	1114.8	1495.2
12418	1726.7	3168.1	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-1008.0	-1345.0	-0.19516	-0.13539	-739.1	-972.9
			C:130750 COOPC345	345	130753 FRASR345	345	1	192					
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.26966	-0.22164	-997.1	-1379.8
12419	1739.2	3173.8	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1292.6	-1793.0	-0.28771	-0.17040	-743.2	-1039.5
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195					
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.62859	0.18663	874.1	1198.7
12420	1748.3	3177.9	L: 130817 JENN 115	115	130851 SIDNT115	115	1	53.9	120.0	0.03783	0.02108	19.8	56.7
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			-0.05894	-0.28430	-577.5	-1074.6
12423	1755.9	3181.4	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	46.7	143.0	0.05485	0.03523	18.7	80.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.10628	-0.18460	-263.5	-587.7
12424	1759.0	3182.8	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.3	173.0	0.04190	0.02814	78.2	127.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04986	0.27581	422.3	907.4
12427	1791.5	3197.6	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-44.7	-143.0	-0.05485	-0.03523	-16.7	-79.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.10628	-0.18460	-263.5	-594.2
12430	1828.9	3214.6	L: Interface 23 QFW					892.6	0.0	-0.48802	-0.48453	1095.5	209.3
			C:GEN:KINTIGH-New				1775						
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	1			0.00000	-0.00496	-288.5	-297.6
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	2			0.35120	-0.00994	-577.7	-595.9
12431	1855.0	3226.4	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.0	159.0	0.03556	0.02383	75.1	119.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04252	0.27581	422.3	933.9
12432	1862.5	3229.9	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1262.4	-1793.0	-0.28487	-0.17040	-743.2	-1060.5
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.55569	0.18663	874.1	1221.7
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.07885	-0.13649	-425.4	-679.6
12433	1873.1	3234.7	L: 130757 WATRC345	345	200769 HOMER CY	345	1	-543.5	-755.0	-0.11289			
			Base Case										
12434	1873.1	3234.7	L: Interface 47 C-PJMWest					-543.5	-755.0	-0.11289			
			Base Case										
12435	1873.1	3234.7	L: Interface 48 PJMWest-C					543.5	755.0	0.11289			
			Base Case										
12436	1879.0	3237.4	L: Interface 23 QFW					910.4	0.0	-0.48453	-0.48453	1095.5	185.0
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW								
12437	1881.9	3238.7	L: Interface 23 QFW					918.7	-0.0	-0.48817	-0.48453	1095.5	183.6
			C:HQ-NY-765-New				1776						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.25138	0.00775	624.7	639.3
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.25138	0.00674	543.6	556.3
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					

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			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00725	10.3	-3.3		
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1		-0.09617	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
12442	1903.5	3248.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1353.2	-1725.0	-0.19533	-0.18097	-1281.0	-1625.5
			C:SER:CMT34&MTR34				1593							
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1		-0.09362	0.18663	874.1	1229.3		
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1		-0.02277	-0.13649	-425.4	-685.2		
12443	1910.2	3251.5	L: 130819 KATEL115	115	130838 OAKDL115	115	1		-124.3	-192.0	-0.03543	-0.01763	-88.2	-121.9
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.06259	-0.28430	-577.5	-1120.6		
12444	1914.4	3253.4	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1353.2	-1725.0	-0.19419	-0.18097	-1281.0	-1627.5
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1		0.09769	-0.13539	-739.1	-998.3		
12445	1941.1	3265.6	L: Interface 23 QFW						940.5	0.0	-0.48453	-0.48453	1095.5	154.9
			C:GEN:GINNA				1562							
			Remove unit 1 from bus 149140 GINNA 19	19.0	605.0	MW	dispatch							
12446	1946.6	3268.1	L: 135872 SOUR-111	115	135873 SWDN-111	115	1		89.8	159.0	0.03556	0.02383	71.8	118.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		0.04252	0.27581	422.3	959.2		
12447	1956.3	3272.5	*L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1344.5	-1725.0	-0.19451	-0.18097	-1281.0	-1635.1
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1		-0.07257	0.18663	874.1	1239.2		
12448	1963.5	3275.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-772.3	-1380.0	-0.30950	-0.28430	-577.5	-1135.8
			C:130753 FRASR345	345	137200 EDIC	345	1	202						
			Open 130753 FRASR345	345	137200 EDIC	345	1		0.27558	-0.09144	-706.7	-886.3		
12451	1994.6	3289.9	L: Interface 23 QFW						966.4	-0.0	-0.48453	-0.48453	1095.5	129.0
			C:GEN:SEABROOK				1573							
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
12452	1994.6	3289.9	L: Interface 23 QFW						966.4	-0.0	-0.48453	-0.48453	1095.5	129.0
			C:GEN:SEAB&OMS				1575							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1		
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
12453	1995.7	3290.4	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1		-544.9	-707.0	-0.08123	-0.05014	-448.0	-548.1
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	9						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1		0.22773	-0.13649	-425.4	-697.7		
12454	2001.3	3293.0	L: Interface 23 QFW						969.7	0.0	-0.48453	-0.48453	1095.5	125.8
			C:SIN:250				1677							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1		
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
12455	2003.5	3294.0	L: Interface 23 QFW						970.7	0.0	-0.48453	-0.48453	1095.5	124.7
			C:GEN:MLS3&OMS				1574							

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			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
12456	2003.5	3294.0	L: Interface 23 QFW					970.7	0.0	-0.48453	-0.48453	1095.5	124.7
			C:GEN:MILLST 3				1572						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
12460	2023.9	3303.2	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.9	173.0	0.03609	0.02814	78.2	135.2
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04136	0.19221	524.7	913.7
12461	2025.3	3303.9	*L: Interface 23 QFW					972.3	-0.0	-0.48008	-0.48453	1095.5	114.1
			C:SER:HC-SR_37&W-F_171				1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1			0.30257	0.01417	-378.4	-349.7
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.24131	0.00066	-35.9	-34.6
12468	2060.7	3320.0	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1214.0	-1724.0	-0.24748	-0.17416	-858.5	-1217.4
			C:BUS:N.S._77				1614						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.60779	-0.04338	-248.0	-337.4
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.40443	0.00031	111.8	112.4
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.33531	0.17297	819.4	1175.9
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.26699	-0.04091	-92.7	-177.0
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.20561	0.00000	-0.0	-0.0
12470	2064.7	3321.8	L: Interface 14 Leeds-PV					2662.9	3450.0	0.38122	0.35318	2522.1	3251.3
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			0.18272	0.18663	874.1	1259.4
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.04443	-0.13649	-425.4	-707.2
12476	2076.6	3327.2	L: Interface 14 Leeds-PV					2663.0	3450.0	0.37899	0.35318	2522.1	3255.5
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196					
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			-0.19065	-0.13539	-739.1	-1020.3
12478	2092.5	3334.5	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-83.8	-173.0	-0.04261	-0.02862	-62.4	-122.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05070	0.27581	422.3	999.4
12479	2097.1	3336.5	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1082.7	-1703.0	-0.29579	-0.22164	-997.1	-1461.9
			C:130753 FRASR345	345	147831 GILB 345	345	1	203					
			Open 130753 FRASR345	345	147831 GILB 345	345	1			-0.39383	0.18828	217.4	612.3
12480	2102.1	3338.8	L: 146758 CHESTER	138	146773 SGRLF138	138	1	202.6	317.0	0.05443	0.03004	126.6	189.7
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	9					
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.17871	-0.13649	-425.4	-712.3
12482	2118.2	3346.1	L: Interface 14 Leeds-PV					2645.9	3450.0	0.37961	0.35318	2522.1	3270.2
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195					
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			0.14164	0.18663	874.1	1269.4
12486	2136.8	3354.6	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.6	159.0	0.03061	0.02383	75.1	126.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03527	0.19221	524.7	935.4
12490	2146.9	3359.2	L: 135452 LOCKPORT	115	135876 TELRDTP1	115	1	104.1	180.0	0.03537	0.02370	86.2	137.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04231	0.27581	422.3	1014.4
12503	2173.1	3371.1	L: Interface 14 Leeds-PV					2625.9	3450.0	0.37921	0.35318	2522.1	3289.6
			C:SER:PV_LM_398				1597						
			Open 103105 LONG MTN	345	103117 CTNY398	345	1			0.33673	0.07731	308.5	476.5
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			-0.23700	0.00000	0.2	0.2

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12504	2173.2	3371.1	*L: Interface 14 Leeds-PV			2625.9	3450.0	0.37921		0.35318	2522.1	3289.6
			C:103117 CTNY398 345 126294 PLTVLLEY 345 1 1362									
			Open 103117 CTNY398 345 126294 PLTVLLEY 345 1						0.33673	0.07731	308.3	476.3
12506	2173.5	3371.3	L: 130757 WATRC345 345 130768 WATRC230 230 1			455.1	600.0	0.06666		-0.07170	257.6	101.7
			C:130755 OAKDL345 345 130757 WATRC345 345 1 206									
			Open 130755 OAKDL345 345 130757 WATRC345 345 1						-0.74956	-0.18460	-263.5	-664.8
12528	2215.3	3390.3	L: 135850 SOUR-114 115 135861 MORTIMER 115 1			71.0	153.0	0.03701		0.02481	52.3	107.3
			C:147834 NIAG 345 345 149000 ROCH 345 345 1 1226									
			Open 147834 NIAG 345 345 149000 ROCH 345 345 1						0.04425	0.27581	422.3	1033.3
12547	2234.2	3398.9	L: 126294 PLTVLLEY 345 137455 ATHENS 345 1			-1309.7	-1725.0	-0.18588		-0.17221	-1241.0	-1625.8
			C:SER:CMT34&MTR34 1593									
			Open 130750 COOPC345 345 146754 MDTN TAP 345 1						-0.08910	0.18663	874.1	1291.0
			Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1						-0.02167	-0.13649	-425.4	-730.3
12557	2238.2	3400.7	L: 130836 N.WAV115 115 131018 LOUNTS115 115 1			50.2	173.0	0.05485		0.03523	22.2	101.1
			C:130755 OAKDL345 345 130757 WATRC345 345 1 206									
			Open 130755 OAKDL345 345 130757 WATRC345 345 1						-0.10628	-0.18460	-263.5	-676.7
12568	2243.3	3403.0	L: 135872 SOUR-111 115 135873 SWDN-111 115 1			90.3	159.0	0.03061		0.02383	71.8	125.3
			C:130754 KINTI345 345 149000 ROCH 345 345 1 205									
			Open 130754 KINTI345 345 149000 ROCH 345 345 1						0.03527	0.19221	524.7	955.8
12586	2247.0	3404.7	L: 126294 PLTVLLEY 345 137455 ATHENS 345 1			-1309.8	-1725.0	-0.18480		-0.17221	-1241.0	-1628.0
			C:130750 COOPC345 345 147833 MARCY T1 345 1 196									
			Open 130750 COOPC345 345 147833 MARCY T1 345 1						0.09296	-0.13539	-739.1	-1043.4
12589	2248.8	3405.5	L: 130750 COOPC345 345 130753 FRASR345 345 1			-1147.3	-1703.0	-0.24713		-0.22164	-997.1	-1495.5
			C:137451 LEEDS 3 345 147831 GILB 345 345 1 1007									
			Open 137451 LEEDS 3 345 147831 GILB 345 345 1						0.16344	-0.15592	-918.9	-1269.5
13803	2262.5	3411.7	L: 130794 DELHI115 115 130851 SIDNT115 115 1			-35.8	-120.0	-0.03721		-0.02057	-2.0	-48.6
			C:130753 FRASR345 345 130755 OAKDL345 345 1 200									
			Open 130753 FRASR345 345 130755 OAKDL345 345 1						0.05853	-0.28430	-577.5	-1220.7
14106	2271.3	3415.7	L: 135452 LOCKPORT 115 135851 SHEL-113 115 1			98.3	180.0	0.03598		0.02411	80.1	134.9
			C:147834 NIAG 345 345 149000 ROCH 345 345 1 1226									
			Open 147834 NIAG 345 345 149000 ROCH 345 345 1						0.04302	0.27581	422.3	1048.7
14120	2272.8	3416.4	L: 146754 MDTN TAP 345 146772 SHOEMTAP 138 1			448.0	562.0	0.05014				
			Base Case									
14187	2280.2	3419.8	L: 137453 N.SCOT99 345 147833 MARCY T1 345 1			-1229.4	-1792.0	-0.24673		-0.18563	-916.1	-1339.3
			C:SIN:160 1670									
			Open 137200 EDIC 345 137452 N.SCOT77 345 1						-0.35322	0.17297	819.4	1213.8
			Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1						-0.19918	0.00000	119.9	119.9
			Open 137235 PORTER 1 115 137246 VALLEY 115 1						-0.00023	-0.00032	74.8	74.1
14188	2280.2	3419.8	L: 137453 N.SCOT99 345 147833 MARCY T1 345 1			-1229.4	-1792.0	-0.24673		-0.18563	-916.1	-1339.3
			C:SIN:150 1669									
			Open 137200 EDIC 345 137452 N.SCOT77 345 1						-0.35322	0.17297	819.4	1213.8
			Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1						-0.19920	0.00000	119.9	119.9
			Open 137235 PORTER 1 115 147905 ILION 115 1						-0.00016	-0.00021	88.8	88.3
14201	2284.9	3421.9	L: Interface 59 MarcySouthS			1736.2	2552.0	0.35703				
			Base Case									
14211	2288.4	3423.5	L: 126294 PLTVLLEY 345 137455 ATHENS 345 1			-1301.4	-1725.0	-0.18510		-0.17221	-1241.0	-1635.1
			C:130750 COOPC345 345 146754 MDTN TAP 345 1 195									
			Open 130750 COOPC345 345 146754 MDTN TAP 345 1						-0.06906	0.18663	874.1	1301.2

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14219	2293.7	3425.9	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	192.0	280.0	0.03835	0.02453	170.9	227.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.05011	0.27581	422.3	1054.9
14251	2319.5	3437.7	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-238.5	-430.0	-0.08254			
			Base Case										
14257	2334.0	3444.3	L: 130815 HINMN115	115	131611 HARIS115	115	1	-218.9	-306.0	-0.03730	-0.02388	-198.4	-254.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04868	0.27581	422.3	1066.0
14267	2343.5	3448.6	*L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1291.7	-1725.0	-0.18491	-0.17221	-1241.0	-1644.6
			C:SER:PV_LM_398				1597						
			Open 103105 LONG MTN	345	103117 CTNY398	345	1			-0.16419	0.07731	308.5	489.7
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			0.11556	0.00000	0.2	0.2
14274	2349.3	3451.2	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1184.4	-1724.0	-0.22967	-0.17513	-863.0	-1274.4
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34981	-0.15592	-918.9	-1285.2
14305	2378.5	3464.5	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1180.0	-1724.0	-0.22872	-0.17416	-858.5	-1272.7
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34992	-0.15592	-918.9	-1289.7
14308	2383.0	3466.5	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-577.5	-1255.0	-0.28430			
			Base Case										
14339	2411.0	3479.3	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-84.5	-173.0	-0.03670	-0.02862	-62.4	-131.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04206	0.19221	524.7	988.1
14341	2414.0	3480.6	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1199.5	-1792.0	-0.24545	-0.18563	-916.1	-1364.2
			C:137200 EDIC	345	137452 N.SCOT77	345	1 946						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.34586	0.17297	819.4	1237.0
14352	2421.1	3483.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-656.6	-1380.0	-0.29879	-0.28430	-577.5	-1265.8
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.10700	-0.13539	-739.1	-1066.9
14447	2444.3	3494.4	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	228.6	430.0	0.08240			
			Base Case										
14450	2444.6	3494.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1149.2	1724.0	0.23515	0.17297	819.4	1242.3
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33494	-0.18563	-916.1	-1369.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19090	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00024	-0.00032	74.8	74.1
14451	2444.6	3494.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1149.2	1724.0	0.23515	0.17297	819.4	1242.3
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33494	-0.18563	-916.1	-1369.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19092	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00016	-0.00021	88.8	88.3
14523	2448.3	3496.2	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-301.9	-540.0	-0.09725	-0.08254	-238.5	-440.6
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.11957	-0.11289	-543.5	-819.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.03821	-0.03170	43.0	-34.6
14768	2452.5	3498.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.29779	-0.28430	-577.5	-1274.8
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.18563	-916.1	-1371.3

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			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.05534	0.00000	22.4	22.4
16032	2535.6	3535.9	L: 131018 LOUNSL115	115	131850 CNYOG115	115	1	-11.0	143.0	0.06073		0.03523	18.7	108.0
			C:BUS:WATERCURE_230											1633
			Open 130768 WATRC230	230	130772 SHRED230	230	1				0.24198	0.05141	71.0	201.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.18211	-0.07170	257.6	75.8
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.12849	0.00000	0.5	0.5
16037	2539.0	3537.5	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	-3.7	-143.0	-0.05485		-0.03523	24.3	-65.2
			C:130755 OAKDL345	345	130757 WATRC345	345	1							206
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.10628	-0.18460	-263.5	-732.2
16043	2544.3	3539.9	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	88.4	180.0	0.03598		0.02412	70.3	131.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							1226
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04303	0.27581	422.3	1124.0
16044	2544.5	3540.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-14.7	-143.0	-0.05044		-0.03523	-16.7	-106.4
			C:BUS:WATERCURE_345											1632
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.05669	-0.11289	-543.5	-830.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.12286	-0.07170	257.6	75.1
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.05534	0.00000	22.4	22.4
16056	2549.6	3542.3	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1095.5	-1703.0	-0.23828		-0.22164	-997.1	-1562.2
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1							3
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1				0.10944	-0.15203	-899.2	-1286.8
16058	2554.4	3544.5	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	291.9	540.0	0.09711		0.08240	228.6	439.1
			C:SER:HCWC/NWES											1607
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11957	-0.11289	-543.5	-831.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.03821	-0.03170	43.0	-38.0
16059	2555.3	3544.9	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	71.6	153.0	0.03186		0.02481	52.3	115.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1							205
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03671	0.19221	524.7	1015.8
16067	2565.1	3549.3	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1097.9	-1703.0	-0.23589		-0.22164	-997.1	-1565.6
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2							120
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				0.07872	-0.18097	-1281.0	-1745.2
16070	2566.8	3550.1	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1	-85.0	-180.0	-0.03702		-0.02481	-66.3	-130.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							1226
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.04426	0.27581	422.3	1130.2
16071	2567.7	3550.5	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	12.9	-143.0	-0.06073		-0.03523	-16.7	-107.2
			C:BUS:WATERCURE_230											1633
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.24198	0.05141	71.0	203.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.18211	-0.07170	257.6	73.5
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.12849	0.00000	0.5	0.5
16080	2574.7	3553.7	L: 130767 STOLE230	230	130770 SHLDN230	230	1	218.2	430.0	0.08224				
			Base Case											
16082	2574.8	3553.8	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-63.3	-173.0	-0.04261		-0.02862	-41.9	-115.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							1226
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.05070	0.27581	422.3	1132.4
16090	2581.7	3556.9	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	292.8	540.0	0.09574		0.08240	228.6	441.3
			C:130757 WATRC345	345	200769 HOMER CY	345	1							1374
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11819	-0.11289	-543.5	-835.0
16092	2584.2	3558.0	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1119.7	1724.0	0.23383		0.17297	819.4	1266.4
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1							1012

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			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.32784	-0.18563	-916.1	-1395.8
16099	2590.5	3560.9	L: 147834 NIAG 345	345	149000	ROCH 345	345	1	703.6	1685.0	0.37886		0.27581	422.3	1136.8
			C:130754 KINTI345	345	149000	ROCH 345	345	1			205				
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.53611	0.19221	524.7	1022.6
16117	2598.1	3564.3	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1092.7	-1703.0	-0.23491		-0.22164	-997.1	-1572.9
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1			121				
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1				0.07704	-0.17221	-1241.0	-1688.5
16137	2605.5	3567.7	L: 130770 SHLDN230	230	131122	WTHRS230	230	1	290.6	540.0	0.09571		0.08240	228.6	443.3
			C:SER:HC-WC_30&W-F_171								1601				
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.11761	-0.11289	-543.5	-837.7
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.05269	0.00066	-35.9	-34.2
16214	2619.1	3573.9	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-54.4	-153.0	-0.03763		-0.02522	-35.4	-101.5
			C:147834 NIAG 345	345	149000	ROCH 345	345	1			1226				
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				-0.04499	0.27581	422.3	1144.6
16239	2620.4	3574.5	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1	98.8	180.0	0.03097		0.02411	80.1	143.3
			C:130754 KINTI345	345	149000	ROCH 345	345	1			205				
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.03569	0.19221	524.7	1028.3
17570	2632.7	3580.1	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1083.6	-1703.0	-0.23528		-0.22164	-997.1	-1580.6
			C:BUS:N.S._99								1615				
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1				0.12460	-0.03237	-310.7	-395.9
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				0.04425	-0.18563	-916.1	-1404.8
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				-0.00286	0.00045	118.7	119.9
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				0.00800	-0.17416	-858.5	-1317.0
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				-0.01512	0.00000	1.6	1.6
17623	2637.2	3582.1	L: 137200 EDIC	345	137452	N.SCOT77	345	1	1117.4	1724.0	0.23003		0.17297	819.4	1275.6
			C:BUS:N.S._99								1615				
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1				-0.18532	-0.03237	-310.7	-396.1
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.38312	-0.18563	-916.1	-1405.6
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				-0.09741	0.00045	118.7	119.9
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				0.11491	-0.17416	-858.5	-1317.8
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				-0.24148	0.00000	1.6	1.6
17667	2644.5	3585.4	L: 131018 LOUNSL115	115	131850	CNYOG115	115	1	47.6	143.0	0.03608		0.03523	18.7	111.8
			C:130755 OAKDL345	345	131128	LAPEER	345	1			209				
			Open 130755 OAKDL345	345	131128	LAPEER	345	1				-0.05020	-0.01699	-575.7	-620.7
17675	2645.8	3586.0	L: 131018 LOUNSL115	115	131850	CNYOG115	115	1	29.3	143.0	0.04296		0.03523	18.7	111.9
			C:130768 WATRC230	230	130772	SHRED230	230	1			227				
			Open 130768 WATRC230	230	130772	SHRED230	230	1				0.15025	0.05141	71.0	207.0
17687	2649.0	3587.5	L: 131018 LOUNSL115	115	131850	CNYOG115	115	1	18.7	112.0	0.03523				
			Base Case												
17706	2654.8	3590.1	L: 130764 MEYER230	230	131122	WTHRS230	230	1	-268.7	-540.0	-0.10221		-0.08254	-238.5	-457.7
			C:147834 NIAG 345	345	149000	ROCH 345	345	1			1226				
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				-0.07131	0.27581	422.3	1154.5
17726	2661.8	3593.3	L: 131018 LOUNSL115	115	131850	CNYOG115	115	1	28.7	143.0	0.04296		0.03523	18.7	112.5
			C:SER:OAKDALE_WATRC230								1594				
			Open 130768 WATRC230	230	130772	SHRED230	230	1				0.15025	0.05141	71.0	207.9
			Open 130765 OAKDL230	230	130772	SHRED230	230	1			NA				
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1				-0.10162	0.00000	6.8	6.8
17728	2665.2	3594.8	L: 130767 STOLE230	230	130770	SHLDN230	230	1	281.6	540.0	0.09696		0.08224	218.2	437.4

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			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.00924	-0.03170	43.0	-42.9
17801	2708.3	3614.5	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	87.6	173.0	0.03152		0.02814	78.2	154.5
			C:130770 SHLDN230	230	131122 WTHRS230	230	1							
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				0.04101	0.08240	228.6	451.8
17803	2708.6	3614.6	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	76.3	173.0	0.03568		0.02814	78.2	154.5
			C:130754 KINTI345	345	147834 NIAG 345	345	1							
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				-0.04136	-0.18226	46.0	-447.7
17804	2709.3	3614.9	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	195.5	280.0	0.03120		0.02453	170.9	237.3
			C:130766 ROBIN230	230	130767 STOLE230	230	1							
			Open 130766 ROBIN230	230	130767 STOLE230	230	1				0.26884	0.02482	91.5	158.7
17816	2712.6	3616.4	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1318.9	-1912.0	-0.21864		-0.15592	-918.9	-1341.8
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.62614	-0.03237	-310.7	-398.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.16124	-0.18563	-916.1	-1419.6
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.03268	0.00045	118.7	119.9
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.07201	-0.17416	-858.5	-1330.9
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.10439	0.00000	1.6	1.6
17820	2713.2	3616.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-858.5	-1331.0	-0.17416				
			Base Case											
17821	2713.9	3617.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.04296		-0.03523	-16.7	-112.3
			C:130765 OAKDL230	230	130772 SHRED230	230	1							
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				0.15025	-0.05141	-64.5	-204.1
17824	2714.9	3617.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.04296		-0.03523	-16.7	-112.4
			C:130765 OAKDL230	230	130838 OAKDL115	115	1							
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				-0.15025	0.05141	64.3	203.8
17825	2715.2	3617.6	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1063.9	-1703.0	-0.23539		-0.22164	-997.1	-1598.9
			C:125000 HURLEY 3	345	125002 ROSETON	345	1							
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.10131	0.13569	659.3	1027.7
17828	2717.1	3618.4	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-195.9	-383.0	-0.06887		-0.05563	-133.9	-285.1
			C:SER:HCWC/NWES											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11471	-0.11289	-543.5	-850.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00924	-0.03170	43.0	-43.2
17830	2718.0	3618.8	L: 130767 STOLE230	230	130770 SHLDN230	230	1	280.3	540.0	0.09556		0.08224	218.2	441.8
			C:SER:HC-WC_30&W-F_171											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11761	-0.11289	-543.5	-850.4
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.05269	0.00066	-35.9	-34.1
17831	2718.0	3618.9	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	196.7	383.0	0.06854		0.05563	134.5	285.7
			C:130757 WATRC345	345	200769 HOMER CY	345	1							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11437	-0.11289	-543.5	-850.4
17839	2722.3	3620.8	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	87.2	173.0	0.03152		0.02814	78.2	154.9
			C:130767 STOLE230	230	130770 SHLDN230	230	1							
			Open 130767 STOLE230	230	130770 SHLDN230	230	1				0.04101	0.08224	218.2	442.1
17848	2727.1	3623.0	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-196.1	-383.0	-0.06854		-0.05563	-133.9	-285.6
			C:130757 WATRC345	345	200769 HOMER CY	345	1							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11437	-0.11289	-543.5	-851.4
17853	2731.4	3625.0	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-448.0	-585.0	-0.05014				
			Base Case											
17854	2732.0	3625.2	L: 130815 HINMN115	115	131611 HARIS115	115	1	-219.6	-306.0	-0.03164		-0.02388	-198.4	-263.6

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				C:130754 KINTI345	345	149000	ROCH	345	345	1	205								
				Open 130754 KINTI345	345	149000	ROCH	345	345	1									
17855	2732.5	3625.5		L: 130848 S.OWE115	115	131850	CNYOG115	115	1			20.4	-143.0	-0.05980		-0.04038	0.19221	524.7	1049.8
				C:130763 HILSD230	230	130768	WATRC230	230	1	219									
				Open 130763 HILSD230	230	130768	WATRC230	230	1										
17869	2743.7	3630.5		L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1			195.0	383.0	0.06852		-0.19959	0.12311	-186.1	150.3
				C:SER:HC-WC_30&W-F_171						1601									
				Open 130757 WATRC345	345	200769	HOMER CY	345	1										
				Open 135277 FALCONER	115	200579	WARREN	115	1										
17871	2744.1	3630.7		L: 130753 FRASR345	345	137200	EDIC	345	1			-886.4	-1380.0	-0.17988		-0.11393	-0.11289	-543.5	-853.3
				C:130753 FRASR345	345	130755	OAKDL345	345	1	200									
				Open 130753 FRASR345	345	130755	OAKDL345	345	1										
17877	2752.7	3634.6		L: 130763 HILSD230	230	131154	STONY RIDGE	230	1			-194.4	-383.0	-0.06852		0.31108	-0.28430	-577.5	-1357.7
				C:SER:HC-WC_30&W-F_171						1601									
				Open 130757 WATRC345	345	200769	HOMER CY	345	1										
				Open 135277 FALCONER	115	200579	WARREN	115	1										
17887	2756.0	3636.1		L: 130770 SHLDN230	230	131122	WTHRS230	230	1			258.7	540.0	0.10206		-0.04046	0.00066	-35.9	-34.1
				C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226									
				Open 147834 NIAG 345	345	149000	ROCH 345	345	1										
17890	2758.2	3637.1		L: 130815 HINMN115	115	131611	HARIS115	115	1			-222.3	-306.0	-0.03036		0.07131	0.27581	422.3	1182.4
				C:130766 ROBIN230	230	130767	STOLE230	230	1	224									
				Open 130766 ROBIN230	230	130767	STOLE230	230	1										
17996	2794.4	3653.6		L: 130750 COOPC345	345	130753	FRASR345	345	1			-1051.1	-1703.0	-0.23327		-0.26115	0.02482	91.5	159.9
				C:BUS:N.S._77						1614									
				Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1										
				Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1										
				Open 137200 EDIC	345	137452	N.SCOT77	345	1										
				Open 137450 ALPS345	345	137452	N.SCOT77	345	1										
				Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1										
19221	2811.1	3661.2		L: Interface	59	MarcySouthS						1937.7	3048.0	0.39498		-0.01068	0.00000	-0.0	-0.0
				C:BUS:N.S._99						1615									
				Open 137453 N.SCOT99	345	147831	GILB 345	345	1										
				Open 137453 N.SCOT99	345	147833	MARCY T1	345	1										
				Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1										
				Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2										
				Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1										
19556	2818.4	3664.5		L: 130815 HINMN115	115	135452	LOCKPORT	115	1			191.1	280.0	0.03154		0.02237	0.00000	1.6	1.6
				C:130764 MEYER230	230	131122	WTHRS230	230	1	221									
				Open 130764 MEYER230	230	131122	WTHRS230	230	1										
19613	2819.8	3665.1		L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1			85.7	173.0	0.03095		-0.08488	-0.08254	-238.5	-471.2
				C:135850 SOUR-114	115	135876	TELRDTP1	115	1	673									
				Open 135850 SOUR-114	115	135876	TELRDTP1	115	1										
20843	2824.0	3667.1		L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1			86.3	173.0	0.03070		-0.03945	-0.17416	-858.5	-1348.1
				C:135452 LOCKPORT	115	135872	SOUR-111	115	1	599									
				Open 135452 LOCKPORT	115	135872	SOUR-111	115	1										
20963	2826.7	3668.3		L: 135452 LOCKPORT	115	135872	SOUR-111	115	1			73.5	159.0	0.03026		0.10725	0.02383	75.1	142.4
				C:130754 KINTI345	345	147834	NIAG 345	345	1	204									
				Open 130754 KINTI345	345	147834	NIAG 345	345	1										

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21071	2833.1	3671.2	L: Interface 32 F-To-G					4205.5	6118.0	0.67507		0.56566	3713.3	5315.9
			C:130750 COOPC345	345	130753 FRASR345	345	1	192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1				-0.49362	-0.22164	-997.1	-1625.0
21086	2835.2	3672.1	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	84.6	173.0	0.03117		0.02814	78.2	158.0
			C:135850 SOUR-114	115	135861 MORTIMER	115	1	672						
			Open 135850 SOUR-114	115	135861 MORTIMER	115	1				0.12194	0.02481	52.3	122.7
21089	2835.4	3672.2	*L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	86.0	173.0	0.03070		0.02814	78.2	158.0
			C:135872 SOUR-111	115	135873 SWDN-111	115	1	706						
			Open 135872 SOUR-111	115	135873 SWDN-111	115	1				0.10725	0.02383	71.8	139.4
21142	2846.3	3677.2	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	190.3	280.0	0.03152		0.02453	170.9	240.7
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228						
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				0.08488	0.08240	228.6	463.1
21177	2861.7	3684.2	L: 130767 STOLE230	230	130770 SHLDN230	230	1	248.4	540.0	0.10191		0.08224	218.2	453.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.07131	0.27581	422.3	1211.6
21178	2863.0	3684.8	*L: 130750 COOPC345	345	130753 FRASR345	345	1	-1030.5	-1703.0	-0.23491		-0.22164	-997.1	-1631.6
			C:137451 LEEDS 3	345	137455 ATHENS	345	1	1006						
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1				-0.07704	0.17221	433.3	926.3
21187	2866.6	3686.4	L: 130815 HINMN115	115	131611 HARIS115	115	1	-218.0	-306.0	-0.03068		-0.02388	-198.4	-266.8
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				0.08245	-0.08254	-238.5	-475.2
21188	2867.4	3686.8	L: 136150 CLAY	345	137200 EDIC	345	2	766.3	1434.0	0.23285		0.17522	576.6	1079.1
			C:136150 CLAY	345	137200 EDIC	345	1	715						
			Open 136150 CLAY	345	137200 EDIC	345	1				0.33000	0.17463	574.8	1075.6
21191	2875.4	3690.4	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	189.4	280.0	0.03151		0.02453	170.9	241.4
			C:130767 STOLE230	230	130770 SHLDN230	230	1	226						
			Open 130767 STOLE230	230	130770 SHLDN230	230	1				0.08488	0.08224	218.2	454.7
21200	2879.6	3692.3	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-269.6	-540.0	-0.09391		-0.08254	-238.5	-476.2
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.05915	0.19221	524.7	1078.1
21201	2880.9	3692.9	L: 136150 CLAY	345	137200 EDIC	345	1	764.7	1434.0	0.23232		0.17463	574.8	1077.9
			C:136150 CLAY	345	137200 EDIC	345	2	716						
			Open 136150 CLAY	345	137200 EDIC	345	2				0.32927	0.17522	576.6	1081.4
21225	2888.5	3696.4	L: 130794 DELHI115	115	130838 OAKDL115	115	1	-76.3	-179.0	-0.03554		-0.01877	-42.2	-96.5
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				0.05902	-0.28430	-577.5	-1398.7
21232	2894.5	3699.1	L: 130815 HINMN115	115	131611 HARIS115	115	1	-217.2	-306.0	-0.03067		-0.02388	-198.4	-267.5
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228						
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				-0.08245	0.08240	228.6	467.1
21234	2895.8	3699.7	L: Interface 59 MarcySouthS					1815.4	3048.0	0.42564		0.35703	1736.2	2770.1
			C:130753 FRASR345	345	147831 GILB 345	345	1	203						
			Open 130753 FRASR345	345	147831 GILB 345	345	1				0.36439	0.18828	217.4	762.6
21247	2905.0	3703.9	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-303.1	-540.0	-0.08154		-0.08254	-238.5	-478.3
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.06555	-0.11289	-543.5	-871.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.11714	-0.07170	257.6	49.3
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.05467	0.00000	22.4	22.4
21251	2906.6	3704.6	L: 130753 FRASR345	345	147831 GILB 345	345	1	678.7	1524.0	0.29082		0.18828	217.4	764.7

CentralEast

				C:130750 COOPC345	345	130753 FRASR345	345	1	192										
				Open 130750 COOPC345	345	130753 FRASR345	345	1											
21263	2923.5	3712.3	L:	130815 HINMN115	115	131611 HARIS115	115	1		-216.4	-306.0	-0.03066		-0.46262	-0.22164	-997.1	-1641.3		
				C:130767 STOLE230	230	130770 SHLDN230	230	1	226										
				Open 130767 STOLE230	230	130770 SHLDN230	230	1											
21272	2934.4	3717.2	L:	135872 SOUR-111	115	135873 SWDN-111	115	1		70.2	159.0	0.03026		-0.08245	0.08224	218.2	458.7		
				C:130754 KINTI345	345	147834 NIAG 345	345	1	204										
				Open 130754 KINTI345	345	147834 NIAG 345	345	1											
21274	2937.5	3718.7	L:	135851 SHEL-113	115	135874 SWDN-113	115	1		89.0	180.0	0.03098		-0.03527	-0.18226	46.0	-488.9		
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1											
21278	2938.4	3719.1	*L:	131018 LOUNS115	115	131850 CNYOG115	115	1		39.7	143.0	0.03515		0.03569	0.19221	524.7	1089.3		
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1											
21279	2938.5	3719.1	L:	137453 N.SCOT99	345	147833 MARCY T1	345	1		-1120.1	-1792.0	-0.22866		-0.03223	0.00241	-652.6	-645.5		
				C:BUS:N.S._77					1614										
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1											
				Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1											
				Open 137200 EDIC	345	137452 N.SCOT77	345	1											
				Open 137450 ALPS345	345	137452 N.SCOT77	345	1											
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1											
21284	2946.1	3722.6	L:	Interface 59		MarcySouthS				1896.0	3048.0	0.39102		-0.09196	-0.04338	-248.0	-375.5		
				C:BUS:N.S._77					1614										
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1											
				Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1											
				Open 137200 EDIC	345	137452 N.SCOT77	345	1											
				Open 137450 ALPS345	345	137452 N.SCOT77	345	1											
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1											
21293	2957.3	3727.6	L:	130764 MEYER230	230	131122 WTHRS230	230	1		-252.5	-540.0	-0.09721		0.02619	0.00031	111.8	112.7		
				C:LKWANA-OXBW					1651										
				Open 417 OXBOW	230	3070 LACKAWNA	230	1											
21294	2957.6	3727.8	L:	137200 EDIC	345	137452 N.SCOT77	345	1		819.4	1331.0	0.17297		0.18340	0.17297	819.4	1329.0		
				Base Case															
21298	2963.6	3730.5	L:	135850 SOUR-114	115	135876 TELRDTP1	115	1		-85.6	-180.0	-0.03187		0.01366	-0.04091	-92.7	-213.2		
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1											
21300	2969.6	3733.3	L:	137451 LEEDS 3	345	137455 ATHENS	345	1		983.0	1725.0	0.24987		-0.01185	0.00000	-0.0	-0.0		
				C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	120										
				Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2											
21301	2970.8	3733.8	L:	135858 GOLAH115	115	135862 MUMFORD1	115	1		-64.0	-173.0	-0.03670		-0.02823	0.00241	-652.6	-645.5		
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1											
21302	2971.2	3734.0	L:	130836 N.WAV115	115	131018 LOUNS115	115	1		-7.4	173.0	0.06073		-0.04206	0.19221	524.7	1095.7		
				C:BUS:WATERCURE_230					1633										
				Open 130768 WATRC230	230	130772 SHRED230	230	1											
				Open 130757 WATRC345	345	130768 WATRC230	230	1											
				Open 130763 HILSD230	230	130768 WATRC230	230	1											
21312	2990.1	3742.6	L:	130770 SHLDN230	230	131122 WTHRS230	230	1		259.6	540.0	0.09377		0.24198	0.05141	71.0	223.8		

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, APR 29 2009 18:07
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
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 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From ON_E_EXP To GHI_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 26635 violations

Interface-1 Interface 30 CE+Fras-gilb Init.Flow= 2600.43 TDF= 0.6430

N	FCITC IntFcel L: Limiting constraint	C: Contingency description	Ncon	PreShift Flow	MW Rating	TDF	LODF	PTDF =Base Case Flow=	
								Init	Final
1	-170280.-106884.	L: Interface 21 PJM-WEST		5137.7	0.0	0.03017		0.04805	5112.7 -3068.8
		C:SER:C398/NWES	1605						
		Open 409 GROVER 230 200675 E.TWANDA	230 1			0.06509	0.00120	-15.6	-220.3
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.17346	-0.07609	117.6	13073.5
		Open 381 TOWANDA 115 200675 E.TWANDA	230 1			0.01304	-0.00618	-52.1	1000.5
		Open 130836 N.WAV115 115 200676 E.SAYRE	115 1			0.14744	-0.03170	43.0	5441.6
2	-170055.-106740.	L: Interface 21 PJM-WEST		5139.3	0.0	0.03022		0.04805	5112.7 -3058.0
		C:SER:ETHS/NWES	1606						
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.17144	-0.07609	117.6	13056.4
		Open 130836 N.WAV115 115 200676 E.SAYRE	115 1			0.15082	-0.03170	43.0	5434.5
3	-151727.-94955.3	L: Interface 21 PJM-WEST		5133.5	0.0	0.03383		0.04805	5112.7 -2177.3
		C:ETHS/LLGD	1649						
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.13801	-0.07609	117.6	11661.8
		Open 130807 GOUDY115 115 200680 LAUREL L	115 1			0.12187	-0.03046	38.0	4659.2
4	-133033.-82935.6	L: Interface 21 PJM-WEST		5127.4	0.0	0.03854		0.04805	5112.7 -1279.1
		C:130763 HILSD230 230 200675 E.TWANDA	230 1 1375						
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.12492	-0.07609	117.6	10239.5
5	-125291.-77957.7	L: Interface 21 PJM-WEST		5123.5	0.0	0.04089		0.04805	5112.7 -907.2
		C:130763 HILSD230 230 130768 WATRC230	230 1 219						

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		Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.19432	-0.07609	117.6	3155.4
		Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.17004	-0.03046	38.0	1254.0
1767	-38666.3-22260.8	L: Interface	20	PJM-CENT			3966.3	0.0	0.10258		0.10258	3269.0 -697.2
		C:GEN:PEACHBTM					1568					
		Remove unit 1	from bus	34 PCHBTM 2	22.0	1060.3	MW	dispatch				
1768	-38162.8-21937.0	L: Interface	20	PJM-CENT			3914.6	0.0	0.10258		0.10258	3269.0 -645.6
		C:GEN:SALEM					1567					
		Remove unit 1	from bus	36 SALEM-G1	22.0	1117.3	MW	dispatch				
1769	-36926.5-21142.2*L:	Interface	20	PJM-CENT			3787.8	0.0	0.10258		0.10258	3269.0 -518.7
		C:SIN:250					1677					
		Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1
		Remove unit 3	from bus	103563 MILL#3	24.0	1276.0	MW	dispatch				
3523	-7163.4 -2005.4	L: Interface	47	C-PJMWest			-477.5	-0.0	-0.06666		-0.11289	-543.5 265.2
		C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
		Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.25044	-0.18460	-263.5	1058.8
3524	-7163.4 -2005.4	L: Interface	48	PJMWest-C			477.5	0.0	0.06666		0.11289	543.5 -265.2
		C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
		Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.25044	-0.18460	-263.5	1058.8
3525	-5980.8 -1245.0	L: Interface	47	C-PJMWest			-595.1	-0.0	-0.09950		-0.11289	-543.5 131.7
		C:SIN:120					1667					
		Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			-0.00658	-0.14056	786.0	1626.7
		Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			-0.00658	-0.14056	786.0	1626.7
		Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.04985	0.23155	39.8	-1345.0
		Open 126263 BUCHANAN S	345	147832 IP3 345	345	1					NA	
		Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1					NA	
		Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2					NA	
		Remove unit 1	from bus	147798 IP#3 GEN	22.0	1072.8	MW	dispatch				
3526	-5980.8 -1245.0	L: Interface	47	C-PJMWest			-595.1	-0.0	-0.09950		-0.11289	-543.5 131.7
		C:SIN:130					1668					
		Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			-0.00658	-0.14056	786.0	1626.7
		Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			-0.00658	-0.14056	786.0	1626.7
		Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.04985	0.23155	39.8	-1345.0
		Open 126263 BUCHANAN S	345	147832 IP3 345	345	1					NA	
		Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1					NA	
		Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2					NA	
		Remove unit 1	from bus	147798 IP#3 GEN	22.0	1072.8	MW	dispatch				
3527	-5980.8 -1245.0	L: Interface	48	PJMWest-C			595.1	0.0	0.09950		0.11289	543.5 -131.7
		C:SIN:130					1668					
		Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00658	-0.14056	786.0	1626.7
		Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00658	-0.14056	786.0	1626.7
		Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			-0.04985	0.23155	39.8	-1345.0
		Open 126263 BUCHANAN S	345	147832 IP3 345	345	1					NA	
		Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1					NA	
		Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2					NA	
		Remove unit 1	from bus	147798 IP#3 GEN	22.0	1072.8	MW	dispatch				
3528	-5980.8 -1245.0	L: Interface	48	PJMWest-C			595.1	0.0	0.09950		0.11289	543.5 -131.7
		C:SIN:120					1667					
		Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00658	-0.14056	786.0	1626.7

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			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00658	-0.14056	786.0	1626.7	
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.04985	0.23155	39.8	-1345.0	
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1		NA					
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		NA					
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		NA					
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch						
3529	-5810.2	-1135.4	L: Interface	48	PJMWest-C		483.1			0.0	0.08315		0.11289	543.5	-112.4
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755	OAKDL345	345	1			0.10463	-0.28430	-577.5	1074.3	
3530	-5810.2	-1135.4	L: Interface	47	C-PJMWest		-483.1			-0.0	-0.08315		-0.11289	-543.5	112.4
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755	OAKDL345	345	1			-0.10463	-0.28430	-577.5	1074.3	
3531	-5639.9	-1025.8	L: Interface	48	PJMWest-C		584.9			0.0	0.10370		0.11289	543.5	-93.2
			C:GEN:IND PT 3-New						1773						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1			0.00000	-0.11639	522.5	1178.9	
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2			-0.03969	0.23155	-1041.8	-2347.7	
3532	-5639.9	-1025.8	L: Interface	47	C-PJMWest		-584.9			-0.0	-0.10370		-0.11289	-543.5	93.2
			C:GEN:IND PT 3-New						1773						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1			0.00000	-0.11639	522.5	1178.9	
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2			0.03969	0.23155	-1041.8	-2347.7	
3533	-5597.7	-998.7	L: Interface	48	PJMWest-C		616.8			-0.0	0.11019		0.11289	543.5	-88.4
			C:SER:HC-SR_37&W-F_171						1600						
			Open 135398 SW345	345	200769	HOMER CY	345	1			-0.18773	0.01417	-378.4	-457.7	
			Open 135277 FALCONER	115	200579	WARREN	115	1			-0.06276	0.00066	-35.9	-39.6	
3534	-5597.7	-998.7	L: Interface	47	C-PJMWest		-616.8			0.0	-0.11019		-0.11289	-543.5	88.4
			C:SER:HC-SR_37&W-F_171						1600						
			Open 135398 SW345	345	200769	HOMER CY	345	1			0.18773	0.01417	-378.4	-457.7	
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.06276	0.00066	-35.9	-39.6	
3535	-5587.3	-992.0	L: Interface	48	PJMWest-C		582.5			-0.0	0.10426		0.11289	543.5	-87.2
			C:GEN:IND PT 2-New						1772						
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	1			0.00000	0.11287	-509.2	-1139.8	
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	2			-0.03827	0.22573	-1018.4	-2279.7	
3536	-5587.3	-992.0	L: Interface	47	C-PJMWest		-582.5			0.0	-0.10426		-0.11289	-543.5	87.2
			C:GEN:IND PT 2-New						1772						
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	1			0.00000	0.11287	-509.2	-1139.8	
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	2			0.03827	0.22573	-1018.4	-2279.7	
3537	-5561.3	-975.3	L: Interface	47	C-PJMWest		-629.8			-0.0	-0.11325		-0.11289	-543.5	84.3
			C:HQ-NY-765-New						1776						
			Open 147827 MARCY765	765	147828	MASS 765	765	1							NA
			Open 147828 MASS 765	765	180819	CHA-NY	765	1							NA
			Open 147827 MARCY765	765	147833	MARCY T1	345	1			-0.02483	0.00775	624.7	581.6	
			Open 147827 MARCY765	765	147833	MARCY T1	345	2			-0.02483	0.00674	543.6	506.1	
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1							NA
			Open 147838 MASS230B	230	147839	MOSES E	230	1			0.00000	-0.00725	10.3	50.6	
			Open 147828 MASS 765	765	147838	MASS230B	230	1							NA
			Open 147837 MASS230A	230	147839	MOSES E	230	1			0.05514	0.00000	18.8	18.8	
			Open 147828 MASS 765	765	147837	MASS230A	230	1							NA
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1							NA

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			Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA						
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch						
3538	-5561.3	-975.3	L: Interface	48	PJMWest-C					629.8	0.0	0.11325		0.11289	543.5	-84.3		
			C:HQ-NY-765-New							1776								
			Open	147827	MARCY765	765	147828	MASS	765	765	1	NA						
			Open	147828	MASS 765	765	180819	CHA-NY		765	1	NA						
			Open	147827	MARCY765	765	147833	MARCY	T1	345	1		0.02483	0.00775	624.7	581.6		
			Open	147827	MARCY765	765	147833	MARCY	T1	345	2		0.02483	0.00674	543.6	506.1		
			Open	156	MCY765SW	0.0	147827	MARCY765		765	1	NA						
			Open	147838	MASS230B	230	147839	MOSES	E	230	1		-0.00000	-0.00725	10.3	50.6		
			Open	147828	MASS 765	765	147838	MASS230B		230	1	NA						
			Open	147837	MASS230A	230	147839	MOSES	E	230	1		-0.05514	0.00000	18.8	18.8		
			Open	147828	MASS 765	765	147837	MASS230A		230	1	NA						
			Open	158	MS765SW2	0.0	147828	MASS	765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA						
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch						
3539	-5535.2	-958.5	L: Interface	47	C-PJMWest					-610.9	0.0	-0.11037		-0.11289	-543.5	81.4		
			C:135398	SW345	345	200769	HOMER	CY	345	1	1380							
			Open	135398	SW345	345	200769	HOMER	CY	345	1		0.17809	0.01417	-378.4	-456.8		
3540	-5535.2	-958.5	L: Interface	48	PJMWest-C					610.9	-0.0	0.11037		0.11289	543.5	-81.4		
			C:135398	SW345	345	200769	HOMER	CY	345	1	1380							
			Open	135398	SW345	345	200769	HOMER	CY	345	1		-0.17809	0.01417	-378.4	-456.8		
3541	-5527.9	-953.8	*L: Interface	47	C-PJMWest					-624.1	0.0	-0.11289		-0.11289	-543.5	80.5		
			C:GEN:9	MI	PT2					1561								
			Remove	unit	2	from	bus	136700	9M	PT	2G	25.0	1197.5	MW	dispatch			
3542	-5527.9	-953.8	*L: Interface	48	PJMWest-C					624.1	-0.0	0.11289		0.11289	543.5	-80.5		
			C:GEN:9	MI	PT2					1561								
			Remove	unit	2	from	bus	136700	9M	PT	2G	25.0	1197.5	MW	dispatch			
3561	-5253.5	-777.4	L: Interface	56	NYE-PJMEnoRE					-1496.2	-1287.0	-0.03981		-0.00000	-1299.1	-1299.1		
			C:SER:HC-WC_30&W-F_171							1601								
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1		0.35346	-0.11289	-543.5	49.6		
			Open	135277	FALCONER	115	200579	WARREN		115	1		0.13824	0.00066	-35.9	-39.4		
3562	-5253.5	-777.4	L: Interface	55	PJME-NYEnoRE					1496.2	1287.0	0.03981		0.00000	1299.1	1299.1		
			C:SER:HC-WC_30&W-F_171							1601								
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1		-0.35346	-0.11289	-543.5	49.6		
			Open	135277	FALCONER	115	200579	WARREN		115	1		-0.13824	0.00066	-35.9	-39.4		
3581	-5118.4	-690.5	L: Interface	55	PJME-NYEnoRE					1490.4	1287.0	0.03973		0.00000	1299.1	1299.1		
			C:130757	WATRC345	345	200769	HOMER	CY	345	1	1374							
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1		-0.35195	-0.11289	-543.5	34.3		
3582	-5118.4	-690.5	L: Interface	56	NYE-PJMEnoRE					-1490.4	-1287.0	-0.03973		-0.00000	-1299.1	-1299.1		
			C:130757	WATRC345	345	200769	HOMER	CY	345	1	1374							
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1		0.35195	-0.11289	-543.5	34.3		

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			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.10670	-0.03170	43.0	148.6
7067	-3331.5	458.4	L: Interface 26 ONTARIO-MICH				753.1		-0.0	0.22604		0.23760	736.0	-55.6
			C:SER:C398/NWES					1605						
			Open 409 GROVER	230	200675	E.TWANDA	230	1			0.00017	0.00120	-15.6	-19.6
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.10753	-0.07609	117.6	371.1
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1			0.00253	-0.00618	-52.1	-31.5
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.10604	-0.03170	43.0	148.6
7068	-3277.0	493.4	L: Interface 26 ONTARIO-MICH				749.1		0.0	0.22860		0.23760	736.0	-42.6
			C:ETHS/LLGD					1649						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.08368	-0.07609	117.6	367.0
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.08652	-0.03046	38.0	137.8
7069	-3269.8	498.0	L: Interface 26 ONTARIO-MICH				762.5		-0.0	0.23319		0.23760	736.0	-40.9
			C:W44LC					1642						
			Open 160062 LONGWOOD	220	160074	COWALJ44	220	1			-0.16056	0.02255	189.2	115.5
			Open 160074 COWALJ44	220	160134	BUCHJW44	220	1			0.16303	-0.00487	334.4	350.3
			Open 160054 BUCHANAN	220	160134	BUCHJW44	220	1			-0.00035	0.00487	-256.1	-272.1
			Open 160055 CHATHAM	220	160074	COWALJ44	220	1			0.71981	0.00000	3.1	3.1
7070	-3269.6	498.2	L: Interface 26 ONTARIO-MICH				762.5		-0.0	0.23320		0.23760	736.0	-40.9
			C:W45LC					1643						
			Open 160062 LONGWOOD	220	160075	COWALJ45	220	1			-0.16050	0.02252	189.2	115.6
			Open 160075 COWALJ45	220	160135	BUCHJW45	220	1			0.16297	-0.00486	334.3	350.2
			Open 160054 BUCHANAN	220	160135	BUCHJW45	220	1			-0.00035	0.00486	-262.5	-278.3
			Open 160055 CHATHAM	220	160075	COWALJ45	220	1			0.71977	0.00000	3.1	3.1
7071	-3249.2	511.3	L: Interface 26 ONTARIO-MICH				771.6		0.0	0.23747		0.23760	736.0	-36.0
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392					
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1			-0.05454	0.00241	-652.6	-660.4
7072	-3242.6	515.5	L: Interface 26 ONTARIO-MICH				721.7		-0.0	0.22256		0.23760	736.0	-34.5
			C:LKWANA-OXBW					1651						
			Open 417 OXBOW	230	3070	LACKAWNA	230	1			0.11958	-0.12579	-119.7	288.2
7073	-3230.1	523.6	L: Interface 26 ONTARIO-MICH				770.8		0.0	0.23863		0.23760	736.0	-31.5
			C:130755 OAKDL345	345	131128	LAPEER	345	1	209					
			Open 130755 OAKDL345	345	131128	LAPEER	345	1			-0.06047	-0.01699	-575.7	-520.9
7074	-3218.7	530.9	*L: Interface 26 ONTARIO-MICH				749.2		-0.0	0.23278		0.23760	736.0	-28.8
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL					1650						
			Open 505 SHELOCTA	230	521	KEYSTONE	230	1			0.08784	-0.04530	50.1	195.9
			Open 473 BLAIRSVL	138	235253	01SOCIAL	138	1			0.08830	-0.00962	100.2	131.2
8774	-2966.6	693.0	L: Interface 55 PJME-NYEnoRE				1477.4	1287.0	0.06418			0.00000	1299.1	1299.1
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.44167	-0.11289	-543.5	-208.6
			Open 130757 WATRC345	345	130768	WATRC230	230	1			-0.19968	-0.07170	257.6	470.3
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			-0.45967	0.00000	22.4	22.4
8775	-2966.6	693.0	L: Interface 56 NYE-PJMEEnoRE				-1477.4	-1287.0	-0.06418			-0.00000	-1299.1	-1299.1
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.44167	-0.11289	-543.5	-208.6
			Open 130757 WATRC345	345	130768	WATRC230	230	1			0.19968	-0.07170	257.6	470.3
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.45967	0.00000	22.4	22.4
8804	-2747.2	834.1	L: Interface 52 PJMEast-G				118.3		-0.0	0.04306		0.00000	0.4	0.4
			C:BUS:WATERCURE_345					1632						

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				C:LKWANA-OXBW									1651					
				Open	417	OXBOW	230	3070	LACKAWNA	230	1			0.54564	-0.12579	-119.7	22.1	
8850	-960.7	1982.7	L:	Interface	52	PJMEast-G						45.9	0.0	0.04781	0.00000	0.4	0.4	
				C:LKWANA-OXBW														
				Open	417	OXBOW	230	3070	LACKAWNA	230	1				-0.38004	-0.12579	-119.7	1.1
8851	-960.7	1982.7	L:	Interface	51	G-PJMEast						-45.9	-0.0	-0.04781	-0.00000	-0.4	-0.4	
				C:LKWANA-OXBW														
				Open	417	OXBOW	230	3070	LACKAWNA	230	1				0.38004	-0.12579	-119.7	1.1
8852	-403.5	2341.0	L:	126294	PLTVLLEY	345	137451	LEEDS	3	345	2	-1828.7	-1725.0	-0.25696	-0.18097	-1281.0	-1208.0	
				C:126294	PLTVLLEY	345	137455	ATHENS		345	1	121						
				Open	126294	PLTVLLEY	345	137455	ATHENS	345	1				0.44128	-0.17221	-1241.0	-1171.5
8853	-263.1	2431.3	L:	126294	PLTVLLEY	345	137455	ATHENS		345	1	-1790.7	-1725.0	-0.24987	-0.17221	-1241.0	-1195.7	
				C:126294	PLTVLLEY	345	137451	LEEDS	3	345	2	120						
				Open	126294	PLTVLLEY	345	137451	LEEDS	3	345	2			0.42910	-0.18097	-1281.0	-1233.4
8854	276.1	2777.9	L:	126294	PLTVLLEY	345	137451	LEEDS	3	345	2	-1281.0	-1331.0	-0.18097				
				Base Case														
8855	396.2	2855.2	L:	Interface	14	Leeds-PV						2522.1	2662.0	0.35318				
				Base Case														
8856	402.4	2859.2	L:	Interface	50	PJMCentral-C						-61.6	0.0	0.15314	0.13825	-198.6	-142.9	
				C:SER:HCWC/NWES														
				Open	130757	WATRC345	345	200769	HOMER	CY	345	1			-0.22559	-0.11289	-543.5	-589.0
				Open	130836	N.WAV115	115	200676	E.SAYRE	115	1				0.33367	-0.03170	43.0	30.2
8857	402.4	2859.2	L:	Interface	49	C-PJMCentral						61.6	-0.0	-0.15314	-0.13825	198.6	142.9	
				C:SER:HCWC/NWES														
				Open	130757	WATRC345	345	200769	HOMER	CY	345	1			0.22559	-0.11289	-543.5	-589.0
				Open	130836	N.WAV115	115	200676	E.SAYRE	115	1				-0.33367	-0.03170	43.0	30.2
8858	402.5	2859.2	L:	Interface	49	C-PJMCentral						66.5	0.0	-0.16512	-0.13825	198.6	142.9	
				C:SER:HC-WC_30&W-F_171														
				Open	130757	WATRC345	345	200769	HOMER	CY	345	1			0.23847	-0.11289	-543.5	-589.0
				Open	135277	FALCONER	115	200579	WARREN	115	1				0.06952	0.00066	-35.9	-35.6
8859	402.5	2859.2	L:	Interface	50	PJMCentral-C						-66.5	-0.0	0.16512	0.13825	-198.6	-142.9	
				C:SER:HC-WC_30&W-F_171														
				Open	130757	WATRC345	345	200769	HOMER	CY	345	1			-0.23847	-0.11289	-543.5	-589.0
				Open	135277	FALCONER	115	200579	WARREN	115	1				-0.06952	0.00066	-35.9	-35.6
8860	420.3	2870.6	L:	Interface	50	PJMCentral-C						-69.4	0.0	0.16508	0.13825	-198.6	-140.5	
				C:130757	WATRC345	345	200769	HOMER	CY	345	1	1374						
				Open	130757	WATRC345	345	200769	HOMER	CY	345	1			-0.23771	-0.11289	-543.5	-591.0
8861	420.3	2870.6	L:	Interface	49	C-PJMCentral						69.4	-0.0	-0.16508	-0.13825	198.6	140.5	
				C:130757	WATRC345	345	200769	HOMER	CY	345	1	1374						
				Open	130757	WATRC345	345	200769	HOMER	CY	345	1			0.23771	-0.11289	-543.5	-591.0
8862	500.4	2922.2	L:	Interface	50	PJMCentral-C						-70.0	0.0	0.13981	0.13825	-198.6	-129.4	
				C:BUS:WATERCURE_345														
				Open	130757	WATRC345	345	200769	HOMER	CY	345	1			-0.14495	-0.11289	-543.5	-600.0
				Open	130757	WATRC345	345	130768	WATRC230	230	1				0.20645	-0.07170	257.6	221.7
				Open	130755	OAKDL345	345	130757	WATRC345	345	1				-0.14892	0.00000	22.4	22.4
8863	500.4	2922.2	L:	Interface	49	C-PJMCentral						70.0	-0.0	-0.13981	-0.13825	198.6	129.4	
				C:BUS:WATERCURE_345														
				Open	130757	WATRC345	345	200769	HOMER	CY	345	1			0.14495	-0.11289	-543.5	-600.0

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				Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.20645	-0.07170	257.6	221.7		
				Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.14892	0.00000	22.4	22.4		
8864	522.4	2936.3	L:	126294 PLTVLLEY	345	137455 ATHENS	345	1		-1241.0	-1331.0	-0.17221			
				Base Case											
8865	550.1	2954.1	L:	146758 CHESTER	138	146771 SHOEM138	138	1		-286.6	-317.0	-0.05527	-0.03004	-161.7	-178.2
			C:	125001 ROCK TAV	345	126297 RAMAPO	345	1	7						
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1							
8866	550.1	2954.1	L:	146758 CHESTER	138	146771 SHOEM138	138	1		-286.6	-317.0	-0.05527	-0.03004	-161.7	-178.2
			C:	SIN:440					1683						
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1							
8867	637.3	3010.2	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1577.7	-1725.0	-0.23112	-0.18097	-1281.0	-1396.4
			C:	125000 HURLEY 3	345	137451 LEEDS 3	345	1	3						
				Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1							
8868	773.6	3097.8	L:	Interface	14	Leeds-PV				3101.0	3450.0	0.45107	0.35318	2522.1	2795.3
			C:	125000 HURLEY 3	345	137451 LEEDS 3	345	1	3						
				Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1							
8869	780.1	3102.0	L:	Interface	50	PJMCentral-C				-107.9	0.0	0.13825	0.13825	-198.6	-90.7
			C:	GEN:9 MI PT2					1561						
				Remove unit 2	from bus	136700 9M PT 2G	25.0	1197.5	MW	dispatch					
8870	780.1	3102.0	L:	Interface	49	C-PJMCentral				107.9	-0.0	-0.13825	-0.13825	198.6	90.7
			C:	GEN:9 MI PT2					1561						
				Remove unit 2	from bus	136700 9M PT 2G	25.0	1197.5	MW	dispatch					
8871	822.9	3129.5	L:	Interface	49	C-PJMCentral				114.0	0.0	-0.13848	-0.13825	198.6	84.8
			C:	HQ-NY-765-New					1776						
				Open 147827 MARCY765	765	147828 MASS 765	765	1							
				Open 147828 MASS 765	765	180819 CHA-NY	765	1							
				Open 147827 MARCY765	765	147833 MARCY T1	345	1							
				Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.01633	0.00775	624.7	631.1		
				Open 156 MCY765SW	0.0	147827 MARCY765	765	1							
				Open 147838 MASS230B	230	147839 MOSES E	230	1							
				Open 147828 MASS 765	765	147838 MASS230B	230	1							
				Open 147837 MASS230A	230	147839 MOSES E	230	1							
				Open 147828 MASS 765	765	147837 MASS230A	230	1							
				Open 158 MS765SW2	0.0	147828 MASS 765	765	1							
				Open 157 MS765SW1	0.0	147828 MASS 765	765	1							
				Decrease bus 180001 BEA-DLX	13.8	generation by				100.0	percent	dispatch			
				Set bus 181319 CHAT G3	120	load to				357.0	MW	dispatch			
				Decrease bus 180002 BEA-DL	13.8	generation by				100.0	percent	dispatch			
				Set bus 181419 CHAT G4	120	load to				357.0	MW	dispatch			
8872	822.9	3129.5	L:	Interface	50	PJMCentral-C				-114.0	-0.0	0.13848	0.13825	-198.6	-84.8
			C:	HQ-NY-765-New					1776						
				Open 147827 MARCY765	765	147828 MASS 765	765	1							
				Open 147828 MASS 765	765	180819 CHA-NY	765	1							
				Open 147827 MARCY765	765	147833 MARCY T1	345	1							
				Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.01633	0.00775	624.7	631.1		
				Open 156 MCY765SW	0.0	147827 MARCY765	765	1							
				Open 147838 MASS230B	230	147839 MOSES E	230	1							
				Open 147828 MASS 765	765	147838 MASS230B	230	1							

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			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.05989	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch					
8873	888.2	3171.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			-1566.9	-1725.0	-0.17796	-0.18097 -1281.0 -1441.8
			C:SIN:430					1682					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18979	-0.01585	1506.4	1492.3
8874	888.2	3171.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			-1566.9	-1725.0	-0.17796	-0.18097 -1281.0 -1441.8
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18979	-0.01585	1506.4	1492.3
8875	916.8	3189.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1			-1523.3	-1725.0	-0.21994	-0.17221 -1241.0 -1398.9
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3					
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1			0.31397	-0.15203	-899.2	-1038.6
8876	944.8	3207.9	L: Interface 50 PJMCentral-C							-130.6	-0.0	0.13825	0.13825 -198.6 -68.0
			C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78					
			Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1			0.06789	0.00000	1001.1	1001.1
8877	944.8	3207.9	L: Interface 49 C-PJMCentral							130.6	0.0	-0.13825	-0.13825 198.6 68.0
			C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78					
			Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1			-0.06789	0.00000	1001.1	1001.1
8878	944.8	3207.9	L: Interface 50 PJMCentral-C							-130.6	0.0	0.13825	0.13825 -198.6 -68.0
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351					
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1			0.06789	0.00000	1001.1	1001.1
8879	944.8	3207.9	L: Interface 49 C-PJMCentral							130.6	-0.0	-0.13825	-0.13825 198.6 68.0
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351					
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1			-0.06789	0.00000	1001.1	1001.1
8880	947.1	3209.4	L: 130750 COOPC345	345	130753 FRASR345	345	1			-997.1	-1207.0	-0.22164	
			Base Case										
8881	983.6	3232.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			-1472.2	-1725.0	-0.25696	-0.18097 -1281.0 -1459.0
			C:137451 LEEDS 3	345	137455 ATHENS	345	1	1006					
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1			-0.44128	0.17221	433.3	602.7
8882	1000.4	3243.7	L: Interface 50 PJMCentral-C							-138.1	0.0	0.13802	0.13825 -198.6 -60.3
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392					
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			-0.09272	0.00241	-652.6	-650.1
8883	1000.4	3243.7	L: Interface 49 C-PJMCentral							138.1	-0.0	-0.13802	-0.13825 198.6 60.3
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392					
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			0.09272	0.00241	-652.6	-650.1
8884	1000.6	3243.8*L:	Interface 50 PJMCentral-C							-153.8	0.0	0.15373	0.13825 -198.6 -60.2
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221					
			Open 130764 MEYER230	230	131122 WTHRS230	230	1			-0.18761	-0.08254	-238.5	-321.1
8885	1000.6	3243.8*L:	Interface 49 C-PJMCentral							153.8	-0.0	-0.15373	-0.13825 198.6 60.2
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221					
			Open 130764 MEYER230	230	131122 WTHRS230	230	1			0.18761	-0.08254	-238.5	-321.1
8894	1065.2	3285.3	L: Interface 14 Leeds-PV							3080.0	3450.0	0.34731	0.35318 2522.1 2898.3
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10					

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			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.37040	-0.01585	1506.4	1489.5	
8895	1065.2	3285.3	L: Interface 14 Leeds-PV					3080.0	3450.0	0.34731		0.35318	2522.1	2898.3
			C:SIN:430				1682							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.37040	-0.01585	1506.4	1489.5	
8906	1135.0	3330.2	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1474.4	-1725.0	-0.22077		-0.18097	-1281.0	-1486.4
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.29333	0.13569	659.3	813.3
8909	1144.5	3336.3	*L: Interface 56 NYE-PJMENoRE					-1241.3	-1287.0	-0.03989		-0.00000	-1299.1	-1299.1
			C:ETHS/LLGD				1649							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.35117	-0.07609	117.6	30.5	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.43249	-0.03046	38.0	3.1	
8910	1144.5	3336.3	*L: Interface 55 PJME-NYEnoRE					1241.3	1287.0	0.03989		0.00000	1299.1	1299.1
			C:ETHS/LLGD				1649							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.35117	-0.07609	117.6	30.5	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			-0.43249	-0.03046	38.0	3.1	
8927	1186.2	3363.1	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05527		0.03004	126.6	162.2
			C:SIN:440				1683							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.11202	0.22519	1114.8	1381.9	
8928	1186.2	3363.1	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05527		0.03004	126.6	162.2
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.11202	0.22519	1114.8	1381.9	
8933	1215.1	3381.7	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08226		-0.05014	-448.0	-509.0
			C:SIN:440				1683							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14263	0.22519	1114.8	1388.4	
8934	1215.1	3381.7	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08226		-0.05014	-448.0	-509.0
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14263	0.22519	1114.8	1388.4	
8939	1251.2	3404.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16935		-0.17221	-1241.0	-1456.5
			C:SIN:430				1682							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18061	-0.01585	1506.4	1486.5	
8940	1251.2	3404.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16935		-0.17221	-1241.0	-1456.5
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18061	-0.01585	1506.4	1486.5	
8947	1277.6	3421.9	L: Interface 14 Leeds-PV					2899.5	3450.0	0.43086		0.35318	2522.1	2973.3
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1			0.57248	0.13569	659.3	832.7	
8962	1314.1	3445.4	L: 130794 DELHI115	115	130804 DEL T115	115	1	68.4	164.0	0.07275		0.03934	0.5	52.2
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			-0.11754	-0.28430	-577.5	-951.1	
9003	1373.8	3483.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1317.8	-1703.0	-0.28039		-0.22164	-997.1	-1301.6
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.43391	-0.13539	-739.1	-925.1	
9004	1374.2	3484.0	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1348.1	-1724.0	-0.27354		-0.17513	-863.0	-1103.7
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2	1005						
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.56508	-0.17416	-858.5	-1097.8	
9009	1376.0	3485.2	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1430.3	-1725.0	-0.21415		-0.18097	-1281.0	-1530.1
			C:130750 COOPC345	345	130753 FRASR345	345	1	192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.14972	-0.22164	-997.1	-1302.1	

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9044	1388.4	3493.1	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1345.1	-1724.0	-0.27291	-0.17416	-858.5	-1100.3
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1 1004						
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.56388	-0.17513	-863.0	-1106.1
9191	1423.8	3515.9	L: Interface 52 PJMEast-G					-76.3	-0.0	0.05357	0.00000	0.4	0.4
			C:ETHS/NWES/LLGD									1648	
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.37609	-0.07609	117.6	9.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.38778	-0.03170	43.0	-2.2
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			-0.41556	-0.03046	38.0	-5.4
9192	1423.8	3515.9	L: Interface 51 G-PJMEast					76.3	0.0	-0.05357	-0.00000	-0.4	-0.4
			C:ETHS/NWES/LLGD									1648	
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.37609	-0.07609	117.6	9.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.38778	-0.03170	43.0	-2.2
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.41556	-0.03046	38.0	-5.4
9263	1427.6	3518.3	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1425.1	-1725.0	-0.21009	-0.17221	-1241.0	-1486.9
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1			-0.27915	0.13569	659.3	853.0
11946	1443.8	3528.7	*L: Interface 52 PJMEast-G					-48.0	-0.0	0.03322	0.00000	0.4	0.4
			C:SER:C398/NWES									1605	
			Open 409 GROVER	230	200675 E.TWANDA	230	1			-0.02734	0.00120	-15.6	-13.8
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.30865	-0.07609	117.6	7.8
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			-0.01228	-0.00618	-52.1	-61.1
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.30588	-0.03170	43.0	-2.8
11947	1443.8	3528.7	*L: Interface 51 G-PJMEast					48.0	0.0	-0.03322	-0.00000	-0.4	-0.4
			C:SER:C398/NWES									1605	
			Open 409 GROVER	230	200675 E.TWANDA	230	1			0.02734	0.00120	-15.6	-13.8
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.30865	-0.07609	117.6	7.8
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			0.01228	-0.00618	-52.1	-61.1
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.30588	-0.03170	43.0	-2.8
12090	1449.6	3532.5	L: 130817 JENN 115	115	130819 KATEL115	115	1	-107.6	-159.0	-0.03543	-0.01763	-71.5	-97.1
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			0.06259	-0.28430	-577.5	-989.6
12181	1456.2	3536.7	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-237.7	-317.0	-0.05443	-0.03004	-161.7	-205.5
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1 9						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.17871	-0.13649	-425.4	-624.1
12288	1494.2	3561.2	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1350.8	1793.0	0.29594	0.18663	874.1	1152.9
			C:125001 ROCK TAV	345	130750 COOPC345	345	2 8						
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2			-0.64149	-0.17040	-743.2	-997.8
12303	1523.1	3579.8	L: Interface 14 Leeds-PV					2813.4	3450.0	0.41794	0.35318	2522.1	3060.0
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			-0.29219	-0.22164	-997.1	-1334.7
12380	1643.6	3657.2	L: Interface 32 F-To-G					3713.3	4643.0	0.56566			
			Base Case										
12397	1677.7	3679.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1383.1	-1725.0	-0.20379	-0.17221	-1241.0	-1530.0
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.14248	-0.22164	-997.1	-1368.9
12406	1689.2	3686.5	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08226	0.05014	448.0	532.7
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.14263	0.22519	1114.8	1495.2

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12407	1689.2	3686.5	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08226	0.05014	448.0	532.7
			C:SIN:440				1683						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.14263	0.22519	1114.8	1495.2
12418	1726.7	3710.7	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-1008.0	-1345.0	-0.19516	-0.13539	-739.1	-972.9
			C:130750 COOPC345	345	130753 FRASR345	345	1	192					
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.26966	-0.22164	-997.1	-1379.8
12419	1739.2	3718.7	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1292.6	-1793.0	-0.28771	-0.17040	-743.2	-1039.5
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195					
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.62859	0.18663	874.1	1198.7
12420	1748.3	3724.5	L: 130817 JENN 115	115	130851 SIDNT115	115	1	53.9	120.0	0.03783	0.02108	19.8	56.7
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			-0.05894	-0.28430	-577.5	-1074.6
12423	1755.9	3729.5	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	46.7	143.0	0.05485	0.03523	18.7	80.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.10628	-0.18460	-263.5	-587.7
12424	1759.0	3731.4	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.3	173.0	0.04190	0.02814	78.2	127.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04986	0.27581	422.3	907.4
12427	1791.5	3752.3	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-44.7	-143.0	-0.05485	-0.03523	-16.7	-79.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.10628	-0.18460	-263.5	-594.2
12430	1828.9	3776.4	L: Interface 23 QFW					892.6	0.0	-0.48802	-0.48453	1095.5	209.3
			C:GEN:KINTIGH-New				1775						
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	1			0.00000	-0.00496	-288.5	-297.6
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	2			0.35120	-0.00994	-577.7	-595.9
12431	1855.0	3793.1	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.0	159.0	0.03556	0.02383	75.1	119.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04252	0.27581	422.3	933.9
12432	1862.5	3798.0	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1262.4	-1793.0	-0.28487	-0.17040	-743.2	-1060.5
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.55569	0.18663	874.1	1221.7
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.07885	-0.13649	-425.4	-679.6
12433	1873.1	3804.8	L: 130757 WATRC345	345	200769 HOMER CY	345	1	-543.5	-755.0	-0.11289			
			Base Case										
12434	1873.1	3804.8	L: Interface 47 C-PJMWest					-543.5	-755.0	-0.11289			
			Base Case										
12435	1873.1	3804.8	L: Interface 48 PJMWest-C					543.5	755.0	0.11289			
			Base Case										
12436	1879.0	3808.6	L: Interface 23 QFW					910.4	0.0	-0.48453	-0.48453	1095.5	185.0
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW								
12437	1881.9	3810.4	L: Interface 23 QFW					918.7	-0.0	-0.48817	-0.48453	1095.5	183.6
			C:HQ-NY-765-New				1776						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.25138	0.00775	624.7	639.3
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.25138	0.00674	543.6	556.3
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					

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			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00725	10.3	-3.3		
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1		-0.09617	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
12442	1903.5	3824.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1353.2	-1725.0	-0.19533	-0.18097	-1281.0	-1625.5
			C:SER:CMT34&MTR34				1593							
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1		-0.09362	0.18663	874.1	1229.3		
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1		-0.02277	-0.13649	-425.4	-685.2		
12443	1910.2	3828.6	L: 130819 KATEL115	115	130838 OAKDL115	115	1		-124.3	-192.0	-0.03543	-0.01763	-88.2	-121.9
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.06259	-0.28430	-577.5	-1120.6		
12444	1914.4	3831.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1353.2	-1725.0	-0.19419	-0.18097	-1281.0	-1627.5
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1		0.09769	-0.13539	-739.1	-998.3		
12445	1941.1	3848.5	L: Interface 23 QFW						940.5	0.0	-0.48453	-0.48453	1095.5	154.9
			C:GEN:GINNA				1562							
			Remove unit 1 from bus 149140 GINNA 19	19.0	605.0	MW	dispatch							
12446	1946.6	3852.0	L: 135872 SOUR-111	115	135873 SWDN-111	115	1		89.8	159.0	0.03556	0.02383	71.8	118.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		0.04252	0.27581	422.3	959.2		
12447	1956.3	3858.3	*L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1344.5	-1725.0	-0.19451	-0.18097	-1281.0	-1635.1
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1		-0.07257	0.18663	874.1	1239.2		
12448	1963.5	3862.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-772.3	-1380.0	-0.30950	-0.28430	-577.5	-1135.8
			C:130753 FRASR345	345	137200 EDIC	345	1	202						
			Open 130753 FRASR345	345	137200 EDIC	345	1		0.27558	-0.09144	-706.7	-886.3		
12451	1994.6	3882.9	L: Interface 23 QFW						966.4	-0.0	-0.48453	-0.48453	1095.5	129.0
			C:GEN:SEABROOK				1573							
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
12452	1994.6	3882.9	L: Interface 23 QFW						966.4	-0.0	-0.48453	-0.48453	1095.5	129.0
			C:GEN:SEAB&OMS				1575							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1		
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
12453	1995.7	3883.6	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1		-544.9	-707.0	-0.08123	-0.05014	-448.0	-548.1
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	9						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1		0.22773	-0.13649	-425.4	-697.7		
12454	2001.3	3887.2	L: Interface 23 QFW						969.7	0.0	-0.48453	-0.48453	1095.5	125.8
			C:SIN:250				1677							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1		
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
12455	2003.5	3888.6	L: Interface 23 QFW						970.7	0.0	-0.48453	-0.48453	1095.5	124.7
			C:GEN:MLS3&OMS				1574							

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			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
12456	2003.5	3888.6	L: Interface 23 QFW					970.7	0.0	-0.48453	-0.48453	1095.5	124.7
			C:GEN:MILLST 3				1572						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
12460	2023.9	3901.7	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.9	173.0	0.03609	0.02814	78.2	135.2
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04136	0.19221	524.7	913.7
12461	2025.3	3902.6	*L: Interface 23 QFW					972.3	-0.0	-0.48008	-0.48453	1095.5	114.1
			C:SER:HC-SR_37&W-F_171				1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1			0.30257	0.01417	-378.4	-349.7
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.24131	0.00066	-35.9	-34.6
12468	2060.7	3925.4	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1214.0	-1724.0	-0.24748	-0.17416	-858.5	-1217.4
			C:BUS:N.S._77				1614						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.60779	-0.04338	-248.0	-337.4
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.40443	0.00031	111.8	112.4
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.33531	0.17297	819.4	1175.9
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.26699	-0.04091	-92.7	-177.0
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.20561	0.00000	-0.0	-0.0
12470	2064.7	3928.0	L: Interface 14 Leeds-PV					2662.9	3450.0	0.38122	0.35318	2522.1	3251.3
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			0.18272	0.18663	874.1	1259.4
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.04443	-0.13649	-425.4	-707.2
12476	2076.6	3935.6	L: Interface 14 Leeds-PV					2663.0	3450.0	0.37899	0.35318	2522.1	3255.5
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196					
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			-0.19065	-0.13539	-739.1	-1020.3
12478	2092.5	3945.9	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-83.8	-173.0	-0.04261	-0.02862	-62.4	-122.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05070	0.27581	422.3	999.4
12479	2097.1	3948.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1082.7	-1703.0	-0.29579	-0.22164	-997.1	-1461.9
			C:130753 FRASR345	345	147831 GILB 345	345	1	203					
			Open 130753 FRASR345	345	147831 GILB 345	345	1			-0.39383	0.18828	217.4	612.3
12480	2102.1	3952.0	L: 146758 CHESTER	138	146773 SGRLF138	138	1	202.6	317.0	0.05443	0.03004	126.6	189.7
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	9					
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.17871	-0.13649	-425.4	-712.3
12482	2118.2	3962.4	L: Interface 14 Leeds-PV					2645.9	3450.0	0.37961	0.35318	2522.1	3270.2
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195					
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			0.14164	0.18663	874.1	1269.4
12486	2136.8	3974.3	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.6	159.0	0.03061	0.02383	75.1	126.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03527	0.19221	524.7	935.4
12490	2146.9	3980.8	L: 135452 LOCKPORT	115	135876 TELRDTP1	115	1	104.1	180.0	0.03537	0.02370	86.2	137.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04231	0.27581	422.3	1014.4
12503	2173.1	3997.7	L: Interface 14 Leeds-PV					2625.9	3450.0	0.37921	0.35318	2522.1	3289.6
			C:SER:PV_LM_398				1597						
			Open 103105 LONG MTN	345	103117 CTNY398	345	1			0.33673	0.07731	308.5	476.5
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			-0.23700	0.00000	0.2	0.2

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12504	2173.2	3997.7*L:	Interface	14	Leeds-PV				2625.9	3450.0	0.37921		0.35318	2522.1	3289.6
			C:103117 CTNY398	345	126294 PLTVLLEY	345	1	1362							
			Open 103117 CTNY398		345 126294 PLTVLLEY		345	1				0.33673	0.07731	308.3	476.3
12506	2173.5	3997.9 L:	130757 WATRC345	345	130768 WATRC230	230	1		455.1	600.0	0.06666		-0.07170	257.6	101.7
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					-0.74956	-0.18460	-263.5	-664.8
12528	2215.3	4024.8 L:	135850 SOUR-114	115	135861 MORTIMER	115	1		71.0	153.0	0.03701		0.02481	52.3	107.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.04425	0.27581	422.3	1033.3
12547	2234.2	4036.9 L:	126294 PLTVLLEY	345	137455 ATHENS	345	1		-1309.7	-1725.0	-0.18588		-0.17221	-1241.0	-1625.8
			C:SER:CMT34&MTR34					1593							
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1					-0.08910	0.18663	874.1	1291.0
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1					-0.02167	-0.13649	-425.4	-730.3
12557	2238.2	4039.5 L:	130836 N.WAV115	115	131018 LOUNTS115	115	1		50.2	173.0	0.05485		0.03523	22.2	101.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					-0.10628	-0.18460	-263.5	-676.7
12568	2243.3	4042.8 L:	135872 SOUR-111	115	135873 SWDN-111	115	1		90.3	159.0	0.03061		0.02383	71.8	125.3
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205							
			Open 130754 KINTI345	345	149000 ROCH 345	345	1					0.03527	0.19221	524.7	955.8
12586	2247.0	4045.2 L:	126294 PLTVLLEY	345	137455 ATHENS	345	1		-1309.8	-1725.0	-0.18480		-0.17221	-1241.0	-1628.0
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196							
			Open 130750 COOPC345	345	147833 MARCY T1	345	1					0.09296	-0.13539	-739.1	-1043.4
12589	2248.8	4046.4 L:	130750 COOPC345	345	130753 FRASR345	345	1		-1147.3	-1703.0	-0.24713		-0.22164	-997.1	-1495.5
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1007							
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1					0.16344	-0.15592	-918.9	-1269.5
13803	2262.5	4055.1 L:	130794 DELHI115	115	130851 SIDNT115	115	1		-35.8	-120.0	-0.03721		-0.02057	-2.0	-48.6
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200							
			Open 130753 FRASR345	345	130755 OAKDL345	345	1					0.05853	-0.28430	-577.5	-1220.7
14106	2271.3	4060.8 L:	135452 LOCKPORT	115	135851 SHEL-113	115	1		98.3	180.0	0.03598		0.02411	80.1	134.9
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.04302	0.27581	422.3	1048.7
14120	2272.8	4061.8 L:	146754 MDTN TAP	345	146772 SHOEMTAP	138	1		448.0	562.0	0.05014				
			Base Case												
14187	2280.2	4066.5 L:	137453 N.SCOT99	345	147833 MARCY T1	345	1		-1229.4	-1792.0	-0.24673		-0.18563	-916.1	-1339.3
			C:SIN:160					1670							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.35322	0.17297	819.4	1213.8
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					-0.19918	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1					-0.00023	-0.00032	74.8	74.1
14188	2280.2	4066.5 L:	137453 N.SCOT99	345	147833 MARCY T1	345	1		-1229.4	-1792.0	-0.24673		-0.18563	-916.1	-1339.3
			C:SIN:150					1669							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.35322	0.17297	819.4	1213.8
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					-0.19920	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1					-0.00016	-0.00021	88.8	88.3
14201	2284.9	4069.5 L:	Interface	59	MarcySouthS				1736.2	2552.0	0.35703				
			Base Case												
14211	2288.4	4071.8 L:	126294 PLTVLLEY	345	137455 ATHENS	345	1		-1301.4	-1725.0	-0.18510		-0.17221	-1241.0	-1635.1
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195							
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1					-0.06906	0.18663	874.1	1301.2

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14219	2293.7	4075.2	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	192.0	280.0	0.03835	0.02453	170.9	227.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.05011	0.27581	422.3	1054.9
14251	2319.5	4091.8	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-238.5	-430.0	-0.08254			
			Base Case										
14257	2334.0	4101.1	L: 130815 HINMN115	115	131611 HARSIS115	115	1	-218.9	-306.0	-0.03730	-0.02388	-198.4	-254.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04868	0.27581	422.3	1066.0
14267	2343.5	4107.2	*L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1291.7	-1725.0	-0.18491	-0.17221	-1241.0	-1644.6
			C:SER:PV_LM_398				1597						
			Open 103105 LONG MTN	345	103117 CTNY398	345	1			-0.16419	0.07731	308.5	489.7
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			0.11556	0.00000	0.2	0.2
14274	2349.3	4111.0	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1184.4	-1724.0	-0.22967	-0.17513	-863.0	-1274.4
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34981	-0.15592	-918.9	-1285.2
14305	2378.5	4129.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1180.0	-1724.0	-0.22872	-0.17416	-858.5	-1272.7
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34992	-0.15592	-918.9	-1289.7
14308	2383.0	4132.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-577.5	-1255.0	-0.28430			
			Base Case										
14339	2411.0	4150.6	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-84.5	-173.0	-0.03670	-0.02862	-62.4	-131.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04206	0.19221	524.7	988.1
14341	2414.0	4152.5	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1199.5	-1792.0	-0.24545	-0.18563	-916.1	-1364.2
			C:137200 EDIC	345	137452 N.SCOT77	345	1 946						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.34586	0.17297	819.4	1237.0
14352	2421.1	4157.1	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-656.6	-1380.0	-0.29879	-0.28430	-577.5	-1265.8
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.10700	-0.13539	-739.1	-1066.9
14447	2444.3	4172.0	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	228.6	430.0	0.08240			
			Base Case										
14450	2444.6	4172.2	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1149.2	1724.0	0.23515	0.17297	819.4	1242.3
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33494	-0.18563	-916.1	-1369.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19090	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00024	-0.00032	74.8	74.1
14451	2444.6	4172.2	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1149.2	1724.0	0.23515	0.17297	819.4	1242.3
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33494	-0.18563	-916.1	-1369.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19092	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00016	-0.00021	88.8	88.3
14523	2448.3	4174.6	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-301.9	-540.0	-0.09725	-0.08254	-238.5	-440.6
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.11957	-0.11289	-543.5	-819.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.03821	-0.03170	43.0	-34.6
14768	2452.5	4177.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.29779	-0.28430	-577.5	-1274.8
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.18563	-916.1	-1371.3

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				Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				-0.04702	0.00000	119.9	119.9		
				Open 137235	PORTER 1	115	147905	ILION	115	1				0.00061	-0.00021	88.8	88.3		
14771	2452.6	4177.4	L:	130753	FRASR345	345	130755	OAKDL345	345	1				-649.7	-1380.0	-0.29779	-0.28430	-577.5	-1274.8
				C:SIN:170						1671									
				Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				0.07265	-0.18563	-916.1	-1371.3		
				Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				-0.04710	0.00000	119.9	119.9		
				Open 137235	PORTER 1	115	137246	VALLEY	115	1				0.00092	-0.00032	74.8	74.1		
15893	2466.6	4186.4	L:	130753	FRASR345	345	130755	OAKDL345	345	1				-678.7	-1380.0	-0.28430	-0.28430	-577.5	-1278.8
				C:SIN:250						1677									
				Open 100508	SANDB115	115	100509	SB RCTOR	115	2				0.00002	0.00000	-0.1	-0.1		
				Remove unit 3	from bus	103563	MILL#3		24.0	1276.0	MW	dispatch							
15922	2474.0	4191.1	L:	130764	MEYER230	230	131122	WTHRS230	230	1				-302.8	-540.0	-0.09588	-0.08254	-238.5	-442.8
				C:130757	WATRC345	345	200769	HOMER CY	345	1	1374								
				Open 130757	WATRC345	345	200769	HOMER CY	345	1				0.11819	-0.11289	-543.5	-822.8		
15930	2475.8	4192.3	L:	146754	MDTN TAP	345	146772	SHOEMTAP	138	1				544.9	746.0	0.08123	0.05014	448.0	572.2
				C:125001	ROCK TAV	345	146754	MDTN TAP	345	1	9								
				Open 125001	ROCK TAV	345	146754	MDTN TAP	345	1				-0.22773	-0.13649	-425.4	-763.3		
15933	2476.1	4192.5	L:	135452	LOCKPORT	115	135876	TELRDTP1	115	1				104.6	180.0	0.03044	0.02370	86.2	144.9
				C:130754	KINTI345	345	149000	ROCH 345	345	1	205								
				Open 130754	KINTI345	345	149000	ROCH 345	345	1				0.03510	0.19221	524.7	1000.6		
15939	2479.3	4194.6	L:	130753	FRASR345	345	130755	OAKDL345	345	1				-642.5	-1380.0	-0.29746	-0.28430	-577.5	-1282.4
				C:137453	N.SCOT99	345	147833	MARCY T1	345	1	1012								
				Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				0.07092	-0.18563	-916.1	-1376.3		
15967	2494.2	4204.1	L:	130753	FRASR345	345	130755	OAKDL345	345	1				-640.6	-1380.0	-0.29645	-0.28430	-577.5	-1286.6
				C:SIN:150						1669									
				Open 137200	EDIC	345	137452	N.SCOT77	345	1				-0.07027	0.17297	819.4	1250.9		
				Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				-0.04606	0.00000	119.9	119.9		
				Open 137235	PORTER 1	115	147905	ILION	115	1				0.00061	-0.00021	88.8	88.3		
15968	2494.2	4204.2	L:	130753	FRASR345	345	130755	OAKDL345	345	1				-640.6	-1380.0	-0.29645	-0.28430	-577.5	-1286.6
				C:SIN:160						1670									
				Open 137200	EDIC	345	137452	N.SCOT77	345	1				-0.07027	0.17297	819.4	1250.9		
				Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				-0.04614	0.00000	119.9	119.9		
				Open 137235	PORTER 1	115	137246	VALLEY	115	1				0.00092	-0.00032	74.8	74.0		
15975	2497.8	4206.5	L:	130764	MEYER230	230	131122	WTHRS230	230	1				-300.6	-540.0	-0.09585	-0.08254	-238.5	-444.7
				C:SIN:171						1601									
				Open 130757	WATRC345	345	200769	HOMER CY	345	1				0.11761	-0.11289	-543.5	-825.5		
				Open 135277	FALCONER	115	200579	WARREN	115	1				-0.05269	0.00066	-35.9	-34.3		
15986	2501.7	4209.0	L:	130753	FRASR345	345	130755	OAKDL345	345	1				-668.8	-1380.0	-0.28430	-0.28430	-577.5	-1288.8
				C:GEN:SEABROOK						1573									
				Remove unit 1	from bus	102869	SBRK G1		25.0	1318.0	MW	dispatch							
15987	2501.7	4209.0	*L:	130753	FRASR345	345	130755	OAKDL345	345	1				-668.8	-1380.0	-0.28430	-0.28430	-577.5	-1288.8
				C:GEN:SEAB&OMS						1575									
				Open 100508	SANDB115	115	100509	SB RCTOR	115	2				0.00002	0.00000	-0.1	-0.1		
				Remove unit 1	from bus	102869	SBRK G1		25.0	1318.0	MW	dispatch							
15990	2505.9	4211.6	L:	131018	LOUNSI15	115	131850	CNYOG115	115	1				16.6	143.0	0.05044	0.03523	18.7	107.0
				C:BUS:WATERCURE_345						1632									
				Open 130757	WATRC345	345	200769	HOMER CY	345	1				-0.05669	-0.11289	-543.5	-826.4		
				Open 130757	WATRC345	345	130768	WATRC230	230	1				-0.12286	-0.07170	257.6	77.9		

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			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.05534	0.00000	22.4	22.4
16032	2535.6	4230.7	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	-11.0	143.0	0.06073		0.03523	18.7	108.0
			C:BUS:WATERCURE_230				1633							
			Open 130768 WATRC230	230	130772 SHRED230	230	1				0.24198	0.05141	71.0	201.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.18211	-0.07170	257.6	75.8
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.12849	0.00000	0.5	0.5
16037	2539.0	4232.9	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	-3.7	-143.0	-0.05485		-0.03523	24.3	-65.2
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.10628	-0.18460	-263.5	-732.2
16043	2544.3	4236.3	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	88.4	180.0	0.03598		0.02412	70.3	131.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04303	0.27581	422.3	1124.0
16044	2544.5	4236.5	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-14.7	-143.0	-0.05044		-0.03523	-16.7	-106.4
			C:BUS:WATERCURE_345				1632							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.05669	-0.11289	-543.5	-830.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.12286	-0.07170	257.6	75.1
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.05534	0.00000	22.4	22.4
16056	2549.6	4239.7	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1095.5	-1703.0	-0.23828		-0.22164	-997.1	-1562.2
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1				0.10944	-0.15203	-899.2	-1286.8
16058	2554.4	4242.8	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	291.9	540.0	0.09711		0.08240	228.6	439.1
			C:SER:HCWC/NWES				1607							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11957	-0.11289	-543.5	-831.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.03821	-0.03170	43.0	-38.0
16059	2555.3	4243.4	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	71.6	153.0	0.03186		0.02481	52.3	115.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03671	0.19221	524.7	1015.8
16067	2565.1	4249.7	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1097.9	-1703.0	-0.23589		-0.22164	-997.1	-1565.6
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	120						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				0.07872	-0.18097	-1281.0	-1745.2
16070	2566.8	4250.8	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1	-85.0	-180.0	-0.03702		-0.02481	-66.3	-130.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.04426	0.27581	422.3	1130.2
16071	2567.7	4251.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	12.9	-143.0	-0.06073		-0.03523	-16.7	-107.2
			C:BUS:WATERCURE_230				1633							
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.24198	0.05141	71.0	203.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.18211	-0.07170	257.6	73.5
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.12849	0.00000	0.5	0.5
16080	2574.7	4255.9	L: 130767 STOLE230	230	130770 SHLDN230	230	1	218.2	430.0	0.08224				
			Base Case											
16082	2574.8	4256.0	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-63.3	-173.0	-0.04261		-0.02862	-41.9	-115.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.05070	0.27581	422.3	1132.4
16090	2581.7	4260.4	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	292.8	540.0	0.09574		0.08240	228.6	441.3
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11819	-0.11289	-543.5	-835.0
16092	2584.2	4262.0	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1119.7	1724.0	0.23383		0.17297	819.4	1266.4
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012						

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			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.32784	-0.18563	-916.1	-1395.8
16099	2590.5	4266.1	L: 147834 NIAG 345	345	149000	ROCH 345	345	1	703.6	1685.0	0.37886		0.27581	422.3	1136.8
			C:130754 KINTI345	345	149000	ROCH 345	345	1							
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.53611	0.19221	524.7	1022.6
16117	2598.1	4270.9	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1092.7	-1703.0	-0.23491		-0.22164	-997.1	-1572.9
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1							
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1				0.07704	-0.17221	-1241.0	-1688.5
16137	2605.5	4275.7	L: 130770 SHLDN230	230	131122	WTHRS230	230	1	290.6	540.0	0.09571		0.08240	228.6	443.3
			C:SER:HC-WC_30&W-F_171					1601							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.11761	-0.11289	-543.5	-837.7
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.05269	0.00066	-35.9	-34.2
16214	2619.1	4284.4	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-54.4	-153.0	-0.03763		-0.02522	-35.4	-101.5
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				-0.04499	0.27581	422.3	1144.6
16239	2620.4	4285.3	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1	98.8	180.0	0.03097		0.02411	80.1	143.3
			C:130754 KINTI345	345	149000	ROCH 345	345	1							
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.03569	0.19221	524.7	1028.3
17570	2632.7	4293.2	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1083.6	-1703.0	-0.23528		-0.22164	-997.1	-1580.6
			C:BUS:N.S._99					1615							
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1				0.12460	-0.03237	-310.7	-395.9
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				0.04425	-0.18563	-916.1	-1404.8
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				-0.00286	0.00045	118.7	119.9
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				0.00800	-0.17416	-858.5	-1317.0
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				-0.01512	0.00000	1.6	1.6
17623	2637.2	4296.0	L: 137200 EDIC	345	137452	N.SCOT77	345	1	1117.4	1724.0	0.23003		0.17297	819.4	1275.6
			C:BUS:N.S._99					1615							
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1				-0.18532	-0.03237	-310.7	-396.1
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.38312	-0.18563	-916.1	-1405.6
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				-0.09741	0.00045	118.7	119.9
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				0.11491	-0.17416	-858.5	-1317.8
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				-0.24148	0.00000	1.6	1.6
17667	2644.5	4300.8	L: 131018 LOUNSL15	115	131850	CNYOG115	115	1	47.6	143.0	0.03608		0.03523	18.7	111.8
			C:130755 OAKDL345	345	131128	LAPEER	345	1							
			Open 130755 OAKDL345	345	131128	LAPEER	345	1				-0.05020	-0.01699	-575.7	-620.7
17675	2645.8	4301.6	L: 131018 LOUNSL15	115	131850	CNYOG115	115	1	29.3	143.0	0.04296		0.03523	18.7	111.9
			C:130768 WATRC230	230	130772	SHRED230	230	1							
			Open 130768 WATRC230	230	130772	SHRED230	230	1				0.15025	0.05141	71.0	207.0
17687	2649.0	4303.6	L: 131018 LOUNSL15	115	131850	CNYOG115	115	1	18.7	112.0	0.03523				
			Base Case												
17706	2654.8	4307.4	L: 130764 MEYER230	230	131122	WTHRS230	230	1	-268.7	-540.0	-0.10221		-0.08254	-238.5	-457.7
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				-0.07131	0.27581	422.3	1154.5
17726	2661.8	4311.9	L: 131018 LOUNSL15	115	131850	CNYOG115	115	1	28.7	143.0	0.04296		0.03523	18.7	112.5
			C:SER:OAKDALE_WATRC230					1594							
			Open 130768 WATRC230	230	130772	SHRED230	230	1				0.15025	0.05141	71.0	207.9
			Open 130765 OAKDL230	230	130772	SHRED230	230	1	NA						
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1				-0.10162	0.00000	6.8	6.8
17728	2665.2	4314.1	L: 130767 STOLE230	230	130770	SHLDN230	230	1	281.6	540.0	0.09696		0.08224	218.2	437.4

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ID	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7	Value 8	Value 9	Value 10	Value 11	Value 12		
17730	2668.6	4316.2	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	28.4	143.0	0.04296	-0.11957	-0.11289	-543.5	-844.4
			C:130765 OAKDL230	230	130772 SHRED230	230	1				-0.03821	-0.03170	43.0	-41.5
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				0.03523	0.03523	18.7	112.7
17731	2669.5	4316.8	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	28.3	143.0	0.04296	-0.15025	-0.05141	-64.5	-201.7
			C:130765 OAKDL230	230	130838 OAKDL115	115	1				0.03523	0.03523	18.7	112.7
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.15025	0.05141	64.3	201.5
17743	2672.4	4318.7	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-863.0	-1331.0	-0.17513				
			Base Case											
17752	2676.6	4321.4	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-50.8	-153.0	-0.03817	-0.02558	-0.02558	-31.6	-100.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.04563	0.27581	422.3	1160.5
17762	2685.1	4326.8	L: 130815 HINMNI15	115	135452 LOCKPORT	115	1	192.7	280.0	0.03252	0.02453	0.02453	170.9	236.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1							
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.04157	0.19221	524.7	1040.8
17771	2691.2	4330.8	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-27.4	-143.0	-0.04296	-0.03523	-0.03523	-16.7	-111.5
			C:130768 WATRC230	230	130772 SHRED230	230	1							
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.15025	0.05141	71.0	209.4
17773	2694.0	4332.6	L: 130767 STOLE230	230	130770 SHLDN230	230	1	282.5	540.0	0.09559	0.08224	0.08224	218.2	439.8
			C:130757 WATRC345	345	200769 HOMER CY	345	1							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11819	-0.11289	-543.5	-847.7
17775	2694.9	4333.2	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	88.0	173.0	0.03153	0.02814	0.02814	78.2	154.1
			C:130764 MEYER230	230	131122 WTHRS230	230	1							
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				-0.04101	-0.08254	-238.5	-461.0
17778	2696.3	4334.0	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1692.2	2283.0	0.21912	0.22519	0.22519	1114.8	1722.0
			C:125002 ROSETON	345	126281 FISHKILL	345	1							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.38330	-0.01585	1506.4	1463.6
17779	2696.3	4334.0	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1692.2	2283.0	0.21912	0.22519	0.22519	1114.8	1722.0
			C:SIN:430											
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.38330	-0.01585	1506.4	1463.6
17783	2698.5	4335.5	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-45.6	-143.0	-0.03608	-0.03523	-0.03523	-16.7	-111.8
			C:130755 OAKDL345	345	131128 LAPEER	345	1							
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				0.05020	-0.01699	-575.7	-621.6
17786	2699.9	4336.4	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	-18.5	143.0	0.05980	0.03523	0.03523	18.7	113.8
			C:130763 HILSD230	230	130768 WATRC230	230	1							
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.19959	0.12311	-186.1	146.3
17796	2704.3	4339.2	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-16.7	-112.0	-0.03523				
			Base Case											
17798	2707.2	4341.1	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.7	-143.0	-0.04296	-0.03523	-0.03523	-16.7	-112.1
			C:SER:OAKDALE_WATRC230											
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.15025	0.05141	71.0	210.2
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.10162	0.00000	6.8	6.8
17800	2708.1	4341.6	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	196.5	383.0	0.06887	0.05563	0.05563	134.5	285.2
			C:SER:HCWC/NWES											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11471	-0.11289	-543.5	-849.3

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			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.00924	-0.03170	43.0	-42.9
17801	2708.3	4341.8	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	87.6	173.0	0.03152		0.02814	78.2	154.5
			C:130770 SHLDN230	230	131122 WTHRS230	230	1							
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				0.04101	0.08240	228.6	451.8
17803	2708.6	4342.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	76.3	173.0	0.03568		0.02814	78.2	154.5
			C:130754 KINTI345	345	147834 NIAG 345	345	1							
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				-0.04136	-0.18226	46.0	-447.7
17804	2709.3	4342.4	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	195.5	280.0	0.03120		0.02453	170.9	237.3
			C:130766 ROBIN230	230	130767 STOLE230	230	1							
			Open 130766 ROBIN230	230	130767 STOLE230	230	1				0.26884	0.02482	91.5	158.7
17816	2712.6	4344.6	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1318.9	-1912.0	-0.21864		-0.15592	-918.9	-1341.8
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.62614	-0.03237	-310.7	-398.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.16124	-0.18563	-916.1	-1419.6
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.03268	0.00045	118.7	119.9
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.07201	-0.17416	-858.5	-1330.9
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.10439	0.00000	1.6	1.6
17820	2713.2	4344.9	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-858.5	-1331.0	-0.17416				
			Base Case											
17821	2713.9	4345.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.04296		-0.03523	-16.7	-112.3
			C:130765 OAKDL230	230	130772 SHRED230	230	1							
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				0.15025	-0.05141	-64.5	-204.1
17824	2714.9	4346.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.04296		-0.03523	-16.7	-112.4
			C:130765 OAKDL230	230	130838 OAKDL115	115	1							
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				-0.15025	0.05141	64.3	203.8
17825	2715.2	4346.2	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1063.9	-1703.0	-0.23539		-0.22164	-997.1	-1598.9
			C:125000 HURLEY 3	345	125002 ROSETON	345	1							
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.10131	0.13569	659.3	1027.7
17828	2717.1	4347.4	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-195.9	-383.0	-0.06887		-0.05563	-133.9	-285.1
			C:SER:HCWC/NWES											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11471	-0.11289	-543.5	-850.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00924	-0.03170	43.0	-43.2
17830	2718.0	4348.0	L: 130767 STOLE230	230	130770 SHLDN230	230	1	280.3	540.0	0.09556		0.08224	218.2	441.8
			C:SER:HC-WC_30&W-F_171											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11761	-0.11289	-543.5	-850.4
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.05269	0.00066	-35.9	-34.1
17831	2718.0	4348.0	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	196.7	383.0	0.06854		0.05563	134.5	285.7
			C:130757 WATRC345	345	200769 HOMER CY	345	1							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11437	-0.11289	-543.5	-850.4
17839	2722.3	4350.8	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	87.2	173.0	0.03152		0.02814	78.2	154.9
			C:130767 STOLE230	230	130770 SHLDN230	230	1							
			Open 130767 STOLE230	230	130770 SHLDN230	230	1				0.04101	0.08224	218.2	442.1
17848	2727.1	4353.8	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-196.1	-383.0	-0.06854		-0.05563	-133.9	-285.6
			C:130757 WATRC345	345	200769 HOMER CY	345	1							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11437	-0.11289	-543.5	-851.4
17853	2731.4	4356.7	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-448.0	-585.0	-0.05014				
			Base Case											
17854	2732.0	4357.0	L: 130815 HINMN115	115	131611 HARIS115	115	1	-219.6	-306.0	-0.03164		-0.02388	-198.4	-263.6

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				C:130754 KINTI345	345	149000	ROCH	345	345	1	205								
				Open 130754 KINTI345	345	149000	ROCH	345	345	1									
17855	2732.5	4357.4	L:	130848 S.OWE115	115	131850	CNYOG115	115	1			20.4	-143.0	-0.05980		-0.04038	0.19221	524.7	1049.8
				C:130763 HILSD230	230	130768	WATRC230	230	1	219									
				Open 130763 HILSD230	230	130768	WATRC230	230	1										
17869	2743.7	4364.5	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1			195.0	383.0	0.06852		-0.19959	0.12311	-186.1	150.3
				C:SER:HC-WC_30&W-F_171						1601									
				Open 130757 WATRC345	345	200769	HOMER CY	345	1										
				Open 135277 FALCONER	115	200579	WARREN	115	1										
17871	2744.1	4364.8	L:	130753 FRASR345	345	137200	EDIC	345	1			-886.4	-1380.0	-0.17988		-0.11393	-0.11289	-543.5	-853.3
				C:130753 FRASR345	345	130755	OAKDL345	345	1	200									
				Open 130753 FRASR345	345	130755	OAKDL345	345	1										
17877	2752.7	4370.3	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1			-194.4	-383.0	-0.06852		0.04046	0.00066	-35.9	-34.1
				C:SER:HC-WC_30&W-F_171						1601									
				Open 130757 WATRC345	345	200769	HOMER CY	345	1										
				Open 135277 FALCONER	115	200579	WARREN	115	1										
17887	2756.0	4372.5	L:	130770 SHLDN230	230	131122	WTHRS230	230	1			258.7	540.0	0.10206		-0.04046	0.00066	-35.9	-34.1
				C:147834 NIAG 345	345	149000	ROCH	345	1	1226									
				Open 147834 NIAG 345	345	149000	ROCH	345	1										
17890	2758.2	4373.8	L:	130815 HINMN115	115	131611	HARIS115	115	1			-222.3	-306.0	-0.03036		0.07131	0.27581	422.3	1182.4
				C:130766 ROBIN230	230	130767	STOLE230	230	1	224									
				Open 130766 ROBIN230	230	130767	STOLE230	230	1										
17996	2794.4	4397.2	L:	130750 COOPC345	345	130753	FRASR345	345	1			-1051.1	-1703.0	-0.23327		-0.026115	0.02482	91.5	159.9
				C:BUS:N.S._77						1614									
				Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1										
				Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1										
				Open 137200 EDIC	345	137452	N.SCOT77	345	1										
				Open 137450 ALPS345	345	137452	N.SCOT77	345	1										
				Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1										
19221	2811.1	4407.9	L:	Interface	59	MarcySouthS						1937.7	3048.0	0.39498		0.00917	-0.04091	-92.7	-207.0
				C:BUS:N.S._99						1615									
				Open 137453 N.SCOT99	345	147831	GILB	345	1										
				Open 137453 N.SCOT99	345	147833	MARCY T1	345	1										
				Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1										
				Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2										
				Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1										
19556	2818.4	4412.6	L:	130815 HINMN115	115	135452	LOCKPORT	115	1			191.1	280.0	0.03154		-0.01068	0.00000	-0.0	-0.0
				C:130764 MEYER230	230	131122	WTHRS230	230	1	221									
				Open 130764 MEYER230	230	131122	WTHRS230	230	1										
19613	2819.8	4413.5	L:	135859 LAPPINS1	115	135866	NLEROYTA	115	1			85.7	173.0	0.03095		0.02237	0.00000	1.6	1.6
				C:135850 SOUR-114	115	135876	TELRDTP1	115	1	673									
				Open 135850 SOUR-114	115	135876	TELRDTP1	115	1										
20843	2824.0	4416.2	L:	135859 LAPPINS1	115	135866	NLEROYTA	115	1			86.3	173.0	0.03070		-0.03945	-0.17416	-858.5	-1348.1
				C:135452 LOCKPORT	115	135872	SOUR-111	115	1	599									
				Open 135452 LOCKPORT	115	135872	SOUR-111	115	1										
20963	2826.7	4417.9	L:	135452 LOCKPORT	115	135872	SOUR-111	115	1			73.5	159.0	0.03026		0.02237	0.00000	1.6	1.6
				C:130754 KINTI345	345	147834	NIAG	345	1	204									
				Open 130754 KINTI345	345	147834	NIAG	345	1										

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21071	2833.1	4422.0	L: Interface 32 F-To-G			4205.5	6118.0	0.67507		0.56566	3713.3	5315.9
			C:130750 COOPC345 345 130753 FRASR345 345 1 192									
			Open 130750 COOPC345 345 130753 FRASR345 345 1						-0.49362	-0.22164	-997.1	-1625.0
21086	2835.2	4423.4	L: 135859 LAPPINS1 115 135866 NLEROYTA 115 1		84.6	173.0	0.03117		0.02814	78.2	158.0	
			C:135850 SOUR-114 115 135861 MORTIMER 115 1 672									
			Open 135850 SOUR-114 115 135861 MORTIMER 115 1						0.12194	0.02481	52.3	122.7
21089	2835.4	4423.5	*L: 135859 LAPPINS1 115 135866 NLEROYTA 115 1		86.0	173.0	0.03070		0.02814	78.2	158.0	
			C:135872 SOUR-111 115 135873 SWDN-111 115 1 706									
			Open 135872 SOUR-111 115 135873 SWDN-111 115 1						0.10725	0.02383	71.8	139.4
21142	2846.3	4430.5	L: 130815 HINMN115 115 135452 LOCKPORT 115 1		190.3	280.0	0.03152		0.02453	170.9	240.7	
			C:130770 SHLDN230 230 131122 WTHRS230 230 1 228									
			Open 130770 SHLDN230 230 131122 WTHRS230 230 1						0.08488	0.08240	228.6	463.1
21177	2861.7	4440.4	L: 130767 STOLE230 230 130770 SHLDN230 230 1		248.4	540.0	0.10191		0.08224	218.2	453.6	
			C:147834 NIAG 345 345 149000 ROCH 345 345 1 1226									
			Open 147834 NIAG 345 345 149000 ROCH 345 345 1						0.07131	0.27581	422.3	1211.6
21178	2863.0	4441.2	*L: 130750 COOPC345 345 130753 FRASR345 345 1		-1030.5	-1703.0	-0.23491		-0.22164	-997.1	-1631.6	
			C:137451 LEEDS 3 345 137455 ATHENS 345 1 1006									
			Open 137451 LEEDS 3 345 137455 ATHENS 345 1						-0.07704	0.17221	433.3	926.3
21187	2866.6	4443.6	L: 130815 HINMN115 115 131611 HARIS115 115 1		-218.0	-306.0	-0.03068		-0.02388	-198.4	-266.8	
			C:130764 MEYER230 230 131122 WTHRS230 230 1 221									
			Open 130764 MEYER230 230 131122 WTHRS230 230 1						0.08245	-0.08254	-238.5	-475.2
21188	2867.4	4444.1	L: 136150 CLAY 345 137200 EDIC 345 2		766.3	1434.0	0.23285		0.17522	576.6	1079.1	
			C:136150 CLAY 345 137200 EDIC 345 1 715									
			Open 136150 CLAY 345 137200 EDIC 345 1						0.33000	0.17463	574.8	1075.6
21191	2875.4	4449.2	L: 130815 HINMN115 115 135452 LOCKPORT 115 1		189.4	280.0	0.03151		0.02453	170.9	241.4	
			C:130767 STOLE230 230 130770 SHLDN230 230 1 226									
			Open 130767 STOLE230 230 130770 SHLDN230 230 1						0.08488	0.08224	218.2	454.7
21200	2879.6	4451.9	L: 130764 MEYER230 230 131122 WTHRS230 230 1		-269.6	-540.0	-0.09391		-0.08254	-238.5	-476.2	
			C:130754 KINTI345 345 149000 ROCH 345 345 1 205									
			Open 130754 KINTI345 345 149000 ROCH 345 345 1						-0.05915	0.19221	524.7	1078.1
21201	2880.9	4452.8	L: 136150 CLAY 345 137200 EDIC 345 1		764.7	1434.0	0.23232		0.17463	574.8	1077.9	
			C:136150 CLAY 345 137200 EDIC 345 2 716									
			Open 136150 CLAY 345 137200 EDIC 345 2						0.32927	0.17522	576.6	1081.4
21225	2888.5	4457.7	L: 130794 DELHI115 115 130838 OAKDL115 115 1		-76.3	-179.0	-0.03554		-0.01877	-42.2	-96.5	
			C:130753 FRASR345 345 130755 OAKDL345 345 1 200									
			Open 130753 FRASR345 345 130755 OAKDL345 345 1						0.05902	-0.28430	-577.5	-1398.7
21232	2894.5	4461.5	L: 130815 HINMN115 115 131611 HARIS115 115 1		-217.2	-306.0	-0.03067		-0.02388	-198.4	-267.5	
			C:130770 SHLDN230 230 131122 WTHRS230 230 1 228									
			Open 130770 SHLDN230 230 131122 WTHRS230 230 1						-0.08245	0.08240	228.6	467.1
21234	2895.8	4462.3	L: Interface 59 MarcySouthS		1815.4	3048.0	0.42564		0.35703	1736.2	2770.1	
			C:130753 FRASR345 345 147831 GILB 345 345 1 203									
			Open 130753 FRASR345 345 147831 GILB 345 345 1						0.36439	0.18828	217.4	762.6
21247	2905.0	4468.3	L: 130764 MEYER230 230 131122 WTHRS230 230 1		-303.1	-540.0	-0.08154		-0.08254	-238.5	-478.3	
			C:BUS:WATERCURE_345 1632									
			Open 130757 WATRC345 345 200769 HOMER CY 345 1						0.06555	-0.11289	-543.5	-871.5
			Open 130757 WATRC345 345 130768 WATRC230 230 1						-0.11714	-0.07170	257.6	49.3
			Open 130755 OAKDL345 345 130757 WATRC345 345 1						0.05467	0.00000	22.4	22.4
21251	2906.6	4469.3	L: 130753 FRASR345 345 147831 GILB 345 345 1		678.7	1524.0	0.29082		0.18828	217.4	764.7	

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				C:130750 COOPC345	345	130753 FRASR345	345	1	192										
				Open 130750 COOPC345	345	130753 FRASR345	345	1											
21263	2923.5	4480.1	L:	130815 HINMN115	115	131611 HARIS115	115	1											
				C:130767 STOLE230	230	130770 SHLDN230	230	1	226										
				Open 130767 STOLE230	230	130770 SHLDN230	230	1											
21272	2934.4	4487.2	L:	135872 SOUR-111	115	135873 SWDN-111	115	1											
				C:130754 KINTI345	345	147834 NIAG 345	345	1	204										
				Open 130754 KINTI345	345	147834 NIAG 345	345	1											
21274	2937.5	4489.2	L:	135851 SHEL-113	115	135874 SWDN-113	115	1											
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1											
21278	2938.4	4489.8	*L:	131018 LOUNS115	115	131850 CNYOG115	115	1											
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1											
21279	2938.5	4489.8	L:	137453 N.SCOT99	345	147833 MARCY T1	345	1											
				C:BUS:N.S._77					1614										
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1											
				Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1											
				Open 137200 EDIC	345	137452 N.SCOT77	345	1											
				Open 137450 ALPS345	345	137452 N.SCOT77	345	1											
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1											
21284	2946.1	4494.7	L:	Interface 59		MarcySouthS													
				C:BUS:N.S._77					1614										
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1											
				Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1											
				Open 137200 EDIC	345	137452 N.SCOT77	345	1											
				Open 137450 ALPS345	345	137452 N.SCOT77	345	1											
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1											
21293	2957.3	4501.9	L:	130764 MEYER230	230	131122 WTHRS230	230	1											
				C:LKWANA-OXBW					1651										
				Open 417 OXBOW	230	3070 LACKAWNA	230	1											
21294	2957.6	4502.1	L:	137200 EDIC	345	137452 N.SCOT77	345	1											
				Base Case															
21298	2963.6	4505.9	L:	135850 SOUR-114	115	135876 TELRDTP1	115	1											
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1											
21300	2969.6	4509.8	L:	137451 LEEDS 3	345	137455 ATHENS	345	1											
				C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	120										
				Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2											
21301	2970.8	4510.6	L:	135858 GOLAH115	115	135862 MUMFORD1	115	1											
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1											
21302	2971.2	4510.8	L:	130836 N.WAV115	115	131018 LOUNS115	115	1											
				C:BUS:WATERCURE_230					1633										
				Open 130768 WATRC230	230	130772 SHRED230	230	1											
				Open 130757 WATRC345	345	130768 WATRC230	230	1											
				Open 130763 HILSD230	230	130768 WATRC230	230	1											
21312	2990.1	4523.0	L:	130770 SHLDN230	230	131122 WTHRS230	230	1											

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			C:130754 KINTI345	345	149000	ROCH	345	345	1	205								
			Open 130754 KINTI345				345	149000	ROCH	345	345	1			0.05915	0.19221	524.7	1099.4
21315	2993.9	4525.4	*L: 130848 S.OWE115	115	131850	CNYOG115	115	1										
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392									
			Open 131128 LAPEER				345	136153	LAFAYTTE	345	1				0.03223	0.00241	-652.6	-645.3

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, APR 29 2009 18:07
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From ON_E_EXP To GHI_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 26635 violations

Interface-1 Interface 31 CE-GROUP Init.Flow= 4217.67 TDF= 1.0000

N	FCITC IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
							Init	Final
		C: Contingency description	Ncon	Flow	Rating	LODF		
1	-170280.-166063.	L: Interface 21 PJM-WEST	5137.7	0.0	0.03017	0.04805	5112.7	-3068.8
		C:SER:C398/NWES	1605					
		Open 409 GROVER 230 200675 E.TWANDA	230	1		0.06509	0.00120	-15.6 -220.3
		Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.17346	-0.07609	117.6 13073.5
		Open 381 TOWANDA 115 200675 E.TWANDA	230	1		0.01304	-0.00618	-52.1 1000.5
		Open 130836 N.WAV115 115 200676 E.SAYRE	115	1		0.14744	-0.03170	43.0 5441.6
2	-170055.-165838.	L: Interface 21 PJM-WEST	5139.3	0.0	0.03022	0.04805	5112.7	-3058.0
		C:SER:ETHS/NWES	1606					
		Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.17144	-0.07609	117.6 13056.4
		Open 130836 N.WAV115 115 200676 E.SAYRE	115	1		0.15082	-0.03170	43.0 5434.5
3	-151727.-147509.	L: Interface 21 PJM-WEST	5133.5	0.0	0.03383	0.04805	5112.7	-2177.3
		C:ETHS/LLGD	1649					
		Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.13801	-0.07609	117.6 11661.8
		Open 130807 GOUDY115 115 200680 LAUREL L	115	1		0.12187	-0.03046	38.0 4659.2
4	-133033.-128815.	L: Interface 21 PJM-WEST	5127.4	0.0	0.03854	0.04805	5112.7	-1279.1
		C:130763 HILSD230 230 200675 E.TWANDA	230	1	1375			
		Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.12492	-0.07609	117.6 10239.5
5	-125291.-121073.	L: Interface 21 PJM-WEST	5123.5	0.0	0.04089	0.04805	5112.7	-907.2
		C:130763 HILSD230 230 130768 WATRC230	230	1	219			

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	Open	130763	HILSD230	230	130768	WATRC230	230	1		-0.05811	0.12311	-186.1	-15611.2
6	-122996.-118779.	L:	Interface	21	PJM-WEST		5130.0	0.0	0.04171		0.04805	5112.7	-796.9
		C:	BUS:WATERCURE_230										1633
		Open	130768	WATRC230	230	130772	SHRED230	230	1	-0.02074	0.05141	71.0	-6252.4
		Open	130757	WATRC345	345	130768	WATRC230	230	1	0.07352	-0.07170	257.6	9076.9
		Open	130763	HILSD230	230	130768	WATRC230	230	1	-0.18949	0.00000	0.5	0.5
7	-119773.-115555.	L:	Interface	21	PJM-WEST		5043.3	0.0	0.04211		0.04805	5112.7	-642.0
		C:	MULT04										1656
		Open	9	JUNIATA	500	21	SUNBURY	500	1	-0.13383	0.04353	524.7	-4688.9
		Open	21	SUNBURY	500	3084	SUNBURY	230	24	-0.00698	0.01634	-121.6	-2079.0
8	-118712.-114494.	L:	Interface	21	PJM-WEST		5130.0	-0.0	0.04321		0.04805	5112.7	-591.1
		C:	130757	WATRC345	345	130768	WATRC230	230	1				213
		Open	130757	WATRC345	345	130768	WATRC230	230	1	0.06740	-0.07170	257.6	8769.7
9	-113981.-109763.	L:	Interface	21	PJM-WEST		5182.8	0.0	0.04547		0.04805	5112.7	-363.8
		C:	SER:HC-SR_37&W-F_171										1600
		Open	135398	SW345	345	200769	HOMER CY	345	1	-0.17837	0.01417	-378.4	-1993.5
		Open	135277	FALCONER	115	200579	WARREN	115	1	-0.07354	0.00066	-35.9	-111.4
10	-113309.-109091.*	L:	Interface	21	PJM-WEST		5175.9	0.0	0.04568		0.04805	5112.7	-331.5
		C:	135398	SW345	345	200769	HOMER CY	345	1				1380
		Open	135398	SW345	345	200769	HOMER CY	345	1	-0.16708	0.01417	-378.4	-1984.0
1753	-78066.8-73849.1	L:	Interface	20	PJM-CENT		3528.6	-0.0	0.04520		0.10258	3269.0	-4738.8
		C:	126260	BOWLINE1	345	146750	WHAHV345	345	10				79
		Open	126260	BOWLINE1	345	146750	WHAHV345	345	10	-0.55149	0.10404	-470.6	-8592.7
1761	-59659.4-55441.8	L:	Interface	20	PJM-CENT		3469.8	-0.0	0.05816		0.10258	3269.0	-2850.6
		C:	SIN:30										1665
		Open	126260	BOWLINE1	345	146841	BOW1	20.0	1				NA
		Open	126260	BOWLINE1	345	146750	WHAHV345	345	10	-0.42624	0.10404	-470.6	-6677.6
		Open	126290	LADENTWN	345	146750	WHAHV345	345	1	-0.00074	0.09566	-170.6	-5877.8
1762	-52937.8-48720.1	L:	Interface	20	PJM-CENT		3229.5	0.0	0.06101		0.10258	3269.0	-2161.1
		C:	LKWANA-OXBW										1651
		Open	417	OXBOW	230	3070	LACKAWNA	230	1	0.33047	-0.12579	-119.7	6539.5
1763	-50855.5-46637.8	L:	Interface	20	PJM-CENT		3322.8	0.0	0.06534		0.10258	3269.0	-1947.5
		C:	ETHS/NWES/LLGD										1648
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1	0.28248	-0.07609	117.6	3987.0
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1	0.25885	-0.03170	43.0	1655.3
		Open	130807	GOUDY115	115	200680	LAUREL L	115	1	0.24753	-0.03046	38.0	1586.9
1764	-42681.0-38463.4	L:	Interface	20	PJM-CENT		3304.2	-0.0	0.07742		0.10258	3269.0	-1109.0
		C:	SER:C398/NWES										1605
		Open	409	GROVER	230	200675	E.TWANDA	230	1	0.09834	0.00120	-15.6	-66.9
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1	0.24445	-0.07609	117.6	3365.0
		Open	381	TOWANDA	115	200675	E.TWANDA	230	1	0.01930	-0.00618	-52.1	211.7
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1	0.20696	-0.03170	43.0	1396.2
1765	-42672.0-38454.3	L:	Interface	20	PJM-CENT		3306.6	0.0	0.07749		0.10258	3269.0	-1108.1
		C:	SER:ETHS/NWES										1606
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1	0.24142	-0.07609	117.6	3364.3
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1	0.21196	-0.03170	43.0	1395.9
1766	-39925.6-35707.9	L:	Interface	20	PJM-CENT		3298.4	-0.0	0.08261		0.10258	3269.0	-826.4
		C:	ETHS/LLGD										1649

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		Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.19432	-0.07609	117.6	3155.4
		Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.17004	-0.03046	38.0	1254.0
1767	-38666.3-34448.6	L: Interface	20	PJM-CENT				3966.3	0.0	0.10258		0.10258	3269.0 -697.2
		C:GEN:PEACHBTM						1568					
		Remove unit 1	from bus	34	PCHBTM 2	22.0	1060.3	MW	dispatch				
1768	-38162.8-33945.1	L: Interface	20	PJM-CENT				3914.6	0.0	0.10258		0.10258	3269.0 -645.6
		C:GEN:SALEM						1567					
		Remove unit 1	from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch				
1769	-36926.5-32708.9	*L: Interface	20	PJM-CENT				3787.8	0.0	0.10258		0.10258	3269.0 -518.7
		C:SIN:250						1677					
		Open 100508 SANDB115	115	100509	SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1
		Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
3523	-7163.4 -2945.7	L: Interface	47	C-PJMWest				-477.5	-0.0	-0.06666		-0.11289	-543.5 265.2
		C:130755 OAKDL345	345	130757	WATRC345	345	1	206					
		Open 130755 OAKDL345	345	130757	WATRC345	345	1			-0.25044	-0.18460	-263.5	1058.8
3524	-7163.4 -2945.7	L: Interface	48	PJMWest-C				477.5	0.0	0.06666		0.11289	543.5 -265.2
		C:130755 OAKDL345	345	130757	WATRC345	345	1	206					
		Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.25044	-0.18460	-263.5	1058.8
3525	-5980.8 -1763.1	L: Interface	47	C-PJMWest				-595.1	-0.0	-0.09950		-0.11289	-543.5 131.7
		C:SIN:120						1667					
		Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			-0.00658	-0.14056	786.0	1626.7
		Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			-0.00658	-0.14056	786.0	1626.7
		Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.04985	0.23155	39.8	-1345.0
		Open 126263 BUCHANAN S	345	147832	IP3 345	345	1					NA	
		Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1					NA	
		Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2					NA	
		Remove unit 1	from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch				
3526	-5980.8 -1763.1	L: Interface	47	C-PJMWest				-595.1	-0.0	-0.09950		-0.11289	-543.5 131.7
		C:SIN:130						1668					
		Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			-0.00658	-0.14056	786.0	1626.7
		Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			-0.00658	-0.14056	786.0	1626.7
		Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.04985	0.23155	39.8	-1345.0
		Open 126263 BUCHANAN S	345	147832	IP3 345	345	1					NA	
		Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1					NA	
		Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2					NA	
		Remove unit 1	from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch				
3527	-5980.8 -1763.1	L: Interface	48	PJMWest-C				595.1	0.0	0.09950		0.11289	543.5 -131.7
		C:SIN:130						1668					
		Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00658	-0.14056	786.0	1626.7
		Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00658	-0.14056	786.0	1626.7
		Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.04985	0.23155	39.8	-1345.0
		Open 126263 BUCHANAN S	345	147832	IP3 345	345	1					NA	
		Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1					NA	
		Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2					NA	
		Remove unit 1	from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch				
3528	-5980.8 -1763.1	L: Interface	48	PJMWest-C				595.1	0.0	0.09950		0.11289	543.5 -131.7
		C:SIN:120						1667					
		Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00658	-0.14056	786.0	1626.7

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			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2		0.00658	-0.14056	786.0	1626.7		
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1		-0.04985	0.23155	39.8	-1345.0		
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA						
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch					
3529	-5810.2	-1592.6	L: Interface	48	PJMWest-C				483.1	0.0	0.08315	0.11289	543.5	-112.4
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.10463	-0.28430	-577.5	1074.3		
3530	-5810.2	-1592.6	L: Interface	47	C-PJMWest				-483.1	-0.0	-0.08315	-0.11289	-543.5	112.4
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		-0.10463	-0.28430	-577.5	1074.3		
3531	-5639.9	-1422.2	L: Interface	48	PJMWest-C				584.9	0.0	0.10370	0.11289	543.5	-93.2
			C:GEN:IND PT 3-New					1773						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1		0.00000	-0.11639	522.5	1178.9		
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2		-0.03969	0.23155	-1041.8	-2347.7		
3532	-5639.9	-1422.2	L: Interface	47	C-PJMWest				-584.9	-0.0	-0.10370	-0.11289	-543.5	93.2
			C:GEN:IND PT 3-New					1773						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1		0.00000	-0.11639	522.5	1178.9		
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2		0.03969	0.23155	-1041.8	-2347.7		
3533	-5597.7	-1380.0	L: Interface	48	PJMWest-C				616.8	-0.0	0.11019	0.11289	543.5	-88.4
			C:SER:HC-SR_37&W-F_171					1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1		-0.18773	0.01417	-378.4	-457.7		
			Open 135277 FALCONER	115	200579 WARREN	115	1		-0.06276	0.00066	-35.9	-39.6		
3534	-5597.7	-1380.0	L: Interface	47	C-PJMWest				-616.8	0.0	-0.11019	-0.11289	-543.5	88.4
			C:SER:HC-SR_37&W-F_171					1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1		0.18773	0.01417	-378.4	-457.7		
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.06276	0.00066	-35.9	-39.6		
3535	-5587.3	-1369.6	L: Interface	48	PJMWest-C				582.5	-0.0	0.10426	0.11289	543.5	-87.2
			C:GEN:IND PT 2-New					1772						
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	1		0.00000	0.11287	-509.2	-1139.8		
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	2		-0.03827	0.22573	-1018.4	-2279.7		
3536	-5587.3	-1369.6	L: Interface	47	C-PJMWest				-582.5	0.0	-0.10426	-0.11289	-543.5	87.2
			C:GEN:IND PT 2-New					1772						
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	1		0.00000	0.11287	-509.2	-1139.8		
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	2		0.03827	0.22573	-1018.4	-2279.7		
3537	-5561.3	-1343.6	L: Interface	47	C-PJMWest				-629.8	-0.0	-0.11325	-0.11289	-543.5	84.3
			C:HQ-NY-765-New					1776						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.02483	0.00775	624.7	581.6		
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.02483	0.00674	543.6	506.1		
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00725	10.3	50.6		
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.05514	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						

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	Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA								
	Decrease	bus	180001	BEA-DLX	13.8	generation	by			100.0	percent	dispatch						
	Set	bus	181319	CHAT	G3	120	load	to		357.0	MW	dispatch						
	Decrease	bus	180002	BEA-DL	13.8	generation	by			100.0	percent	dispatch						
	Set	bus	181419	CHAT	G4	120	load	to		357.0	MW	dispatch						
3538	-5561.3	-1343.6	L:	Interface	48	PJMWest-C				629.8	0.0	0.11325		0.11289	543.5	-84.3		
				C:HQ-NY-765-New					1776									
	Open	147827	MARCY765	765	147828	MASS	765	765	1	NA								
	Open	147828	MASS	765	765	180819	CHA-NY	765	1	NA								
	Open	147827	MARCY765	765	147833	MARCY	T1	345	1		0.02483	0.00775	624.7	581.6				
	Open	147827	MARCY765	765	147833	MARCY	T1	345	2		0.02483	0.00674	543.6	506.1				
	Open	156	MCY765SW	0.0	147827	MARCY765	765	765	1	NA								
	Open	147838	MASS230B	230	147839	MOSES	E	230	1		-0.00000	-0.00725	10.3	50.6				
	Open	147828	MASS	765	765	147838	MASS230B	230	1	NA								
	Open	147837	MASS230A	230	147839	MOSES	E	230	1		-0.05514	0.00000	18.8	18.8				
	Open	147828	MASS	765	765	147837	MASS230A	230	1	NA								
	Open	158	MS765SW2	0.0	147828	MASS	765	765	1	NA								
	Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA								
	Decrease	bus	180001	BEA-DLX	13.8	generation	by			100.0	percent	dispatch						
	Set	bus	181319	CHAT	G3	120	load	to		357.0	MW	dispatch						
	Decrease	bus	180002	BEA-DL	13.8	generation	by			100.0	percent	dispatch						
	Set	bus	181419	CHAT	G4	120	load	to		357.0	MW	dispatch						
3539	-5535.2	-1317.5	L:	Interface	47	C-PJMWest				-610.9	0.0	-0.11037		-0.11289	-543.5	81.4		
				C:135398	SW345	345	200769	HOMER	CY	345	1	1380						
	Open	135398	SW345	345	200769	HOMER	CY	345	1		0.17809	0.01417	-378.4	-456.8				
3540	-5535.2	-1317.5	L:	Interface	48	PJMWest-C				610.9	-0.0	0.11037		0.11289	543.5	-81.4		
				C:135398	SW345	345	200769	HOMER	CY	345	1	1380						
	Open	135398	SW345	345	200769	HOMER	CY	345	1		-0.17809	0.01417	-378.4	-456.8				
3541	-5527.9	-1310.2	*L:	Interface	47	C-PJMWest				-624.1	0.0	-0.11289		-0.11289	-543.5	80.5		
				C:GEN:9	MI	PT2			1561									
	Remove	unit	2	from	bus	136700	9M	PT	2G	25.0	1197.5	MW	dispatch					
3542	-5527.9	-1310.2	*L:	Interface	48	PJMWest-C				624.1	-0.0	0.11289		0.11289	543.5	-80.5		
				C:GEN:9	MI	PT2			1561									
	Remove	unit	2	from	bus	136700	9M	PT	2G	25.0	1197.5	MW	dispatch					
3561	-5253.5	-1035.8	L:	Interface	56	NYE-PJMEnoRE				-1496.2	-1287.0	-0.03981		-0.00000	-1299.1	-1299.1		
				C:SER:HC-WC_30&W-F_171					1601									
	Open	130757	WATRC345	345	200769	HOMER	CY	345	1		0.35346	-0.11289	-543.5	49.6				
	Open	135277	FALCONER	115	200579	WARREN		115	1		0.13824	0.00066	-35.9	-39.4				
3562	-5253.5	-1035.8	L:	Interface	55	PJME-NYEnoRE				1496.2	1287.0	0.03981		0.00000	1299.1	1299.1		
				C:SER:HC-WC_30&W-F_171					1601									
	Open	130757	WATRC345	345	200769	HOMER	CY	345	1		-0.35346	-0.11289	-543.5	49.6				
	Open	135277	FALCONER	115	200579	WARREN		115	1		-0.13824	0.00066	-35.9	-39.4				
3581	-5118.4	-900.7	L:	Interface	55	PJME-NYEnoRE				1490.4	1287.0	0.03973		0.00000	1299.1	1299.1		
				C:130757	WATRC345	345	200769	HOMER	CY	345	1	1374						
	Open	130757	WATRC345	345	200769	HOMER	CY	345	1		-0.35195	-0.11289	-543.5	34.3				
3582	-5118.4	-900.7	L:	Interface	56	NYE-PJMEnoRE				-1490.4	-1287.0	-0.03973		-0.00000	-1299.1	-1299.1		
				C:130757	WATRC345	345	200769	HOMER	CY	345	1	1374						
	Open	130757	WATRC345	345	200769	HOMER	CY	345	1		0.35195	-0.11289	-543.5	34.3				

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			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.10670	-0.03170	43.0	148.6
7067	-3331.5	886.2	L: Interface 26 ONTARIO-MICH				753.1		-0.0	0.22604		0.23760	736.0	-55.6
			C:SER:C398/NWES					1605						
			Open 409 GROVER	230	200675	E.TWANDA	230	1			0.00017	0.00120	-15.6	-19.6
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.10753	-0.07609	117.6	371.1
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1			0.00253	-0.00618	-52.1	-31.5
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.10604	-0.03170	43.0	148.6
7068	-3277.0	940.7	L: Interface 26 ONTARIO-MICH				749.1		0.0	0.22860		0.23760	736.0	-42.6
			C:ETHS/LLGD					1649						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.08368	-0.07609	117.6	367.0
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.08652	-0.03046	38.0	137.8
7069	-3269.8	947.8	L: Interface 26 ONTARIO-MICH				762.5		-0.0	0.23319		0.23760	736.0	-40.9
			C:W44LC					1642						
			Open 160062 LONGWOOD	220	160074	COWALJ44	220	1			-0.16056	0.02255	189.2	115.5
			Open 160074 COWALJ44	220	160134	BUCHJW44	220	1			0.16303	-0.00487	334.4	350.3
			Open 160054 BUCHANAN	220	160134	BUCHJW44	220	1			-0.00035	0.00487	-256.1	-272.1
			Open 160055 CHATHAM	220	160074	COWALJ44	220	1			0.71981	0.00000	3.1	3.1
7070	-3269.6	948.1	L: Interface 26 ONTARIO-MICH				762.5		-0.0	0.23320		0.23760	736.0	-40.9
			C:W45LC					1643						
			Open 160062 LONGWOOD	220	160075	COWALJ45	220	1			-0.16050	0.02252	189.2	115.6
			Open 160075 COWALJ45	220	160135	BUCHJW45	220	1			0.16297	-0.00486	334.3	350.2
			Open 160054 BUCHANAN	220	160135	BUCHJW45	220	1			-0.00035	0.00486	-262.5	-278.3
			Open 160055 CHATHAM	220	160075	COWALJ45	220	1			0.71977	0.00000	3.1	3.1
7071	-3249.2	968.5	L: Interface 26 ONTARIO-MICH				771.6		0.0	0.23747		0.23760	736.0	-36.0
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392					
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1			-0.05454	0.00241	-652.6	-660.4
7072	-3242.6	975.1	L: Interface 26 ONTARIO-MICH				721.7		-0.0	0.22256		0.23760	736.0	-34.5
			C:LKWANA-OXBW					1651						
			Open 417 OXBOW	230	3070	LACKAWNA	230	1			0.11958	-0.12579	-119.7	288.2
7073	-3230.1	987.5	L: Interface 26 ONTARIO-MICH				770.8		0.0	0.23863		0.23760	736.0	-31.5
			C:130755 OAKDL345	345	131128	LAPEER	345	1	209					
			Open 130755 OAKDL345	345	131128	LAPEER	345	1			-0.06047	-0.01699	-575.7	-520.9
7074	-3218.7	998.9	*L: Interface 26 ONTARIO-MICH				749.2		-0.0	0.23278		0.23760	736.0	-28.8
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL					1650						
			Open 505 SHELOCTA	230	521	KEYSTONE	230	1			0.08784	-0.04530	50.1	195.9
			Open 473 BLAIRSVL	138	235253	01SOCIAL	138	1			0.08830	-0.00962	100.2	131.2
8774	-2966.6	1251.1	L: Interface 55 PJME-NYEnoRE				1477.4	1287.0	0.06418			0.00000	1299.1	1299.1
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.44167	-0.11289	-543.5	-208.6
			Open 130757 WATRC345	345	130768	WATRC230	230	1			-0.19968	-0.07170	257.6	470.3
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			-0.45967	0.00000	22.4	22.4
8775	-2966.6	1251.1	L: Interface 56 NYE-PJMENoRE				-1477.4	-1287.0	-0.06418			-0.00000	-1299.1	-1299.1
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.44167	-0.11289	-543.5	-208.6
			Open 130757 WATRC345	345	130768	WATRC230	230	1			0.19968	-0.07170	257.6	470.3
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.45967	0.00000	22.4	22.4
8804	-2747.2	1470.5	L: Interface 52 PJMEast-G				118.3		-0.0	0.04306		0.00000	0.4	0.4
			C:BUS:WATERCURE_345					1632						

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			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.20645	-0.07170	257.6	221.7		
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.14892	0.00000	22.4	22.4		
8864	522.4	4740.0	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1		-1241.0	-1331.0	-0.17221			
			Base Case											
8865	550.1	4767.7	L: 146758 CHESTER	138	146771 SHOEM138	138	1		-286.6	-317.0	-0.05527	-0.03004	-161.7	-178.2
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1							
8866	550.1	4767.7	L: 146758 CHESTER	138	146771 SHOEM138	138	1		-286.6	-317.0	-0.05527	-0.03004	-161.7	-178.2
			C:SIN:440					1683						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1							
8867	637.3	4855.0	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1577.7	-1725.0	-0.23112	-0.18097	-1281.0	-1396.4
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1							
8868	773.6	4991.3	L: Interface 14 Leeds-PV						3101.0	3450.0	0.45107	0.35318	2522.1	2795.3
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1							
8869	780.1	4997.8	L: Interface 50 PJMCentral-C						-107.9	0.0	0.13825	0.13825	-198.6	-90.7
			C:GEN:9 MI PT2					1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0		1197.5	MW	dispatch						
8870	780.1	4997.8	L: Interface 49 C-PJMCentral						107.9	-0.0	-0.13825	-0.13825	198.6	90.7
			C:GEN:9 MI PT2					1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0		1197.5	MW	dispatch						
8871	822.9	5040.5	L: Interface 49 C-PJMCentral						114.0	0.0	-0.13848	-0.13825	198.6	84.8
			C:HQ-NY-765-New					1776						
			Open 147827 MARCY765	765	147828 MASS 765	765	1							
			Open 147828 MASS 765	765	180819 CHA-NY	765	1							
			Open 147827 MARCY765	765	147833 MARCY T1	345	1							
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.01633	0.00775	624.7	631.1		
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1							
			Open 147838 MASS230B	230	147839 MOSES E	230	1							
			Open 147828 MASS 765	765	147838 MASS230B	230	1							
			Open 147837 MASS230A	230	147839 MOSES E	230	1							
			Open 147828 MASS 765	765	147837 MASS230A	230	1							
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1							
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1							
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent	dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW	dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent	dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW	dispatch						
8872	822.9	5040.5	L: Interface 50 PJMCentral-C						-114.0	-0.0	0.13848	0.13825	-198.6	-84.8
			C:HQ-NY-765-New					1776						
			Open 147827 MARCY765	765	147828 MASS 765	765	1							
			Open 147828 MASS 765	765	180819 CHA-NY	765	1							
			Open 147827 MARCY765	765	147833 MARCY T1	345	1							
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.01633	0.00775	624.7	631.1		
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1							
			Open 147838 MASS230B	230	147839 MOSES E	230	1							
			Open 147828 MASS 765	765	147838 MASS230B	230	1							

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			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.05989	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch					
8873	888.2	5105.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			-1566.9	-1725.0	-0.17796	-0.18097 -1281.0 -1441.8
			C:SIN:430					1682					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18979	-0.01585	1506.4	1492.3
8874	888.2	5105.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			-1566.9	-1725.0	-0.17796	-0.18097 -1281.0 -1441.8
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18979	-0.01585	1506.4	1492.3
8875	916.8	5134.5	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1			-1523.3	-1725.0	-0.21994	-0.17221 -1241.0 -1398.9
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3					
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1			0.31397	-0.15203	-899.2	-1038.6
8876	944.8	5162.5	L: Interface 50 PJMCentral-C							-130.6	-0.0	0.13825	0.13825 -198.6 -68.0
			C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78					
			Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1			0.06789	0.00000	1001.1	1001.1
8877	944.8	5162.5	L: Interface 49 C-PJMCentral							130.6	0.0	-0.13825	-0.13825 198.6 68.0
			C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78					
			Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1			-0.06789	0.00000	1001.1	1001.1
8878	944.8	5162.5	L: Interface 50 PJMCentral-C							-130.6	0.0	0.13825	0.13825 -198.6 -68.0
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351					
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1			0.06789	0.00000	1001.1	1001.1
8879	944.8	5162.5	L: Interface 49 C-PJMCentral							130.6	-0.0	-0.13825	-0.13825 198.6 68.0
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351					
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1			-0.06789	0.00000	1001.1	1001.1
8880	947.1	5164.8	L: 130750 COOPC345	345	130753 FRASR345	345	1			-997.1	-1207.0	-0.22164	
			Base Case										
8881	983.6	5201.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			-1472.2	-1725.0	-0.25696	-0.18097 -1281.0 -1459.0
			C:137451 LEEDS 3	345	137455 ATHENS	345	1	1006					
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1			-0.44128	0.17221	433.3	602.7
8882	1000.4	5218.1	L: Interface 50 PJMCentral-C							-138.1	0.0	0.13802	0.13825 -198.6 -60.3
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392					
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			-0.09272	0.00241	-652.6	-650.1
8883	1000.4	5218.1	L: Interface 49 C-PJMCentral							138.1	-0.0	-0.13802	-0.13825 198.6 60.3
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392					
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			0.09272	0.00241	-652.6	-650.1
8884	1000.6	5218.3*L:	Interface 50 PJMCentral-C							-153.8	0.0	0.15373	0.13825 -198.6 -60.2
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221					
			Open 130764 MEYER230	230	131122 WTHRS230	230	1			-0.18761	-0.08254	-238.5	-321.1
8885	1000.6	5218.3*L:	Interface 49 C-PJMCentral							153.8	-0.0	-0.15373	-0.13825 198.6 60.2
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221					
			Open 130764 MEYER230	230	131122 WTHRS230	230	1			0.18761	-0.08254	-238.5	-321.1
8894	1065.2	5282.9	L: Interface 14 Leeds-PV							3080.0	3450.0	0.34731	0.35318 2522.1 2898.3
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10					

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			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.37040	-0.01585	1506.4	1489.5
8895	1065.2	5282.9	L: Interface 14 Leeds-PV					3080.0	3450.0	0.34731		0.35318	2522.1	2898.3
			C:SIN:430				1682							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.37040	-0.01585	1506.4	1489.5
8906	1135.0	5352.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1474.4	-1725.0	-0.22077		-0.18097	-1281.0	-1486.4
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.29333	0.13569	659.3	813.3
8909	1144.5	5362.2	*L: Interface 56 NYE-PJMENoRE					-1241.3	-1287.0	-0.03989		-0.00000	-1299.1	-1299.1
			C:ETHS/LLGD				1649							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.35117	-0.07609	117.6	30.5
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1				0.43249	-0.03046	38.0	3.1
8910	1144.5	5362.2	*L: Interface 55 PJME-NYEnoRE					1241.3	1287.0	0.03989		0.00000	1299.1	1299.1
			C:ETHS/LLGD				1649							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				-0.35117	-0.07609	117.6	30.5
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1				-0.43249	-0.03046	38.0	3.1
8927	1186.2	5403.9	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05527		0.03004	126.6	162.2
			C:SIN:440				1683							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.11202	0.22519	1114.8	1381.9
8928	1186.2	5403.9	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05527		0.03004	126.6	162.2
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.11202	0.22519	1114.8	1381.9
8933	1215.1	5432.8	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08226		-0.05014	-448.0	-509.0
			C:SIN:440				1683							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.14263	0.22519	1114.8	1388.4
8934	1215.1	5432.8	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08226		-0.05014	-448.0	-509.0
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.14263	0.22519	1114.8	1388.4
8939	1251.2	5468.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16935		-0.17221	-1241.0	-1456.5
			C:SIN:430				1682							
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.18061	-0.01585	1506.4	1486.5
8940	1251.2	5468.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16935		-0.17221	-1241.0	-1456.5
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.18061	-0.01585	1506.4	1486.5
8947	1277.6	5495.3	L: Interface 14 Leeds-PV					2899.5	3450.0	0.43086		0.35318	2522.1	2973.3
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				0.57248	0.13569	659.3	832.7
8962	1314.1	5531.8	L: 130794 DELHI115	115	130804 DEL T115	115	1	68.4	164.0	0.07275		0.03934	0.5	52.2
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				-0.11754	-0.28430	-577.5	-951.1
9003	1373.8	5591.5	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1317.8	-1703.0	-0.28039		-0.22164	-997.1	-1301.6
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1				0.43391	-0.13539	-739.1	-925.1
9004	1374.2	5591.9	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1348.1	-1724.0	-0.27354		-0.17513	-863.0	-1103.7
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2	1005						
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.56508	-0.17416	-858.5	-1097.8
9009	1376.0	5593.7	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1430.3	-1725.0	-0.21415		-0.18097	-1281.0	-1530.1
			C:130750 COOPC345	345	130753 FRASR345	345	1	192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.14972	-0.22164	-997.1	-1302.1

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9044	1388.4	5606.0	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1345.1	-1724.0	-0.27291	-0.17416	-858.5	-1100.3
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1 1004						
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.56388	-0.17513	-863.0	-1106.1
9191	1423.8	5641.4	L: Interface 52 PJMEast-G					-76.3	-0.0	0.05357	0.00000	0.4	0.4
			C:ETHS/NWES/LLGD				1648						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.37609	-0.07609	117.6	9.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.38778	-0.03170	43.0	-2.2
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			-0.41556	-0.03046	38.0	-5.4
9192	1423.8	5641.4	L: Interface 51 G-PJMEast					76.3	0.0	-0.05357	-0.00000	-0.4	-0.4
			C:ETHS/NWES/LLGD				1648						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.37609	-0.07609	117.6	9.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.38778	-0.03170	43.0	-2.2
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.41556	-0.03046	38.0	-5.4
9263	1427.6	5645.2	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1425.1	-1725.0	-0.21009	-0.17221	-1241.0	-1486.9
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1			-0.27915	0.13569	659.3	853.0
11946	1443.8	5661.4	*L: Interface 52 PJMEast-G					-48.0	-0.0	0.03322	0.00000	0.4	0.4
			C:SER:C398/NWES				1605						
			Open 409 GROVER	230	200675 E.TWANDA	230	1			-0.02734	0.00120	-15.6	-13.8
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.30865	-0.07609	117.6	7.8
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			-0.01228	-0.00618	-52.1	-61.1
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.30588	-0.03170	43.0	-2.8
11947	1443.8	5661.4	*L: Interface 51 G-PJMEast					48.0	0.0	-0.03322	-0.00000	-0.4	-0.4
			C:SER:C398/NWES				1605						
			Open 409 GROVER	230	200675 E.TWANDA	230	1			0.02734	0.00120	-15.6	-13.8
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.30865	-0.07609	117.6	7.8
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			0.01228	-0.00618	-52.1	-61.1
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.30588	-0.03170	43.0	-2.8
12090	1449.6	5667.3	L: 130817 JENN 115	115	130819 KATEL115	115	1	-107.6	-159.0	-0.03543	-0.01763	-71.5	-97.1
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			0.06259	-0.28430	-577.5	-989.6
12181	1456.2	5673.9	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-237.7	-317.0	-0.05443	-0.03004	-161.7	-205.5
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1 9						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.17871	-0.13649	-425.4	-624.1
12288	1494.2	5711.9	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1350.8	1793.0	0.29594	0.18663	874.1	1152.9
			C:125001 ROCK TAV	345	130750 COOPC345	345	2 8						
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2			-0.64149	-0.17040	-743.2	-997.8
12303	1523.1	5740.8	L: Interface 14 Leeds-PV					2813.4	3450.0	0.41794	0.35318	2522.1	3060.0
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			-0.29219	-0.22164	-997.1	-1334.7
12380	1643.6	5861.3	L: Interface 32 F-To-G					3713.3	4643.0	0.56566			
			Base Case										
12397	1677.7	5895.3	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1383.1	-1725.0	-0.20379	-0.17221	-1241.0	-1530.0
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.14248	-0.22164	-997.1	-1368.9
12406	1689.2	5906.9	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08226	0.05014	448.0	532.7
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.14263	0.22519	1114.8	1495.2

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12407	1689.2	5906.9	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08226	0.05014	448.0	532.7
			C:SIN:440				1683						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.14263	0.22519	1114.8	1495.2
12418	1726.7	5944.4	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-1008.0	-1345.0	-0.19516	-0.13539	-739.1	-972.9
			C:130750 COOPC345	345	130753 FRASR345	345	1	192					
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.26966	-0.22164	-997.1	-1379.8
12419	1739.2	5956.9	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1292.6	-1793.0	-0.28771	-0.17040	-743.2	-1039.5
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195					
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.62859	0.18663	874.1	1198.7
12420	1748.3	5965.9	L: 130817 JENN 115	115	130851 SIDNT115	115	1	53.9	120.0	0.03783	0.02108	19.8	56.7
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			-0.05894	-0.28430	-577.5	-1074.6
12423	1755.9	5973.6	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	46.7	143.0	0.05485	0.03523	18.7	80.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.10628	-0.18460	-263.5	-587.7
12424	1759.0	5976.7	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.3	173.0	0.04190	0.02814	78.2	127.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04986	0.27581	422.3	907.4
12427	1791.5	6009.1	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-44.7	-143.0	-0.05485	-0.03523	-16.7	-79.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.10628	-0.18460	-263.5	-594.2
12430	1828.9	6046.6	L: Interface 23 QFW					892.6	0.0	-0.48802	-0.48453	1095.5	209.3
			C:GEN:KINTIGH-New				1775						
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	1			0.00000	-0.00496	-288.5	-297.6
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	2			0.35120	-0.00994	-577.7	-595.9
12431	1855.0	6072.6	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.0	159.0	0.03556	0.02383	75.1	119.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04252	0.27581	422.3	933.9
12432	1862.5	6080.2	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1262.4	-1793.0	-0.28487	-0.17040	-743.2	-1060.5
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.55569	0.18663	874.1	1221.7
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.07885	-0.13649	-425.4	-679.6
12433	1873.1	6090.8	L: 130757 WATRC345	345	200769 HOMER CY	345	1	-543.5	-755.0	-0.11289			
			Base Case										
12434	1873.1	6090.8	L: Interface 47 C-PJMWest					-543.5	-755.0	-0.11289			
			Base Case										
12435	1873.1	6090.8	L: Interface 48 PJMWest-C					543.5	755.0	0.11289			
			Base Case										
12436	1879.0	6096.7	L: Interface 23 QFW					910.4	0.0	-0.48453	-0.48453	1095.5	185.0
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW								
12437	1881.9	6099.5	L: Interface 23 QFW					918.7	-0.0	-0.48817	-0.48453	1095.5	183.6
			C:HQ-NY-765-New				1776						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.25138	0.00775	624.7	639.3
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.25138	0.00674	543.6	556.3
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					

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			Open 147838 MASS230B	230	147839	MOSES E	230	1		0.00000	-0.00725	10.3	-3.3		
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839	MOSES E	230	1		-0.09617	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by		100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to		357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by		100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to		357.0	MW dispatch							
12442	1903.5	6121.1	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2		-1353.2	-1725.0	-0.19533	-0.18097	-1281.0	-1625.5
			C:SER:CMT34&MTR34					1593							
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1		-0.09362	0.18663	874.1	1229.3		
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1		-0.02277	-0.13649	-425.4	-685.2		
12443	1910.2	6127.9	L: 130819 KATEL115	115	130838	OAKDL115	115	1		-124.3	-192.0	-0.03543	-0.01763	-88.2	-121.9
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755	OAKDL345	345	1		0.06259	-0.28430	-577.5	-1120.6		
12444	1914.4	6132.0	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2		-1353.2	-1725.0	-0.19419	-0.18097	-1281.0	-1627.5
			C:130750 COOPC345	345	147833	MARCY T1	345	1	196						
			Open 130750 COOPC345	345	147833	MARCY T1	345	1		0.09769	-0.13539	-739.1	-998.3		
12445	1941.1	6158.8	L: Interface 23 QFW							940.5	0.0	-0.48453	-0.48453	1095.5	154.9
			C:GEN:GINNA					1562							
			Remove unit 1 from bus 149140 GINNA 19	19.0	605.0	MW dispatch									
12446	1946.6	6164.3	L: 135872 SOUR-111	115	135873	SWDN-111	115	1		89.8	159.0	0.03556	0.02383	71.8	118.2
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		0.04252	0.27581	422.3	959.2		
12447	1956.3	6174.0	*L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2		-1344.5	-1725.0	-0.19451	-0.18097	-1281.0	-1635.1
			C:130750 COOPC345	345	146754	MDTN TAP	345	1	195						
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1		-0.07257	0.18663	874.1	1239.2		
12448	1963.5	6181.2	L: 130753 FRASR345	345	130755	OAKDL345	345	1		-772.3	-1380.0	-0.30950	-0.28430	-577.5	-1135.8
			C:130753 FRASR345	345	137200	EDIC	345	1	202						
			Open 130753 FRASR345	345	137200	EDIC	345	1		0.27558	-0.09144	-706.7	-886.3		
12451	1994.6	6212.2	L: Interface 23 QFW							966.4	-0.0	-0.48453	-0.48453	1095.5	129.0
			C:GEN:SEABROOK					1573							
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch									
12452	1994.6	6212.2	L: Interface 23 QFW							966.4	-0.0	-0.48453	-0.48453	1095.5	129.0
			C:GEN:SEAB&OMS					1575							
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1		
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch									
12453	1995.7	6213.3	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1		-544.9	-707.0	-0.08123	-0.05014	-448.0	-548.1
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	9						
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1		0.22773	-0.13649	-425.4	-697.7		
12454	2001.3	6219.0	L: Interface 23 QFW							969.7	0.0	-0.48453	-0.48453	1095.5	125.8
			C:SIN:250					1677							
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1		
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch									
12455	2003.5	6221.1	L: Interface 23 QFW							970.7	0.0	-0.48453	-0.48453	1095.5	124.7
			C:GEN:MLS3&OMS					1574							

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			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00003	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
12456	2003.5	6221.1	L: Interface 23 QFW					970.7	0.0	-0.48453		-0.48453	1095.5 124.7
			C:GEN:MILLST 3				1572						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
12460	2023.9	6241.5	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.9	173.0	0.03609		0.02814	78.2 135.2
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.04136	0.19221	524.7 913.7
12461	2025.3	6243.0	*L: Interface 23 QFW					972.3	-0.0	-0.48008		-0.48453	1095.5 114.1
			C:SER:HC-SR_37&W-F_171				1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1				0.30257	0.01417	-378.4 -349.7
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.24131	0.00066	-35.9 -34.6
12468	2060.7	6278.3	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1214.0	-1724.0	-0.24748		-0.17416	-858.5 -1217.4
			C:BUS:N.S._77				1614						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.60779	-0.04338	-248.0 -337.4
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1				0.40443	0.00031	111.8 112.4
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.33531	0.17297	819.4 1175.9
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				-0.26699	-0.04091	-92.7 -177.0
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				0.20561	0.00000	-0.0 -0.0
12470	2064.7	6282.4	L: Interface 14 Leeds-PV					2662.9	3450.0	0.38122		0.35318	2522.1 3251.3
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				0.18272	0.18663	874.1 1259.4
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.04443	-0.13649	-425.4 -707.2
12476	2076.6	6294.2	L: Interface 14 Leeds-PV					2663.0	3450.0	0.37899		0.35318	2522.1 3255.5
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1				-0.19065	-0.13539	-739.1 -1020.3
12478	2092.5	6310.2	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-83.8	-173.0	-0.04261		-0.02862	-62.4 -122.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.05070	0.27581	422.3 999.4
12479	2097.1	6314.7	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1082.7	-1703.0	-0.29579		-0.22164	-997.1 -1461.9
			C:130753 FRASR345	345	147831 GILB 345	345	1 203						
			Open 130753 FRASR345	345	147831 GILB 345	345	1				-0.39383	0.18828	217.4 612.3
12480	2102.1	6319.8	L: 146758 CHESTER	138	146773 SGRLF138	138	1	202.6	317.0	0.05443		0.03004	126.6 189.7
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1 9						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				-0.17871	-0.13649	-425.4 -712.3
12482	2118.2	6335.9	L: Interface 14 Leeds-PV					2645.9	3450.0	0.37961		0.35318	2522.1 3270.2
			C:130750 COOPC345	345	146754 MDTN TAP	345	1 195						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				0.14164	0.18663	874.1 1269.4
12486	2136.8	6354.4	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.6	159.0	0.03061		0.02383	75.1 126.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03527	0.19221	524.7 935.4
12490	2146.9	6364.6	L: 135452 LOCKPORT	115	135876 TELRDTP1	115	1	104.1	180.0	0.03537		0.02370	86.2 137.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04231	0.27581	422.3 1014.4
12503	2173.1	6390.8	L: Interface 14 Leeds-PV					2625.9	3450.0	0.37921		0.35318	2522.1 3289.6
			C:SER:PV_LM_398				1597						
			Open 103105 LONG MTN	345	103117 CTNY398	345	1				0.33673	0.07731	308.5 476.5
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1				-0.23700	0.00000	0.2 0.2

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12504	2173.2	6390.9	*L: Interface 14 Leeds-PV			2625.9	3450.0	0.37921		0.35318	2522.1	3289.6				
			C:103117 CTNY398	345	126294 PLTVLLEY	345	1	1362								
			Open 103117 CTNY398		345 126294 PLTVLLEY		345	1								
12506	2173.5	6391.2	L: 130757 WATRC345	345	130768 WATRC230	230	1		455.1	600.0	0.06666	0.33673	0.07731	308.3	476.3	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206								
			Open 130755 OAKDL345		345 130757 WATRC345		345	1								
12528	2215.3	6433.0	L: 135850 SOUR-114	115	135861 MORTIMER	115	1		71.0	153.0	0.03701		0.02481	52.3	107.3	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226								
			Open 147834 NIAG 345		345 149000 ROCH 345		345	1					0.04425	0.27581	422.3	1033.3
12547	2234.2	6451.8	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1		-1309.7	-1725.0	-0.18588		-0.17221	-1241.0	-1625.8	
			C:SER:CMT34&MTR34					1593								
			Open 130750 COOPC345		345 146754 MDTN TAP		345	1					-0.08910	0.18663	874.1	1291.0
			Open 125001 ROCK TAV		345 146754 MDTN TAP		345	1					-0.02167	-0.13649	-425.4	-730.3
12557	2238.2	6455.9	L: 130836 N.WAV115	115	131018 LOUNTS115	115	1		50.2	173.0	0.05485		0.03523	22.2	101.1	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206								
			Open 130755 OAKDL345		345 130757 WATRC345		345	1								
12568	2243.3	6460.9	L: 135872 SOUR-111	115	135873 SWDN-111	115	1		90.3	159.0	0.03061		0.02383	71.8	125.3	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205								
			Open 130754 KINTI345		345 149000 ROCH 345		345	1					0.03527	0.19221	524.7	955.8
12586	2247.0	6464.7	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1		-1309.8	-1725.0	-0.18480		-0.17221	-1241.0	-1628.0	
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196								
			Open 130750 COOPC345		345 147833 MARCY T1		345	1					0.09296	-0.13539	-739.1	-1043.4
12589	2248.8	6466.5	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1147.3	-1703.0	-0.24713		-0.22164	-997.1	-1495.5	
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1007								
			Open 137451 LEEDS 3		345 147831 GILB 345		345	1					0.16344	-0.15592	-918.9	-1269.5
13803	2262.5	6480.1	L: 130794 DELHI115	115	130851 SIDNT115	115	1		-35.8	-120.0	-0.03721		-0.02057	-2.0	-48.6	
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200								
			Open 130753 FRASR345		345 130755 OAKDL345		345	1					0.05853	-0.28430	-577.5	-1220.7
14106	2271.3	6489.0	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1		98.3	180.0	0.03598		0.02411	80.1	134.9	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226								
			Open 147834 NIAG 345		345 149000 ROCH 345		345	1					0.04302	0.27581	422.3	1048.7
14120	2272.8	6490.4	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1		448.0	562.0	0.05014					
			Base Case													
14187	2280.2	6497.9	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1		-1229.4	-1792.0	-0.24673		-0.18563	-916.1	-1339.3	
			C:SIN:160					1670								
			Open 137200 EDIC		345 137452 N.SCOT77		345	1					-0.35322	0.17297	819.4	1213.8
			Open 137228 INGMS-CD		115 137886 INGHAM-E		115	1					-0.19918	0.00000	119.9	119.9
			Open 137235 PORTER 1		115 137246 VALLEY		115	1					-0.00023	-0.00032	74.8	74.1
14188	2280.2	6497.9	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1		-1229.4	-1792.0	-0.24673		-0.18563	-916.1	-1339.3	
			C:SIN:150					1669								
			Open 137200 EDIC		345 137452 N.SCOT77		345	1					-0.35322	0.17297	819.4	1213.8
			Open 137228 INGMS-CD		115 137886 INGHAM-E		115	1					-0.19920	0.00000	119.9	119.9
			Open 137235 PORTER 1		115 147905 ILION		115	1					-0.00016	-0.00021	88.8	88.3
14201	2284.9	6502.6	L: Interface 59 MarcySouthS						1736.2	2552.0	0.35703					
			Base Case													
14211	2288.4	6506.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1		-1301.4	-1725.0	-0.18510		-0.17221	-1241.0	-1635.1	
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195								
			Open 130750 COOPC345		345 146754 MDTN TAP		345	1					-0.06906	0.18663	874.1	1301.2

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14219	2293.7	6511.4	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	192.0	280.0	0.03835	0.02453	170.9	227.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.05011	0.27581	422.3	1054.9
14251	2319.5	6537.2	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-238.5	-430.0	-0.08254			
			Base Case										
14257	2334.0	6551.7	L: 130815 HINMN115	115	131611 HARIS115	115	1	-218.9	-306.0	-0.03730	-0.02388	-198.4	-254.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04868	0.27581	422.3	1066.0
14267	2343.5	6561.2	*L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1291.7	-1725.0	-0.18491	-0.17221	-1241.0	-1644.6
			C:SER:PV_LM_398				1597						
			Open 103105 LONG MTN	345	103117 CTNY398	345	1			-0.16419	0.07731	308.5	489.7
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			0.11556	0.00000	0.2	0.2
14274	2349.3	6567.0	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1184.4	-1724.0	-0.22967	-0.17513	-863.0	-1274.4
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34981	-0.15592	-918.9	-1285.2
14305	2378.5	6596.1	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1180.0	-1724.0	-0.22872	-0.17416	-858.5	-1272.7
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34992	-0.15592	-918.9	-1289.7
14308	2383.0	6600.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-577.5	-1255.0	-0.28430			
			Base Case										
14339	2411.0	6628.7	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-84.5	-173.0	-0.03670	-0.02862	-62.4	-131.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04206	0.19221	524.7	988.1
14341	2414.0	6631.6	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1199.5	-1792.0	-0.24545	-0.18563	-916.1	-1364.2
			C:137200 EDIC	345	137452 N.SCOT77	345	1 946						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.34586	0.17297	819.4	1237.0
14352	2421.1	6638.7	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-656.6	-1380.0	-0.29879	-0.28430	-577.5	-1265.8
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.10700	-0.13539	-739.1	-1066.9
14447	2444.3	6662.0	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	228.6	430.0	0.08240			
			Base Case										
14450	2444.6	6662.3	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1149.2	1724.0	0.23515	0.17297	819.4	1242.3
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33494	-0.18563	-916.1	-1369.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19090	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00024	-0.00032	74.8	74.1
14451	2444.6	6662.3	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1149.2	1724.0	0.23515	0.17297	819.4	1242.3
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33494	-0.18563	-916.1	-1369.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19092	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00016	-0.00021	88.8	88.3
14523	2448.3	6666.0	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-301.9	-540.0	-0.09725	-0.08254	-238.5	-440.6
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.11957	-0.11289	-543.5	-819.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.03821	-0.03170	43.0	-34.6
14768	2452.5	6670.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.29779	-0.28430	-577.5	-1274.8
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.18563	-916.1	-1371.3

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				Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1					-0.04702	0.00000	119.9	119.9		
				Open 137235	PORTER 1	115	147905	ILION	115	1					0.00061	-0.00021	88.8	88.3		
14771	2452.6	6670.2	L:	130753	FRASR345	345	130755	OAKDL345	345	1					-649.7	-1380.0	-0.29779	-0.28430	-577.5	-1274.8
				C:SIN:170						1671										
				Open 137453	N.SCOT99	345	147833	MARCY T1	345	1					0.07265	-0.18563	-916.1	-1371.3		
				Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1					-0.04710	0.00000	119.9	119.9		
				Open 137235	PORTER 1	115	137246	VALLEY	115	1					0.00092	-0.00032	74.8	74.1		
15893	2466.6	6684.3	L:	130753	FRASR345	345	130755	OAKDL345	345	1					-678.7	-1380.0	-0.28430	-0.28430	-577.5	-1278.8
				C:SIN:250						1677										
				Open 100508	SANDB115	115	100509	SB RCTOR	115	2					0.00002	0.00000	-0.1	-0.1		
				Remove unit 3	from bus	103563	MILL#3		24.0	1276.0	MW	dispatch								
15922	2474.0	6691.7	L:	130764	MEYER230	230	131122	WTHRS230	230	1					-302.8	-540.0	-0.09588	-0.08254	-238.5	-442.8
				C:130757	WATRC345	345	200769	HOMER CY	345	1	1374									
				Open 130757	WATRC345	345	200769	HOMER CY	345	1					0.11819	-0.11289	-543.5	-822.8		
15930	2475.8	6693.5	L:	146754	MDTN TAP	345	146772	SHOEMTAP	138	1					544.9	746.0	0.08123	0.05014	448.0	572.2
				C:125001	ROCK TAV	345	146754	MDTN TAP	345	1	9									
				Open 125001	ROCK TAV	345	146754	MDTN TAP	345	1					-0.22773	-0.13649	-425.4	-763.3		
15933	2476.1	6693.8	L:	135452	LOCKPORT	115	135876	TELRDTP1	115	1					104.6	180.0	0.03044	0.02370	86.2	144.9
				C:130754	KINTI345	345	149000	ROCH 345	345	1	205									
				Open 130754	KINTI345	345	149000	ROCH 345	345	1					0.03510	0.19221	524.7	1000.6		
15939	2479.3	6697.0	L:	130753	FRASR345	345	130755	OAKDL345	345	1					-642.5	-1380.0	-0.29746	-0.28430	-577.5	-1282.4
				C:137453	N.SCOT99	345	147833	MARCY T1	345	1	1012									
				Open 137453	N.SCOT99	345	147833	MARCY T1	345	1					0.07092	-0.18563	-916.1	-1376.3		
15967	2494.2	6711.9	L:	130753	FRASR345	345	130755	OAKDL345	345	1					-640.6	-1380.0	-0.29645	-0.28430	-577.5	-1286.6
				C:SIN:150						1669										
				Open 137200	EDIC	345	137452	N.SCOT77	345	1					-0.07027	0.17297	819.4	1250.9		
				Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1					-0.04606	0.00000	119.9	119.9		
				Open 137235	PORTER 1	115	147905	ILION	115	1					0.00061	-0.00021	88.8	88.3		
15968	2494.2	6711.9	L:	130753	FRASR345	345	130755	OAKDL345	345	1					-640.6	-1380.0	-0.29645	-0.28430	-577.5	-1286.6
				C:SIN:160						1670										
				Open 137200	EDIC	345	137452	N.SCOT77	345	1					-0.07027	0.17297	819.4	1250.9		
				Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1					-0.04614	0.00000	119.9	119.9		
				Open 137235	PORTER 1	115	137246	VALLEY	115	1					0.00092	-0.00032	74.8	74.0		
15975	2497.8	6715.5	L:	130764	MEYER230	230	131122	WTHRS230	230	1					-300.6	-540.0	-0.09585	-0.08254	-238.5	-444.7
				C:SIN:171						1601										
				Open 130757	WATRC345	345	200769	HOMER CY	345	1					0.11761	-0.11289	-543.5	-825.5		
				Open 135277	FALCONER	115	200579	WARREN	115	1					-0.05269	0.00066	-35.9	-34.3		
15986	2501.7	6719.4	L:	130753	FRASR345	345	130755	OAKDL345	345	1					-668.8	-1380.0	-0.28430	-0.28430	-577.5	-1288.8
				C:GEN:SEABROOK						1573										
				Remove unit 1	from bus	102869	SBRK G1		25.0	1318.0	MW	dispatch								
15987	2501.7	6719.4	*L:	130753	FRASR345	345	130755	OAKDL345	345	1					-668.8	-1380.0	-0.28430	-0.28430	-577.5	-1288.8
				C:GEN:SEAB&OMS						1575										
				Open 100508	SANDB115	115	100509	SB RCTOR	115	2					0.00002	0.00000	-0.1	-0.1		
				Remove unit 1	from bus	102869	SBRK G1		25.0	1318.0	MW	dispatch								
15990	2505.9	6723.6	L:	131018	LOUNSI15	115	131850	CNYOG115	115	1					16.6	143.0	0.05044	0.03523	18.7	107.0
				C:BUS:WATERCURE_345						1632										
				Open 130757	WATRC345	345	200769	HOMER CY	345	1					-0.05669	-0.11289	-543.5	-826.4		
				Open 130757	WATRC345	345	130768	WATRC230	230	1					-0.12286	-0.07170	257.6	77.9		

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			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.05534	0.00000	22.4	22.4
16032	2535.6	6753.3	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	-11.0	143.0	0.06073		0.03523	18.7	108.0
			C:BUS:WATERCURE_230				1633							
			Open 130768 WATRC230	230	130772 SHRED230	230	1				0.24198	0.05141	71.0	201.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.18211	-0.07170	257.6	75.8
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.12849	0.00000	0.5	0.5
16037	2539.0	6756.7	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	-3.7	-143.0	-0.05485		-0.03523	24.3	-65.2
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.10628	-0.18460	-263.5	-732.2
16043	2544.3	6762.0	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	88.4	180.0	0.03598		0.02412	70.3	131.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04303	0.27581	422.3	1124.0
16044	2544.5	6762.2	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-14.7	-143.0	-0.05044		-0.03523	-16.7	-106.4
			C:BUS:WATERCURE_345				1632							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.05669	-0.11289	-543.5	-830.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.12286	-0.07170	257.6	75.1
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.05534	0.00000	22.4	22.4
16056	2549.6	6767.2	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1095.5	-1703.0	-0.23828		-0.22164	-997.1	-1562.2
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1				0.10944	-0.15203	-899.2	-1286.8
16058	2554.4	6772.1	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	291.9	540.0	0.09711		0.08240	228.6	439.1
			C:SER:HCWC/NWES				1607							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11957	-0.11289	-543.5	-831.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.03821	-0.03170	43.0	-38.0
16059	2555.3	6773.0	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	71.6	153.0	0.03186		0.02481	52.3	115.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03671	0.19221	524.7	1015.8
16067	2565.1	6782.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1097.9	-1703.0	-0.23589		-0.22164	-997.1	-1565.6
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	120						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				0.07872	-0.18097	-1281.0	-1745.2
16070	2566.8	6784.5	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1	-85.0	-180.0	-0.03702		-0.02481	-66.3	-130.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.04426	0.27581	422.3	1130.2
16071	2567.7	6785.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	12.9	-143.0	-0.06073		-0.03523	-16.7	-107.2
			C:BUS:WATERCURE_230				1633							
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.24198	0.05141	71.0	203.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.18211	-0.07170	257.6	73.5
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.12849	0.00000	0.5	0.5
16080	2574.7	6792.4	L: 130767 STOLE230	230	130770 SHLDN230	230	1	218.2	430.0	0.08224				
			Base Case											
16082	2574.8	6792.5	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-63.3	-173.0	-0.04261		-0.02862	-41.9	-115.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.05070	0.27581	422.3	1132.4
16090	2581.7	6799.3	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	292.8	540.0	0.09574		0.08240	228.6	441.3
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11819	-0.11289	-543.5	-835.0
16092	2584.2	6801.8	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1119.7	1724.0	0.23383		0.17297	819.4	1266.4
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012						

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			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.32784	-0.18563	-916.1	-1395.8
16099	2590.5	6808.2	L: 147834 NIAG 345	345	149000	ROCH 345	345	1	703.6	1685.0	0.37886		0.27581	422.3	1136.8
			C:130754 KINTI345	345	149000	ROCH 345	345	1							
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.53611	0.19221	524.7	1022.6
16117	2598.1	6815.7	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1092.7	-1703.0	-0.23491		-0.22164	-997.1	-1572.9
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1							
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1				0.07704	-0.17221	-1241.0	-1688.5
16137	2605.5	6823.2	L: 130770 SHLDN230	230	131122	WTHRS230	230	1	290.6	540.0	0.09571		0.08240	228.6	443.3
			C:SER:HC-WC_30&W-F_171					1601							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.11761	-0.11289	-543.5	-837.7
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.05269	0.00066	-35.9	-34.2
16214	2619.1	6836.8	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-54.4	-153.0	-0.03763		-0.02522	-35.4	-101.5
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				-0.04499	0.27581	422.3	1144.6
16239	2620.4	6838.1	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1	98.8	180.0	0.03097		0.02411	80.1	143.3
			C:130754 KINTI345	345	149000	ROCH 345	345	1							
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.03569	0.19221	524.7	1028.3
17570	2632.7	6850.4	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1083.6	-1703.0	-0.23528		-0.22164	-997.1	-1580.6
			C:BUS:N.S._99					1615							
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1				0.12460	-0.03237	-310.7	-395.9
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				0.04425	-0.18563	-916.1	-1404.8
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				-0.00286	0.00045	118.7	119.9
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				0.00800	-0.17416	-858.5	-1317.0
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				-0.01512	0.00000	1.6	1.6
17623	2637.2	6854.8	L: 137200 EDIC	345	137452	N.SCOT77	345	1	1117.4	1724.0	0.23003		0.17297	819.4	1275.6
			C:BUS:N.S._99					1615							
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1				-0.18532	-0.03237	-310.7	-396.1
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.38312	-0.18563	-916.1	-1405.6
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				-0.09741	0.00045	118.7	119.9
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				0.11491	-0.17416	-858.5	-1317.8
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				-0.24148	0.00000	1.6	1.6
17667	2644.5	6862.2	L: 131018 LOUNSL15	115	131850	CNYOG115	115	1	47.6	143.0	0.03608		0.03523	18.7	111.8
			C:130755 OAKDL345	345	131128	LAPEER	345	1							
			Open 130755 OAKDL345	345	131128	LAPEER	345	1				-0.05020	-0.01699	-575.7	-620.7
17675	2645.8	6863.5	L: 131018 LOUNSL15	115	131850	CNYOG115	115	1	29.3	143.0	0.04296		0.03523	18.7	111.9
			C:130768 WATRC230	230	130772	SHRED230	230	1							
			Open 130768 WATRC230	230	130772	SHRED230	230	1				0.15025	0.05141	71.0	207.0
17687	2649.0	6866.6	L: 131018 LOUNSL15	115	131850	CNYOG115	115	1	18.7	112.0	0.03523				
			Base Case												
17706	2654.8	6872.5	L: 130764 MEYER230	230	131122	WTHRS230	230	1	-268.7	-540.0	-0.10221		-0.08254	-238.5	-457.7
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				-0.07131	0.27581	422.3	1154.5
17726	2661.8	6879.5	L: 131018 LOUNSL15	115	131850	CNYOG115	115	1	28.7	143.0	0.04296		0.03523	18.7	112.5
			C:SER:OAKDALE_WATRC230					1594							
			Open 130768 WATRC230	230	130772	SHRED230	230	1				0.15025	0.05141	71.0	207.9
			Open 130765 OAKDL230	230	130772	SHRED230	230	1	NA						
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1				-0.10162	0.00000	6.8	6.8
17728	2665.2	6882.9	L: 130767 STOLE230	230	130770	SHLDN230	230	1	281.6	540.0	0.09696		0.08224	218.2	437.4

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			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.00924	-0.03170	43.0	-42.9
17801	2708.3	6926.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	87.6	173.0	0.03152		0.02814	78.2	154.5
			C:130770 SHLDN230	230	131122 WTHRS230	230	1							
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				0.04101	0.08240	228.6	451.8
17803	2708.6	6926.3	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	76.3	173.0	0.03568		0.02814	78.2	154.5
			C:130754 KINTI345	345	147834 NIAG 345	345	1							
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				-0.04136	-0.18226	46.0	-447.7
17804	2709.3	6927.0	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	195.5	280.0	0.03120		0.02453	170.9	237.3
			C:130766 ROBIN230	230	130767 STOLE230	230	1							
			Open 130766 ROBIN230	230	130767 STOLE230	230	1				0.26884	0.02482	91.5	158.7
17816	2712.6	6930.3	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1318.9	-1912.0	-0.21864		-0.15592	-918.9	-1341.8
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.62614	-0.03237	-310.7	-398.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.16124	-0.18563	-916.1	-1419.6
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.03268	0.00045	118.7	119.9
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.07201	-0.17416	-858.5	-1330.9
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.10439	0.00000	1.6	1.6
17820	2713.2	6930.9	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-858.5	-1331.0	-0.17416				
			Base Case											
17821	2713.9	6931.6	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.04296		-0.03523	-16.7	-112.3
			C:130765 OAKDL230	230	130772 SHRED230	230	1							
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				0.15025	-0.05141	-64.5	-204.1
17824	2714.9	6932.5	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.04296		-0.03523	-16.7	-112.4
			C:130765 OAKDL230	230	130838 OAKDL115	115	1							
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				-0.15025	0.05141	64.3	203.8
17825	2715.2	6932.9	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1063.9	-1703.0	-0.23539		-0.22164	-997.1	-1598.9
			C:125000 HURLEY 3	345	125002 ROSETON	345	1							
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.10131	0.13569	659.3	1027.7
17828	2717.1	6934.7	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-195.9	-383.0	-0.06887		-0.05563	-133.9	-285.1
			C:SER:HCWC/NWES											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11471	-0.11289	-543.5	-850.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00924	-0.03170	43.0	-43.2
17830	2718.0	6935.7	L: 130767 STOLE230	230	130770 SHLDN230	230	1	280.3	540.0	0.09556		0.08224	218.2	441.8
			C:SER:HC-WC_30&W-F_171											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11761	-0.11289	-543.5	-850.4
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.05269	0.00066	-35.9	-34.1
17831	2718.0	6935.7	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	196.7	383.0	0.06854		0.05563	134.5	285.7
			C:130757 WATRC345	345	200769 HOMER CY	345	1							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11437	-0.11289	-543.5	-850.4
17839	2722.3	6940.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	87.2	173.0	0.03152		0.02814	78.2	154.9
			C:130767 STOLE230	230	130770 SHLDN230	230	1							
			Open 130767 STOLE230	230	130770 SHLDN230	230	1				0.04101	0.08224	218.2	442.1
17848	2727.1	6944.7	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-196.1	-383.0	-0.06854		-0.05563	-133.9	-285.6
			C:130757 WATRC345	345	200769 HOMER CY	345	1							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11437	-0.11289	-543.5	-851.4
17853	2731.4	6949.1	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-448.0	-585.0	-0.05014				
			Base Case											
17854	2732.0	6949.6	L: 130815 HINMN115	115	131611 HARIS115	115	1	-219.6	-306.0	-0.03164		-0.02388	-198.4	-263.6

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				C:130754 KINTI345	345	149000	ROCH	345	345	1	205								
				Open 130754 KINTI345	345	149000	ROCH	345	345	1									
17855	2732.5	6950.2		L: 130848 S.OWE115	115	131850	CNYOG115	115	1			20.4	-143.0	-0.05980		-0.04038	0.19221	524.7	1049.8
				C:130763 HILSD230	230	130768	WATRC230	230	1	219									
				Open 130763 HILSD230	230	130768	WATRC230	230	1										
17869	2743.7	6961.3		L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1			195.0	383.0	0.06852		-0.19959	0.12311	-186.1	150.3
				C:SER:HC-WC_30&W-F_171						1601									
				Open 130757 WATRC345	345	200769	HOMER CY	345	1										
				Open 135277 FALCONER	115	200579	WARREN	115	1										
17871	2744.1	6961.8		L: 130753 FRASR345	345	137200	EDIC	345	1			-886.4	-1380.0	-0.17988		-0.11393	-0.11289	-543.5	-853.3
				C:130753 FRASR345	345	130755	OAKDL345	345	1	200									
				Open 130753 FRASR345	345	130755	OAKDL345	345	1										
17877	2752.7	6970.4		L: 130763 HILSD230	230	131154	STONY RIDGE	230	1			-194.4	-383.0	-0.06852		0.31108	-0.28430	-577.5	-1357.7
				C:SER:HC-WC_30&W-F_171						1601									
				Open 130757 WATRC345	345	200769	HOMER CY	345	1										
				Open 135277 FALCONER	115	200579	WARREN	115	1										
17887	2756.0	6973.7		L: 130770 SHLDN230	230	131122	WTHRS230	230	1			258.7	540.0	0.10206		-0.04046	0.00066	-35.9	-34.1
				C:147834 NIAG 345	345	149000	ROCH	345	1	1226									
				Open 147834 NIAG 345	345	149000	ROCH	345	1										
17890	2758.2	6975.8		L: 130815 HINMN115	115	131611	HARIS115	115	1			-222.3	-306.0	-0.03036		0.07131	0.27581	422.3	1182.4
				C:130766 ROBIN230	230	130767	STOLE230	230	1	224									
				Open 130766 ROBIN230	230	130767	STOLE230	230	1										
17996	2794.4	7012.1		L: 130750 COOPC345	345	130753	FRASR345	345	1			-1051.1	-1703.0	-0.23327		-0.26115	0.02482	91.5	159.9
				C:BUS:N.S._77						1614									
				Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1										
				Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1										
				Open 137200 EDIC	345	137452	N.SCOT77	345	1										
				Open 137450 ALPS345	345	137452	N.SCOT77	345	1										
				Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1										
19221	2811.1	7028.8		L: Interface	59	MarcySouthS						1937.7	3048.0	0.39498		-0.01068	0.00000	-0.0	-0.0
				C:BUS:N.S._99						1615									
				Open 137453 N.SCOT99	345	147831	GILB	345	1										
				Open 137453 N.SCOT99	345	147833	MARCY T1	345	1										
				Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1										
				Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2										
				Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1										
19556	2818.4	7036.1		L: 130815 HINMN115	115	135452	LOCKPORT	115	1			191.1	280.0	0.03154		0.02237	0.00000	1.6	1.6
				C:130764 MEYER230	230	131122	WTHRS230	230	1	221									
				Open 130764 MEYER230	230	131122	WTHRS230	230	1										
19613	2819.8	7037.5		L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1			85.7	173.0	0.03095		-0.08488	-0.08254	-238.5	-471.2
				C:135850 SOUR-114	115	135876	TELRDTP1	115	1	673									
				Open 135850 SOUR-114	115	135876	TELRDTP1	115	1										
20843	2824.0	7041.7		L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1			86.3	173.0	0.03070		-0.03945	-0.17416	-858.5	-1348.1
				C:135452 LOCKPORT	115	135872	SOUR-111	115	1	599									
				Open 135452 LOCKPORT	115	135872	SOUR-111	115	1										
20963	2826.7	7044.3		L: 135452 LOCKPORT	115	135872	SOUR-111	115	1			73.5	159.0	0.03026		0.10725	0.02383	75.1	142.4
				C:130754 KINTI345	345	147834	NIAG	345	1	204									
				Open 130754 KINTI345	345	147834	NIAG	345	1										

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21071	2833.1	7050.8	L: Interface 32 F-To-G			4205.5	6118.0	0.67507		0.56566	3713.3	5315.9
			C:130750 COOPC345 345 130753 FRASR345 345 1 192									
			Open 130750 COOPC345 345 130753 FRASR345 345 1						-0.49362	-0.22164	-997.1	-1625.0
21086	2835.2	7052.8	L: 135859 LAPPINS1 115 135866 NLEROYTA 115 1		84.6	173.0	0.03117		0.02814	78.2	158.0	
			C:135850 SOUR-114 115 135861 MORTIMER 115 1 672									
			Open 135850 SOUR-114 115 135861 MORTIMER 115 1						0.12194	0.02481	52.3	122.7
21089	2835.4	7053.1	*L: 135859 LAPPINS1 115 135866 NLEROYTA 115 1		86.0	173.0	0.03070		0.02814	78.2	158.0	
			C:135872 SOUR-111 115 135873 SWDN-111 115 1 706									
			Open 135872 SOUR-111 115 135873 SWDN-111 115 1						0.10725	0.02383	71.8	139.4
21142	2846.3	7064.0	L: 130815 HINMN115 115 135452 LOCKPORT 115 1		190.3	280.0	0.03152		0.02453	170.9	240.7	
			C:130770 SHLDN230 230 131122 WTHRS230 230 1 228									
			Open 130770 SHLDN230 230 131122 WTHRS230 230 1						0.08488	0.08240	228.6	463.1
21177	2861.7	7079.4	L: 130767 STOLE230 230 130770 SHLDN230 230 1		248.4	540.0	0.10191		0.08224	218.2	453.6	
			C:147834 NIAG 345 345 149000 ROCH 345 345 1 1226									
			Open 147834 NIAG 345 345 149000 ROCH 345 345 1						0.07131	0.27581	422.3	1211.6
21178	2863.0	7080.6	*L: 130750 COOPC345 345 130753 FRASR345 345 1		-1030.5	-1703.0	-0.23491		-0.22164	-997.1	-1631.6	
			C:137451 LEEDS 3 345 137455 ATHENS 345 1 1006									
			Open 137451 LEEDS 3 345 137455 ATHENS 345 1						-0.07704	0.17221	433.3	926.3
21187	2866.6	7084.3	L: 130815 HINMN115 115 131611 HARIS115 115 1		-218.0	-306.0	-0.03068		-0.02388	-198.4	-266.8	
			C:130764 MEYER230 230 131122 WTHRS230 230 1 221									
			Open 130764 MEYER230 230 131122 WTHRS230 230 1						0.08245	-0.08254	-238.5	-475.2
21188	2867.4	7085.1	L: 136150 CLAY 345 137200 EDIC 345 2		766.3	1434.0	0.23285		0.17522	576.6	1079.1	
			C:136150 CLAY 345 137200 EDIC 345 1 715									
			Open 136150 CLAY 345 137200 EDIC 345 1						0.33000	0.17463	574.8	1075.6
21191	2875.4	7093.0	L: 130815 HINMN115 115 135452 LOCKPORT 115 1		189.4	280.0	0.03151		0.02453	170.9	241.4	
			C:130767 STOLE230 230 130770 SHLDN230 230 1 226									
			Open 130767 STOLE230 230 130770 SHLDN230 230 1						0.08488	0.08224	218.2	454.7
21200	2879.6	7097.2	L: 130764 MEYER230 230 131122 WTHRS230 230 1		-269.6	-540.0	-0.09391		-0.08254	-238.5	-476.2	
			C:130754 KINTI345 345 149000 ROCH 345 345 1 205									
			Open 130754 KINTI345 345 149000 ROCH 345 345 1						-0.05915	0.19221	524.7	1078.1
21201	2880.9	7098.6	L: 136150 CLAY 345 137200 EDIC 345 1		764.7	1434.0	0.23232		0.17463	574.8	1077.9	
			C:136150 CLAY 345 137200 EDIC 345 2 716									
			Open 136150 CLAY 345 137200 EDIC 345 2						0.32927	0.17522	576.6	1081.4
21225	2888.5	7106.2	L: 130794 DELHI115 115 130838 OAKDL115 115 1		-76.3	-179.0	-0.03554		-0.01877	-42.2	-96.5	
			C:130753 FRASR345 345 130755 OAKDL345 345 1 200									
			Open 130753 FRASR345 345 130755 OAKDL345 345 1						0.05902	-0.28430	-577.5	-1398.7
21232	2894.5	7112.1	L: 130815 HINMN115 115 131611 HARIS115 115 1		-217.2	-306.0	-0.03067		-0.02388	-198.4	-267.5	
			C:130770 SHLDN230 230 131122 WTHRS230 230 1 228									
			Open 130770 SHLDN230 230 131122 WTHRS230 230 1						-0.08245	0.08240	228.6	467.1
21234	2895.8	7113.4	L: Interface 59 MarcySouthS		1815.4	3048.0	0.42564		0.35703	1736.2	2770.1	
			C:130753 FRASR345 345 147831 GILB 345 345 1 203									
			Open 130753 FRASR345 345 147831 GILB 345 345 1						0.36439	0.18828	217.4	762.6
21247	2905.0	7122.7	L: 130764 MEYER230 230 131122 WTHRS230 230 1		-303.1	-540.0	-0.08154		-0.08254	-238.5	-478.3	
			C:BUS:WATERCURE_345 1632									
			Open 130757 WATRC345 345 200769 HOMER CY 345 1						0.06555	-0.11289	-543.5	-871.5
			Open 130757 WATRC345 345 130768 WATRC230 230 1						-0.11714	-0.07170	257.6	49.3
			Open 130755 OAKDL345 345 130757 WATRC345 345 1						0.05467	0.00000	22.4	22.4
21251	2906.6	7124.3	L: 130753 FRASR345 345 147831 GILB 345 345 1		678.7	1524.0	0.29082		0.18828	217.4	764.7	

CE_Group

				C:130750 COOPC345	345	130753 FRASR345	345	1	192										
				Open 130750 COOPC345	345	130753 FRASR345	345	1											
21263	2923.5	7141.1	L:	130815 HINMN115	115	131611 HARIS115	115	1											
				C:130767 STOLE230	230	130770 SHLDN230	230	1	226										
				Open 130767 STOLE230	230	130770 SHLDN230	230	1											
21272	2934.4	7152.1	L:	135872 SOUR-111	115	135873 SWDN-111	115	1											
				C:130754 KINTI345	345	147834 NIAG 345	345	1	204										
				Open 130754 KINTI345	345	147834 NIAG 345	345	1											
21274	2937.5	7155.2	L:	135851 SHEL-113	115	135874 SWDN-113	115	1											
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1											
21278	2938.4	7156.1	*L:	131018 LOUNS115	115	131850 CNYOG115	115	1											
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1											
21279	2938.5	7156.2	L:	137453 N.SCOT99	345	147833 MARCY T1	345	1											
				C:BUS:N.S._77					1614										
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1											
				Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1											
				Open 137200 EDIC	345	137452 N.SCOT77	345	1											
				Open 137450 ALPS345	345	137452 N.SCOT77	345	1											
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1											
21284	2946.1	7163.8	L:	Interface 59		MarcySouthS													
				C:BUS:N.S._77					1614										
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1											
				Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1											
				Open 137200 EDIC	345	137452 N.SCOT77	345	1											
				Open 137450 ALPS345	345	137452 N.SCOT77	345	1											
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1											
21293	2957.3	7174.9	L:	130764 MEYER230	230	131122 WTHRS230	230	1											
				C:LKWANA-OXBW					1651										
				Open 417 OXBOW	230	3070 LACKAWNA	230	1											
21294	2957.6	7175.2	L:	137200 EDIC	345	137452 N.SCOT77	345	1											
				Base Case															
21298	2963.6	7181.3	L:	135850 SOUR-114	115	135876 TELRDTP1	115	1											
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1											
21300	2969.6	7187.3	L:	137451 LEEDS 3	345	137455 ATHENS	345	1											
				C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	120										
				Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2											
21301	2970.8	7188.5	L:	135858 GOLAH115	115	135862 MUMFORD1	115	1											
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1											
21302	2971.2	7188.8	L:	130836 N.WAV115	115	131018 LOUNS115	115	1											
				C:BUS:WATERCURE_230					1633										
				Open 130768 WATRC230	230	130772 SHRED230	230	1											
				Open 130757 WATRC345	345	130768 WATRC230	230	1											
				Open 130763 HILSD230	230	130768 WATRC230	230	1											
21312	2990.1	7207.7	L:	130770 SHLDN230	230	131122 WTHRS230	230	1											

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			C:130754 KINTI345	345	149000	ROCH	345	345	1	205								
			Open 130754 KINTI345		345	149000	ROCH	345	345	1				0.05915	0.19221	524.7	1099.4	
21315	2993.9	7211.5*L:	130848 S.OWE115	115	131850	CNYOG115	115	115	1		-37.8	-143.0	-0.03515		-0.03523	-16.7	-122.2	
			C:131128 LAPEER	345	136153	LAFAYTTE	345	345	1	392								
			Open 131128 LAPEER		345	136153	LAFAYTTE	345	345	1				0.03223	0.00241	-652.6	-645.3	

FtoG

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, APR 08 2009 10:56
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From ON_E_EXP To GHI_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 15991 violations

Interface-1 Interface 32 F-To-G Init.Flow= 3713.29 TDF= 0.5657

N	FCITC IntFcel L: Limiting constraint	C: Contingency description	Ncon	PreShift Flow	MW Rating	TDF	LODF	PTDF =Base Case Flow=	
								Init	Final
1	-170280.-92607.8	L: Interface 21 PJM-WEST		5137.7	0.0	0.03017		0.04805	5112.7 -3068.8
		C:SER:C398/NWES	1605						
		Open 409 GROVER 230 200675 E.TWANDA	230 1			0.06509	0.00120	-15.6	-220.3
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.17346	-0.07609	117.6	13073.5
		Open 381 TOWANDA 115 200675 E.TWANDA	230 1			0.01304	-0.00618	-52.1	1000.5
		Open 130836 N.WAV115 115 200676 E.SAYRE	115 1			0.14744	-0.03170	43.0	5441.6
2	-170055.-92480.5	L: Interface 21 PJM-WEST		5139.3	0.0	0.03022		0.04805	5112.7 -3058.0
		C:SER:ETHS/NWES	1606						
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.17144	-0.07609	117.6	13056.4
		Open 130836 N.WAV115 115 200676 E.SAYRE	115 1			0.15082	-0.03170	43.0	5434.5
3	-151727.-82112.7	L: Interface 21 PJM-WEST		5133.5	0.0	0.03383		0.04805	5112.7 -2177.3
		C:ETHS/LLGD	1649						
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.13801	-0.07609	117.6	11661.8
		Open 130807 GOUDY115 115 200680 LAUREL L	115 1			0.12187	-0.03046	38.0	4659.2
4	-133033.-71538.2	L: Interface 21 PJM-WEST		5127.4	0.0	0.03854		0.04805	5112.7 -1279.1
		C:130763 HILSD230 230 200675 E.TWANDA	230 1 1375						
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.12492	-0.07609	117.6	10239.5
5	-125291.-67158.8	L: Interface 21 PJM-WEST		5123.5	0.0	0.04089		0.04805	5112.7 -907.2
		C:130763 HILSD230 230 130768 WATRC230	230 1 219						

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	Open	130763	HILSD230	230	130768	WATRC230	230	1				-0.05811	0.12311	-186.1	-15611.2
6	-122996.-65861.2	L: Interface	21	PJM-WEST			5130.0		0.0	0.04171		0.04805	5112.7	-796.9	
		C:BUS:WATERCURE_230						1633							
		Open	130768	WATRC230	230	130772	SHRED230	230	1			-0.02074	0.05141	71.0	-6252.4
		Open	130757	WATRC345	345	130768	WATRC230	230	1			0.07352	-0.07170	257.6	9076.9
		Open	130763	HILSD230	230	130768	WATRC230	230	1			-0.18949	0.00000	0.5	0.5
7	-119773.-64037.5	L: Interface	21	PJM-WEST			5043.3		0.0	0.04211		0.04805	5112.7	-642.0	
		C:MULT04						1656							
		Open	9	JUNIATA	500	21	SUNBURY	500	1			-0.13383	0.04353	524.7	-4688.9
		Open	21	SUNBURY	500	3084	SUNBURY	230	24			-0.00698	0.01634	-121.6	-2079.0
8	-118712.-63437.5	L: Interface	21	PJM-WEST			5130.0		-0.0	0.04321		0.04805	5112.7	-591.1	
		C:130757 WATRC345	345	130768	WATRC230	230	1	213							
		Open	130757	WATRC345	345	130768	WATRC230	230	1			0.06740	-0.07170	257.6	8769.7
9	-113981.-60761.5	L: Interface	21	PJM-WEST			5182.8		0.0	0.04547		0.04805	5112.7	-363.8	
		C:SER:HC-SR_37&W-F_171						1600							
		Open	135398	SW345	345	200769	HOMER CY	345	1			-0.17837	0.01417	-378.4	-1993.5
		Open	135277	FALCONER	115	200579	WARREN	115	1			-0.07354	0.00066	-35.9	-111.4
10	-113309.-60381.4	*L: Interface	21	PJM-WEST			5175.9		0.0	0.04568		0.04805	5112.7	-331.5	
		C:135398 SW345	345	200769	HOMER CY	345	1	1380							
		Open	135398	SW345	345	200769	HOMER CY	345	1			-0.16708	0.01417	-378.4	-1984.0
1755	-78066.8-40446.0	L: Interface	20	PJM-CENT			3528.6		-0.0	0.04520		0.10258	3269.0	-4738.8	
		C:126260 BOWLINE1	345	146750	WHA345	345	10	79							
		Open	126260	BOWLINE1	345	146750	WHA345	345	10			-0.55149	0.10404	-470.6	-8592.7
1763	-59659.4-30033.7	L: Interface	20	PJM-CENT			3469.8		-0.0	0.05816		0.10258	3269.0	-2850.6	
		C:SIN:30						1665							
		Open	126260	BOWLINE1	345	146841	BOW1	20.0	1	NA					
		Open	126260	BOWLINE1	345	146750	WHA345	345	10			-0.42624	0.10404	-470.6	-6677.6
		Open	126290	LADENTWN	345	146750	WHA345	345	1			-0.00074	0.09566	-170.6	-5877.8
1764	-52937.8-26231.5	L: Interface	20	PJM-CENT			3229.5		0.0	0.06101		0.10258	3269.0	-2161.1	
		C:LKWANA-OXBW						1651							
		Open	417	OXBOW	230	3070	LACKAWNA	230	1			0.33047	-0.12579	-119.7	6539.5
1765	-50855.5-25053.6	L: Interface	20	PJM-CENT			3322.8		0.0	0.06534		0.10258	3269.0	-1947.5	
		C:ETHS/NWES/LLGD						1648							
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.28248	-0.07609	117.6	3987.0
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.25885	-0.03170	43.0	1655.3
		Open	130807	GOUDY115	115	200680	LAUREL L	115	1			0.24753	-0.03046	38.0	1586.9
1766	-42681.0-20429.7	L: Interface	20	PJM-CENT			3304.2		-0.0	0.07742		0.10258	3269.0	-1109.0	
		C:SER:C398/NWES						1605							
		Open	409	GROVER	230	200675	E.TWANDA	230	1			0.09834	0.00120	-15.6	-66.9
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.24445	-0.07609	117.6	3365.0
		Open	381	TOWANDA	115	200675	E.TWANDA	230	1			0.01930	-0.00618	-52.1	211.7
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.20696	-0.03170	43.0	1396.2
1767	-42672.0-20424.6	L: Interface	20	PJM-CENT			3306.6		0.0	0.07749		0.10258	3269.0	-1108.1	
		C:SER:ETHS/NWES						1606							
		Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.24142	-0.07609	117.6	3364.3
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.21196	-0.03170	43.0	1395.9
1768	-39925.6-18871.0	L: Interface	20	PJM-CENT			3298.4		-0.0	0.08261		0.10258	3269.0	-826.4	
		C:ETHS/LLGD						1649							

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			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.19432	-0.07609	117.6	3155.4	
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.17004	-0.03046	38.0	1254.0	
1769	-38666.3-18158.7	L:	Interface	20	PJM-CENT				3966.3	0.0	0.10258		0.10258	3269.0	-697.2
			C:GEN:PEACHBTM						1568						
			Remove unit 1 from bus	34	PCHBTM 2	22.0	1060.3	MW	dispatch						
1770	-38162.8-17873.9	L:	Interface	20	PJM-CENT				3914.6	0.0	0.10258		0.10258	3269.0	-645.6
			C:GEN:SALEM						1567						
			Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch						
1771	-36926.5-17174.6*L:	Interface	20	PJM-CENT					3787.8	0.0	0.10258		0.10258	3269.0	-518.7
			C:SIN:250						1677						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1	
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch						
3527	-3462.8	1754.5	L:	Interface	26	ONTARIO-MICH			761.4	-0.0	0.21989		0.23760	736.0	-86.8
			C:ETHS/NWES/LLGD						1648						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.12812	-0.07609	117.6	381.1	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.13049	-0.03170	43.0	152.8	
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.12559	-0.03046	38.0	143.4	
3528	-3331.9	1828.6	L:	Interface	26	ONTARIO-MICH			753.2	-0.0	0.22606		0.23760	736.0	-55.7
			C:SER:ETHS/NWES						1606						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.10729	-0.07609	117.6	371.1	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.10670	-0.03170	43.0	148.6	
3529	-3331.5	1828.8	L:	Interface	26	ONTARIO-MICH			753.1	-0.0	0.22604		0.23760	736.0	-55.6
			C:SER:C398/NWES						1605						
			Open 409 GROVER	230	200675	E.TWANDA	230	1			0.00017	0.00120	-15.6	-19.6	
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.10753	-0.07609	117.6	371.1	
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1			0.00253	-0.00618	-52.1	-31.5	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.10604	-0.03170	43.0	148.6	
3530	-3277.0	1859.6	L:	Interface	26	ONTARIO-MICH			749.1	0.0	0.22860		0.23760	736.0	-42.6
			C:ETHS/LLGD						1649						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.08368	-0.07609	117.6	367.0	
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.08652	-0.03046	38.0	137.8	
3531	-3269.8	1863.7	L:	Interface	26	ONTARIO-MICH			762.5	-0.0	0.23319		0.23760	736.0	-40.9
			C:W44LC						1642						
			Open 160062 LONGWOOD	220	160074	COWALJ44	220	1			-0.16056	0.02255	189.2	115.5	
			Open 160074 COWALJ44	220	160134	BUCHJW44	220	1			0.16303	-0.00487	334.4	350.3	
			Open 160054 BUCHANAN	220	160134	BUCHJW44	220	1			-0.00035	0.00487	-256.1	-272.1	
			Open 160055 CHATHAM	220	160074	COWALJ44	220	1			0.71981	0.00000	3.1	3.1	
3532	-3269.6	1863.8	L:	Interface	26	ONTARIO-MICH			762.5	-0.0	0.23320		0.23760	736.0	-40.9
			C:W45LC						1643						
			Open 160062 LONGWOOD	220	160075	COWALJ45	220	1			-0.16050	0.02252	189.2	115.6	
			Open 160075 COWALJ45	220	160135	BUCHJW45	220	1			0.16297	-0.00486	334.3	350.2	
			Open 160054 BUCHANAN	220	160135	BUCHJW45	220	1			-0.00035	0.00486	-262.5	-278.3	
			Open 160055 CHATHAM	220	160075	COWALJ45	220	1			0.71977	0.00000	3.1	3.1	
3533	-3249.2	1875.4	L:	Interface	26	ONTARIO-MICH			771.6	0.0	0.23747		0.23760	736.0	-36.0
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392						
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1			-0.05454	0.00241	-652.6	-660.4	
3534	-3242.6	1879.1	L:	Interface	26	ONTARIO-MICH			721.7	-0.0	0.22256		0.23760	736.0	-34.5
			C:LKWANA-OXBW						1651						

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			Open	417	OXBOW	230	3070	LACKAWNA	230	1			0.11958	-0.12579	-119.7	288.2				
3535	-3230.1	1886.1	L: Interface	26	ONTARIO-MICH						770.8	0.0	0.23863	0.23760	736.0	-31.5				
			C:130755	OAKDL345		345	131128	LAPEER	345	1	209									
			Open	130755	OAKDL345									-0.06047	-0.01699	-575.7	-520.9			
3536	-3218.7	1892.6	*L: Interface	26	ONTARIO-MICH						749.2	-0.0	0.23278	0.23760	736.0	-28.8				
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL																	
			Open	505	SHELOCTA		230	521	KEYSTONE		230	1			0.08784	-0.04530	50.1	195.9		
			Open	473	BLAIRSVL		138	235253	01SOCIAL		138	1			0.08830	-0.00962	100.2	131.2		
5296	-1514.1	2856.8	L: Interface	39	ZoneD-ONT						-47.0	-0.0	-0.03103	0.00000	0.5	0.5				
			C:147834	NIAG	345		345	149000	ROCH	345	345	1	1226							
			Open	147834	NIAG	345		345	149000	ROCH	345	345	1			-0.11250	0.27581	422.3	4.7	
5297	-1514.1	2856.8	L: Interface	40	ONT-ZoneD						47.0	0.0	0.03103	0.00000	-0.5	-0.5				
			C:147834	NIAG	345		345	149000	ROCH	345	345	1	1226							
			Open	147834	NIAG	345		345	149000	ROCH	345	345	1			0.11250	0.27581	422.3	4.7	
5298	-403.5	3485.0	L: 126294	PLTVLLEY		345	137451	LEEDS	3		345	2			-1828.7	-1725.0	-0.25696	-0.18097	-1281.0	-1208.0
			C:126294	PLTVLLEY		345	137455	ATHENS			345	1	121							
			Open	126294	PLTVLLEY		345	137455	ATHENS		345	1				0.44128	-0.17221	-1241.0	-1171.5	
5299	-263.1	3564.5	L: 126294	PLTVLLEY		345	137455	ATHENS			345	1			-1790.7	-1725.0	-0.24987	-0.17221	-1241.0	-1195.7
			C:126294	PLTVLLEY		345	137451	LEEDS	3		345	2	120							
			Open	126294	PLTVLLEY		345	137451	LEEDS	3	345	2				0.42910	-0.18097	-1281.0	-1233.4	
5300	276.1	3869.4	L: 126294	PLTVLLEY		345	137451	LEEDS	3		345	2			-1281.0	-1331.0	-0.18097			
			Base Case																	
5301	396.2	3937.4	L: Interface	14	Leeds-PV						2522.1	2662.0	0.35318							
			Base Case																	
5302	522.4	4008.8	L: 126294	PLTVLLEY		345	137455	ATHENS			345	1			-1241.0	-1331.0	-0.17221			
			Base Case																	
5303	550.1	4024.4	L: 146758	CHESTER		138	146771	SHOEM138			138	1			-286.6	-317.0	-0.05527	-0.03004	-161.7	-178.2
			C:125001	ROCK TAV		345	126297	RAMAPO			345	1	7							
			Open	125001	ROCK TAV		345	126297	RAMAPO		345	1				-0.11202	0.22519	1114.8	1238.7	
5304	550.1	4024.4	L: 146758	CHESTER		138	146771	SHOEM138			138	1			-286.6	-317.0	-0.05527	-0.03004	-161.7	-178.2
			C:SIN:440										1683							
			Open	125001	ROCK TAV		345	126297	RAMAPO		345	1				-0.11202	0.22519	1114.8	1238.7	
5305	637.3	4073.8	L: 126294	PLTVLLEY		345	137451	LEEDS	3		345	2			-1577.7	-1725.0	-0.23112	-0.18097	-1281.0	-1396.4
			C:125000	HURLEY	3		345	137451	LEEDS	3	345	1	3							
			Open	125000	HURLEY	3		345	137451	LEEDS	3	345	1				0.32992	-0.15203	-899.2	-996.1
5306	773.6	4150.9	L: Interface	14	Leeds-PV						3101.0	3450.0	0.45107							
			C:125000	HURLEY	3		345	137451	LEEDS	3	345	1	3							
			Open	125000	HURLEY	3		345	137451	LEEDS	3	345	1				-0.64389	-0.15203	-899.2	-1016.8
5307	888.2	4215.7	L: 126294	PLTVLLEY		345	137451	LEEDS	3		345	2			-1566.9	-1725.0	-0.17796	-0.18097	-1281.0	-1441.8
			C:125002	ROSETON		345	126281	FISHKILL			345	1	10							
			Open	125002	ROSETON		345	126281	FISHKILL		345	1				-0.18979	-0.01585	1506.4	1492.3	
5308	888.2	4215.7	L: 126294	PLTVLLEY		345	137451	LEEDS	3		345	2			-1566.9	-1725.0	-0.17796	-0.18097	-1281.0	-1441.8
			C:SIN:430										1682							
			Open	125002	ROSETON		345	126281	FISHKILL		345	1				-0.18979	-0.01585	1506.4	1492.3	
5309	916.8	4231.9	L: 126294	PLTVLLEY		345	137455	ATHENS			345	1			-1523.3	-1725.0	-0.21994	-0.17221	-1241.0	-1398.9
			C:125000	HURLEY	3		345	137451	LEEDS	3	345	1	3							
			Open	125000	HURLEY	3		345	137451	LEEDS	3	345	1				0.31397	-0.15203	-899.2	-1038.6
5310	947.1	4249.0	L: 130750	COOPC345		345	130753	FRASR345			345	1			-997.1	-1207.0	-0.22164			

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Base Case													
5311	983.6	4269.7	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1472.2	-1725.0	-0.25696	-0.18097	-1281.0	-1459.0
			C:137451 LEEDS 3	345	137455 ATHENS	345	1 1006						
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1			-0.44128	0.17221	433.3	602.7
5312	1065.2	4315.8	L: Interface	14	Leeds-PV			3080.0	3450.0	0.34731	0.35318	2522.1	2898.3
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.37040	-0.01585	1506.4	1489.5
5313	1065.2	4315.8	L: Interface	14	Leeds-PV			3080.0	3450.0	0.34731	0.35318	2522.1	2898.3
			C:SIN:430				1682						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.37040	-0.01585	1506.4	1489.5
5314	1135.0	4355.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1474.4	-1725.0	-0.22077	-0.18097	-1281.0	-1486.4
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1			-0.29333	0.13569	659.3	813.3
5315	1186.2	4384.3	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05527	0.03004	126.6	162.2
			C:SIN:440				1683						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.11202	0.22519	1114.8	1381.9
5316	1186.2	4384.3	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05527	0.03004	126.6	162.2
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.11202	0.22519	1114.8	1381.9
5317	1215.1	4400.6	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08226	-0.05014	-448.0	-509.0
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14263	0.22519	1114.8	1388.4
5318	1215.1	4400.6	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08226	-0.05014	-448.0	-509.0
			C:SIN:440				1683						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14263	0.22519	1114.8	1388.4
5319	1251.2	4421.0	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16935	-0.17221	-1241.0	-1456.5
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18061	-0.01585	1506.4	1486.5
5320	1251.2	4421.0	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.16935	-0.17221	-1241.0	-1456.5
			C:SIN:430				1682						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18061	-0.01585	1506.4	1486.5
5321	1277.6	4436.0	L: Interface	14	Leeds-PV			2899.5	3450.0	0.43086	0.35318	2522.1	2973.3
			C:125000 HURLEY 3	345	125002 ROSETON	345	1 1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1			0.57248	0.13569	659.3	832.7
5322	1314.1	4456.6	L: 130794 DELHI115	115	130804 DEL T115	115	1	68.4	164.0	0.07275	0.03934	0.5	52.2
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			-0.11754	-0.28430	-577.5	-951.1
5323	1373.8	4490.4	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1317.8	-1703.0	-0.28039	-0.22164	-997.1	-1301.6
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.43391	-0.13539	-739.1	-925.1
5324	1374.2	4490.6	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1348.1	-1724.0	-0.27354	-0.17513	-863.0	-1103.7
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2 1005						
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.56508	-0.17416	-858.5	-1097.8
5325	1376.0	4491.7	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1430.3	-1725.0	-0.21415	-0.18097	-1281.0	-1530.1
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.14972	-0.22164	-997.1	-1302.1
5326	1388.4	4498.6	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1345.1	-1724.0	-0.27291	-0.17416	-858.5	-1100.3
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1 1004						

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			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				0.56388	-0.17513	-863.0	-1106.1
5327	1427.6	4520.8	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1425.1	-1725.0	-0.21009		-0.17221	-1241.0	-1486.9
			C:125000 HURLEY 3	345	125002 ROSETON	345	1							
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.27915	0.13569	659.3	853.0
5328	1449.6	4533.3	L: 130817 JENN 115	115	130819 KATEL115	115	1	-107.6	-159.0	-0.03543		-0.01763	-71.5	-97.1
			C:130753 FRASR345	345	130755 OAKDL345	345	1							
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				0.06259	-0.28430	-577.5	-989.6
5329	1456.2	4537.0	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-237.7	-317.0	-0.05443		-0.03004	-161.7	-205.5
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.17871	-0.13649	-425.4	-624.1
5330	1494.2	4558.5	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1350.8	1793.0	0.29594		0.18663	874.1	1152.9
			C:125001 ROCK TAV	345	130750 COOPC345	345	2							
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2				-0.64149	-0.17040	-743.2	-997.8
5331	1523.1	4574.9	L: Interface 14 Leeds-PV					2813.4	3450.0	0.41794		0.35318	2522.1	3060.0
			C:130750 COOPC345	345	130753 FRASR345	345	1							
			Open 130750 COOPC345	345	130753 FRASR345	345	1				-0.29219	-0.22164	-997.1	-1334.7
5332	1643.6	4643.0	L: Interface 32 F-To-G					3713.3	4643.0	0.56566				
			Base Case											
5333	1677.7	4662.3	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1383.1	-1725.0	-0.20379		-0.17221	-1241.0	-1530.0
			C:130750 COOPC345	345	130753 FRASR345	345	1							
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.14248	-0.22164	-997.1	-1368.9
5334	1689.2	4668.8	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08226		0.05014	448.0	532.7
			C:SIN:440											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.14263	0.22519	1114.8	1495.2
5335	1689.2	4668.8	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08226		0.05014	448.0	532.7
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.14263	0.22519	1114.8	1495.2
5336	1726.7	4690.0	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-1008.0	-1345.0	-0.19516		-0.13539	-739.1	-972.9
			C:130750 COOPC345	345	130753 FRASR345	345	1							
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.26966	-0.22164	-997.1	-1379.8
5337	1739.2	4697.1	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1292.6	-1793.0	-0.28771		-0.17040	-743.2	-1039.5
			C:130750 COOPC345	345	146754 MDTN TAP	345	1							
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.62859	0.18663	874.1	1198.7
5338	1748.3	4702.2	L: 130817 JENN 115	115	130851 SIDNT115	115	1	53.9	120.0	0.03783		0.02108	19.8	56.7
			C:130753 FRASR345	345	130755 OAKDL345	345	1							
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				-0.05894	-0.28430	-577.5	-1074.6
5339	1755.9	4706.6	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	46.7	143.0	0.05485		0.03523	18.7	80.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.10628	-0.18460	-263.5	-587.7
5340	1759.0	4708.3	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.3	173.0	0.04190		0.02814	78.2	127.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04986	0.27581	422.3	907.4
5341	1791.5	4726.7	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-44.7	-143.0	-0.05485		-0.03523	-16.7	-79.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.10628	-0.18460	-263.5	-594.2
5342	1828.9	4747.8	L: Interface 23 QFW					892.6	0.0	-0.48802		-0.48453	1095.5	209.3
			C:GEN:KINTIGH-New											
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	1				0.00000	-0.00496	-288.5	-297.6

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				Open 130754 KINTI345	345	130873 KINTIG24	24.0	2				0.35120	-0.00994	-577.7	-595.9
5343	1855.0	4762.6	L:	135452 LOCKPORT	115	135872 SOUR-111	115	1	93.0	159.0	0.03556		0.02383	75.1	119.3
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04252	0.27581	422.3	933.9
5344	1862.5	4766.9	L:	125001 ROCK TAV	345	130750 COOPC345	345	2	-1262.4	-1793.0	-0.28487		-0.17040	-743.2	-1060.5
				C:SER:CMT34&MTR34											1593
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.55569	0.18663	874.1	1221.7
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.07885	-0.13649	-425.4	-679.6
5345	1873.1	4772.8	L:	130757 WATRC345	345	200769 HOMER CY	345	1	-543.5	-755.0	-0.11289				
				Base Case											
5346	1879.0	4776.2	L:	Interface 23 QFW					910.4	0.0	-0.48453		-0.48453	1095.5	185.0
				C:GEN:9 MI PT2											1561
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch								
5347	1881.9	4777.8	L:	Interface 23 QFW					918.7	-0.0	-0.48817		-0.48453	1095.5	183.6
				C:HQ-NY-765-New											1778
				Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
				Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
				Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.25138	0.00775	624.7	639.3
				Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.25138	0.00674	543.6	556.3
				Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA						
				Open 147838 MASS230B	230	147839 MOSES E	230	1				0.00000	-0.00725	10.3	-3.3
				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
				Open 147837 MASS230A	230	147839 MOSES E	230	1				-0.09617	0.00000	18.8	18.8
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
				Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						
				Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA						
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
5348	1903.5	4790.0	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1353.2	-1725.0	-0.19533		-0.18097	-1281.0	-1625.5
				C:SER:CMT34&MTR34											1593
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.09362	0.18663	874.1	1229.3
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				-0.02277	-0.13649	-425.4	-685.2
5349	1910.2	4793.8	L:	130819 KATEL115	115	130838 OAKDL115	115	1	-124.3	-192.0	-0.03543		-0.01763	-88.2	-121.9
				C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
				Open 130753 FRASR345	345	130755 OAKDL345	345	1				0.06259	-0.28430	-577.5	-1120.6
5350	1914.4	4796.2	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1353.2	-1725.0	-0.19419		-0.18097	-1281.0	-1627.5
				C:130750 COOPC345	345	147833 MARCY T1	345	1	196						
				Open 130750 COOPC345	345	147833 MARCY T1	345	1				0.09769	-0.13539	-739.1	-998.3
5351	1941.1	4811.3	L:	Interface 23 QFW					940.5	0.0	-0.48453		-0.48453	1095.5	154.9
				C:GEN:GINNA											1562
				Remove unit 1 from bus 149140 GINNA 19	19.0	605.0 MW	dispatch								
5352	1946.6	4814.4	L:	135872 SOUR-111	115	135873 SWDN-111	115	1	89.8	159.0	0.03556		0.02383	71.8	118.2
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04252	0.27581	422.3	959.2
5353	1956.3	4819.9	*L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1344.5	-1725.0	-0.19451		-0.18097	-1281.0	-1635.1
				C:130750 COOPC345	345	146754 MDTN TAP	345	1	195						

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				Open 130750 COOPC345	345	146754	MDTN TAP	345	1				-0.07257	0.18663	874.1	1239.2
5354	1963.5	4824.0	L:	130753 FRASR345	345	130755	OAKDL345	345	1	-772.3	-1380.0	-0.30950	-0.28430	-577.5	-1135.8	
			C:	130753 FRASR345	345	137200	EDIC	345	1 202							
				Open 130753 FRASR345	345	137200	EDIC	345	1				0.27558	-0.09144	-706.7	-886.3
5355	1994.6	4841.5	L:	Interface 23 QFW						966.4	-0.0	-0.48453	-0.48453	1095.5	129.0	
			C:	GEN:SEABROOK					1573							
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch								
5356	1994.6	4841.5	L:	Interface 23 QFW						966.4	-0.0	-0.48453	-0.48453	1095.5	129.0	
			C:	GEN:SEAB&OMS					1575							
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00003	0.00000	-0.1	-0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch								
5357	1995.7	4842.1	L:	146771 SHOEM138	138	146772	SHOEMTAP	138	1	-544.9	-707.0	-0.08123	-0.05014	-448.0	-548.1	
			C:	125001 ROCK TAV	345	146754	MDTN TAP	345	1 9							
				Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				0.22773	-0.13649	-425.4	-697.7
5358	2001.3	4845.4	L:	Interface 23 QFW						969.7	0.0	-0.48453	-0.48453	1095.5	125.8	
			C:	SIN:250					1677							
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00003	0.00000	-0.1	-0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch								
5359	2003.5	4846.6	L:	Interface 23 QFW						970.7	0.0	-0.48453	-0.48453	1095.5	124.7	
			C:	GEN:MLS3&OMS					1574							
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00003	0.00000	-0.1	-0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch								
5360	2003.5	4846.6	L:	Interface 23 QFW						970.7	0.0	-0.48453	-0.48453	1095.5	124.7	
			C:	GEN:MILLST 3					1572							
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch								
5364	2023.9	4858.1	L:	135859 LAPPINS1	115	135866	NLEROYTA	115	1	99.9	173.0	0.03609	0.02814	78.2	135.2	
			C:	130754 KINTI345	345	149000	ROCH 345	345	1 205							
				Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.04136	0.19221	524.7	913.7
5365	2025.3	4858.9	*L:	Interface 23 QFW						972.3	-0.0	-0.48008	-0.48453	1095.5	114.1	
			C:	SER:HC-SR_37&W-F_171					1600							
				Open 135398 SW345	345	200769	HOMER CY	345	1				0.30257	0.01417	-378.4	-349.7
				Open 135277 FALCONER	115	200579	WARREN	115	1				0.24131	0.00066	-35.9	-34.6
5372	2060.7	4878.9	L:	137451 LEEDS 3	345	137453	N.SCOT99	345	2	-1214.0	-1724.0	-0.24748	-0.17416	-858.5	-1217.4	
			C:	BUS:N.S._77					1614							
				Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				0.60779	-0.04338	-248.0	-337.4
				Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1				0.40443	0.00031	111.8	112.4
				Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.33531	0.17297	819.4	1175.9
				Open 137450 ALPS345	345	137452	N.SCOT77	345	1				-0.26699	-0.04091	-92.7	-177.0
				Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1				0.20561	0.00000	-0.0	-0.0
5374	2064.7	4881.2	L:	Interface 14 Leeds-PV						2662.9	3450.0	0.38122	0.35318	2522.1	3251.3	
			C:	SER:CMT34&MTR34					1593							
				Open 130750 COOPC345	345	146754	MDTN TAP	345	1				0.18272	0.18663	874.1	1259.4
				Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				0.04443	-0.13649	-425.4	-707.2
5380	2076.6	4887.9	L:	Interface 14 Leeds-PV						2663.0	3450.0	0.37899	0.35318	2522.1	3255.5	
			C:	130750 COOPC345	345	147833	MARCY T1	345	1 196							
				Open 130750 COOPC345	345	147833	MARCY T1	345	1				-0.19065	-0.13539	-739.1	-1020.3
5382	2092.5	4896.9	L:	135862 MUMFORD1	115	135866	NLEROYTA	115	1	-83.8	-173.0	-0.04261	-0.02862	-62.4	-122.3	
			C:	147834 NIAG 345	345	149000	ROCH 345	345	1 1226							

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			Open 147834 NIAG 345	345 149000 ROCH 345	345 1				-0.05070	0.27581	422.3	999.4
5383	2097.1	4899.5	L: 130750 COOPC345	345 130753 FRASR345	345 1	-1082.7	-1703.0	-0.29579	-0.22164	-997.1	-1461.9	
			C:130753 FRASR345	345 147831 GILB 345	345 1 203							
			Open 130753 FRASR345	345 147831 GILB 345	345 1				-0.39383	0.18828	217.4	612.3
5384	2102.1	4902.4	L: 146758 CHESTER	138 146773 SGRLF138	138 1	202.6	317.0	0.05443	0.03004	126.6	189.7	
			C:125001 ROCK TAV	345 146754 MDTN TAP	345 1 9							
			Open 125001 ROCK TAV	345 146754 MDTN TAP	345 1				-0.17871	-0.13649	-425.4	-712.3
5386	2118.2	4911.5	L: Interface	14 Leeds-PV		2645.9	3450.0	0.37961	0.35318	2522.1	3270.2	
			C:130750 COOPC345	345 146754 MDTN TAP	345 1 195							
			Open 130750 COOPC345	345 146754 MDTN TAP	345 1				0.14164	0.18663	874.1	1269.4
5390	2136.8	4922.0	L: 135452 LOCKPORT	115 135872 SOUR-111	115 1	93.6	159.0	0.03061	0.02383	75.1	126.0	
			C:130754 KINTI345	345 149000 ROCH 345	345 1 205							
			Open 130754 KINTI345	345 149000 ROCH 345	345 1				0.03527	0.19221	524.7	935.4
5394	2146.9	4927.7	L: 135452 LOCKPORT	115 135876 TELRDTP1	115 1	104.1	180.0	0.03537	0.02370	86.2	137.1	
			C:147834 NIAG 345	345 149000 ROCH 345	345 1 1226							
			Open 147834 NIAG 345	345 149000 ROCH 345	345 1				0.04231	0.27581	422.3	1014.4
5407	2173.1	4942.5	L: Interface	14 Leeds-PV		2625.9	3450.0	0.37921	0.35318	2522.1	3289.6	
			C:SER:PV_LM_398		1597							
			Open 103105 LONG MTN	345 103117 CTNY398	345 1				0.33673	0.07731	308.5	476.5
			Open 103117 CTNY398	345 126294 PLTVLLEY	345 1				-0.23700	0.00000	0.2	0.2
5408	2173.2	4942.6	*L: Interface	14 Leeds-PV		2625.9	3450.0	0.37921	0.35318	2522.1	3289.6	
			C:103117 CTNY398	345 126294 PLTVLLEY	345 1 1362							
			Open 103117 CTNY398	345 126294 PLTVLLEY	345 1				0.33673	0.07731	308.3	476.3
5410	2173.5	4942.8	L: 130757 WATRC345	345 130768 WATRC230	230 1	455.1	600.0	0.06666	-0.07170	257.6	101.7	
			C:130755 OAKDL345	345 130757 WATRC345	345 1 206							
			Open 130755 OAKDL345	345 130757 WATRC345	345 1				-0.74956	-0.18460	-263.5	-664.8
5430	2215.3	4966.4	L: 135850 SOUR-114	115 135861 MORTIMER	115 1	71.0	153.0	0.03701	0.02481	52.3	107.3	
			C:147834 NIAG 345	345 149000 ROCH 345	345 1 1226							
			Open 147834 NIAG 345	345 149000 ROCH 345	345 1				0.04425	0.27581	422.3	1033.3
5449	2234.2	4977.1	L: 126294 PLTVLLEY	345 137455 ATHENS	345 1	-1309.7	-1725.0	-0.18588	-0.17221	-1241.0	-1625.8	
			C:SER:CMT34&MTR34		1593							
			Open 130750 COOPC345	345 146754 MDTN TAP	345 1				-0.08910	0.18663	874.1	1291.0
			Open 125001 ROCK TAV	345 146754 MDTN TAP	345 1				-0.02167	-0.13649	-425.4	-730.3
5459	2238.2	4979.3	L: 130836 N.WAV115	115 131018 LOUNSS115	115 1	50.2	173.0	0.05485	0.03523	22.2	101.1	
			C:130755 OAKDL345	345 130757 WATRC345	345 1 206							
			Open 130755 OAKDL345	345 130757 WATRC345	345 1				-0.10628	-0.18460	-263.5	-676.7
5470	2243.3	4982.2	L: 135872 SOUR-111	115 135873 SWDN-111	115 1	90.3	159.0	0.03061	0.02383	71.8	125.3	
			C:130754 KINTI345	345 149000 ROCH 345	345 1 205							
			Open 130754 KINTI345	345 149000 ROCH 345	345 1				0.03527	0.19221	524.7	955.8
5488	2247.0	4984.3	L: 126294 PLTVLLEY	345 137455 ATHENS	345 1	-1309.8	-1725.0	-0.18480	-0.17221	-1241.0	-1628.0	
			C:130750 COOPC345	345 147833 MARCY T1	345 1 196							
			Open 130750 COOPC345	345 147833 MARCY T1	345 1				0.09296	-0.13539	-739.1	-1043.4
5491	2248.8	4985.4	L: 130750 COOPC345	345 130753 FRASR345	345 1	-1147.3	-1703.0	-0.24713	-0.22164	-997.1	-1495.5	
			C:137451 LEEDS 3	345 147831 GILB 345	345 1 1007							
			Open 137451 LEEDS 3	345 147831 GILB 345	345 1				0.16344	-0.15592	-918.9	-1269.5
6707	2262.5	4993.1	L: 130794 DELHI115	115 130851 SIDNT115	115 1	-35.8	-120.0	-0.03721	-0.02057	-2.0	-48.6	
			C:130753 FRASR345	345 130755 OAKDL345	345 1 200							
			Open 130753 FRASR345	345 130755 OAKDL345	345 1				0.05853	-0.28430	-577.5	-1220.7

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7010	2271.3	4998.1	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	98.3	180.0	0.03598	0.02411	80.1	134.9
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04302	0.27581	422.3	1048.7
7024	2272.8	4998.9	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	448.0	562.0	0.05014			
			Base Case										
7091	2280.2	5003.1	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1229.4	-1792.0	-0.24673	-0.18563	-916.1	-1339.3
			C:SIN:160				1670						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.35322	0.17297	819.4	1213.8
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19918	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			-0.00023	-0.00032	74.8	74.1
7092	2280.2	5003.1	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1229.4	-1792.0	-0.24673	-0.18563	-916.1	-1339.3
			C:SIN:150				1669						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.35322	0.17297	819.4	1213.8
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19920	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			-0.00016	-0.00021	88.8	88.3
7114	2288.4	5007.7	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1301.4	-1725.0	-0.18510	-0.17221	-1241.0	-1635.1
			C:130750 COOPC345	345	146754 MDTN TAP	345	1 195						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.06906	0.18663	874.1	1301.2
7122	2293.7	5010.8	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	192.0	280.0	0.03835	0.02453	170.9	227.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.05011	0.27581	422.3	1054.9
7154	2319.5	5025.3	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-238.5	-430.0	-0.08254			
			Base Case										
7160	2334.0	5033.5	L: 130815 HINMN115	115	131611 HARIS115	115	1	-218.9	-306.0	-0.03730	-0.02388	-198.4	-254.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04868	0.27581	422.3	1066.0
7170	2343.5	5038.9	*L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1291.7	-1725.0	-0.18491	-0.17221	-1241.0	-1644.6
			C:SER:PV_LM_398				1597						
			Open 103105 LONG MTN	345	103117 CTNY398	345	1			-0.16419	0.07731	308.5	489.7
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			0.11556	0.00000	0.2	0.2
7177	2349.3	5042.2	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1184.4	-1724.0	-0.22967	-0.17513	-863.0	-1274.4
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34981	-0.15592	-918.9	-1285.2
7208	2378.5	5058.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1180.0	-1724.0	-0.22872	-0.17416	-858.5	-1272.7
			C:137451 LEEDS 3	345	147831 GILB 345	345	1 1007						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34992	-0.15592	-918.9	-1289.7
7211	2383.0	5061.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-577.5	-1255.0	-0.28430			
			Base Case										
7242	2411.0	5077.1	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-84.5	-173.0	-0.03670	-0.02862	-62.4	-131.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04206	0.19221	524.7	988.1
7244	2414.0	5078.8	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1199.5	-1792.0	-0.24545	-0.18563	-916.1	-1364.2
			C:137200 EDIC	345	137452 N.SCOT77	345	1 946						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.34586	0.17297	819.4	1237.0
7255	2421.1	5082.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-656.6	-1380.0	-0.29879	-0.28430	-577.5	-1265.8
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.10700	-0.13539	-739.1	-1066.9
7350	2444.3	5095.9	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	228.6	430.0	0.08240			

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Base Case													
7353	2444.6	5096.1	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1149.2	1724.0	0.23515	0.17297	819.4	1242.3
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33494	-0.18563	-916.1	-1369.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19090	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00024	-0.00032	74.8	74.1
7354	2444.6	5096.1	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1149.2	1724.0	0.23515	0.17297	819.4	1242.3
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33494	-0.18563	-916.1	-1369.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19092	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00016	-0.00021	88.8	88.3
7427	2448.3	5098.2	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-301.9	-540.0	-0.09725	-0.08254	-238.5	-440.6
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.11957	-0.11289	-543.5	-819.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.03821	-0.03170	43.0	-34.6
7672	2452.5	5100.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.29779	-0.28430	-577.5	-1274.8
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.18563	-916.1	-1371.3
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04702	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00061	-0.00021	88.8	88.3
7675	2452.6	5100.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.29779	-0.28430	-577.5	-1274.8
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.18563	-916.1	-1371.3
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04710	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00092	-0.00032	74.8	74.1
8798	2466.6	5108.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-678.7	-1380.0	-0.28430	-0.28430	-577.5	-1278.8
			C:SIN:250				1677						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00002	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
8827	2474.0	5112.7	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-302.8	-540.0	-0.09588	-0.08254	-238.5	-442.8
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.11819	-0.11289	-543.5	-822.8
8835	2475.8	5113.8	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	544.9	746.0	0.08123	0.05014	448.0	572.2
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	9					
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.22773	-0.13649	-425.4	-763.3
8838	2476.1	5113.9	L: 135452 LOCKPORT	115	135876 TELRDTP1	115	1	104.6	180.0	0.03044	0.02370	86.2	144.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03510	0.19221	524.7	1000.6
8844	2479.3	5115.7	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-642.5	-1380.0	-0.29746	-0.28430	-577.5	-1282.4
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012					
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07092	-0.18563	-916.1	-1376.3
8872	2494.2	5124.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-640.6	-1380.0	-0.29645	-0.28430	-577.5	-1286.6
			C:SIN:150				1669						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.07027	0.17297	819.4	1250.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04606	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00061	-0.00021	88.8	88.3
8873	2494.2	5124.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-640.6	-1380.0	-0.29645	-0.28430	-577.5	-1286.6
			C:SIN:160				1670						

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				Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.07027	0.17297	819.4	1250.9		
				Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.04614	0.00000	119.9	119.9		
				Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00092	-0.00032	74.8	74.0		
8880	2497.8	5126.2	L:	130764 MEYER230	230	131122 WTHRS230	230	1				-300.6	-540.0	-0.09585	-0.08254	-238.5	-444.7
				C:SER:HC-WC_30&W-F_171													
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11761	-0.11289	-543.5	-825.5		
				Open 135277 FALCONER	115	200579 WARREN	115	1				-0.05269	0.00066	-35.9	-34.3		
8891	2501.7	5128.4	L:	130753 FRASR345	345	130755 OAKDL345	345	1				-668.8	-1380.0	-0.28430	-0.28430	-577.5	-1288.8
				C:GEN:SEAB&OMS													
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00002	0.00000	-0.1	-0.1		
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch										
8892	2501.7	5128.4	*L:	130753 FRASR345	345	130755 OAKDL345	345	1				-668.8	-1380.0	-0.28430	-0.28430	-577.5	-1288.8
				C:GEN:SEABROOK													
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch										
8895	2505.9	5130.8	L:	131018 LOUNS115	115	131850 CNYOG115	115	1				16.6	143.0	0.05044	0.03523	18.7	107.0
				C:BUS:WATERCURE_345													
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.05669	-0.11289	-543.5	-826.4		
				Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.12286	-0.07170	257.6	77.9		
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.05534	0.00000	22.4	22.4		
8937	2535.6	5147.6	L:	131018 LOUNS115	115	131850 CNYOG115	115	1				-11.0	143.0	0.06073	0.03523	18.7	108.0
				C:BUS:WATERCURE_230													
				Open 130768 WATRC230	230	130772 SHRED230	230	1				0.24198	0.05141	71.0	201.4		
				Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.18211	-0.07170	257.6	75.8		
				Open 130763 HILSD230	230	130768 WATRC230	230	1				0.12849	0.00000	0.5	0.5		
8942	2539.0	5149.5	L:	130807 GOUDY115	115	130848 S.OWE115	115	1				-3.7	-143.0	-0.05485	-0.03523	24.3	-65.2
				C:130755 OAKDL345	345	130757 WATRC345	345	1	206								
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.10628	-0.18460	-263.5	-732.2		
8948	2544.3	5152.5	L:	135851 SHEL-113	115	135874 SWDN-113	115	1				88.4	180.0	0.03598	0.02412	70.3	131.6
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226								
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04303	0.27581	422.3	1124.0		
8949	2544.5	5152.6	L:	130848 S.OWE115	115	131850 CNYOG115	115	1				-14.7	-143.0	-0.05044	-0.03523	-16.7	-106.4
				C:BUS:WATERCURE_345													
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.05669	-0.11289	-543.5	-830.8		
				Open 130757 WATRC345	345	130768 WATRC230	230	1				0.12286	-0.07170	257.6	75.1		
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.05534	0.00000	22.4	22.4		
8961	2549.6	5155.5	L:	130750 COOPC345	345	130753 FRASR345	345	1				-1095.5	-1703.0	-0.23828	-0.22164	-997.1	-1562.2
				C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3								
				Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1				0.10944	-0.15203	-899.2	-1286.8		
8963	2554.4	5158.2	L:	130770 SHLDN230	230	131122 WTHRS230	230	1				291.9	540.0	0.09711	0.08240	228.6	439.1
				C:SER:HCWC/NWES													
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11957	-0.11289	-543.5	-831.9		
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.03821	-0.03170	43.0	-38.0		
8964	2555.3	5158.7	L:	135850 SOUR-114	115	135861 MORTIMER	115	1				71.6	153.0	0.03186	0.02481	52.3	115.7
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205								
				Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03671	0.19221	524.7	1015.8		
8972	2565.1	5164.3	L:	130750 COOPC345	345	130753 FRASR345	345	1				-1097.9	-1703.0	-0.23589	-0.22164	-997.1	-1565.6
				C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	120								
				Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				0.07872	-0.18097	-1281.0	-1745.2		

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8975	2566.8	5165.2	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1	-85.0	-180.0	-0.03702	-0.02481	-66.3	-130.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04426	0.27581	422.3	1130.2
8976	2567.7	5165.7	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	12.9	-143.0	-0.06073	-0.03523	-16.7	-107.2
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.24198	0.05141	71.0	203.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.18211	-0.07170	257.6	73.5
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.12849	0.00000	0.5	0.5
8985	2574.7	5169.7	L: 130767 STOLE230	230	130770 SHLDN230	230	1	218.2	430.0	0.08224			
			Base Case										
8987	2574.8	5169.8	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-63.3	-173.0	-0.04261	-0.02862	-41.9	-115.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05070	0.27581	422.3	1132.4
8995	2581.7	5173.6	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	292.8	540.0	0.09574	0.08240	228.6	441.3
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11819	-0.11289	-543.5	-835.0
8997	2584.2	5175.0	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1119.7	1724.0	0.23383	0.17297	819.4	1266.4
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1 1012						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.32784	-0.18563	-916.1	-1395.8
9004	2590.5	5178.7	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	703.6	1685.0	0.37886	0.27581	422.3	1136.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.53611	0.19221	524.7	1022.6
9022	2598.1	5182.9	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1092.7	-1703.0	-0.23491	-0.22164	-997.1	-1572.9
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1 121						
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1			0.07704	-0.17221	-1241.0	-1688.5
9042	2605.5	5187.1	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	290.6	540.0	0.09571	0.08240	228.6	443.3
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11761	-0.11289	-543.5	-837.7
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.05269	0.00066	-35.9	-34.2
9120	2619.1	5194.8	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-54.4	-153.0	-0.03763	-0.02522	-35.4	-101.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04499	0.27581	422.3	1144.6
9145	2620.4	5195.6	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	98.8	180.0	0.03097	0.02411	80.1	143.3
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03569	0.19221	524.7	1028.3
10476	2632.7	5202.5	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1083.6	-1703.0	-0.23528	-0.22164	-997.1	-1580.6
			C:BUS:N.S._99				1615						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			0.12460	-0.03237	-310.7	-395.9
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.04425	-0.18563	-916.1	-1404.8
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			-0.00286	0.00045	118.7	119.9
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.00800	-0.17416	-858.5	-1317.0
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.01512	0.00000	1.6	1.6
10529	2637.2	5205.0	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1117.4	1724.0	0.23003	0.17297	819.4	1275.6
			C:BUS:N.S._99				1615						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			-0.18532	-0.03237	-310.7	-396.1
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.38312	-0.18563	-916.1	-1405.6
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			-0.09741	0.00045	118.7	119.9
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.11491	-0.17416	-858.5	-1317.8

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			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.24148	0.00000	1.6	1.6
10574	2644.5	5209.2	L: 131018 LOUNSL15	115	131850 CNYOG115	115	1	47.6	143.0	0.03608	0.03523	18.7	111.8
			C:130755 OAKDL345	345	131128 LAPEER	345	1 209						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			-0.05020	-0.01699	-575.7	-620.7
10582	2645.8	5209.9	L: 131018 LOUNSL15	115	131850 CNYOG115	115	1	29.3	143.0	0.04296	0.03523	18.7	111.9
			C:130768 WATRC230	230	130772 SHRED230	230	1 227						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.15025	0.05141	71.0	207.0
10594	2649.0	5211.7	L: 131018 LOUNSL15	115	131850 CNYOG115	115	1	18.7	112.0	0.03523			
			Base Case										
10613	2654.8	5215.0	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-268.7	-540.0	-0.10221	-0.08254	-238.5	-457.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.07131	0.27581	422.3	1154.5
10633	2661.8	5219.0	L: 131018 LOUNSL15	115	131850 CNYOG115	115	1	28.7	143.0	0.04296	0.03523	18.7	112.5
			C:SER:OAKDALE_WATRC230				1594						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.15025	0.05141	71.0	207.9
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			-0.10162	0.00000	6.8	6.8
10635	2665.2	5220.9	L: 130767 STOLE230	230	130770 SHLDN230	230	1	281.6	540.0	0.09696	0.08224	218.2	437.4
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11957	-0.11289	-543.5	-844.4
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.03821	-0.03170	43.0	-41.5
10637	2668.6	5222.8	L: 131018 LOUNSL15	115	131850 CNYOG115	115	1	28.4	143.0	0.04296	0.03523	18.7	112.7
			C:130765 OAKDL230	230	130772 SHRED230	230	1 222						
			Open 130765 OAKDL230	230	130772 SHRED230	230	1			-0.15025	-0.05141	-64.5	-201.7
10638	2669.5	5223.3	L: 131018 LOUNSL15	115	131850 CNYOG115	115	1	28.3	143.0	0.04296	0.03523	18.7	112.7
			C:130765 OAKDL230	230	130838 OAKDL115	115	1 223						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			0.15025	0.05141	64.3	201.5
10650	2672.4	5225.0	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-863.0	-1331.0	-0.17513			
			Base Case										
10659	2676.6	5227.3	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-50.8	-153.0	-0.03817	-0.02558	-31.6	-100.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04563	0.27581	422.3	1160.5
10669	2685.1	5232.1	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	192.7	280.0	0.03252	0.02453	170.9	236.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04157	0.19221	524.7	1040.8
10678	2691.2	5235.6	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-27.4	-143.0	-0.04296	-0.03523	-16.7	-111.5
			C:130768 WATRC230	230	130772 SHRED230	230	1 227						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.15025	0.05141	71.0	209.4
10680	2694.0	5237.2	L: 130767 STOLE230	230	130770 SHLDN230	230	1	282.5	540.0	0.09559	0.08224	218.2	439.8
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11819	-0.11289	-543.5	-847.7
10682	2694.9	5237.7	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	88.0	173.0	0.03153	0.02814	78.2	154.1
			C:130764 MEYER230	230	131122 WTHRS230	230	1 221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1			-0.04101	-0.08254	-238.5	-461.0
10685	2696.3	5238.5	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1692.2	2283.0	0.21912	0.22519	1114.8	1722.0
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.38330	-0.01585	1506.4	1463.6
10686	2696.3	5238.5	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1692.2	2283.0	0.21912	0.22519	1114.8	1722.0

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				C:SIN:430															1682				
				Open 125002 ROSETON		345	126281	FISHKILL		345	1			0.38330	-0.01585	1506.4	1463.6						
10690	2698.5	5239.7	L:	130848 S.OWE115	115	131850	CNYOG115		115	1				-45.6	-143.0	-0.03608		-0.03523	-16.7	-111.8			
				C:130755 OAKDL345		345	131128	LAPEER		345	1	209											
				Open 130755 OAKDL345		345	131128	LAPEER		345	1			0.05020	-0.01699	-575.7	-621.6						
10693	2699.9	5240.5	L:	131018 LOUNSI15	115	131850	CNYOG115		115	1				-18.5	143.0	0.05980		0.03523	18.7	113.8			
				C:130763 HILSD230		230	130768	WATRC230		230	1	219											
				Open 130763 HILSD230		230	130768	WATRC230		230	1			0.19959	0.12311	-186.1	146.3						
10703	2704.3	5243.0	L:	130848 S.OWE115	115	131850	CNYOG115		115	1				-16.7	-112.0	-0.03523							
				Base Case																			
10705	2707.2	5244.6	L:	130848 S.OWE115	115	131850	CNYOG115		115	1				-26.7	-143.0	-0.04296		-0.03523	-16.7	-112.1			
				C:SER:OAKDALE_WATRC230								1594											
				Open 130768 WATRC230		230	130772	SHRED230		230	1								-0.15025	0.05141	71.0	210.2	
				Open 130765 OAKDL230		230	130772	SHRED230		230	1			NA									
				Open 130765 OAKDL230		230	130838	OAKDL115		115	1												
10707	2708.1	5245.1	L:	130761 AVOCA230	230	131154	STONY RIDGE		230	1				196.5	383.0	0.06887		0.10162	0.00000	6.8	6.8		
				C:SER:HCWC/NWES								1607											
				Open 130757 WATRC345		345	200769	HOMER CY		345	1									-0.11471	-0.11289	-543.5	-849.3
				Open 130836 N.WAV115		115	200676	E.SAYRE		115	1									-0.00924	-0.03170	43.0	-42.9
10708	2708.3	5245.3	L:	135859 LAPPINS1	115	135866	NLEROYTA		115	1				87.6	173.0	0.03152		0.02814		78.2	154.5		
				C:130770 SHLDN230		230	131122	WTHRS230		230	1	228											
				Open 130770 SHLDN230		230	131122	WTHRS230		230	1									0.04101	0.08240	228.6	451.8
10710	2708.6	5245.5	L:	135859 LAPPINS1	115	135866	NLEROYTA		115	1				76.3	173.0	0.03568		0.02814		78.2	154.5		
				C:130754 KINTI345		345	147834	NIAG 345		345	1	204											
				Open 130754 KINTI345		345	147834	NIAG 345		345	1									-0.04136	-0.18226	46.0	-447.7
10711	2709.3	5245.8	L:	130815 HINMN115	115	135452	LOCKPORT		115	1				195.5	280.0	0.03120		0.02453		170.9	237.3		
				C:130766 ROBIN230		230	130767	STOLE230		230	1	224											
				Open 130766 ROBIN230		230	130767	STOLE230		230	1									0.26884	0.02482	91.5	158.7
10719	2712.6	5247.7	L:	137451 LEEDS 3	345	147831	GILB 345		345	1				-1318.9	-1912.0	-0.21864		-0.15592		-918.9	-1341.8		
				C:BUS:N.S._99								1615											
				Open 137453 N.SCOT99		345	147831	GILB 345		345	1									0.62614	-0.03237	-310.7	-398.5
				Open 137453 N.SCOT99		345	147833	MARCY T1		345	1									0.16124	-0.18563	-916.1	-1419.6
				Open 137453 N.SCOT99		345	137516	N.SCOT1		115	1									0.03268	0.00045	118.7	119.9
				Open 137451 LEEDS 3		345	137453	N.SCOT99		345	2									0.07201	-0.17416	-858.5	-1330.9
				Open 137452 N.SCOT77		345	137453	N.SCOT99		345	1									0.10439	0.00000	1.6	1.6
10723	2713.2	5248.0	L:	137451 LEEDS 3	345	137453	N.SCOT99		345	2				-858.5	-1331.0	-0.17416							
				Base Case																			
10724	2713.9	5248.4	L:	130848 S.OWE115	115	131850	CNYOG115		115	1				-26.4	-143.0	-0.04296		-0.03523		-16.7	-112.3		
				C:130765 OAKDL230		230	130772	SHRED230		230	1	222											
				Open 130765 OAKDL230		230	130772	SHRED230		230	1									0.15025	-0.05141	-64.5	-204.1
10727	2714.9	5249.0	L:	130848 S.OWE115	115	131850	CNYOG115		115	1				-26.4	-143.0	-0.04296		-0.03523		-16.7	-112.4		
				C:130765 OAKDL230		230	130838	OAKDL115		115	1	223											
				Open 130765 OAKDL230		230	130838	OAKDL115		115	1									-0.15025	0.05141	64.3	203.8
10728	2715.2	5249.2	L:	130750 COOPC345	345	130753	FRASR345		345	1				-1063.9	-1703.0	-0.23539		-0.22164		-997.1	-1598.9		
				C:125000 HURLEY 3		345	125002	ROSETON		345	1	1											
				Open 125000 HURLEY 3		345	125002	ROSETON		345	1									-0.10131	0.13569	659.3	1027.7
10731	2717.1	5250.2	L:	130763 HILSD230	230	131154	STONY RIDGE		230	1				-195.9	-383.0	-0.06887		-0.05563		-133.9	-285.1		
				C:SER:HCWC/NWES								1607											

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			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.11471	-0.11289	-543.5	-850.3
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.00924	-0.03170	43.0	-43.2
10733	2718.0	5250.7	L: 130767 STOLE230	230	130770	SHLDN230	230	1	280.3	540.0	0.09556	0.08224	218.2	441.8
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.11761	-0.11289	-543.5	-850.4
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.05269	0.00066	-35.9	-34.1
10734	2718.0	5250.8	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	196.7	383.0	0.06854	0.05563	134.5	285.7
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.11437	-0.11289	-543.5	-850.4
10742	2722.3	5253.2	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	87.2	173.0	0.03152	0.02814	78.2	154.9
			C:130767 STOLE230	230	130770	SHLDN230	230	1	226					
			Open 130767 STOLE230	230	130770	SHLDN230	230	1			0.04101	0.08224	218.2	442.1
10751	2727.1	5255.9	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-196.1	-383.0	-0.06854	-0.05563	-133.9	-285.6
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.11437	-0.11289	-543.5	-851.4
10756	2731.4	5258.4	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1	-448.0	-585.0	-0.05014			
			Base Case											
10757	2732.0	5258.7	L: 130815 HINMN115	115	131611	HARIS115	115	1	-219.6	-306.0	-0.03164	-0.02388	-198.4	-263.6
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			-0.04038	0.19221	524.7	1049.8
10758	2732.5	5259.0	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	20.4	-143.0	-0.05980	-0.03523	-16.7	-113.0
			C:130763 HILSD230	230	130768	WATRC230	230	1	219					
			Open 130763 HILSD230	230	130768	WATRC230	230	1			-0.19959	0.12311	-186.1	150.3
10772	2743.7	5265.3	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	195.0	383.0	0.06852	0.05563	134.5	287.2
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.11393	-0.11289	-543.5	-853.3
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.04046	0.00066	-35.9	-34.1
10774	2744.1	5265.5	L: 130753 FRASR345	345	137200	EDIC	345	1	-886.4	-1380.0	-0.17988	-0.09144	-706.7	-957.7
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755	OAKDL345	345	1			0.31108	-0.28430	-577.5	-1357.7
10780	2752.7	5270.4	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-194.4	-383.0	-0.06852	-0.05563	-133.9	-287.1
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.11393	-0.11289	-543.5	-854.3
			Open 135277 FALCONER	115	200579	WARREN	115	1			-0.04046	0.00066	-35.9	-34.1
10790	2756.0	5272.3	L: 130770 SHLDN230	230	131122	WTHRS230	230	1	258.7	540.0	0.10206	0.08240	228.6	455.7
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1			0.07131	0.27581	422.3	1182.4
10793	2758.2	5273.5	L: 130815 HINMN115	115	131611	HARIS115	115	1	-222.3	-306.0	-0.03036	-0.02388	-198.4	-264.2
			C:130766 ROBIN230	230	130767	STOLE230	230	1	224					
			Open 130766 ROBIN230	230	130767	STOLE230	230	1			-0.26115	0.02482	91.5	159.9
10899	2794.4	5294.0	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1051.1	-1703.0	-0.23327	-0.22164	-997.1	-1616.4
			C:BUS:N.S._77					1614						
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1			0.03865	-0.04338	-248.0	-369.3
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1			0.01599	0.00031	111.8	112.7
			Open 137200 EDIC	345	137452	N.SCOT77	345	1			-0.05541	0.17297	819.4	1302.8
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1			0.00917	-0.04091	-92.7	-207.0
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1			-0.01068	0.00000	-0.0	-0.0
12460	2818.4	5307.6	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	191.1	280.0	0.03154	0.02453	170.9	240.0

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				C:130764 MEYER230	230	131122	WTHRS230	230	1	221									
				Open 130764 MEYER230	230	131122	WTHRS230	230	1										
12517	2819.8	5308.3	L:	135859 LAPPINS1	115	135866	NLEROYTA	115	1		85.7	173.0	0.03095		-0.08488	-0.08254	-238.5	-471.2	
				C:135850 SOUR-114	115	135876	TELRDTP1	115	1	673									
				Open 135850 SOUR-114	115	135876	TELRDTP1	115	1										
13748	2824.0	5310.7	L:	135859 LAPPINS1	115	135866	NLEROYTA	115	1		86.3	173.0	0.03070		-0.11295	-0.02481	-66.3	-136.3	
				C:135452 LOCKPORT	115	135872	SOUR-111	115	1	599									
				Open 135452 LOCKPORT	115	135872	SOUR-111	115	1										
13868	2826.7	5312.2	L:	135452 LOCKPORT	115	135872	SOUR-111	115	1		73.5	159.0	0.03026		0.10725	0.02383	75.1	142.4	
				C:130754 KINTI345	345	147834	NIAG 345	345	1	204									
				Open 130754 KINTI345	345	147834	NIAG 345	345	1										
13977	2833.1	5315.9	L:	Interface	32	F-To-G					4205.5	6118.0	0.67507		-0.03527	-0.18226	46.0	-469.2	
				C:130750 COOPC345	345	130753	FRASR345	345	1	192									
				Open 130750 COOPC345	345	130753	FRASR345	345	1										
13992	2835.2	5317.0	L:	135859 LAPPINS1	115	135866	NLEROYTA	115	1		84.6	173.0	0.03117		-0.49362	-0.22164	-997.1	-1625.0	
				C:135850 SOUR-114	115	135861	MORTIMER	115	1	672									
				Open 135850 SOUR-114	115	135861	MORTIMER	115	1										
13995	2835.4	5317.2	*L:	135859 LAPPINS1	115	135866	NLEROYTA	115	1		86.0	173.0	0.03070		0.12194	0.02481	52.3	122.7	
				C:135872 SOUR-111	115	135873	SWDN-111	115	1	706									
				Open 135872 SOUR-111	115	135873	SWDN-111	115	1										
14048	2846.3	5323.3	L:	130815 HINMN115	115	135452	LOCKPORT	115	1		190.3	280.0	0.03152		0.10725	0.02383	71.8	139.4	
				C:130770 SHLDN230	230	131122	WTHRS230	230	1	228									
				Open 130770 SHLDN230	230	131122	WTHRS230	230	1										
14083	2861.7	5332.1	L:	130767 STOLE230	230	130770	SHLDN230	230	1		248.4	540.0	0.10191		0.08488	0.08240	228.6	463.1	
				C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226									
				Open 147834 NIAG 345	345	149000	ROCH 345	345	1										
14084	2863.0	5332.8	*L:	130750 COOPC345	345	130753	FRASR345	345	1		-1030.5	-1703.0	-0.23491		0.07131	0.27581	422.3	1211.6	
				C:137451 LEEDS 3	345	137455	ATHENS	345	1	1006									
				Open 137451 LEEDS 3	345	137455	ATHENS	345	1										
14093	2866.6	5334.8	L:	130815 HINMN115	115	131611	HARIS115	115	1		-218.0	-306.0	-0.03068		-0.07704	0.17221	433.3	926.3	
				C:130764 MEYER230	230	131122	WTHRS230	230	1	221									
				Open 130764 MEYER230	230	131122	WTHRS230	230	1										
14094	2867.4	5335.3	L:	136150 CLAY	345	137200	EDIC	345	2		766.3	1434.0	0.23285		0.08245	-0.08254	-238.5	-475.2	
				C:136150 CLAY	345	137200	EDIC	345	1	715									
				Open 136150 CLAY	345	137200	EDIC	345	1										
14097	2875.4	5339.8	L:	130815 HINMN115	115	135452	LOCKPORT	115	1		189.4	280.0	0.03151		0.33000	0.17463	574.8	1075.6	
				C:130767 STOLE230	230	130770	SHLDN230	230	1	226									
				Open 130767 STOLE230	230	130770	SHLDN230	230	1										
14106	2879.6	5342.1	L:	130764 MEYER230	230	131122	WTHRS230	230	1		-269.6	-540.0	-0.09391		0.08488	0.08224	218.2	454.7	
				C:130754 KINTI345	345	149000	ROCH 345	345	1	205									
				Open 130754 KINTI345	345	149000	ROCH 345	345	1										
14107	2880.9	5342.9	L:	136150 CLAY	345	137200	EDIC	345	1		764.7	1434.0	0.23232		-0.05915	0.19221	524.7	1078.1	
				C:136150 CLAY	345	137200	EDIC	345	2	716									
				Open 136150 CLAY	345	137200	EDIC	345	2										
14131	2888.5	5347.2	L:	130794 DELHI115	115	130838	OAKDL115	115	1		-76.3	-179.0	-0.03554		0.32927	0.17522	576.6	1081.4	
				C:130753 FRASR345	345	130755	OAKDL345	345	1	200									
				Open 130753 FRASR345	345	130755	OAKDL345	345	1										
14138	2894.5	5350.6	L:	130815 HINMN115	115	131611	HARIS115	115	1		-217.2	-306.0	-0.03067		0.05902	-0.28430	-577.5	-1398.7	

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			C:130770 SHLDN230	230	131122	WTHRS230	230	1	228											
			Open 130770 SHLDN230	230	131122	WTHRS230	230	1						-0.08245	0.08240	228.6	467.1			
14150	2905.0	5356.5	L: 130764 MEYER230	230	131122	WTHRS230	230	1						-303.1	-540.0	-0.08154		-0.08254	-238.5	-478.3
			C:BUS:WATERCURE_345						1632											
			Open 130757 WATRC345	345	200769	HOMER CY	345	1												
			Open 130757 WATRC345	345	130768	WATRC230	230	1												
			Open 130755 OAKDL345	345	130757	WATRC345	345	1												
14154	2906.6	5357.5	L: 130753 FRASR345	345	147831	GILB 345	345	1						678.7	1524.0	0.29082		0.18828	217.4	764.7
			C:130750 COOPC345	345	130753	FRASR345	345	1	192											
			Open 130750 COOPC345	345	130753	FRASR345	345	1												
14166	2923.5	5367.0	L: 130815 HINMN115	115	131611	HARIS115	115	1						-216.4	-306.0	-0.03066		-0.02388	-198.4	-268.2
			C:130767 STOLE230	230	130770	SHLDN230	230	1	226											
			Open 130767 STOLE230	230	130770	SHLDN230	230	1												
14175	2934.4	5373.2	L: 135872 SOUR-111	115	135873	SWDN-111	115	1						70.2	159.0	0.03026		0.02383	71.8	141.8
			C:130754 KINTI345	345	147834	NIAG 345	345	1	204											
			Open 130754 KINTI345	345	147834	NIAG 345	345	1												
14177	2937.5	5374.9	L: 135851 SHEL-113	115	135874	SWDN-113	115	1						89.0	180.0	0.03098		0.02412	70.3	141.1
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205											
			Open 130754 KINTI345	345	149000	ROCH 345	345	1												
14181	2938.4	5375.4	*L: 131018 LOUNS115	115	131850	CNYOG115	115	1						39.7	143.0	0.03515		0.03523	18.7	122.2
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392											
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1												
14182	2938.5	5375.5	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1						-1120.1	-1792.0	-0.22866		-0.18563	-916.1	-1461.6
			C:BUS:N.S._77						1614											
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1												
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1												
			Open 137200 EDIC	345	137452	N.SCOT77	345	1												
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1												
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1												
14195	2957.3	5386.1	L: 130764 MEYER230	230	131122	WTHRS230	230	1						-252.5	-540.0	-0.09721		-0.08254	-238.5	-482.6
			C:LKWANA-OXBW						1651											
			Open 417 OXBOW	230	3070	LACKAWNA	230	1												
14196	2957.6	5386.3	L: 137200 EDIC	345	137452	N.SCOT77	345	1						819.4	1331.0	0.17297				
			Base Case																	
14200	2963.6	5389.7	L: 135850 SOUR-114	115	135876	TELRDTP1	115	1						-85.6	-180.0	-0.03187		-0.02481	-66.3	-139.8
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205											
			Open 130754 KINTI345	345	149000	ROCH 345	345	1												
14202	2969.6	5393.1	L: 137451 LEEDS 3	345	137455	ATHENS	345	1						983.0	1725.0	0.24987		0.17221	433.3	944.7
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	2	120											
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	2												
14203	2970.8	5393.8	L: 135858 GOLAH115	115	135862	MUMFORD1	115	1						-64.0	-173.0	-0.03670		-0.02862	-41.9	-126.9
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205											
			Open 130754 KINTI345	345	149000	ROCH 345	345	1												
14204	2971.2	5394.0	L: 130836 N.WAV115	115	131018	LOUNS115	115	1						-7.4	173.0	0.06073		0.03523	22.2	126.9
			C:BUS:WATERCURE_230						1633											
			Open 130768 WATRC230	230	130772	SHRED230	230	1												
			Open 130757 WATRC345	345	130768	WATRC230	230	1												
			Open 130763 HILSD230	230	130768	WATRC230	230	1												

FtoG

14214	2990.1	5404.7	L: 130770 SHLDN230	230	131122	WTHRS230	230	1	259.6	540.0	0.09377	0.08240	228.6	475.0	
			C:130754 KINTI345	345	149000	ROCH 345	345	1							
			Open 130754 KINTI345		345	149000	ROCH 345	345							
14217	2993.9	5406.8	*L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-37.8	-143.0	-0.03515	0.05915	0.19221	524.7	1099.4
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1							
			Open 131128 LAPEER		345	136153	LAFAYTTE	345							
												0.03223	0.00241	-652.6	-645.3

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, APR 08 2009 10:56
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From ON_F_EXP To GHI_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 15887 violations

Interface-1 Interface 7 UPNY-SENY OP Init.Flow= 6639.90 TDF= 1.0000

N	FCITC IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
		C: Contingency description	Ncon	Flow	Rating	LODF	Init Final
1	-159713.-153073.	L: Interface 21 PJM-WEST C:ETHS/LLGD	1649	5133.5	-0.0	0.03214	0.04564 5112.7 -2177.4
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.13801	-0.07228 117.6 11661.8
		Open 130807 GOUDY115 115 200680 LAUREL L	115 1			0.12187	-0.02894 38.0 4659.4
2	-140034.-133394.	L: Interface 21 PJM-WEST C:130763 HILSD230 230 200675 E.TWANDA	230 1 1375	5127.4	0.0	0.03662	0.04564 5112.7 -1279.1
		Open 130763 HILSD230 230 200675 E.TWANDA	230 1			0.12492	-0.07228 117.6 10239.4
3	-131893.-125253.	L: Interface 21 PJM-WEST C:130763 HILSD230 230 130768 WATRC230	230 1 219	5123.5	0.0	0.03885	0.04564 5112.7 -907.6
		Open 130763 HILSD230 230 130768 WATRC230	230 1			-0.05811	0.11700 -186.1-15617.9
4	-129479.-122840.	L: Interface 21 PJM-WEST C:BUS:WATERCURE_230	1633	5130.0	-0.0	0.03962	0.04564 5112.7 -797.4
		Open 130768 WATRC230 230 130772 SHRED230	230 1			-0.02074	0.04884 71.0 -6253.4
		Open 130757 WATRC345 345 130768 WATRC230	230 1			0.07352	-0.06816 257.6 9082.6
		Open 130763 HILSD230 230 130768 WATRC230	230 1			-0.18949	0.00000 0.5 0.5
5	-126076.-119436.	L: Interface 21 PJM-WEST C:MULT04	1656	5043.3	-0.0	0.04000	0.04564 5112.7 -642.0
		Open 9 JUNIATA 500 21 SUNBURY	500 1			-0.13383	0.04135 524.7 -4688.9
		Open 21 SUNBURY 500 3084 SUNBURY	230 24			-0.00698	0.01552 -121.6 -2078.9

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6	-124968.-118328.	L: Interface	21	PJM-WEST			5130.0	0.0	0.04105		0.04564	5112.7	-591.4
		C:130757 WATRC345	345	130768 WATRC230	230	1	213						
		Open 130757 WATRC345	345	130768 WATRC230	230	1			0.06740	-0.06816	257.6	8775.1	
7	-119987.-113347.	L: Interface	21	PJM-WEST			5182.8	0.0	0.04319		0.04564	5112.7	-364.1
		C:SER:HC-SR_37&W-F_171					1600						
		Open 135398 SW345	345	200769 HOMER CY	345	1			-0.17837	0.01347	-378.4	-1995.0	
		Open 135277 FALCONER	115	200579 WARREN	115	1			-0.07354	0.00063	-35.9	-111.9	
8	-119278.-112638.	L: Interface	21	PJM-WEST			5175.9	-0.0	0.04339		0.04564	5112.7	-331.7
		C:135398 SW345	345	200769 HOMER CY	345	1	1380						
		Open 135398 SW345	345	200769 HOMER CY	345	1			-0.16708	0.01347	-378.4	-1985.5	
9	-118079.-111439.	L: Interface	21	PJM-WEST			5389.7	-0.0	0.04564		0.04564	5112.7	-277.0
		C:GEN:SALEM					1567						
		Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch					
10	-117586.-110946.*	L: Interface	21	PJM-WEST			5367.2	-0.0	0.04564		0.04564	5112.7	-254.5
		C:GEN:PEACHBTM					1568						
		Remove unit 1 from bus	34	PCHBTM 2	22.0	1060.3	MW	dispatch					
1752	-88063.3-81423.4	L: Interface	20	PJM-CENT			3528.6	-0.0	0.04007		0.09745	3269.0	-5312.3
		C:126260 BOWLINE1	345	146750 WHAV345	345	10	79						
		Open 126260 BOWLINE1	345	146750 WHAV345	345	10			-0.55149	0.10404	-470.6	-9632.8	
1761	-65431.9-58792.0	L: Interface	20	PJM-CENT			3469.8	0.0	0.05303		0.09745	3269.0	-3107.0
		C:SIN:30					1665						
		Open 126260 BOWLINE1	345	146841 BOW1	20.0	1	NA						
		Open 126260 BOWLINE1	345	146750 WHAV345	345	10			-0.42624	0.10404	-470.6	-7278.2	
		Open 126290 LADENTWN	345	146750 WHAV345	345	1			-0.00074	0.09576	-170.6	-6436.5	
1762	-55725.5-49085.6	L: Interface	20	PJM-CENT			3229.5	-0.0	0.05795		0.09745	3269.0	-2161.2
		C:LKWANA-OXBW					1651						
		Open 417 OXBOW	230	3070 LACKAWNA	230	1			0.33047	-0.11950	-119.7	6539.6	
1763	-53533.6-46893.7	L: Interface	20	PJM-CENT			3322.8	0.0	0.06207		0.09745	3269.0	-1947.6
		C:ETHS/NWES/LLGD					1648						
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.28248	-0.07228	117.6	3987.1	
		Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.25885	-0.03012	43.0	1655.3	
		Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.24753	-0.02894	38.0	1587.0	
1764	-44928.3-38288.4	L: Interface	20	PJM-CENT			3304.2	0.0	0.07354		0.09745	3269.0	-1109.0
		C:SER:C398/NWES					1605						
		Open 409 GROVER	230	200675 E.TWANDA	230	1			0.09834	0.00114	-15.6	-66.9	
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.24445	-0.07228	117.6	3365.1	
		Open 381 TOWANDA	115	200675 E.TWANDA	230	1			0.01930	-0.00587	-52.1	211.7	
		Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.20696	-0.03012	43.0	1396.1	
1765	-44918.8-38278.9	L: Interface	20	PJM-CENT			3306.6	0.0	0.07361		0.09745	3269.0	-1108.1
		C:SER:ETHS/NWES					1606						
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.24142	-0.07228	117.6	3364.4	
		Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.21196	-0.03012	43.0	1395.8	
1766	-42028.1-35388.2	L: Interface	20	PJM-CENT			3298.4	0.0	0.07848		0.09745	3269.0	-826.4
		C:ETHS/LLGD					1649						
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.19432	-0.07228	117.6	3155.5	
		Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.17004	-0.02894	38.0	1254.1	
1767	-40702.2-34062.3	L: Interface	20	PJM-CENT			3966.3	-0.0	0.09745		0.09745	3269.0	-697.2
		C:GEN:PEACHBTM					1568						

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			Remove unit 1 from bus	34	PCHBTM 2	22.0	1060.3 MW	dispatch									
1768	-40172.2-33532.3	L:	Interface	20	PJM-CENT				3914.6	-0.0	0.09745		0.09745	3269.0	-645.6		
			C:GEN:SALEM				1567										
			Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3 MW	dispatch									
1769	-38870.9-32231.0*	L:	Interface	20	PJM-CENT				3787.8	-0.0	0.09745		0.09745	3269.0	-518.7		
			C:SIN:250				1677										
			Open 100508 SANDB115	115	100509 SB RCTOR		115 2					-0.00004	0.00000	-0.1	-0.1		
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0 MW	dispatch									
3525	-3645.4	2994.5	L:	Interface	26	ONTARIO-MICH			761.4	-0.0	0.20888		0.22570	736.0	-86.8		
			C:ETHS/NWES/LLGD				1648										
			Open 130763 HILSD230	230	200675 E.TWANDA		230 1					0.12812	-0.07228	117.6	381.1		
			Open 130836 N.WAV115	115	200676 E.SAYRE		115 1					0.13049	-0.03012	43.0	152.8		
			Open 130807 GOUDY115	115	200680 LAUREL L		115 1					0.12559	-0.02894	38.0	143.4		
3526	-3507.6	3132.3	L:	Interface	26	ONTARIO-MICH			753.2	-0.0	0.21473		0.22570	736.0	-55.7		
			C:SER:ETHS/NWES				1606										
			Open 130763 HILSD230	230	200675 E.TWANDA		230 1					0.10729	-0.07228	117.6	371.2		
			Open 130836 N.WAV115	115	200676 E.SAYRE		115 1					0.10670	-0.03012	43.0	148.6		
3527	-3507.2	3132.7	L:	Interface	26	ONTARIO-MICH			753.1	-0.0	0.21472		0.22570	736.0	-55.6		
			C:SER:C398/NWES				1605										
			Open 409 GROVER	230	200675 E.TWANDA		230 1					0.00017	0.00114	-15.6	-19.6		
			Open 130763 HILSD230	230	200675 E.TWANDA		230 1					0.10753	-0.07228	117.6	371.1		
			Open 381 TOWANDA	115	200675 E.TWANDA		230 1					0.00253	-0.00587	-52.1	-31.5		
			Open 130836 N.WAV115	115	200676 E.SAYRE		115 1					0.10604	-0.03012	43.0	148.6		
3528	-3449.8	3190.1	L:	Interface	26	ONTARIO-MICH			749.1	0.0	0.21715		0.22570	736.0	-42.6		
			C:ETHS/LLGD				1649										
			Open 130763 HILSD230	230	200675 E.TWANDA		230 1					0.08368	-0.07228	117.6	367.0		
			Open 130807 GOUDY115	115	200680 LAUREL L		115 1					0.08652	-0.02894	38.0	137.8		
3529	-3442.2	3197.7	L:	Interface	26	ONTARIO-MICH			762.5	-0.0	0.22151		0.22570	736.0	-40.9		
			C:W44LC				1642										
			Open 160062 LONGWOOD	220	160074 COWALJ44		220 1					-0.16056	0.02142	189.2	115.5		
			Open 160074 COWALJ44	220	160134 BUCHJW44		220 1					0.16303	-0.00462	334.4	350.3		
			Open 160054 BUCHANAN	220	160134 BUCHJW44		220 1					-0.00035	0.00462	-256.1	-272.1		
			Open 160055 CHATHAM	220	160074 COWALJ44		220 1					0.71981	0.00000	3.1	3.1		
3530	-3442.0	3197.9	L:	Interface	26	ONTARIO-MICH			762.5	0.0	0.22151		0.22570	736.0	-40.9		
			C:W45LC				1643										
			Open 160062 LONGWOOD	220	160075 COWALJ45		220 1					-0.16050	0.02139	189.2	115.6		
			Open 160075 COWALJ45	220	160135 BUCHJW45		220 1					0.16297	-0.00462	334.3	350.2		
			Open 160054 BUCHANAN	220	160135 BUCHJW45		220 1					-0.00035	0.00462	-262.5	-278.3		
			Open 160055 CHATHAM	220	160075 COWALJ45		220 1					0.71977	0.00000	3.1	3.1		
3531	-3420.3	3219.7	L:	Interface	26	ONTARIO-MICH			771.6	-0.0	0.22559		0.22570	736.0	-36.0		
			C:131128 LAPEER	345	136153 LAFAYTTE	345 1	392										
			Open 131128 LAPEER	345	136153 LAFAYTTE		345 1					-0.05454	0.00200	-652.6	-659.4		
3532	-3413.6	3226.3	L:	Interface	26	ONTARIO-MICH			721.7	0.0	0.21141		0.22570	736.0	-34.5		
			C:LKWANA-OXBW				1651										
			Open 417 OXBOW	230	3070 LACKAWNA		230 1					0.11958	-0.11950	-119.7	288.2		
3533	-3400.1	3239.8	L:	Interface	26	ONTARIO-MICH			770.8	0.0	0.22670		0.22570	736.0	-31.4		
			C:130755 OAKDL345	345	131128 LAPEER	345 1	209										
			Open 130755 OAKDL345	345	131128 LAPEER		345 1					-0.06047	-0.01649	-575.7	-519.7		

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3534	-3388.5	3251.4	*L: Interface	26	ONTARIO-MICH			749.2	-0.0	0.22112		0.22570	736.0	-28.8			
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL														
			Open	505	SHELOCTA	230	521	KEYSTONE	230	1		0.08784	-0.04303	50.1	195.9		
			Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1		0.08830	-0.00914	100.2	131.2		
5294	-400.5	6239.4	L: 126294	PLTVLLEY	345	137451	LEEDS	3	345	2		-1828.7	-1725.0	-0.25889	-0.18225	-1281.0	-1208.0
			C:126294	PLTVLLEY	345	137455	ATHENS		345	1	121						
			Open	126294	PLTVLLEY	345	137455	ATHENS	345	1		0.44128	-0.17368	-1241.0	-1171.5		
5295	-261.0	6378.9	L: 126294	PLTVLLEY	345	137455	ATHENS		345	1		-1790.7	-1725.0	-0.25188	-0.17368	-1241.0	-1195.7
			C:126294	PLTVLLEY	345	137451	LEEDS	3	345	2	120						
			Open	126294	PLTVLLEY	345	137451	LEEDS	3	345	2	0.42910	-0.18225	-1281.0	-1233.5		
5296	274.1	6914.0	L: 126294	PLTVLLEY	345	137451	LEEDS	3	345	2		-1281.0	-1331.0	-0.18225			
			Base Case														
5297	393.1	7033.0	L: Interface	14	Leeds-PV				2522.1	2662.0	0.35593						
			Base Case														
5298	517.9	7157.9	L: 126294	PLTVLLEY	345	137455	ATHENS		345	1		-1241.0	-1331.0	-0.17368			
			Base Case														
5299	556.5	7196.4	L: 146758	CHESTER	138	146771	SHOEM138		138	1		-286.6	-317.0	-0.05463	-0.02963	-161.7	-178.2
			C:125001	ROCK TAV	345	126297	RAMAPO		345	1	7						
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		-0.11202	0.22319	1114.8	1239.0		
5300	556.5	7196.4	L: 146758	CHESTER	138	146771	SHOEM138		138	1		-286.6	-317.0	-0.05463	-0.02963	-161.7	-178.2
			C:SIN:440								1683						
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		-0.11202	0.22319	1114.8	1239.0		
5301	632.6	7272.5	L: 126294	PLTVLLEY	345	137451	LEEDS	3	345	2		-1577.7	-1725.0	-0.23286	-0.18225	-1281.0	-1396.3
			C:125000	HURLEY 3	345	137451	LEEDS	3	345	1	3						
			Open	125000	HURLEY 3	345	137451	LEEDS	3	345	1	0.32992	-0.15341	-899.2	-996.2		
5302	767.4	7407.3	L: Interface	14	Leeds-PV				3101.0	3450.0	0.45471				0.35593	2522.1	2795.2
			C:125000	HURLEY 3	345	137451	LEEDS	3	345	1	3						
			Open	125000	HURLEY 3	345	137451	LEEDS	3	345	1	-0.64389	-0.15341	-899.2	-1016.9		
5303	884.5	7524.4	L: 126294	PLTVLLEY	345	137451	LEEDS	3	345	2		-1566.9	-1725.0	-0.17870	-0.18225	-1281.0	-1442.2
			C:125002	ROSETON	345	126281	FISHKILL		345	1	10						
			Open	125002	ROSETON	345	126281	FISHKILL	345	1		-0.18979	-0.01869	1506.4	1489.8		
5304	884.5	7524.4	L: 126294	PLTVLLEY	345	137451	LEEDS	3	345	2		-1566.9	-1725.0	-0.17870	-0.18225	-1281.0	-1442.2
			C:SIN:430								1682						
			Open	125002	ROSETON	345	126281	FISHKILL	345	1		-0.18979	-0.01869	1506.4	1489.8		
5305	908.9	7548.9	L: 126294	PLTVLLEY	345	137455	ATHENS		345	1		-1523.3	-1725.0	-0.22185	-0.17368	-1241.0	-1398.9
			C:125000	HURLEY 3	345	137451	LEEDS	3	345	1	3						
			Open	125000	HURLEY 3	345	137451	LEEDS	3	345	1	0.31397	-0.15341	-899.2	-1038.6		
5306	965.7	7605.6	L: 130750	COOPC345	345	130753	FRASR345		345	1		-997.1	-1207.0	-0.21737			
			Base Case														
5307	993.2	7633.1	L: 126294	PLTVLLEY	345	137451	LEEDS	3	345	2		-1472.2	-1725.0	-0.25448	-0.18225	-1281.0	-1462.0
			C:137451	LEEDS 3	345	137455	ATHENS		345	1	1006						
			Open	137451	LEEDS 3	345	137455	ATHENS	345	1		-0.44128	0.16370	433.3	595.9		
5308	1060.0	7699.9	L: Interface	14	Leeds-PV				3080.0	3450.0	0.34901				0.35593	2522.1	2899.4
			C:SIN:430								1682						
			Open	125002	ROSETON	345	126281	FISHKILL	345	1		0.37040	-0.01869	1506.4	1486.6		
5309	1060.0	7699.9	L: Interface	14	Leeds-PV				3080.0	3450.0	0.34901				0.35593	2522.1	2899.4
			C:125002	ROSETON	345	126281	FISHKILL		345	1	10						
			Open	125002	ROSETON	345	126281	FISHKILL	345	1		0.37040	-0.01869	1506.4	1486.6		

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5310	1125.9	7765.8	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1474.4	-1725.0	-0.22255	-0.18225	-1281.0	-1486.2
			C:125000 HURLEY 3	345	125002 ROSETON	345	1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1						
5311	1200.0	7839.9	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05463	0.02963	126.6	162.1
			C:SIN:440										
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1						
5312	1200.0	7839.9	L: 146758 CHESTER	138	146773 SGRLF138	138	1	251.4	317.0	0.05463	0.02963	126.6	162.1
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1						
5313	1227.2	7867.1	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08145	-0.04962	-448.0	-508.9
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1						
5314	1227.2	7867.1	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0	-707.0	-0.08145	-0.04962	-448.0	-508.9
			C:SIN:440										
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1						
5315	1244.2	7884.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.17031	-0.17368	-1241.0	-1457.1
			C:125002 ROSETON	345	126281 FISHKILL	345	1						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1						
5316	1244.2	7884.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1513.1	-1725.0	-0.17031	-0.17368	-1241.0	-1457.1
			C:SIN:430										
			Open 125002 ROSETON	345	126281 FISHKILL	345	1						
5317	1266.7	7906.6	L: Interface 14 Leeds-PV					2899.5	3450.0	0.43459	0.35593	2522.1	2972.9
			C:125000 HURLEY 3	345	125002 ROSETON	345	1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1						
5318	1371.9	8011.8	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1430.3	-1725.0	-0.21479	-0.18225	-1281.0	-1531.1
			C:130750 COOPC345	345	130753 FRASR345	345	1						
			Open 130750 COOPC345	345	130753 FRASR345	345	1						
5319	1382.8	8022.7	L: 130794 DELHI115	115	130804 DEL T115	115	1	68.4	164.0	0.06914	0.03733	0.5	52.1
			C:130753 FRASR345	345	130755 OAKDL345	345	1						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1						
5320	1390.5	8030.4	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1348.1	-1724.0	-0.27033	-0.17308	-863.0	-1103.7
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2						
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2						
5321	1403.2	8043.1	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1317.8	-1703.0	-0.27451	-0.21737	-997.1	-1302.1
			C:130750 COOPC345	345	147833 MARCY T1	345	1						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1						
5322	1405.0	8044.9	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1345.1	-1724.0	-0.26969	-0.17210	-858.5	-1100.3
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1						
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1						
5323	1414.4	8054.4	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1425.1	-1725.0	-0.21204	-0.17368	-1241.0	-1486.7
			C:125000 HURLEY 3	345	125002 ROSETON	345	1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1						
5324	1484.8	8124.7	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-237.7	-317.0	-0.05338	-0.02963	-161.7	-205.7
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1						
5325	1517.7	8157.6	L: Interface 14 Leeds-PV					2813.4	3450.0	0.41944	0.35593	2522.1	3062.3
			C:130750 COOPC345	345	130753 FRASR345	345	1						
			Open 130750 COOPC345	345	130753 FRASR345	345	1						

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5326	1527.3	8167.2	L: 130817 JENN 115	115	130819 KATEL115	115	1	-107.6	-159.0	-0.03363	-0.01669	-71.5	-97.0
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345		345 130755 OAKDL345		345 1			0.06259	-0.27059	-577.5	-990.8
5327	1528.2	8168.1	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1350.8	1793.0	0.28936	0.18255	874.1	1153.0
			C:125001 ROCK TAV	345	130750 COOPC345	345	2 8						
			Open 125001 ROCK TAV		345 130750 COOPC345		345 2				-0.64149	-0.16651	-743.2 -997.6
5328	1625.1	8265.0	L: Interface 32 F-To-G					3713.3	4643.0	0.57209			
			Base Case										
5329	1670.6	8310.5	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1383.1	-1725.0	-0.20465	-0.17368	-1241.0	-1531.2
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345		345 130753 FRASR345		345 1				0.14248	-0.21737	-997.1 -1360.2
5330	1706.0	8345.9	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08145	0.04962	448.0	532.7
			C:SIN:440				1683						
			Open 125001 ROCK TAV		345 126297 RAMAPO		345 1				0.14263	0.22319	1114.8 1495.6
5331	1706.0	8345.9	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	607.0	746.0	0.08145	0.04962	448.0	532.7
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV		345 126297 RAMAPO		345 1				0.14263	0.22319	1114.8 1495.6
5332	1770.8	8410.7	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-1008.0	-1345.0	-0.19030	-0.13169	-739.1	-972.3
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345		345 130753 FRASR345		345 1				0.26966	-0.21737	-997.1 -1382.0
5333	1779.2	8419.1	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1292.6	-1793.0	-0.28126	-0.16651	-743.2	-1039.4
			C:130750 COOPC345	345	146754 MDTN TAP	345	1 195						
			Open 130750 COOPC345		345 146754 MDTN TAP		345 1				-0.62859	0.18255	874.1 1198.9
5334	1839.7	8479.6	L: 130817 JENN 115	115	130851 SIDNT115	115	1	53.9	120.0	0.03595	0.02000	19.8	56.6
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345		345 130755 OAKDL345		345 1				-0.05894	-0.27059	-577.5 -1075.3
5335	1848.0	8487.9	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	46.7	143.0	0.05212	0.03347	18.7	80.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345		345 130757 WATRC345		345 1				-0.10628	-0.17542	-263.5 -587.7
5336	1852.3	8492.2	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.3	173.0	0.03979	0.02673	78.2	127.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345		345 149000 ROCH 345		345 1				0.04986	0.26193	422.3 907.4
5337	1885.4	8525.3	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-44.7	-143.0	-0.05212	-0.03347	-16.7	-79.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345		345 130757 WATRC345		345 1				0.10628	-0.17542	-263.5 -594.3
5338	1894.0	8533.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1353.2	-1725.0	-0.19631	-0.18225	-1281.0	-1626.2
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345		345 146754 MDTN TAP		345 1				-0.09362	0.18255	874.1 1219.8
			Open 125001 ROCK TAV		345 146754 MDTN TAP		345 1				-0.02277	-0.13293	-425.4 -677.1
5339	1905.3	8545.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1353.2	-1725.0	-0.19511	-0.18225	-1281.0	-1628.3
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345		345 147833 MARCY T1		345 1				0.09769	-0.13169	-739.1 -990.1
5340	1905.6	8545.5	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1262.4	-1793.0	-0.27843	-0.16651	-743.2	-1060.5
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345		345 146754 MDTN TAP		345 1				-0.55569	0.18255	874.1 1221.9
			Open 125001 ROCK TAV		345 146754 MDTN TAP		345 1				0.07885	-0.13293	-425.4 -678.7
5341	1925.7	8565.6	L: Interface 23 QFW					892.6	-0.0	-0.46349	-0.46017	1095.5	209.3
			C:GEN:KINTIGH-New				1777						

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			Open 130754 KINTI345	345	130873 KINTIG24	24.0	1			0.00000	-0.00472	-288.5	-297.6
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	2			0.35120	-0.00944	-577.7	-595.9
5342	1946.5	8586.4	*L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1344.5	-1725.0	-0.19549	-0.18225	-1281.0	-1635.8
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195					
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.07257	0.18255	874.1	1229.4
5343	1953.3	8593.2	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.0	159.0	0.03377	0.02263	75.1	119.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04252	0.26193	422.3	933.9
5344	1971.6	8611.5	L: 130757 WATRC345	345	200769 HOMER CY	345	1	-543.5	-755.0	-0.10726			
			Base Case										
5345	1978.4	8618.3	L: Interface 23 QFW					910.4	-0.0	-0.46017	-0.46017	1095.5	185.0
			C:GEN:9 MI PT2					1561					
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
5346	1981.2	8621.1	L: Interface 23 QFW					918.7	0.0	-0.46370	-0.46017	1095.5	183.8
			C:HQ-NY-765-New					1778					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.25138	0.00751	624.7	639.6
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.25138	0.00653	543.6	556.5
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.00702	10.3	-3.6
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.09617	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
5350	2012.6	8652.5	L: 130819 KATEL115	115	130838 OAKDL115	115	1	-124.3	-192.0	-0.03363	-0.01669	-88.2	-121.8
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			0.06259	-0.27059	-577.5	-1122.1
5354	2029.0	8668.9	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-544.9	-707.0	-0.07989	-0.04962	-448.0	-548.7
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	9					
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.22773	-0.13293	-425.4	-695.1
5356	2043.9	8683.8	L: Interface 23 QFW					940.5	0.0	-0.46017	-0.46017	1095.5	154.9
			C:GEN:GINNA					1562					
			Remove unit 1 from bus 149140 GINNA 19	19.0	605.0 MW	dispatch							
5357	2049.8	8689.7	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	89.8	159.0	0.03377	0.02263	71.8	118.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04252	0.26193	422.3	959.2
5359	2053.1	8693.0	L: Interface 14 Leeds-PV					2662.9	3450.0	0.38338	0.35593	2522.1	3252.8
			C:SER:CMT34&MTR34					1593					
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			0.18272	0.18255	874.1	1248.9
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.04443	-0.13293	-425.4	-698.3
5362	2061.8	8701.7	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-772.3	-1380.0	-0.29475	-0.27059	-577.5	-1135.4
			C:130753 FRASR345	345	137200 EDIC	345	1	202					

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			Open 130753 FRASR345	345	137200	EDIC	345	1		0.27558	-0.08765	-706.7	-887.5		
5363	2065.4	8705.3	L: Interface 14 Leeds-PV						2663.0	3450.0	0.38104	0.35593	2522.1	3257.2	
			C:130750 COOPC345	345	147833	MARCY T1	345	1	196						
			Open 130750 COOPC345	345	147833	MARCY T1	345	1				-0.19065	-0.13169	-739.1	-1011.1
5365	2095.8	8735.7	L: 137451 LEEDS 3	345	137453	N.SCOT99	345	2		-1214.0	-1724.0	-0.24333	-0.17210	-858.5	-1219.1
			C:BUS:N.S._77						1614						
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1		0.60779	-0.03917	-248.0	-330.1		
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1		0.40443	-0.00370	111.8	104.0		
			Open 137200 EDIC	345	137452	N.SCOT77	345	1		-0.33531	0.16346	819.4	1162.0		
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1		-0.26699	-0.03324	-92.7	-162.4		
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1		0.20561	0.00000	-0.0	-0.0		
5366	2100.1	8740.0	L: Interface 23 QFW						966.4	0.0	-0.46017	-0.46017	1095.5	129.0	
			C:GEN:SEAB&OMS						1575						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1		
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch						
5367	2100.1	8740.0	L: Interface 23 QFW						966.4	0.0	-0.46017	-0.46017	1095.5	129.0	
			C:GEN:SEABROOK						1573						
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch						
5368	2106.2	8746.1	L: Interface 14 Leeds-PV						2645.9	3450.0	0.38178	0.35593	2522.1	3271.7	
			C:130750 COOPC345	345	146754	MDTN TAP	345	1	195						
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1		0.14164	0.18255	874.1	1258.5		
5369	2107.3	8747.2	L: Interface 23 QFW						969.7	-0.0	-0.46017	-0.46017	1095.5	125.8	
			C:SIN:250						1677						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1		
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch						
5370	2109.5	8749.4	L: Interface 23 QFW						970.7	0.0	-0.46017	-0.46017	1095.5	124.7	
			C:GEN:MLS3&OMS						1574						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1		
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch						
5371	2109.5	8749.4	L: Interface 23 QFW						970.7	0.0	-0.46017	-0.46017	1095.5	124.7	
			C:GEN:MILLST 3						1572						
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch						
5373	2131.2	8771.1	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	99.9	173.0	0.03428	0.02673	78.2	135.2	
			C:130754 KINTI345	345	149000	ROCH	345	1	205						
			Open 130754 KINTI345	345	149000	ROCH	345	1		0.04136	0.18253	524.7	913.7		
5374	2132.5	8772.4	*L: Interface 23 QFW						972.3	-0.0	-0.45594	-0.46017	1095.5	114.1	
			C:SER:HC-SR_37&W-F_171						1600						
			Open 135398 SW345	345	200769	HOMER CY	345	1		0.30257	0.01347	-378.4	-349.7		
			Open 135277 FALCONER	115	200579	WARREN	115	1		0.24131	0.00063	-35.9	-34.6		
5375	2143.3	8783.2	L: 146758 CHESTER	138	146773	SGRLF138	138	1	202.6	317.0	0.05338	0.02963	126.6	190.1	
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	9						
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1		-0.17871	-0.13293	-425.4	-710.3		
5376	2154.6	8794.5	L: Interface 14 Leeds-PV						2625.9	3450.0	0.38248	0.35593	2522.1	3289.0	
			C:SER:PV_LM_398						1597						
			Open 103105 LONG MTN	345	103117	CTNY398	345	1		0.33673	0.07885	308.5	478.4		
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1		-0.23700	0.00000	0.2	0.2		
5377	2154.6	8794.5	*L: Interface 14 Leeds-PV						2625.9	3450.0	0.38248	0.35593	2522.1	3289.0	
			C:103117 CTNY398	345	126294	PLTVLLEY	345	1	1362						

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			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1				0.33673	0.07885	308.3	478.2
5381	2170.5	8810.4	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1082.7	-1703.0	-0.28579	-0.21737	-997.1	-1468.9	
			C:130753 FRASR345	345	147831	GILB 345	345	1							203
			Open 130753 FRASR345	345	147831	GILB 345	345	1				-0.39383	0.17372	217.4	594.5
5389	2203.5	8843.4	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-83.8	-173.0	-0.04046	-0.02718	-62.4	-122.3	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							1226
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				-0.05070	0.26193	422.3	999.4
5391	2220.0	8860.0	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1309.7	-1725.0	-0.18707	-0.17368	-1241.0	-1626.6	
			C:SER:CMT34&MTR34					1593							
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				-0.08910	0.18255	874.1	1279.3
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				-0.02167	-0.13293	-425.4	-720.5
5394	2233.4	8873.3	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1309.8	-1725.0	-0.18593	-0.17368	-1241.0	-1628.9	
			C:130750 COOPC345	345	147833	MARCY T1	345	1							196
			Open 130750 COOPC345	345	147833	MARCY T1	345	1				0.09296	-0.13169	-739.1	-1033.3
5405	2260.8	8900.7	L: 135452 LOCKPORT	115	135876	TELRDTP1	115	1	104.1	180.0	0.03359	0.02250	86.2	137.1	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							1226
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04231	0.26193	422.3	1014.4
5413	2273.8	8913.7	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1301.4	-1725.0	-0.18629	-0.17368	-1241.0	-1636.0	
			C:130750 COOPC345	345	146754	MDTN TAP	345	1							195
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				-0.06906	0.18255	874.1	1289.1
5425	2288.0	8927.9	L: 130757 WATRC345	345	130768	WATRC230	230	1	455.1	600.0	0.06333	-0.06816	257.6	101.6	
			C:130755 OAKDL345	345	130757	WATRC345	345	1							206
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.74956	-0.17542	-263.5	-664.9
5428	2291.1	8931.0	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1147.3	-1703.0	-0.24257	-0.21737	-997.1	-1495.1	
			C:137451 LEEDS 3	345	147831	GILB 345	345	1							1007
			Open 137451 LEEDS 3	345	147831	GILB 345	345	1				0.16344	-0.15418	-918.9	-1272.1
5431	2296.8	8936.7	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1	448.0	562.0	0.04962				
			Base Case												
5451	2321.8	8961.8	*L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1291.7	-1725.0	-0.18663	-0.17368	-1241.0	-1644.3	
			C:SER:PV_LM_398					1597							
			Open 103105 LONG MTN	345	103117	CTNY398	345	1				-0.16419	0.07885	308.5	491.6
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1				0.11556	0.00000	0.2	0.2
5465	2332.8	8972.7	L: 135850 SOUR-114	115	135861	MORTIMER	115	1	71.0	153.0	0.03515	0.02356	52.3	107.3	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							1226
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04425	0.26193	422.3	1033.3
5508	2355.5	8995.4	L: 130836 N.WAV115	115	131018	LOUNSI115	115	1	50.2	173.0	0.05212	0.03347	22.2	101.1	
			C:130755 OAKDL345	345	130757	WATRC345	345	1							206
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.10628	-0.17542	-263.5	-676.7
5621	2376.8	9016.7	L: 137451 LEEDS 3	345	137452	N.SCOT77	345	1	-1184.4	-1724.0	-0.22702	-0.17308	-863.0	-1274.4	
			C:137451 LEEDS 3	345	147831	GILB 345	345	1							1007
			Open 137451 LEEDS 3	345	147831	GILB 345	345	1				0.34981	-0.15418	-918.9	-1285.3
5734	2379.8	9019.7	L: 130794 DELHI115	115	130851	SIDNT115	115	1	-35.8	-120.0	-0.03538	-0.01954	-2.0	-48.5	
			C:130753 FRASR345	345	130755	OAKDL345	345	1							200
			Open 130753 FRASR345	345	130755	OAKDL345	345	1				0.05853	-0.27059	-577.5	-1221.5
7088	2391.7	9031.6	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1	98.3	180.0	0.03417	0.02290	80.1	134.9	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							1226
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04302	0.26193	422.3	1048.7
7190	2406.6	9046.5	L: 137451 LEEDS 3	345	137453	N.SCOT99	345	2	-1180.0	-1724.0	-0.22605	-0.17210	-858.5	-1272.6	

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			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1007											
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1					0.34992	-0.15418	-918.9	-1289.9				
7220	2413.4	9053.3	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1		-1229.4	-1792.0	-0.23311		-0.17538	-916.1	-1339.3				
			C:SIN:160					1670											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.35322	0.16346	819.4	1213.9				
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					-0.19918	0.00000	119.9	119.9				
			Open 137235 PORTER 1	115	137246 VALLEY	115	1					-0.00023	-0.00031	74.8	74.1				
7221	2413.4	9053.3	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1		-1229.4	-1792.0	-0.23311		-0.17538	-916.1	-1339.3				
			C:SIN:150					1669											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.35322	0.16346	819.4	1213.9				
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					-0.19920	0.00000	119.9	119.9				
			Open 137235 PORTER 1	115	147905 ILION	115	1					-0.00016	-0.00020	88.8	88.3				
7230	2415.4	9055.3	L: 130815 HINMN115	115	135452 LOCKPORT	115	1		192.0	280.0	0.03642		0.02330	170.9	227.1				
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.05011	0.26193	422.3	1054.9				
8682	2441.5	9081.4	L: 130764 MEYER230	230	131122 WTHRS230	230	1		-238.5	-430.0	-0.07842								
			Base Case																
8794	2457.8	9097.7	L: 130815 HINMN115	115	131611 HARIS115	115	1		-218.9	-306.0	-0.03542		-0.02267	-198.4	-254.1				
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					-0.04868	0.26193	422.3	1066.0				
8879	2503.7	9143.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-577.5	-1255.0	-0.27059								
			Base Case																
8896	2517.2	9157.1	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1		544.9	746.0	0.07989		0.04962	448.0	572.9				
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	9											
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1					-0.22773	-0.13293	-425.4	-760.0				
8924	2538.9	9178.8	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-84.5	-173.0	-0.03486		-0.02718	-62.4	-131.4				
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205											
			Open 130754 KINTI345	345	149000 ROCH 345	345	1					-0.04206	0.18253	524.7	988.1				
8925	2541.0	9180.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-656.6	-1380.0	-0.28468		-0.27059	-577.5	-1265.1				
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196											
			Open 130750 COOPC345	345	147833 MARCY T1	345	1					0.10700	-0.13169	-739.1	-1073.8				
8942	2555.0	9194.9	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1		-1199.5	-1792.0	-0.23191		-0.17538	-916.1	-1364.2				
			C:137200 EDIC	345	137452 N.SCOT77	345	1	946											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.34586	0.16346	819.4	1237.1				
8962	2572.9	9212.8	L: 130770 SHLDN230	230	131122 WTHRS230	230	1		228.6	430.0	0.07828								
			Base Case																
8970	2577.1	9217.0	L: 130764 MEYER230	230	131122 WTHRS230	230	1		-301.9	-540.0	-0.09239		-0.07842	-238.5	-440.6				
			C:SER:HCWC/NWES					1607											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1					0.11957	-0.10726	-543.5	-820.0				
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1					0.03821	-0.03012	43.0	-34.6				
8972	2577.7	9217.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-649.7	-1380.0	-0.28333		-0.27059	-577.5	-1275.0				
			C:SIN:180					1672											
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1					0.07265	-0.17538	-916.1	-1368.1				
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					-0.04702	0.00000	119.9	119.9				
			Open 137235 PORTER 1	115	147905 ILION	115	1					0.00061	-0.00020	88.8	88.3				
8973	2577.7	9217.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-649.7	-1380.0	-0.28333		-0.27059	-577.5	-1275.0				
			C:SIN:170					1671											
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1					0.07265	-0.17538	-916.1	-1368.1				

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10682	2710.1	9350.0	L: 130767 STOLE230	230	130770 SHLDN230	230	1	218.2	430.0	0.07813				
Base Case														
10683	2711.4	9351.3	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-63.3	-173.0	-0.04046	-0.02718	-41.9	-115.6	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.05070	0.26193	422.3	1132.5
10690	2717.4	9357.3	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	292.8	540.0	0.09096	0.07828	228.6	441.3	
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11819	-0.10726	-543.5	-835.0
10700	2727.9	9367.8	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	703.6	1685.0	0.35978	0.26193	422.3	1136.8	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.53611	0.18253	524.7	1022.6
10715	2734.8	9374.7	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1119.7	1724.0	0.22095	0.16346	819.4	1266.4	
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.32784	-0.17538	-916.1	-1395.7
10716	2734.9	9374.8	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1692.2	2283.0	0.21603	0.22319	1114.8	1725.2	
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.38330	-0.01869	1506.4	1455.3
10717	2734.9	9374.8	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1692.2	2283.0	0.21603	0.22319	1114.8	1725.2	
			C:SIN:430					1682						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.38330	-0.01869	1506.4	1455.3
10727	2742.6	9382.5	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	290.6	540.0	0.09093	0.07828	228.6	443.3	
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11761	-0.10726	-543.5	-837.7
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.05269	0.00063	-35.9	-34.2
10731	2745.8	9385.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-858.5	-1331.0	-0.17210				
Base Case														
10747	2757.6	9397.5	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1318.9	-1912.0	-0.21507	-0.15418	-918.9	-1344.1	
			C:BUS:N.S._99					1615						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.62614	-0.03210	-310.7	-399.2
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.16124	-0.17538	-916.1	-1399.7
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.03268	-0.00379	118.7	108.2
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.07201	-0.17210	-858.5	-1333.0
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.10439	0.00000	1.6	1.6
10750	2758.0	9397.9	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-54.4	-153.0	-0.03574	-0.02395	-35.4	-101.5	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.04499	0.26193	422.3	1144.7
10752	2760.3	9400.2	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-448.0	-585.0	-0.04962				
Base Case														
10763	2763.3	9403.2	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1063.9	-1703.0	-0.23129	-0.21737	-997.1	-1597.7	
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.10131	0.13740	659.3	1039.0
10928	2781.8	9421.7	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	47.6	143.0	0.03430	0.03347	18.7	111.8	
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				-0.05020	-0.01649	-575.7	-621.6
11017	2784.7	9424.6	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	29.3	143.0	0.04081	0.03347	18.7	111.9	
			C:130768 WATRC230	230	130772 SHRED230	230	1	227						
			Open 130768 WATRC230	230	130772 SHRED230	230	1				0.15025	0.04884	71.0	207.0

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12033	2787.9	9427.8	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	18.7	112.0	0.03347				
			Base Case											
12232	2793.1	9433.0	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1117.4	1724.0	0.21719	0.16346	819.4	1276.0	
			C:BUS:N.S._99				1615							
			Open 137453 N.SCOT99	345	147831 GILB	345	1				-0.18532	-0.03210	-310.7	-400.4
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.38312	-0.17538	-916.1	-1405.9
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.09741	-0.00379	118.7	108.1
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.11491	-0.17210	-858.5	-1339.1
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.24148	0.00000	1.6	1.6
12250	2794.7	9434.6	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-268.7	-540.0	-0.09709	-0.07842	-238.5	-457.7	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.07131	0.26193	422.3	1154.3
12299	2801.5	9441.4	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	28.7	143.0	0.04081	0.03347	18.7	112.5	
			C:SER:OAKDALE_WATRC230				1594							
			Open 130768 WATRC230	230	130772 SHRED230	230	1				0.15025	0.04884	71.0	207.9
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				-0.10162	0.00000	6.8	6.8
12314	2805.4	9445.3	L: 130767 STOLE230	230	130770 SHLDN230	230	1	281.6	540.0	0.09211	0.07813	218.2	437.4	
			C:SER:HCWC/NWES				1607							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11957	-0.10726	-543.5	-844.4
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.03821	-0.03012	43.0	-41.5
12328	2808.6	9448.5	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	28.4	143.0	0.04081	0.03347	18.7	112.7	
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222						
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				-0.15025	-0.04884	-64.5	-201.7
12330	2809.6	9449.5	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	28.3	143.0	0.04081	0.03347	18.7	112.7	
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.15025	0.04884	64.3	201.5
12350	2815.1	9455.0	L: Interface 32 F-To-G					4205.5	6118.0	0.67939	0.57209	3713.3	5323.8	
			C:130750 COOPC345	345	130753 FRASR345	345	1	192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1				-0.49362	-0.21737	-997.1	-1609.0
12358	2818.5	9458.4	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-50.8	-153.0	-0.03624	-0.02429	-31.6	-100.0	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.04563	0.26193	422.3	1160.5
12368	2827.5	9467.4	L: 130815 HINMNI15	115	135452 LOCKPORT	115	1	192.7	280.0	0.03088	0.02330	170.9	236.7	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.04157	0.18253	524.7	1040.8
12379	2832.4	9472.3	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-27.4	-143.0	-0.04081	-0.03347	-16.7	-111.5	
			C:130768 WATRC230	230	130772 SHRED230	230	1	227						
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.15025	0.04884	71.0	209.4
12384	2835.7	9475.6	L: 130767 STOLE230	230	130770 SHLDN230	230	1	282.5	540.0	0.09081	0.07813	218.2	439.8	
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11819	-0.10726	-543.5	-847.7
12386	2838.6	9478.5	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-45.6	-143.0	-0.03430	-0.03347	-16.7	-111.7	
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				0.05020	-0.01649	-575.7	-622.5
12387	2841.3	9481.2	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	-18.5	143.0	0.05683	0.03347	18.7	113.8	
			C:130763 HILSD230	230	130768 WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.19959	0.11700	-186.1	146.4

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12393	2846.1	9486.0	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-16.7	-112.0	-0.03347			
			Base Case											
12395	2849.2	9489.2	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-26.7	-143.0	-0.04081	-0.03347	-16.7	-112.1
			C:SER:OAKDALE_WATRC230					1594						
			Open 130768 WATRC230	230	130772	SHRED230	230	1			-0.15025	0.04884	71.0	210.2
			Open 130765 OAKDL230	230	130772	SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			0.10162	0.00000	6.8	6.8
12396	2849.9	9489.8	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	196.5	383.0	0.06545	0.05287	134.5	285.2
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.11471	-0.10726	-543.5	-849.2
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.00924	-0.03012	43.0	-42.8
12397	2852.3	9492.2	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	76.3	173.0	0.03389	0.02673	78.2	154.5
			C:130754 KINTI345	345	147834	NIAG 345	345	1	204					
			Open 130754 KINTI345	345	147834	NIAG 345	345	1			-0.04136	-0.17309	46.0	-447.7
12401	2855.3	9495.2	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1051.1	-1703.0	-0.22830	-0.21737	-997.1	-1617.7
			C:BUS:N.S._77					1614						
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1			0.03865	-0.03917	-248.0	-359.9
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1			0.01599	-0.00370	111.8	101.2
			Open 137200 EDIC	345	137452	N.SCOT77	345	1			-0.05541	0.16346	819.4	1286.1
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1			0.00917	-0.03324	-92.7	-187.6
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1			-0.01068	0.00000	-0.0	-0.0
12403	2856.3	9496.2	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-26.4	-143.0	-0.04081	-0.03347	-16.7	-112.3
			C:130765 OAKDL230	230	130772	SHRED230	230	1	222					
			Open 130765 OAKDL230	230	130772	SHRED230	230	1			0.15025	-0.04884	-64.5	-204.0
12405	2857.3	9497.2	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-26.4	-143.0	-0.04081	-0.03347	-16.7	-112.4
			C:130765 OAKDL230	230	130838	OAKDL115	115	1	223					
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			-0.15025	0.04884	64.3	203.8
12407	2859.3	9499.2	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-195.9	-383.0	-0.06545	-0.05287	-133.9	-285.1
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.11471	-0.10726	-543.5	-850.2
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.00924	-0.03012	43.0	-43.1
12410	2860.3	9500.2	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	196.7	383.0	0.06513	0.05287	134.5	285.7
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.11437	-0.10726	-543.5	-850.3
12412	2860.9	9500.8	L: 130767 STOLE230	230	130770	SHLDN230	230	1	280.3	540.0	0.09078	0.07813	218.2	441.8
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.11761	-0.10726	-543.5	-850.4
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.05269	0.00063	-35.9	-34.1
12418	2869.8	9509.7	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-196.1	-383.0	-0.06513	-0.05287	-133.9	-285.6
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.11437	-0.10726	-543.5	-851.3
12425	2872.7	9512.6	L: 130753 FRASR345	345	137200	EDIC	345	1	-886.4	-1380.0	-0.17183	-0.08765	-706.7	-958.5
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755	OAKDL345	345	1			0.31108	-0.27059	-577.5	-1354.8
12427	2875.6	9515.5	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	20.4	-143.0	-0.05683	-0.03347	-16.7	-113.0
			C:130763 HILSD230	230	130768	WATRC230	230	1	219					
			Open 130763 HILSD230	230	130768	WATRC230	230	1			-0.19959	0.11700	-186.1	150.4
12430	2876.9	9516.8	L: 130815 HINMN115	115	131611	HARIS115	115	1	-219.6	-306.0	-0.03004	-0.02267	-198.4	-263.6

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				C:130754 KINTI345	345	149000	ROCH	345	345	1	205								
				Open 130754 KINTI345	345	149000	ROCH	345	345	1									
12444	2887.3	9527.2	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	195.0	383.0	0.06511							
				C:SER:HC-WC_30&W-F_171															
				Open 130757 WATRC345	345	200769	HOMER CY	345	1										
				Open 135277 FALCONER	115	200579	WARREN	115	1										
12446	2896.8	9536.7	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-194.4	-383.0	-0.06511							
				C:SER:HC-WC_30&W-F_171															
				Open 130757 WATRC345	345	200769	HOMER CY	345	1										
				Open 135277 FALCONER	115	200579	WARREN	115	1										
12449	2901.2	9541.1	L:	130770 SHLDN230	230	131122	WTHRS230	230	1	258.7	540.0	0.09696							
				C:147834 NIAG 345	345	149000	ROCH	345	345	1	1226								
				Open 147834 NIAG 345	345	149000	ROCH	345	345	1									
12477	2924.3	9564.2	*L:	130750 COOPC345	345	130753	FRASR345	345	1	-1030.5	-1703.0	-0.22998							
				C:137451 LEEDS 3	345	137455	ATHENS	345	1	1006									
				Open 137451 LEEDS 3	345	137455	ATHENS	345	1										

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, APR 30 2009 16:58
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3_coned.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From ON_G_EXP To GHI_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 31924 violations

Interface-1 Interface 8 UPNY-CONED O Init.Flow= 5085.59 TDF= 0.4588

N	FCITC IntFcel L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
1	-166471.-71298.7 L: Interface 21 PJM-WEST	Ncon	Flow	Rating	LODF	Init	Final
	C: Contingency description						
	C:ETHS/LLGD	1649					
	Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.13801	-0.06935	116.5 11660.6
	Open 130807 GOUDY115 115 200680 LAUREL L	115	1		0.12186	-0.02776	37.6 4659.1
2	-145963.-61888.8 L: Interface 21 PJM-WEST	5127.5	0.0	0.03513	0.04379	5113.0	-1279.0
	C:130763 HILSD230 230 200675 E.TWANDA	230	1	1375			
	Open 130763 HILSD230 230 200675 E.TWANDA	230	1		0.12492	-0.06935	116.5 10238.5
3	-137480.-57996.5 L: Interface 21 PJM-WEST	5123.7	-0.0	0.03727	0.04379	5113.0	-907.5
	C:130763 HILSD230 230 130768 WATRC230	230	1	219			
	Open 130763 HILSD230 230 130768 WATRC230	230	1		-0.05811	0.11225	-185.0-15617.8
4	-134964.-56842.1 L: Interface 21 PJM-WEST	5130.3	-0.0	0.03801	0.04379	5113.0	-797.3
	C:BUS:WATERCURE_230	1633					
	Open 130768 WATRC230 230 130772 SHRED230	230	1		-0.02074	0.04686	71.5 -6253.3
	Open 130757 WATRC345 345 130768 WATRC230	230	1		0.07352	-0.06539	256.9 9082.5
	Open 130763 HILSD230 230 130768 WATRC230	230	1		-0.18950	0.00000	0.5 0.5
5	-131418.-55214.7 L: Interface 21 PJM-WEST	5043.5	0.0	0.03838	0.04379	5113.0	-642.0
	C:MULT04	1656					
	Open 9 JUNIATA 500 21 SUNBURY	500	1		-0.13383	0.03967	525.3 -4688.5
	Open 21 SUNBURY 500 3084 SUNBURY	230	24		-0.00698	0.01489	-121.4 -2078.8

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6	-130263.-54684.8	L: Interface	21	PJM-WEST		5130.3	0.0	0.03938		0.04379	5113.0	-591.4
		C:130757 WATRC345	345	130768 WATRC230	230 1 213							
		Open 130757 WATRC345	345	130768 WATRC230	230 1			0.06740	-0.06539		256.9	8775.0
7	-125076.-52304.9	L: Interface	21	PJM-WEST		5183.3	0.0	0.04144		0.04379	5113.0	-364.3
		C:SER:HC-SR_37&W-F_171			1600							
		Open 135398 SW345	345	200769 HOMER CY	345 1			-0.17837	0.01293		-379.0	-1995.9
		Open 135277 FALCONER	115	200579 WARREN	115 1			-0.07355	0.00061		-36.2	-112.2
8	-124337.-51965.6	L: Interface	21	PJM-WEST		5176.3	0.0	0.04163		0.04379	5113.0	-331.9
		C:135398 SW345	345	200769 HOMER CY	345 1 1380							
		Open 135398 SW345	345	200769 HOMER CY	345 1			-0.16708	0.01293		-379.0	-1986.4
9	-123083.-51390.3	L: Interface	21	PJM-WEST		5390.0	-0.0	0.04379		0.04379	5113.0	-277.0
		C:GEN:SALEM			1567							
		Remove unit 1 from bus	36	SALEM-G1	22.0 1117.3 MW dispatch							
10	-122563.-51151.7*L:	Interface	21	PJM-WEST		5367.2	0.0	0.04379		0.04379	5113.0	-254.2
		C:GEN:PEACHBTM			1568							
		Remove unit 1 from bus	34	PCHBTM 2	22.0 1059.2 MW dispatch							
1750	-89820.3-36127.9	L: Interface	20	PJM-CENT		3530.5	0.0	0.03931		0.09349	3270.9	-5126.3
		C:126260 BOWLINE1	345	146750 WHAV345	345 10 79							
		Open 126260 BOWLINE1	345	146750 WHAV345	345 10			-0.55150	0.09825		-470.7	-9295.3
1759	-67350.9-25817.9	L: Interface	20	PJM-CENT		3471.6	0.0	0.05155		0.09349	3270.9	-3025.7
		C:SIN:30			1665							
		Open 126260 BOWLINE1	345	146841 BOW1	20.0 1 NA							
		Open 126260 BOWLINE1	345	146750 WHAV345	345 10			-0.42624	0.09825		-470.7	-7087.7
		Open 126290 LADENTWN	345	146750 WHAV345	345 1			-0.00074	0.09027		-170.5	-6250.4
1760	-58104.0-21575.1	L: Interface	20	PJM-CENT		3230.7	0.0	0.05560		0.09349	3270.9	-2161.2
		C:LKWANA-OXBW			1651							
		Open 417 OXBOW	230	3070 LACKAWNA	230 1			0.33045	-0.11465		-121.5	6540.1
1761	-55819.0-20526.6	L: Interface	20	PJM-CENT		3324.1	0.0	0.05955		0.09349	3270.9	-1947.6
		C:ETHS/NWES/LLGD			1648							
		Open 130763 HILSD230	230	200675 E.TWANDA	230 1			0.28246	-0.06935		116.5	3987.3
		Open 130836 N.WAV115	115	200676 E.SAYRE	115 1			0.25883	-0.02889		42.6	1655.4
		Open 130807 GOUDY115	115	200680 LAUREL L	115 1			0.24751	-0.02776		37.6	1587.2
1762	-46849.6-16411.0	L: Interface	20	PJM-CENT		3305.6	-0.0	0.07056		0.09349	3270.9	-1109.0
		C:SER:C398/NWES			1605							
		Open 409 GROVER	230	200675 E.TWANDA	230 1			0.09834	0.00110		-15.6	-66.9
		Open 130763 HILSD230	230	200675 E.TWANDA	230 1			0.24443	-0.06935		116.5	3365.3
		Open 381 TOWANDA	115	200675 E.TWANDA	230 1			0.01930	-0.00563		-52.2	211.7
		Open 130836 N.WAV115	115	200676 E.SAYRE	115 1			0.20694	-0.02889		42.6	1396.3
1763	-46839.7-16406.5	L: Interface	20	PJM-CENT		3308.0	0.0	0.07062		0.09349	3270.9	-1108.1
		C:SER:ETHS/NWES			1606							
		Open 130763 HILSD230	230	200675 E.TWANDA	230 1			0.24141	-0.06935		116.5	3364.6
		Open 130836 N.WAV115	115	200676 E.SAYRE	115 1			0.21194	-0.02889		42.6	1396.0
1764	-43826.8-15024.1	L: Interface	20	PJM-CENT		3299.9	-0.0	0.07529		0.09349	3270.9	-826.4
		C:ETHS/LLGD			1649							
		Open 130763 HILSD230	230	200675 E.TWANDA	230 1			0.19431	-0.06935		116.5	3155.7
		Open 130807 GOUDY115	115	200680 LAUREL L	115 1			0.17002	-0.02776		37.6	1254.3
1765	-42436.5-14386.1	L: Interface	20	PJM-CENT		3967.3	0.0	0.09349		0.09349	3270.9	-696.5
		C:GEN:PEACHBTM			1568							

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			C:SIN:130				1668						
			Open 126263	BUCHANAN S	345	126291	MILLWOOD	345	1		-0.00657	-0.13896	786.1 1711.3
			Open 126263	BUCHANAN S	345	126291	MILLWOOD	345	2		-0.00657	-0.13896	786.1 1711.3
			Open 126263	BUCHANAN S	345	126290	LADENTWN	345	1		0.04986	0.23162	39.7 -1502.5
			Open 126263	BUCHANAN S	345	147832	IP3 345	345	1	NA			
			Open 147798	IP#3 GEN	22.0	147832	IP3 345	345	1	NA			
			Open 147798	IP#3 GEN	22.0	147832	IP3 345	345	2	NA			
			Remove unit 1	from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch			
3529	-6658.1	2030.6	L: Interface	61 PJMC2C				596.1	-0.0	0.08953		0.10290	544.6 -140.6
			C:SIN:120				1667						
			Open 126263	BUCHANAN S	345	126291	MILLWOOD	345	1		0.00657	-0.13896	786.1 1711.3
			Open 126263	BUCHANAN S	345	126291	MILLWOOD	345	2		0.00657	-0.13896	786.1 1711.3
			Open 126263	BUCHANAN S	345	126290	LADENTWN	345	1		-0.04986	0.23162	39.7 -1502.5
			Open 126263	BUCHANAN S	345	147832	IP3 345	345	1	NA			
			Open 147798	IP#3 GEN	22.0	147832	IP3 345	345	1	NA			
			Open 147798	IP#3 GEN	22.0	147832	IP3 345	345	2	NA			
			Remove unit 1	from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch			
3530	-6658.1	2030.6	L: Interface	47 C-PJMWest				-596.1	0.0	-0.08953		-0.10290	-544.6 140.6
			C:SIN:120				1667						
			Open 126263	BUCHANAN S	345	126291	MILLWOOD	345	1		-0.00657	-0.13896	786.1 1711.3
			Open 126263	BUCHANAN S	345	126291	MILLWOOD	345	2		-0.00657	-0.13896	786.1 1711.3
			Open 126263	BUCHANAN S	345	126290	LADENTWN	345	1		0.04986	0.23162	39.7 -1502.5
			Open 126263	BUCHANAN S	345	147832	IP3 345	345	1	NA			
			Open 147798	IP#3 GEN	22.0	147832	IP3 345	345	1	NA			
			Open 147798	IP#3 GEN	22.0	147832	IP3 345	345	2	NA			
			Remove unit 1	from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch			
3531	-6658.1	2030.6	L: Interface	47 C-PJMWest				-596.1	0.0	-0.08953		-0.10290	-544.6 140.6
			C:SIN:130				1668						
			Open 126263	BUCHANAN S	345	126291	MILLWOOD	345	1		-0.00657	-0.13896	786.1 1711.3
			Open 126263	BUCHANAN S	345	126291	MILLWOOD	345	2		-0.00657	-0.13896	786.1 1711.3
			Open 126263	BUCHANAN S	345	126290	LADENTWN	345	1		0.04986	0.23162	39.7 -1502.5
			Open 126263	BUCHANAN S	345	147832	IP3 345	345	1	NA			
			Open 147798	IP#3 GEN	22.0	147832	IP3 345	345	1	NA			
			Open 147798	IP#3 GEN	22.0	147832	IP3 345	345	2	NA			
			Remove unit 1	from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch			
3532	-6658.1	2030.6	L: Interface	61 PJMC2C				596.1	-0.0	0.08953		0.10290	544.6 -140.6
			C:SIN:130				1668						
			Open 126263	BUCHANAN S	345	126291	MILLWOOD	345	1		0.00657	-0.13896	786.1 1711.3
			Open 126263	BUCHANAN S	345	126291	MILLWOOD	345	2		0.00657	-0.13896	786.1 1711.3
			Open 126263	BUCHANAN S	345	126290	LADENTWN	345	1		-0.04986	0.23162	39.7 -1502.5
			Open 126263	BUCHANAN S	345	147832	IP3 345	345	1	NA			
			Open 147798	IP#3 GEN	22.0	147832	IP3 345	345	1	NA			
			Open 147798	IP#3 GEN	22.0	147832	IP3 345	345	2	NA			
			Remove unit 1	from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch			
3533	-6390.1	2153.5	L: Interface	60 C2PJMC				-484.0	-0.0	-0.07574		-0.10290	-544.6 113.0
			C:130753	FRASR345	345	130755	OAKDL345	345	1	200			
			Open 130753	FRASR345	345	130755	OAKDL345	345	1		-0.10463	-0.25963	-579.0 1080.1
3534	-6390.1	2153.5	L: Interface	47 C-PJMWest				-484.0	-0.0	-0.07574		-0.10290	-544.6 113.0

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				C:130753 FRASR345	345	130755 OAKDL345	345	1	200										
				Open 130753 FRASR345	345	130755 OAKDL345	345	1											
3535	-6390.1	2153.5	L:	Interface	61	PJMC2C				484.0	0.0	0.07574							
				C:130753 FRASR345	345	130755 OAKDL345	345	1	200										
				Open 130753 FRASR345	345	130755 OAKDL345	345	1											
3536	-6390.1	2153.5	L:	Interface	48	PJMWest-C				484.0	0.0	0.07574							
				C:130753 FRASR345	345	130755 OAKDL345	345	1	200										
				Open 130753 FRASR345	345	130755 OAKDL345	345	1											
3537	-6252.1	2216.8	L:	Interface	60	C2PJMC				-585.9	0.0	-0.09371							
				C:GEN:IND PT 3-New					1773										
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1											
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2											
3538	-6252.1	2216.8	L:	Interface	47	C-PJMWest				-585.9	0.0	-0.09371							
				C:GEN:IND PT 3-New					1773										
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1											
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2											
3539	-6252.1	2216.8	L:	Interface	61	PJMC2C				585.9	-0.0	0.09371							
				C:GEN:IND PT 3-New					1773										
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1											
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2											
3540	-6252.1	2216.8	L:	Interface	48	PJMWest-C				585.9	-0.0	0.09371							
				C:GEN:IND PT 3-New					1773										
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1											
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2											
3541	-6190.5	2245.1	L:	Interface	47	C-PJMWest				-583.5	-0.0	-0.09426							
				C:GEN:IND PT 2-New					1772										
				Open 126288 IP2 345	345	126651 IND PT 2	22.0	1											
				Open 126288 IP2 345	345	126651 IND PT 2	22.0	2											
3542	-6190.5	2245.1	L:	Interface	61	PJMC2C				583.5	0.0	0.09426							
				C:GEN:IND PT 2-New					1772										
				Open 126288 IP2 345	345	126651 IND PT 2	22.0	1											
				Open 126288 IP2 345	345	126651 IND PT 2	22.0	2											
3543	-6190.5	2245.1	L:	Interface	60	C2PJMC				-583.5	-0.0	-0.09426							
				C:GEN:IND PT 2-New					1772										
				Open 126288 IP2 345	345	126651 IND PT 2	22.0	1											
				Open 126288 IP2 345	345	126651 IND PT 2	22.0	2											
3544	-6190.5	2245.1	L:	Interface	48	PJMWest-C				583.5	0.0	0.09426							
				C:GEN:IND PT 2-New					1772										
				Open 126288 IP2 345	345	126651 IND PT 2	22.0	1											
				Open 126288 IP2 345	345	126651 IND PT 2	22.0	2											
3545	-6152.7	2262.4	L:	Interface	61	PJMC2C				618.0	0.0	0.10044							
				C:SER:HC-SR_37&W-F_171					1600										
				Open 135398 SW345	345	200769 HOMER CY	345	1											
				Open 135277 FALCONER	115	200579 WARREN	115	1											
3546	-6152.7	2262.4	L:	Interface	48	PJMWest-C				618.0	0.0	0.10044							
				C:SER:HC-SR_37&W-F_171					1600										
				Open 135398 SW345	345	200769 HOMER CY	345	1											
				Open 135277 FALCONER	115	200579 WARREN	115	1											

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			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.00674	10.4	51.6		
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA						
			Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.05514	0.00000	18.8	18.8		
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA						
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease	bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set	bus	181319	CHAT G3	120	load to	357.0	MW dispatch							
			Decrease	bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set	bus	181419	CHAT G4	120	load to	357.0	MW dispatch							
3552	-6110.6	2281.8	L:	Interface	60	C2PJMC			-630.9	0.0	-0.10324		-0.10290	-544.6	84.3		
			C:	HQ-NY-765-New					1776								
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA						
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA						
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		-0.02483	0.00721	624.6	580.5		
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		-0.02483	0.00627	543.5	505.2		
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open	147838	MASS230B	230	147839	MOSES E	230	1		0.00000	-0.00674	10.4	51.6		
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA						
			Open	147837	MASS230A	230	147839	MOSES E	230	1		0.05514	0.00000	18.8	18.8		
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA						
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease	bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set	bus	181319	CHAT G3	120	load to	357.0	MW dispatch							
			Decrease	bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set	bus	181419	CHAT G4	120	load to	357.0	MW dispatch							
3553	-6083.9	2294.0	L:	Interface	48	PJMWest-C			612.1	-0.0	0.10060		0.10290	544.6	-81.5		
			C:	135398	SW345	345	200769	HOMER CY	345	1	1380						
			Open	135398	SW345	345	200769	HOMER CY	345	1		-0.17809	0.01293	-379.0	-457.7		
3554	-6083.9	2294.0	L:	Interface	47	C-PJMWest			-612.1	0.0	-0.10060		-0.10290	-544.6	81.5		
			C:	135398	SW345	345	200769	HOMER CY	345	1	1380						
			Open	135398	SW345	345	200769	HOMER CY	345	1		0.17809	0.01293	-379.0	-457.7		
3555	-6083.9	2294.0	L:	Interface	60	C2PJMC			-612.1	0.0	-0.10060		-0.10290	-544.6	81.5		
			C:	135398	SW345	345	200769	HOMER CY	345	1	1380						
			Open	135398	SW345	345	200769	HOMER CY	345	1		0.17809	0.01293	-379.0	-457.7		
3556	-6083.9	2294.0	L:	Interface	61	PJMC2C			612.1	-0.0	0.10060		0.10290	544.6	-81.5		
			C:	135398	SW345	345	200769	HOMER CY	345	1	1380						
			Open	135398	SW345	345	200769	HOMER CY	345	1		-0.17809	0.01293	-379.0	-457.7		
3557	-6074.5	2298.3	*L:	Interface	60	C2PJMC			-625.1	0.0	-0.10290		-0.10290	-544.6	80.5		
			C:	GEN:9	MI	PT2			1561								
			Remove	unit	2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch					
3558	-6074.5	2298.3	*L:	Interface	48	PJMWest-C			625.1	-0.0	0.10290		0.10290	544.6	-80.5		
			C:	GEN:9	MI	PT2			1561								
			Remove	unit	2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch					
3559	-6074.5	2298.3	*L:	Interface	61	PJMC2C			625.1	-0.0	0.10290		0.10290	544.6	-80.5		
			C:	GEN:9	MI	PT2			1561								

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			Open 130757 WATRC345	345	200769	HOMER	CY	345	1		0.35978	-0.10290	-544.6	-70.9	
			Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		0.21489	-0.02889	42.6	175.6	
10583	-4070.5	3217.9	L: Interface 63 PJMW2C							509.5	0.0	0.12517	0.22890	347.9	-583.9
			C:ETHS/NWES/LLGD						1648						
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1		0.80832	-0.06935	116.5	398.8	
			Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		0.83277	-0.02889	42.6	160.2	
			Open 130807 GOUDY115	115	200680	LAUREL	L	115	1		0.85089	-0.02776	37.6	150.6	
10584	-4070.5	3217.9	L: Interface 62 C2PJMW							-509.5	-0.0	-0.12517	-0.22890	-347.9	583.9
			C:ETHS/NWES/LLGD						1648						
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1		-0.80832	-0.06935	116.5	398.8	
			Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		-0.83277	-0.02889	42.6	160.2	
			Open 130807 GOUDY115	115	200680	LAUREL	L	115	1		-0.85089	-0.02776	37.6	150.6	
10589	-3784.1	3349.3	L: Interface 26 ONTARIO-MICH							758.3	-0.0	0.20040	0.21654	733.1	-86.3
			C:ETHS/NWES/LLGD						1648						
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1		0.12811	-0.06935	116.5	378.9	
			Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		0.13048	-0.02889	42.6	151.9	
			Open 130807 GOUDY115	115	200680	LAUREL	L	115	1		0.12557	-0.02776	37.6	142.7	
10590	-3641.3	3414.8	L: Interface 26 ONTARIO-MICH							750.1	-0.0	0.20601	0.21654	733.1	-55.4
			C:SER:ETHS/NWES						1606						
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1		0.10728	-0.06935	116.5	369.0	
			Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		0.10669	-0.02889	42.6	147.8	
10591	-3640.8	3415.0	L: Interface 26 ONTARIO-MICH							750.0	-0.0	0.20600	0.21654	733.1	-55.3
			C:SER:C398/NWES						1605						
			Open 409 GROVER	230	200675	E.TWANDA		230	1		0.00017	0.00110	-15.6	-19.6	
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1		0.10752	-0.06935	116.5	369.0	
			Open 381 TOWANDA	115	200675	E.TWANDA		230	1		0.00253	-0.00563	-52.2	-31.7	
			Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		0.10603	-0.02889	42.6	147.8	
10592	-3581.4	3442.3	L: Interface 26 ONTARIO-MICH							746.1	-0.0	0.20833	0.21654	733.1	-42.4
			C:ETHS/LLGD						1649						
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1		0.08368	-0.06935	116.5	364.8	
			Open 130807 GOUDY115	115	200680	LAUREL	L	115	1		0.08651	-0.02776	37.6	137.0	
10593	-3574.7	3445.3	L: Interface 26 ONTARIO-MICH							759.7	-0.0	0.21251	0.21654	733.1	-41.0
			C:W44LC						1642						
			Open 160062 LONGWOOD	220	160074	COWALJ44		220	1		-0.16055	0.02055	189.0	115.5	
			Open 160074 COWALJ44	220	160134	BUCHJW44		220	1		0.16302	-0.00444	334.6	350.5	
			Open 160054 BUCHANAN	220	160134	BUCHJW44		220	1		-0.00035	0.00444	-256.3	-272.2	
			Open 160055 CHATHAM	220	160074	COWALJ44		220	1		0.71982	0.00000	3.1	3.1	
10594	-3574.5	3445.5	L: Interface 26 ONTARIO-MICH							759.6	0.0	0.21252	0.21654	733.1	-40.9
			C:W45LC						1643						
			Open 160062 LONGWOOD	220	160075	COWALJ45		220	1		-0.16050	0.02053	189.0	115.6	
			Open 160075 COWALJ45	220	160135	BUCHJW45		220	1		0.16297	-0.00443	334.5	350.3	
			Open 160054 BUCHANAN	220	160135	BUCHJW45		220	1		-0.00035	0.00443	-262.7	-278.5	
			Open 160055 CHATHAM	220	160075	COWALJ45		220	1		0.71978	0.00000	3.1	3.1	
10595	-3551.4	3456.0	L: Interface 26 ONTARIO-MICH							768.6	-0.0	0.21643	0.21654	733.1	-35.9
			C:131128 LAPEER	345	136153	LAFAYTTE		345	1	392					
			Open 131128 LAPEER	345	136153	LAFAYTTE		345	1		-0.05454	0.00190	-651.5	-658.3	
10596	-3542.8	3460.0	L: Interface 26 ONTARIO-MICH							718.6	0.0	0.20283	0.21654	733.1	-34.0
			C:LKWANA-OXBW						1651						

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			Open	417	OXBOW	230	3070	LACKAWNA	230	1				0.11957	-0.11465	-121.5	284.6
10597	-3530.5	3465.6	L: Interface	26	ONTARIO-MICH				767.9	-0.0	0.21749			0.21654	733.1	-31.4	
			C:130755	OAKDL345	345	131128	LAPEER	345	1	209							
			Open	130755	OAKDL345	345	131128	LAPEER	345	1				-0.06046	-0.01585	-574.8	-518.9
10598	-3517.8	3471.5	*L: Interface	26	ONTARIO-MICH				746.2	0.0	0.21214			0.21654	733.1	-28.6	
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL														
			Open	505	SHELOCTA	230	521	KEYSTONE	230	1				0.08783	-0.04128	49.0	194.2
			Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1				0.08830	-0.00876	100.1	130.9
12292	-3265.7	3587.1	L: Interface	55	PJME-NYEnoRE				1478.1	1287.0	0.05851			0.00000	1299.2	1299.2	
			C:BUS:WATERCURE_345														
			Open	130757	WATRC345	345	200769	HOMER CY	345	1				-0.44170	-0.10290	-544.6	-208.5
			Open	130757	WATRC345	345	130768	WATRC230	230	1				-0.19969	-0.06539	256.9	470.4
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				-0.45971	0.00000	22.5	22.5
12293	-3265.7	3587.1	L: Interface	56	NYE-PJMEEnoRE				-1478.1	-1287.0	-0.05851			-0.00000	-1299.2	-1299.2	
			C:BUS:WATERCURE_345														
			Open	130757	WATRC345	345	200769	HOMER CY	345	1				0.44170	-0.10290	-544.6	-208.5
			Open	130757	WATRC345	345	130768	WATRC230	230	1				0.19969	-0.06539	256.9	470.4
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				0.45971	0.00000	22.5	22.5
12328	-3013.2	3703.0	L: Interface	51	G-PJMEast				-118.2	-0.0	-0.03922			-0.00000	-0.0	-0.0	
			C:BUS:WATERCURE_345														
			Open	130757	WATRC345	345	200769	HOMER CY	345	1				0.29411	-0.10290	-544.6	-234.5
			Open	130757	WATRC345	345	130768	WATRC230	230	1				0.13688	-0.06539	256.9	453.9
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				0.30531	0.00000	22.5	22.5
12329	-3013.2	3703.0	L: Interface	52	PJMEast-G				118.2	0.0	0.03922			0.00000	0.0	0.0	
			C:BUS:WATERCURE_345														
			Open	130757	WATRC345	345	200769	HOMER CY	345	1				-0.29411	-0.10290	-544.6	-234.5
			Open	130757	WATRC345	345	130768	WATRC230	230	1				-0.13688	-0.06539	256.9	453.9
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				-0.30531	0.00000	22.5	22.5
12339	-2782.4	3808.9	L: Interface	63	PJMW2C				454.2	0.0	0.16323			0.22890	347.9	-289.0	
			C:SER:ETHS/NWES														
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1				0.66720	-0.06935	116.5	309.4
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1				0.67157	-0.02889	42.6	123.0
12340	-2782.4	3808.9	L: Interface	62	C2PJMW				-454.2	-0.0	-0.16323			-0.22890	-347.9	289.0	
			C:SER:ETHS/NWES														
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1				-0.66720	-0.06935	116.5	309.4
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1				-0.67157	-0.02889	42.6	123.0
12341	-2778.1	3810.9	L: Interface	63	PJMW2C				453.3	-0.0	0.16316			0.22890	347.9	-288.1	
			C:SER:C398/NWES														
			Open	409	GROVER	230	200675	E.TWANDA	230	1				0.00110	0.00110	-15.6	-18.6
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1				0.66879	-0.06935	116.5	309.1
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1				0.01712	-0.00563	-52.2	-36.6
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1				0.66714	-0.02889	42.6	122.8
12342	-2778.1	3810.9	L: Interface	62	C2PJMW				-453.3	0.0	-0.16316			-0.22890	-347.9	288.1	
			C:SER:C398/NWES														
			Open	409	GROVER	230	200675	E.TWANDA	230	1				-0.00110	0.00110	-15.6	-18.6
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1				-0.66879	-0.06935	116.5	309.1
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1				-0.01712	-0.00563	-52.2	-36.6
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1				-0.66714	-0.02889	42.6	122.8

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12353	-2454.9	3959.2	L: Interface 62 C2PJM	1649	-431.6	0.0	-0.17582	-0.22890	-347.9	214.1
			C:ETHS/LLGD	1649						
			Open 130763 HILSD230	230 200675 E.TWANDA	230 1		-0.52471	-0.06935	116.5	286.7
			Open 130807 GOUDY115	115 200680 LAUREL L	115 1		-0.60156	-0.02776	37.6	105.8
12354	-2454.9	3959.2	L: Interface 63 PJMW2C	1649	431.6	-0.0	0.17582	0.22890	347.9	-214.1
			C:ETHS/LLGD	1649						
			Open 130763 HILSD230	230 200675 E.TWANDA	230 1		0.52471	-0.06935	116.5	286.7
			Open 130807 GOUDY115	115 200680 LAUREL L	115 1		0.60156	-0.02776	37.6	105.8
12355	-2404.8	3982.2	L: Interface 56 NYE-PJME	1561	-1455.0	-1287.0	-0.06985	-0.00000	-1299.2	-1299.2
			C:130753 FRASR345	345 130755 OAKDL345	345 1 200					
			Open 130753 FRASR345	345 130755 OAKDL345	345 1		0.26905	-0.25963	-579.0	45.4
12356	-2404.8	3982.2	L: Interface 55 PJME-NYEN	1561	1455.0	1287.0	0.06985	0.00000	1299.2	1299.2
			C:130753 FRASR345	345 130755 OAKDL345	345 1 200					
			Open 130753 FRASR345	345 130755 OAKDL345	345 1		-0.26905	-0.25963	-579.0	45.4
12363	-2267.9	4045.0	L: Interface 63 PJMW2C	1561	519.1	-0.0	0.22890	0.22890	347.9	-171.3
			C:GEN:9 MI PT2	1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0 1197.5 MW						dispatch
12364	-2267.9	4045.0	L: Interface 62 C2PJM	1561	-519.1	0.0	-0.22890	-0.22890	-347.9	171.3
			C:GEN:9 MI PT2	1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0 1197.5 MW						dispatch
12365	-2260.9	4048.2	L: Interface 62 C2PJM	1776	-518.8	0.0	-0.22946	-0.22890	-347.9	169.7
			C:HQ-NY-765-New	1776						
			Open 147827 MARCY765	765 147828 MASS 765	765 1 NA					
			Open 147828 MASS 765	765 180819 CHA-NY	765 1 NA					
			Open 147827 MARCY765	765 147833 MARCY T1	345 1		-0.04115	0.00721	624.6	608.3
			Open 147827 MARCY765	765 147833 MARCY T1	345 2		-0.04115	0.00627	543.5	529.3
			Open 156 MCY765SW	0.0 147827 MARCY765	765 1 NA					
			Open 147838 MASS230B	230 147839 MOSES E	230 1		0.00000	-0.00674	10.4	25.7
			Open 147828 MASS 765	765 147838 MASS230B	230 1 NA					
			Open 147837 MASS230A	230 147839 MOSES E	230 1		0.11503	0.00000	18.8	18.8
			Open 147828 MASS 765	765 147837 MASS230A	230 1 NA					
			Open 158 MS765SW2	0.0 147828 MASS 765	765 1 NA					
			Open 157 MS765SW1	0.0 147828 MASS 765	765 1 NA					
			Decrease bus 180001 BEA-DLX	13.8 generation by	100.0 percent					dispatch
			Set bus 181319 CHAT G3	120 load to	357.0 MW					dispatch
			Decrease bus 180002 BEA-DL	13.8 generation by	100.0 percent					dispatch
			Set bus 181419 CHAT G4	120 load to	357.0 MW					dispatch
12366	-2260.9	4048.2	L: Interface 63 PJMW2C	1776	518.8	-0.0	0.22946	0.22890	347.9	-169.7
			C:HQ-NY-765-New	1776						
			Open 147827 MARCY765	765 147828 MASS 765	765 1 NA					
			Open 147828 MASS 765	765 180819 CHA-NY	765 1 NA					
			Open 147827 MARCY765	765 147833 MARCY T1	345 1		0.04115	0.00721	624.6	608.3
			Open 147827 MARCY765	765 147833 MARCY T1	345 2		0.04115	0.00627	543.5	529.3
			Open 156 MCY765SW	0.0 147827 MARCY765	765 1 NA					
			Open 147838 MASS230B	230 147839 MOSES E	230 1		-0.00000	-0.00674	10.4	25.7
			Open 147828 MASS 765	765 147838 MASS230B	230 1 NA					
			Open 147837 MASS230A	230 147839 MOSES E	230 1		-0.11503	0.00000	18.8	18.8
			Open 147828 MASS 765	765 147837 MASS230A	230 1 NA					

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			Open	158	MS765SW2	0.0	147828	MASS	765	765	1	NA								
			Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA								
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch								
			Set	bus	181319	CHAT	G3	120	load	to	357.0	MW	dispatch							
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch								
			Set	bus	181419	CHAT	G4	120	load	to	357.0	MW	dispatch							
12367	-2231.0	4061.9	L: Interface	51	G-PJMEast								-107.6	0.0	-0.04821		-0.00000	-0.0	-0.0	
			C:130753	FRASR345	345	130755	OAKDL345	345	1	200										
			Open	130753	FRASR345	345	130755	OAKDL345	345	1					0.18570	-0.25963	-579.0	0.2		
12368	-2231.0	4061.9	L: Interface	52	PJMEast-G								107.6	-0.0	0.04821		0.00000	0.0	0.0	
			C:130753	FRASR345	345	130755	OAKDL345	345	1	200										
			Open	130753	FRASR345	345	130755	OAKDL345	345	1						-0.18570	-0.25963	-579.0	0.2	
12369	-2065.0	4138.1	L: Interface	55	PJME-NYEnoRE								1353.8	1287.0	0.03234		0.00000	1299.2	1299.2	
			C:147834	NIAG	345	345	149000	ROCH	345	345	1	1226								
			Open	147834	NIAG	345	345	149000	ROCH	345	345	1				0.12869	0.25128	424.1	-94.8	
12370	-2065.0	4138.1	L: Interface	56	NYE-PJMEEnoRE								-1353.8	-1287.0	-0.03234		-0.00000	-1299.2	-1299.2	
			C:147834	NIAG	345	345	149000	ROCH	345	345	1	1226								
			Open	147834	NIAG	345	345	149000	ROCH	345	345	1					-0.12869	0.25128	424.1	-94.8
12373	-2037.9	4150.5	L: Interface	63	PJMW2C								401.5	0.0	0.19700		0.22890	347.9	-118.6	
			C:130763	HILSD230	230	200675	E.TWANDA	230	1	1375										
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1						0.46009	-0.06935	116.5	257.8	
12374	-2037.9	4150.5	L: Interface	62	C2PJMW								-401.5	-0.0	-0.19700		-0.22890	-347.9	118.6	
			C:130763	HILSD230	230	200675	E.TWANDA	230	1	1375										
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1							-0.46009	-0.06935	116.5	257.8
12375	-2029.7	4154.3	L: Interface	62	C2PJMW								-424.9	0.0	-0.20936		-0.22890	-347.9	116.7	
			C:SIN:130																1668	
			Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	1						-0.02189	-0.13896	786.1	1068.1
			Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	2						-0.02189	-0.13896	786.1	1068.1
			Open	126263	BUCHANAN	S	345	126290	LADENTWN	345	1						0.05813	0.23162	39.7	-430.5
			Open	126263	BUCHANAN	S	345	147832	IP3	345	345	1	NA							
			Open	147798	IP#3	GEN	22.0	147832	IP3	345	345	1	NA							
			Open	147798	IP#3	GEN	22.0	147832	IP3	345	345	2	NA							
			Remove unit	1	from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch								
12376	-2029.7	4154.3	L: Interface	63	PJMW2C								424.9	-0.0	0.20936		0.22890	347.9	-116.7	
			C:SIN:130																1668	
			Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	1						0.02189	-0.13896	786.1	1068.1
			Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	2						0.02189	-0.13896	786.1	1068.1
			Open	126263	BUCHANAN	S	345	126290	LADENTWN	345	1						-0.05813	0.23162	39.7	-430.5
			Open	126263	BUCHANAN	S	345	147832	IP3	345	345	1	NA							
			Open	147798	IP#3	GEN	22.0	147832	IP3	345	345	1	NA							
			Open	147798	IP#3	GEN	22.0	147832	IP3	345	345	2	NA							
			Remove unit	1	from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch								
12377	-2029.7	4154.3	L: Interface	62	C2PJMW								-424.9	0.0	-0.20936		-0.22890	-347.9	116.7	
			C:SIN:120																1667	
			Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	1						-0.02189	-0.13896	786.1	1068.1
			Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	2						-0.02189	-0.13896	786.1	1068.1
			Open	126263	BUCHANAN	S	345	126290	LADENTWN	345	1						0.05813	0.23162	39.7	-430.5
			Open	126263	BUCHANAN	S	345	147832	IP3	345	345	1	NA							

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			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA									
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA									
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch									
12378	-2029.7	4154.3	L: Interface	63	PJMW2C			424.9	-0.0	0.20936		0.22890	347.9	-116.7					
			C:SIN:120					1667											
			Open 126263 BUCHANAN S	345	126291	MILLWOOD		345	1		0.02189	-0.13896	786.1	1068.1					
			Open 126263 BUCHANAN S	345	126291	MILLWOOD		345	2		0.02189	-0.13896	786.1	1068.1					
			Open 126263 BUCHANAN S	345	126290	LADENTWN		345	1		-0.05813	0.23162	39.7	-430.5					
			Open 126263 BUCHANAN S	345	147832	IP3	345	345	1	NA									
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA									
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA									
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch									
12379	-2020.9	4158.3	*L: Interface	63	PJMW2C			461.9	-0.0	0.22857		0.22890	347.9	-114.7					
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392										
			Open 131128 LAPEER	345	136153	LAFAYTTE		345	1		-0.17506	0.00190	-651.5	-655.4					
12380	-2020.9	4158.3	*L: Interface	62	C2PJMW			-461.9	0.0	-0.22857		-0.22890	-347.9	114.7					
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392										
			Open 131128 LAPEER	345	136153	LAFAYTTE		345	1		0.17506	0.00190	-651.5	-655.4					
12409	-1854.0	4234.9	L: Interface	56	NYE-PJME	noRE		-1368.2	-1287.0	-0.04381		-0.00000	-1299.2	-1299.2					
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206										
			Open 130755 OAKDL345	345	130757	WATRC345		345	1		0.26030	-0.16830	-265.1	46.9					
12410	-1854.0	4234.9	L: Interface	55	PJME-NY	EnoRE		1368.2	1287.0	0.04381		0.00000	1299.2	1299.2					
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206										
			Open 130755 OAKDL345	345	130757	WATRC345		345	1		-0.26030	-0.16830	-265.1	46.9					
15888	-1255.1	4509.7	L: Interface	56	NYE-PJME	noRE		-1365.5	-1287.0	-0.06256		-0.00000	-1299.2	-1299.2					
			C:LKWANA-OXBW					1651											
			Open 417 OXBOW	230	3070	LACKAWNA		230	1		0.54566	-0.11465	-121.5	22.4					
15889	-1255.1	4509.7	L: Interface	55	PJME-NY	EnoRE		1365.5	1287.0	0.06256		0.00000	1299.2	1299.2					
			C:LKWANA-OXBW					1651											
			Open 417 OXBOW	230	3070	LACKAWNA		230	1		-0.54566	-0.11465	-121.5	22.4					
15894	-1061.1	4598.7	L: Interface	51	G-PJME	East		-46.2	0.0	-0.04353		-0.00000	-0.0	-0.0					
			C:LKWANA-OXBW					1651											
			Open 417 OXBOW	230	3070	LACKAWNA		230	1		0.37972	-0.11465	-121.5	0.1					
15895	-1061.1	4598.7	L: Interface	52	PJME	East-G		46.2	-0.0	0.04353		0.00000	0.0	0.0					
			C:LKWANA-OXBW					1651											
			Open 417 OXBOW	230	3070	LACKAWNA		230	1		-0.37972	-0.11465	-121.5	0.1					
15896	-444.0	4881.9	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2			-1835.6	-1725.0	-0.24917						
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1	121										
			Open 126294 PLTVLLEY	345	137455	ATHENS		345	1		0.44128	-0.16716	-1245.7	-1171.4					
15897	-298.8	4948.5	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1			-1797.4	-1725.0	-0.24242						
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	2	120										
			Open 126294 PLTVLLEY	345	137451	LEEDS 3		345	2		0.42909	-0.17540	-1285.9	-1233.5					
15898	256.9	5203.4	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2			-1285.9	-1331.0	-0.17540						
			Base Case																
15899	380.7	5260.3	L: Interface	14	Leeds-PV			2531.6	2662.0	0.34256									
			Base Case																
15900	427.3	5281.7	L: Interface	50	PJM	Central-C		-59.6	0.0	0.13957		0.12600	-196.7	-142.8					
			C:SER:HCWC/NWES					1607											

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				Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.22558	-0.10290	-544.6	-588.5
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.33367	-0.02889	42.6	30.2
15901	427.3	5281.7	L:	Interface 49 C-PJMCentral						59.6	-0.0	-0.13957		-0.12600	196.7	142.8
				C:SER:HCWC/NWES					1607							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.22558	-0.10290	-544.6	-588.5
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.33367	-0.02889	42.6	30.2
15904	427.4	5281.7	L:	Interface 49 C-PJMCentral						64.3	0.0	-0.15050		-0.12600	196.7	142.8
				C:SER:HC-WC_30&W-F_171					1601							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.23847	-0.10290	-544.6	-588.5
				Open 135277 FALCONER	115	200579	WARREN	115	1				0.06952	0.00061	-36.2	-35.9
15905	427.4	5281.7	L:	Interface 50 PJMCentral-C						-64.3	-0.0	0.15050		0.12600	-196.7	-142.8
				C:SER:HC-WC_30&W-F_171					1601							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.23847	-0.10290	-544.6	-588.5
				Open 135277 FALCONER	115	200579	WARREN	115	1				-0.06952	0.00061	-36.2	-35.9
15908	446.9	5290.7	L:	Interface 49 C-PJMCentral						67.2	0.0	-0.15046		-0.12600	196.7	140.4
				C:130757 WATRC345	345	200769	HOMER CY	345	1	1374						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.23770	-0.10290	-544.6	-590.5
15909	446.9	5290.7	L:	Interface 50 PJMCentral-C						-67.2	-0.0	0.15046		0.12600	-196.7	-140.4
				C:130757 WATRC345	345	200769	HOMER CY	345	1	1374						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.23770	-0.10290	-544.6	-590.5
15912	510.6	5319.9	L:	126294 PLTVLLEY	345	137455	ATHENS	345	1	-1245.7	-1331.0	-0.16716				
				Base Case												
15913	534.3	5330.8	L:	Interface 49 C-PJMCentral						68.1	0.0	-0.12742		-0.12600	196.7	129.4
				C:BUS:WATERCURE_345					1632							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.14494	-0.10290	-544.6	-599.5
				Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.20645	-0.06539	256.9	221.9
				Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.14892	0.00000	22.5	22.5
15914	534.3	5330.8	L:	Interface 50 PJMCentral-C						-68.1	-0.0	0.12742		0.12600	-196.7	-129.4
				C:BUS:WATERCURE_345					1632							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.14494	-0.10290	-544.6	-599.5
				Open 130757 WATRC345	345	130768	WATRC230	230	1				0.20645	-0.06539	256.9	221.9
				Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.14892	0.00000	22.5	22.5
15917	580.4	5351.9	L:	146758 CHESTER	138	146771	SHOEM138	138	1	-286.0	-317.0	-0.05337		-0.02889	-161.3	-178.1
				C:125001 ROCK TAV	345	126297	RAMAPO	345	1	7						
				Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.11201	0.21856	1113.2	1240.1
15918	580.4	5351.9	L:	146758 CHESTER	138	146771	SHOEM138	138	1	-286.0	-317.0	-0.05337		-0.02889	-161.3	-178.1
				C:SIN:440					1683							
				Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.11201	0.21856	1113.2	1240.1
15919	635.3	5377.1	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1582.9	-1725.0	-0.22361		-0.17540	-1285.9	-1397.4
				C:125000 HURLEY 3	345	137451	LEEDS 3	345	1	3						
				Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				0.32992	-0.14611	-900.2	-993.0
15920	775.9	5441.6	L:	Interface 14 Leeds-PV						3111.2	3450.0	0.43664		0.34256	2531.6	2797.4
				C:125000 HURLEY 3	345	137451	LEEDS 3	345	1	3						
				Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				-0.64389	-0.14611	-900.2	-1013.6
15921	840.9	5471.5	L:	Interface 50 PJMCentral-C						-106.0	-0.0	0.12600		0.12600	-196.7	-90.7
				C:GEN:9 MI PT2					1561							
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW dispatch									
15922	840.9	5471.5	L:	Interface 49 C-PJMCentral						106.0	0.0	-0.12600		-0.12600	196.7	90.7

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			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch						
15923	884.4	5491.4	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345 2	-1571.6	-1725.0	-0.17349		-0.17540	-1285.9 -1441.1
			C:SIN:430				1682						
			Open 125002 ROSETON	345	126281	FISHKILL	345 1					-0.18978	-0.01009 1505.0 1496.1
15924	884.4	5491.4	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345 2	-1571.6	-1725.0	-0.17349		-0.17540	-1285.9 -1441.1
			C:125002 ROSETON	345	126281	FISHKILL	345 1 10						
			Open 125002 ROSETON	345	126281	FISHKILL	345 1					-0.18978	-0.01009 1505.0 1496.1
15925	887.9	5493.0	L: Interface 50 PJMCentral-C					-112.1	-0.0	0.12622		0.12600	-196.7 -84.8
			C:HQ-NY-765-New				1776						
			Open 147827 MARCY765	765	147828	MASS 765	765 1					NA	
			Open 147828 MASS 765	765	180819	CHA-NY	765 1					NA	
			Open 147827 MARCY765	765	147833	MARCY T1	345 1					0.01632	0.00721 624.6 631.0
			Open 147827 MARCY765	765	147833	MARCY T1	345 2					0.01632	0.00627 543.5 549.1
			Open 156 MCY765SW	0.0	147827	MARCY765	765 1					NA	
			Open 147838 MASS230B	230	147839	MOSES E	230 1					-0.00000	-0.00674 10.4 4.5
			Open 147828 MASS 765	765	147838	MASS230B	230 1					NA	
			Open 147837 MASS230A	230	147839	MOSES E	230 1					-0.05989	0.00000 18.8 18.8
			Open 147828 MASS 765	765	147837	MASS230A	230 1					NA	
			Open 158 MS765SW2	0.0	147828	MASS 765	765 1					NA	
			Open 157 MS765SW1	0.0	147828	MASS 765	765 1					NA	
			Decrease bus 180001 BEA-DLX	13.8		generation by	100.0					percent	dispatch
			Set bus 181319 CHAT G3	120		load to	357.0					MW	dispatch
			Decrease bus 180002 BEA-DL	13.8		generation by	100.0					percent	dispatch
			Set bus 181419 CHAT G4	120		load to	357.0					MW	dispatch
15926	887.9	5493.0	L: Interface 49 C-PJMCentral					112.1	0.0	-0.12622		-0.12600	196.7 84.8
			C:HQ-NY-765-New				1776						
			Open 147827 MARCY765	765	147828	MASS 765	765 1					NA	
			Open 147828 MASS 765	765	180819	CHA-NY	765 1					NA	
			Open 147827 MARCY765	765	147833	MARCY T1	345 1					-0.01632	0.00721 624.6 631.0
			Open 147827 MARCY765	765	147833	MARCY T1	345 2					-0.01632	0.00627 543.5 549.1
			Open 156 MCY765SW	0.0	147827	MARCY765	765 1					NA	
			Open 147838 MASS230B	230	147839	MOSES E	230 1					0.00000	-0.00674 10.4 4.5
			Open 147828 MASS 765	765	147838	MASS230B	230 1					NA	
			Open 147837 MASS230A	230	147839	MOSES E	230 1					0.05989	0.00000 18.8 18.8
			Open 147828 MASS 765	765	147837	MASS230A	230 1					NA	
			Open 158 MS765SW2	0.0	147828	MASS 765	765 1					NA	
			Open 157 MS765SW1	0.0	147828	MASS 765	765 1					NA	
			Decrease bus 180001 BEA-DLX	13.8		generation by	100.0					percent	dispatch
			Set bus 181319 CHAT G3	120		load to	357.0					MW	dispatch
			Decrease bus 180002 BEA-DL	13.8		generation by	100.0					percent	dispatch
			Set bus 181419 CHAT G4	120		load to	357.0					MW	dispatch
15927	923.4	5509.3	L: 126294 PLTVLLEY	345	137455	ATHENS	345 1	-1528.3	-1725.0	-0.21303		-0.16716	-1245.7 -1400.0
			C:125000 HURLEY 3	345	137451	LEEDS 3	345 1 3						
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345 1					0.31396	-0.14611 -900.2 -1035.1
15928	1003.6	5546.1	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345 2	-1479.2	-1725.0	-0.24494		-0.17540	-1285.9 -1462.0
			C:137451 LEEDS 3	345	137455	ATHENS	345 1 1006						
			Open 137451 LEEDS 3	345	137455	ATHENS	345 1					-0.44128	0.15758 437.9 596.0

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15929	1018.8	5553.1	L: 130750 COOPC345	345	130753 FRASR345	345	1	-994.4	-1207.0	-0.20870				
			Base Case											
15930	1021.9	5554.5	L: Interface 49 C-PJMCentral					128.8	0.0	-0.12600	-0.12600	196.7	67.9	
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351						
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1				-0.06787	0.00000	1000.8	1000.8
15931	1021.9	5554.5	L: Interface 50 PJMCentral-C					-128.8	-0.0	0.12600	0.12600	-196.7	-67.9	
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351						
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1				0.06787	0.00000	1000.8	1000.8
15932	1021.9	5554.5	L: Interface 49 C-PJMCentral					128.8	-0.0	-0.12600	-0.12600	196.7	67.9	
			C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78						
			Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1				-0.06787	0.00000	1000.8	1000.8
15933	1021.9	5554.5	L: Interface 50 PJMCentral-C					-128.8	0.0	0.12600	0.12600	-196.7	-67.9	
			C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78						
			Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1				0.06787	0.00000	1000.8	1000.8
15934	1065.4	5574.4	L: Interface 14 Leeds-PV					3089.0	3450.0	0.33882	0.34256	2531.6	2896.6	
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.37038	-0.01009	1505.0	1494.3
15935	1065.4	5574.4	L: Interface 14 Leeds-PV					3089.0	3450.0	0.33882	0.34256	2531.6	2896.6	
			C:SIN:430					1682						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.37038	-0.01009	1505.0	1494.3
15936	1083.1	5582.6	L: Interface 49 C-PJMCentral					136.3	0.0	-0.12583	-0.12600	196.7	60.2	
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				0.09272	0.00190	-651.5	-649.5
15937	1083.1	5582.6	L: Interface 50 PJMCentral-C					-136.3	-0.0	0.12583	0.12600	-196.7	-60.2	
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				-0.09272	0.00190	-651.5	-649.5
15938	1083.9	5582.9	*L: Interface 50 PJMCentral-C					-151.9	-0.0	0.14012	0.12600	-196.7	-60.1	
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				-0.18761	-0.07523	-238.9	-320.4
15939	1083.9	5582.9	*L: Interface 49 C-PJMCentral					151.9	0.0	-0.14012	-0.12600	196.7	60.1	
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				0.18761	-0.07523	-238.9	-320.4
15948	1147.9	5612.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1479.6	-1725.0	-0.21381	-0.17540	-1285.9	-1487.3	
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.29333	0.13095	660.0	810.3
15959	1237.1	5653.2	*L: Interface 56 NYE-PJMENoRE					-1242.0	-1287.0	-0.03636	-0.00000	-1299.2	-1299.2	
			C:ETHS/LLGD					1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.35119	-0.06935	116.5	30.7
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1				0.43251	-0.02776	37.6	3.3
15960	1237.1	5653.2	*L: Interface 55 PJME-NYEnoRE					1242.0	1287.0	0.03636	0.00000	1299.2	1299.2	
			C:ETHS/LLGD					1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				-0.35119	-0.06935	116.5	30.7
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1				-0.43251	-0.02776	37.6	3.3
15961	1238.9	5654.1	L: 146758 CHESTER	138	146773 SGRLF138	138	1	250.9	317.0	0.05337	0.02889	126.2	162.0	
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.11201	0.21856	1113.2	1384.0
15962	1238.9	5654.1	L: 146758 CHESTER	138	146773 SGRLF138	138	1	250.9	317.0	0.05337	0.02889	126.2	162.0	
			C:SIN:440					1683						

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			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.11201	0.21856	1113.2	1384.0
15965	1255.3	5661.6	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1517.5	-1725.0	-0.16534		-0.16716	-1245.7	-1455.5
			C:SIN:430											1682
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.18060	-0.01009	1505.0	1492.4
15966	1255.3	5661.6	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1517.5	-1725.0	-0.16534		-0.16716	-1245.7	-1455.5
			C:125002 ROSETON	345	126281 FISHKILL	345	1							10
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.18060	-0.01009	1505.0	1492.4
15977	1267.8	5667.3	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-606.4	-707.0	-0.07935		-0.04818	-447.6	-508.7
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1							7
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.14262	0.21856	1113.2	1390.3
15978	1267.8	5667.3	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-606.4	-707.0	-0.07935		-0.04818	-447.6	-508.7
			C:SIN:440											1683
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.14262	0.21856	1113.2	1390.3
15985	1294.6	5679.6	L: Interface 14 Leeds-PV					2909.4	3450.0	0.41753		0.34256	2531.6	2975.1
			C:125000 HURLEY 3	345	125002 ROSETON	345	1							1
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				0.57248	0.13095	660.0	829.6
16006	1404.2	5729.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1434.8	-1725.0	-0.20665		-0.17540	-1285.9	-1532.2
			C:130750 COOPC345	345	130753 FRASR345	345	1							192
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.14972	-0.20870	-994.4	-1287.4
16015	1428.6	5741.1	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1353.4	-1724.0	-0.25939		-0.16607	-866.4	-1103.7
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2							1005
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.56508	-0.16513	-861.9	-1097.8
16016	1435.7	5744.4	L: 130794 DELHI115	115	130804 DEL T115	115	1	68.8	164.0	0.06634		0.03582	0.7	52.1
			C:130753 FRASR345	345	130755 OAKDL345	345	1							200
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				-0.11754	-0.25963	-579.0	-951.8
16021	1443.6	5748.0	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1350.4	-1724.0	-0.25877		-0.16513	-861.9	-1100.3
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1							1004
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				0.56388	-0.16607	-866.4	-1106.2
16024	1448.6	5750.3	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1429.9	-1725.0	-0.20371		-0.16716	-1245.7	-1487.8
			C:125000 HURLEY 3	345	125002 ROSETON	345	1							1
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.27915	0.13095	660.0	849.7
16043	1473.4	5761.7	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1314.7	-1703.0	-0.26356		-0.20870	-994.4	-1301.9
			C:130750 COOPC345	345	147833 MARCY T1	345	1							196
			Open 130750 COOPC345	345	147833 MARCY T1	345	1				0.43391	-0.12643	-738.2	-924.4
16266	1548.1	5795.9	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-237.1	-317.0	-0.05161		-0.02889	-161.3	-206.1
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1							9
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.17871	-0.12715	-424.0	-620.8
16409	1554.9	5799.0	L: Interface 52 PJMEast-G					-75.8	-0.0	0.04878		0.00000	0.0	0.0
			C:ETHS/NWES/LLGD											1648
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				-0.37577	-0.06935	116.5	8.7
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.38745	-0.02889	42.6	-2.4
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1				-0.41520	-0.02776	37.6	-5.5
16410	1554.9	5799.0	L: Interface 51 G-PJMEast					75.8	0.0	-0.04878		-0.00000	-0.0	-0.0
			C:ETHS/NWES/LLGD											1648
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.37577	-0.06935	116.5	8.7
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.38745	-0.02889	42.6	-2.4
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1				0.41520	-0.02776	37.6	-5.5
16431	1555.8	5799.5	L: Interface 14 Leeds-PV					2822.1	3450.0	0.40354		0.34256	2531.6	3064.6

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				C:130750 COOPC345	345	130753 FRASR345	345	1	192										
				Open 130750 COOPC345	345	130753 FRASR345	345	1											
19206	1580.8	5810.9	L:	Interface	52	PJMEast-G													
				C:SER:C398/NWES					1605										
				Open 409 GROVER	230	200675 E.TWANDA	230	1											
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1											
				Open 381 TOWANDA	115	200675 E.TWANDA	230	1											
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1											
19207	1580.8	5810.9	L:	Interface	51	G-PJMEast													
				C:SER:C398/NWES					1605										
				Open 409 GROVER	230	200675 E.TWANDA	230	1											
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1											
				Open 381 TOWANDA	115	200675 E.TWANDA	230	1											
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1											
19264	1586.3	5813.5	L:	130817 JENN 115	115	130819 KATEL115	115	1											
				C:130753 FRASR345	345	130755 OAKDL345	345	1	200										
				Open 130753 FRASR345	345	130755 OAKDL345	345	1											
19313	1602.0	5820.7	L:	130750 COOPC345	345	146754 MDTN TAP	345	1		1347.9	1793.0	0.27784		0.17533	872.3	1153.2			
				C:125001 ROCK TAV	345	130750 COOPC345	345	2	8										
				Open 125001 ROCK TAV	345	130750 COOPC345	345	2											
19328	1617.4	5827.7	L:	Interface	52	PJMEast-G													
				C:SER:ETHS/NWES					1606										
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1											
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1											
19329	1617.4	5827.7	L:	Interface	51	G-PJMEast													
				C:SER:ETHS/NWES					1606										
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1											
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1											
19386	1676.7	5854.9	L:	Interface	32	F-To-G				3723.2	4643.0	0.54861							
				Base Case															
19431	1715.0	5872.5	L:	126294 PLTVLLEY	345	137455 ATHENS	345	1											
				C:130750 COOPC345	345	130753 FRASR345	345	1	192										
				Open 130750 COOPC345	345	130753 FRASR345	345	1											
19434	1759.3	5892.8	L:	146754 MDTN TAP	345	146772 SHOEMTAP	138	1		606.4	746.0	0.07935		0.04818	447.6	532.4			
				C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1											
19435	1759.3	5892.8	L:	146754 MDTN TAP	345	146772 SHOEMTAP	138	1		606.4	746.0	0.07935		0.04818	447.6	532.4			
				C:SIN:440					1683										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1											
19468	1853.8	5936.2	L:	130750 COOPC345	345	147833 MARCY T1	345	1											
				C:130750 COOPC345	345	130753 FRASR345	345	1	192										
				Open 130750 COOPC345	345	130753 FRASR345	345	1											
19471	1863.8	5940.8	L:	125001 ROCK TAV	345	130750 COOPC345	345	2											
				C:130750 COOPC345	345	146754 MDTN TAP	345	1	195										
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1											
19474	1912.3	5963.0	L:	130817 JENN 115	115	130851 SIDNT115	115	1		54.0	120.0	0.03450		0.01919	19.9	56.6			
				C:130753 FRASR345	345	130755 OAKDL345	345	1	200										
				Open 130753 FRASR345	345	130755 OAKDL345	345	1											

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19475	1917.0	5965.2	L: 131018 LOUNSL15	115	131850 CNYOG115	115	1	47.1	143.0	0.05000	0.03212	19.0	80.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.10628	-0.16830	-265.1 -587.8
19476	1923.3	5968.1	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.6	173.0	0.03817	0.02564	78.4	127.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04986	0.25128	424.1 907.4
19479	1942.8	5977.0	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1358.0	-1725.0	-0.18892	-0.17540	-1285.9	-1626.7
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.09363	0.17533	872.3 1212.9
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				-0.02277	-0.12715	-424.0 -671.0
19480	1954.4	5982.4	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1358.1	-1725.0	-0.18775	-0.17540	-1285.9	-1628.8
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1				0.09769	-0.12643	-738.2 -985.2
19481	1956.0	5983.1	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-45.2	-143.0	-0.05000	-0.03212	-17.0	-79.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.10628	-0.16830	-265.1 -594.3
19484	1995.9	6001.4	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1259.6	-1793.0	-0.26725	-0.15979	-741.5	-1060.4
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.55569	0.17533	872.3 1222.2
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.07884	-0.12715	-424.0 -677.7
19485	1997.3	6002.0	*L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1349.3	-1725.0	-0.18813	-0.17540	-1285.9	-1636.3
			C:130750 COOPC345	345	146754 MDTN TAP	345	1 195						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.07257	0.17533	872.3 1222.5
19486	2001.2	6003.8	L: Interface 23 QFW					889.8	0.0	-0.44465	-0.44147	1092.7	209.3
			C:GEN:KINTIGH-New				1775						
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	1				0.00000	-0.00452	-288.5 -297.5
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	2				0.35120	-0.00906	-577.8 -595.9
19487	2028.3	6016.2	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.3	159.0	0.03240	0.02171	75.3	119.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04252	0.25128	424.1 933.7
19488	2045.1	6024.0	L: 130757 WATRC345	345	200769 HOMER CY	345	1	-544.6	-755.0	-0.10290			
			Base Case										
19489	2045.1	6024.0	L: Interface 47 C-PJMWest					-544.6	-755.0	-0.10290			
			Base Case										
19490	2045.1	6024.0	L: Interface 60 C2PJMC					-544.6	-755.0	-0.10290			
			Base Case										
19491	2045.1	6024.0	L: Interface 61 PJMC2C					544.6	755.0	0.10290			
			Base Case										
19492	2045.1	6024.0	L: Interface 48 PJMWest-C					544.6	755.0	0.10290			
			Base Case										
19495	2056.0	6029.0	L: Interface 23 QFW					907.7	-0.0	-0.44147	-0.44147	1092.7	185.1
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW								
19497	2059.1	6030.4	L: Interface 23 QFW					916.0	0.0	-0.44486	-0.44147	1092.7	183.7
			C:HQ-NY-765-New				1776						
			Open 147827 MARCY765	765	147828 MASS 765	765	1						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.25133	0.00721	624.6 639.4

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			Open 147827 MARCY765	765	147833	MARCY T1	345	2				-0.25133	0.00627	543.5	556.4		
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA								
			Open 147838 MASS230B	230	147839	MOSES E	230	1				-0.00000	-0.00674	10.4	-3.4		
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA								
			Open 147837 MASS230A	230	147839	MOSES E	230	1				-0.09612	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA								
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA								
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA								
			Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch								
			Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch								
			Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch								
			Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch								
19506	2091.9	6045.4	L: 130819 KATEL115	115	130838	OAKDL115	115	1				-124.5	-192.0	-0.03226	-0.01601	-88.3	-121.8
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200								
			Open 130753 FRASR345	345	130755	OAKDL345	345	1				0.06259	-0.25963	-579.0	-1122.1		
19508	2108.3	6053.0	L: Interface 14 Leeds-PV									2672.1	3450.0	0.36895	0.34256	2531.6	3253.8
			C:SER:CMT34&MTR34						1593								
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				0.18273	0.17533	872.3	1241.9		
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				0.04444	-0.12715	-424.0	-692.0		
19509	2110.8	6054.1	L: 146771 SHOEMI38	138	146772	SHOEMTAP	138	1				-544.2	-707.0	-0.07714	-0.04818	-447.6	-549.3
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	9								
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				0.22773	-0.12715	-424.0	-692.4		
19512	2120.9	6058.8	L: Interface 14 Leeds-PV									2672.3	3450.0	0.36666	0.34256	2531.6	3258.1
			C:130750 COOPC345	345	147833	MARCY T1	345	1	196								
			Open 130750 COOPC345	345	147833	MARCY T1	345	1				-0.19065	-0.12643	-738.2	-1006.3		
19513	2124.3	6060.3	L: Interface 23 QFW									937.8	-0.0	-0.44147	-0.44147	1092.7	154.9
			C:GEN:GINNA						1562								
			Remove unit 1 from bus 149140 GINNA	19	19.0	605.0	MW	dispatch									
19514	2129.3	6062.6	L: 135872 SOUR-111	115	135873	SWDN-111	115	1				90.0	159.0	0.03240	0.02171	72.0	118.2
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226								
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04252	0.25128	424.1	959.1		
19516	2144.1	6069.4	L: 130753 FRASR345	345	130755	OAKDL345	345	1				-773.6	-1380.0	-0.28282	-0.25963	-579.0	-1135.7
			C:130753 FRASR345	345	137200	EDIC	345	1	202								
			Open 130753 FRASR345	345	137200	EDIC	345	1				0.27558	-0.08414	-706.1	-886.5		
19519	2163.5	6078.3	L: Interface 14 Leeds-PV									2655.1	3450.0	0.36740	0.34256	2531.6	3272.7
			C:130750 COOPC345	345	146754	MDTN TAP	345	1	195								
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				0.14164	0.17533	872.3	1251.6		
19520	2165.3	6079.1	L: 137451 LEEDS 3	345	137453	N.SCOT99	345	2				-1218.4	-1724.0	-0.23349	-0.16513	-861.9	-1219.4
			C:BUS:N.S._77						1614								
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				0.60779	-0.03758	-247.8	-329.2		
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1				0.40443	-0.00362	111.6	103.7		
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.33531	0.15681	821.7	1161.2		
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1				-0.26699	-0.03193	-91.5	-160.6		
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1				0.20560	0.00000	-0.0	-0.0		
19522	2182.9	6087.2	L: Interface 23 QFW									963.7	-0.0	-0.44147	-0.44147	1092.7	129.0
			C:GEN:SEAB&OMS						1575								
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00003	0.00000	-0.1	-0.1		
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch										

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19523	2182.9	6087.2	L: Interface	23	QFW				963.7	-0.0	-0.44147		-0.44147	1092.7	129.0
			C:GEN:SEABROOK			1573									
			Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch					
19524	2190.3	6090.6	L: Interface	23	QFW				967.0	0.0	-0.44147		-0.44147	1092.7	125.8
			C:SIN:250			1677									
			Open 100508	SANDB115	115	100509 SB RCTOR	115	2			0.00003	0.00000		-0.1	-0.1
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
19525	2192.7	6091.7	L: Interface	23	QFW				968.0	0.0	-0.44147		-0.44147	1092.7	124.7
			C:GEN:MLS3&OMS			1574									
			Open 100508	SANDB115	115	100509 SB RCTOR	115	2			0.00003	0.00000		-0.1	-0.1
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
19526	2192.7	6091.7	L: Interface	23	QFW				968.0	0.0	-0.44147		-0.44147	1092.7	124.7
			C:GEN:MILLST 3			1572									
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
19527	2213.9	6101.4	L: 135859	LAPPINS1	115	135866 NLEROYTA	115	1	100.2	173.0	0.03288		0.02564	78.4	135.2
			C:130754	KINTI345	345	149000 ROCH 345	345	1	205						
			Open 130754	KINTI345	345	149000 ROCH 345	345	1			0.04136	0.17512	525.9	913.6	
19528	2214.4	6101.7	L: Interface	14	Leeds-PV				2634.9	3450.0	0.36808		0.34256	2531.6	3290.2
			C:SER:PV_LM_398			1597									
			Open 103105	LONG MTN	345	103117 CTNY398	345	1			0.33667	0.07581	307.0	474.9	
			Open 103117	CTNY398	345	126294 PLTVLLEY	345	1			-0.23697	0.00000	0.2	0.2	
19529	2214.5	6101.7	*L: Interface	14	Leeds-PV				2634.9	3450.0	0.36808		0.34256	2531.6	3290.2
			C:103117	CTNY398	345	126294 PLTVLLEY	345	1	1362						
			Open 103117	CTNY398	345	126294 PLTVLLEY	345	1			0.33667	0.07581	306.8	474.7	
19530	2216.1	6102.4	*L: Interface	23	QFW				969.3	0.0	-0.43741		-0.44147	1092.7	114.4
			C:SER:HC-SR_37&W-F_171			1600									
			Open 135398	SW345	345	200769 HOMER CY	345	1			0.30256	0.01293	-379.0	-350.4	
			Open 135277	FALCONER	115	200579 WARREN	115	1			0.24130	0.00061	-36.2	-34.8	
19532	2229.1	6108.4	L: 146758	CHESTER	138	146773 SGRLF138	138	1	202.0	317.0	0.05161		0.02889	126.2	190.6
			C:125001	ROCK TAV	345	146754 MDTN TAP	345	1	9						
			Open 125001	ROCK TAV	345	146754 MDTN TAP	345	1			-0.17871	-0.12715	-424.0	-707.4	
19543	2265.6	6125.2	L: 130750	COOPC345	345	130753 FRASR345	345	1	-1081.5	-1703.0	-0.27431		-0.20870	-994.4	-1467.2
			C:130753	FRASR345	345	147831 GILB 345	345	1	203						
			Open 130753	FRASR345	345	147831 GILB 345	345	1			-0.39382	0.16660	221.3	598.7	
19544	2282.0	6132.7	L: 126294	PLTVLLEY	345	137455 ATHENS	345	1	-1314.2	-1725.0	-0.18003		-0.16716	-1245.7	-1627.1
			C:SER:CMT34&MTR34			1593									
			Open 130750	COOPC345	345	146754 MDTN TAP	345	1			-0.08910	0.17533	872.3	1272.4	
			Open 125001	ROCK TAV	345	146754 MDTN TAP	345	1			-0.02167	-0.12715	-424.0	-714.1	
19546	2289.3	6136.0	L: 135862	MUMFORD1	115	135866 NLEROYTA	115	1	-84.1	-173.0	-0.03882		-0.02607	-62.6	-122.3
			C:147834	NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834	NIAG 345	345	149000 ROCH 345	345	1			-0.05070	0.25128	424.1	999.4	
19547	2295.7	6139.0	L: 126294	PLTVLLEY	345	137455 ATHENS	345	1	-1314.3	-1725.0	-0.17891		-0.16716	-1245.7	-1629.4
			C:130750	COOPC345	345	147833 MARCY T1	345	1	196						
			Open 130750	COOPC345	345	147833 MARCY T1	345	1			0.09296	-0.12643	-738.2	-1028.4	
19560	2337.9	6158.3	L: 126294	PLTVLLEY	345	137455 ATHENS	345	1	-1305.9	-1725.0	-0.17927		-0.16716	-1245.7	-1636.4
			C:130750	COOPC345	345	146754 MDTN TAP	345	1	195						
			Open 130750	COOPC345	345	146754 MDTN TAP	345	1			-0.06906	0.17533	872.3	1282.2	
19566	2348.8	6163.3	L: 135452	LOCKPORT	115	135876 TELRDTP1	115	1	104.3	180.0	0.03222		0.02159	86.4	137.1

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			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.04231	0.25128	424.1	1014.3				
19584	2373.8	6174.8	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1		447.6	562.0	0.04818								
			Base Case																
19586	2376.3	6175.9	L: 130757 WATRC345	345	130768 WATRC230	230	1		455.6	600.0	0.06076		-0.06539	256.9	101.5				
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206											
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					-0.74956	-0.16830	-265.1	-665.1				
19601	2388.4	6181.5	*L: 126294 PLTVLLEY	345	137455 ATHENS	345	1		-1296.0	-1725.0	-0.17960		-0.16716	-1245.7	-1644.9				
			C:SER:PV_LM_398					1597											
			Open 103105 LONG MTN	345	103117 CTNY398	345	1					-0.16417	0.07581	307.0	488.1				
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1					0.11555	0.00000	0.2	0.2				
19610	2395.5	6184.7	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1145.2	-1703.0	-0.23287		-0.20870	-994.4	-1494.3				
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1007											
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1					0.16344	-0.14789	-922.6	-1276.9				
19641	2424.5	6198.0	L: 135850 SOUR-114	115	135861 MORTIMER	115	1		71.2	153.0	0.03372		0.02260	52.5	107.3				
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.04425	0.25128	424.1	1033.3				
19673	2445.2	6207.6	L: Interface 59 MarcySouthS						1732.5	2552.0	0.33512								
			Base Case																
19676	2446.0	6207.9	L: 130836 N.WAV115	115	131018 LOUNSN115	115	1		50.7	173.0	0.05000		0.03212	22.5	101.1				
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206											
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					-0.10628	-0.16830	-265.1	-676.8				
19702	2455.6	6212.3	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1		-1189.2	-1724.0	-0.21781		-0.16607	-866.4	-1274.2				
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1007											
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1					0.34981	-0.14789	-922.6	-1285.8				
20026	2475.0	6221.2	L: 130794 DELHI115	115	130851 SIDNT115	115	1		-36.0	-120.0	-0.03394		-0.01875	-2.1	-48.5				
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200											
			Open 130753 FRASR345	345	130755 OAKDL345	345	1					0.05853	-0.25963	-579.0	-1221.6				
21277	2485.3	6226.0	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1		98.5	180.0	0.03278		0.02197	80.3	134.9				
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.04302	0.25128	424.1	1048.6				
21293	2486.6	6226.5	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-1184.7	-1724.0	-0.21688		-0.16513	-861.9	-1272.5				
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1007											
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1					0.34992	-0.14789	-922.6	-1290.4				
21515	2498.7	6232.1	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1		-1233.2	-1792.0	-0.22363		-0.16824	-919.1	-1339.5				
			C:SIN:160					1670											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.35322	0.15681	821.7	1213.5				
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					-0.19918	0.00000	119.9	119.9				
			Open 137235 PORTER 1	115	137246 VALLEY	115	1					-0.00023	-0.00030	74.8	74.1				
21516	2498.7	6232.1	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1		-1233.2	-1792.0	-0.22363		-0.16824	-919.1	-1339.5				
			C:SIN:150					1669											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.35322	0.15681	821.7	1213.5				
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					-0.19919	0.00000	119.9	119.9				
			Open 137235 PORTER 1	115	147905 ILION	115	1					-0.00016	-0.00019	88.8	88.3				
22848	2511.2	6237.9	L: 130815 HINMN115	115	135452 LOCKPORT	115	1		192.3	280.0	0.03494		0.02235	171.0	227.1				
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.05011	0.25128	424.1	1055.1				
22976	2540.1	6251.1	L: 130764 MEYER230	230	131122 WTHRS230	230	1		-238.9	-430.0	-0.07523								

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Base Case													
23000	2555.4	6258.1	L: 130815 HINMN115	115	131611 HARS115	115	1	-219.2	-306.0	-0.03398	-0.02175	-198.5	-254.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04868	0.25128	424.1	1066.2
23065	2603.6	6280.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-579.0	-1255.0	-0.25963			
Base Case													
23074	2616.4	6286.1	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	544.2	746.0	0.07714	0.04818	447.6	573.7
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1 9						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.22773	-0.12715	-424.0	-756.6
23102	2638.9	6296.4	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-84.8	-173.0	-0.03344	-0.02607	-62.6	-131.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04206	0.17512	525.9	988.0
23104	2643.1	6298.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-658.0	-1380.0	-0.27316	-0.25963	-579.0	-1265.3
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.10700	-0.12643	-738.2	-1072.3
23111	2646.3	6299.8	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1203.3	-1792.0	-0.22248	-0.16824	-919.1	-1364.3
			C:137200 EDIC	345	137452 N.SCOT77	345	1 946						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.34585	0.15681	821.7	1236.6
23180	2668.8	6310.1	*L: Interface 51 G-PJMEast					-181.0	-0.0	0.06781	-0.00000	-0.0	-0.0
			C:SIN:120				1667						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.25820	-0.13896	786.1	415.2
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.25820	-0.13896	786.1	415.2
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.60260	0.23162	39.7	657.8
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA			
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1072.8 MW	dispatch						
23182	2668.8	6310.1	*L: Interface 52 PJMEast-G					181.0	0.0	-0.06781	0.00000	0.0	0.0
			C:SIN:120				1667						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			-0.25820	-0.13896	786.1	415.2
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			-0.25820	-0.13896	786.1	415.2
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			-0.60260	0.23162	39.7	657.8
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA			
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1072.8 MW	dispatch						
23318	2676.9	6313.9	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	229.0	430.0	0.07510			
Base Case													
23528	2680.2	6315.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-651.4	-1380.0	-0.27186	-0.25963	-579.0	-1274.9
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.16824	-919.1	-1370.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04702	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00061	-0.00019	88.8	88.3
23533	2680.2	6315.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-651.4	-1380.0	-0.27186	-0.25963	-579.0	-1274.9
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.16824	-919.1	-1370.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04710	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00092	-0.00030	74.8	74.1

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23584	2680.6	6315.6	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-302.4	-540.0	-0.08864	-0.07523	-238.9	-440.6
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.11957	-0.10290	-544.6	-820.4
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.03821	-0.02889	42.6	-34.9
24293	2681.4	6316.0	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1152.4	1724.0	0.21316	0.15681	821.7	1242.2
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33494	-0.16824	-919.1	-1370.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19090	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00024	-0.00030	74.8	74.1
24300	2681.5	6316.0	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1152.4	1724.0	0.21316	0.15681	821.7	1242.2
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33494	-0.16824	-919.1	-1370.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19092	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00016	-0.00019	88.8	88.3
24668	2695.3	6322.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-680.2	-1380.0	-0.25963	-0.25963	-579.0	-1278.8
			C:SIN:250				1677						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00002	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
24709	2708.8	6328.5	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-303.3	-540.0	-0.08740	-0.07523	-238.9	-442.7
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.11819	-0.10290	-544.6	-823.3
24713	2709.5	6328.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-644.2	-1380.0	-0.27156	-0.25963	-579.0	-1282.5
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012					
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07091	-0.16824	-919.1	-1374.9
24727	2715.3	6331.5	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1092.9	-1703.0	-0.22469	-0.20870	-994.4	-1561.1
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3					
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1			0.10944	-0.14611	-900.2	-1296.9
24741	2725.9	6336.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-642.2	-1380.0	-0.27065	-0.25963	-579.0	-1286.8
			C:SIN:150				1669						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.07027	0.15681	821.7	1249.1
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04606	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00061	-0.00019	88.8	88.3
24742	2726.0	6336.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-642.2	-1380.0	-0.27065	-0.25963	-579.0	-1286.8
			C:SIN:160				1670						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.07027	0.15681	821.7	1249.1
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04614	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00092	-0.00030	74.8	74.0
24750	2729.8	6338.1	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1095.6	-1703.0	-0.22251	-0.20870	-994.4	-1564.1
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	120					
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			0.07872	-0.17540	-1285.9	-1764.8
24756	2733.7	6339.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-670.2	-1380.0	-0.25963	-0.25963	-579.0	-1288.8
			C:GEN:SEAB&OMS				1575						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00002	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
24757	2733.7	6339.9	*L: 130753 FRASR345	345	130755 OAKDL345	345	1	-670.2	-1380.0	-0.25963	-0.25963	-579.0	-1288.8
			C:GEN:SEABROOK				1573						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
24758	2735.1	6340.6	L: 130764 MEYER230	230	131122 WTHRS230	230	1	-301.0	-540.0	-0.08737	-0.07523	-238.9	-444.7

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			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.18211	-0.06539	256.9	73.3	
			Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.12849	0.00000	0.5	0.5	
24853	2809.8	6374.8	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1	-85.2	-180.0	-0.03373	-0.02261	-66.5	-130.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.04426	0.25128	424.1	1130.1	
24857	2810.8	6375.3	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1081.0	-1703.0	-0.22129	-0.20870	-994.4	-1581.0
			C:BUS:N.S._99					1615					
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1		0.12460	-0.03075	-310.6	-397.1	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.04425	-0.16824	-919.1	-1392.0	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		-0.00286	-0.00371	118.5	108.0	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.00800	-0.16513	-861.9	-1326.0	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.01512	0.00000	1.6	1.6	
24868	2818.8	6379.0	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-63.6	-173.0	-0.03882	-0.02607	-42.1	-115.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.05070	0.25128	424.1	1132.4	
24871	2819.9	6379.5	L: 130767 STOLE230	230	130770 SHLDN230	230	1	218.6	430.0	0.07496			
			Base Case										
24876	2826.9	6382.7	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	293.3	540.0	0.08726	0.07510	229.0	441.3
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.11819	-0.10290	-544.6	-835.5	
24888	2835.4	6386.6	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1123.0	1724.0	0.21197	0.15681	821.7	1266.3
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012					
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.32783	-0.16824	-919.1	-1396.1	
24895	2836.2	6387.0	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	706.0	1685.0	0.34517	0.25128	424.1	1136.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1		0.53612	0.17512	525.9	1022.6	
24901	2841.0	6389.2	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-861.9	-1331.0	-0.16513			
			Base Case										
24939	2851.2	6393.8	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-447.6	-585.0	-0.04818			
			Base Case										
24951	2853.2	6394.8	L: 130770 SHLDN230	230	131122 WTHRS230	230	1	291.1	540.0	0.08724	0.07510	229.0	443.2
			C:SER:HC-WC_30&W-F_171					1601					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.11761	-0.10290	-544.6	-838.2	
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.05270	0.00061	-36.2	-34.4	
24953	2853.5	6394.9	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1323.4	-1912.0	-0.20629	-0.14789	-922.6	-1344.6
			C:BUS:N.S._99					1615					
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1		0.62614	-0.03075	-310.6	-398.4	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.16123	-0.16824	-919.1	-1399.2	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		0.03268	-0.00371	118.5	107.9	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.07201	-0.16513	-861.9	-1333.1	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.10437	0.00000	1.6	1.6	
25450	2867.5	6401.3	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-54.7	-153.0	-0.03429	-0.02298	-35.6	-101.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.04500	0.25128	424.1	1144.6	
26470	2891.2	6412.2	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1061.2	-1703.0	-0.22197	-0.20870	-994.4	-1597.8
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1					
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1		-0.10131	0.13095	660.0	1038.6	
26476	2892.0	6412.6	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	47.8	143.0	0.03291	0.03212	19.0	111.8

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				C:130755 OAKDL345	345	131128 LAPEER	345	1	209										
				Open 130755 OAKDL345	345	131128 LAPEER	345	1											
26482	2893.5	6413.2	L:	131018 LOUNSL115	115	131850 CNYOG115	115	1		29.7	143.0	0.03916							
				C:130768 WATRC230	230	130772 SHRED230	230	1	227										
				Open 130768 WATRC230	230	130772 SHRED230	230	1											
26492	2896.9	6414.8	L:	131018 LOUNSL115	115	131850 CNYOG115	115	1		19.0	112.0	0.03212							
				Base Case															
26493	2897.0	6414.9	L:	137200 EDIC	345	137452 N.SCOT77	345	1		1120.4	1724.0	0.20835							
				C:BUS:N.S._99					1615										
				Open 137453 N.SCOT99	345	147831 GILB	345	1											
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1											
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1											
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2											
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1											
26510	2907.7	6419.8	L:	130764 MEYER230	230	131122 WTHRS230	230	1		-269.1	-540.0	-0.09315							
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1											
26520	2911.0	6421.3	L:	131018 LOUNSL115	115	131850 CNYOG115	115	1		29.0	143.0	0.03916							
				C:SER:OAKDALE_WATRC230					1594										
				Open 130768 WATRC230	230	130772 SHRED230	230	1											
				Open 130765 OAKDL230	230	130772 SHRED230	230	1		NA									
				Open 130765 OAKDL230	230	130838 OAKDL115	115	1											
26526	2918.4	6424.7	L:	130767 STOLE230	230	130770 SHLDN230	230	1		282.1	540.0	0.08837							
				C:SER:HCWC/NWES					1607										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1											
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1											
26527	2918.4	6424.7	L:	131018 LOUNSL115	115	131850 CNYOG115	115	1		28.7	143.0	0.03916							
				C:130765 OAKDL230	230	130772 SHRED230	230	1	222										
				Open 130765 OAKDL230	230	130772 SHRED230	230	1											
26529	2919.4	6425.2	L:	131018 LOUNSL115	115	131850 CNYOG115	115	1		28.7	143.0	0.03916							
				C:130765 OAKDL230	230	130838 OAKDL115	115	1	223										
				Open 130765 OAKDL230	230	130838 OAKDL115	115	1											
26531	2921.9	6426.3	L:	Interface 32 F-To-G						4214.0	6118.0	0.65163							
				C:130750 COOPC345	345	130753 FRASR345	345	1	192										
				Open 130750 COOPC345	345	130753 FRASR345	345	1											
26538	2930.7	6430.3	L:	135861 MORTIMER	115	135874 SWDN-113	115	1		-51.1	-153.0	-0.03477							
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1											
26546	2943.2	6436.1	L:	130848 S.OWE115	115	131850 CNYOG115	115	1		-27.8	-143.0	-0.03916							
				C:130768 WATRC230	230	130772 SHRED230	230	1	227										
				Open 130768 WATRC230	230	130772 SHRED230	230	1											
26551	2950.1	6439.2	L:	130767 STOLE230	230	130770 SHLDN230	230	1		283.0	540.0	0.08713							
				C:130757 WATRC345	345	200769 HOMER CY	345	1	1374										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1											
26552	2951.2	6439.8	L:	130848 S.OWE115	115	131850 CNYOG115	115	1		-45.9	-143.0	-0.03291							
				C:130755 OAKDL345	345	131128 LAPEER	345	1	209										
				Open 130755 OAKDL345	345	131128 LAPEER	345	1											
26553	2952.2	6440.2	L:	131018 LOUNSL115	115	131850 CNYOG115	115	1		-18.0	143.0	0.05452							

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			C:130763 HILSD230	230	130768 WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.19959	0.11225	-185.0	146.4
26555	2954.4	6441.2	L: Interface 54 NYE-PJME						-622.1	-787.0	-0.05580	-0.00000	-452.0	-452.0
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.42075	-0.10290	-544.6	-848.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.19127	-0.06539	256.9	63.7
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.43768	0.00000	22.5	22.5
26556	2954.4	6441.2	L: Interface 53 PJME-NYE						622.1	787.0	0.05580	0.00000	452.0	452.0
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.42075	-0.10290	-544.6	-848.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.19127	-0.06539	256.9	63.7
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.43768	0.00000	22.5	22.5
26558	2957.6	6442.7	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-17.0	-112.0	-0.03212			
			Base Case											
26560	2960.8	6444.1	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-27.1	-143.0	-0.03916	-0.03212	-17.0	-112.1
			C:SER:OAKDALE_WATRC230					1594						
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.15025	0.04686	71.5	210.2
			Open 130765 OAKDL230	230	130772 SHRED230	230	1		NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.10161	0.00000	6.8	6.8
26567	2965.5	6446.3	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1		76.6	173.0	0.03251	0.02564	78.4	154.5
			C:130754 KINTI345	345	147834 NIAG 345	345	1	204						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				-0.04136	-0.16606	44.7	-447.7
26569	2966.5	6446.7	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		196.7	383.0	0.06279	0.05072	134.7	285.1
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11471	-0.10290	-544.6	-849.8
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.00924	-0.02889	42.6	-43.1
26573	2968.2	6447.5	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-26.8	-143.0	-0.03916	-0.03212	-17.0	-112.3
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222						
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				0.15025	-0.04686	-65.0	-204.0
26576	2969.2	6448.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-26.7	-143.0	-0.03916	-0.03212	-17.0	-112.4
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				-0.15025	0.04686	64.7	203.8
26580	2976.4	6451.3	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-196.1	-383.0	-0.06279	-0.05072	-134.0	-285.0
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.11471	-0.10290	-544.6	-850.8
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00924	-0.02889	42.6	-43.4
26581	2976.6	6451.4	L: 130767 STOLE230	230	130770 SHLDN230	230	1		280.7	540.0	0.08710	0.07496	218.6	441.7
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11761	-0.10290	-544.6	-850.9
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.05270	0.00061	-36.2	-34.4
26583	2977.4	6451.8	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		196.9	383.0	0.06249	0.05072	134.7	285.7
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.11437	-0.10290	-544.6	-850.9
26589	2985.8	6455.6	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1048.5	-1703.0	-0.21919	-0.20870	-994.4	-1617.5
			C:BUS:N.S._77					1614						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.03865	-0.03758	-247.8	-360.0
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1				0.01599	-0.00362	111.6	100.8
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.05541	0.15681	821.7	1289.9

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			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				0.00917	-0.03193	-91.5	-186.8
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				-0.01068	0.00000	-0.0	-0.0
26592	2987.4	6456.3	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-196.3	-383.0	-0.06249		-0.05072	-134.0	-285.6
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1					0.11437	-0.10290	-544.6 -852.0
26594	2987.9	6456.6	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	19.9	-143.0	-0.05452		-0.03212	-17.0	-113.0
			C:130763 HILSD230	230	130768 WATRC230	230	1 219							
			Open 130763 HILSD230	230	130768 WATRC230	230	1					-0.19959	0.11225	-185.0 150.4
26601	2994.1	6459.4	L: 130753 FRASR345	345	137200 EDIC	345	1	-886.3	-1380.0	-0.16490		-0.08414	-706.1	-958.1
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200							
			Open 130753 FRASR345	345	130755 OAKDL345	345	1					0.31108	-0.25963	-579.0 -1356.4

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, APR 30 2009 16:58
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3_coned.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, APR 30 2009 16:58
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 Contin.File STARS-TTL.CON
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Study transfer. From ABCDEFG_EXP To J_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 37109 violations

Interface-1 Interface 33 MLWD-SOUTH-C Init.Flow= 7865.29 TDF= 1.0000

N	FCITC IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
		C: Contingency description	Ncon	Flow	Rating	LODF	Init Final
1	-110220.-102355.	L: Interface 20 PJM-CENT	3329.2	0.0	0.03021	0.02229	3270.9 814.5
		C:137200 EDIC 345 137452 N.SCOT77 345 1 946					
		Open 137200 EDIC 345 137452 N.SCOT77 345 1				0.07100	0.11154 821.7-11471.9
2	-109719.-101854.	L: Interface 20 PJM-CENT	3336.7	0.0	0.03041	0.02229	3270.9 825.6
		C:SIN:150 1669					
		Open 137200 EDIC 345 137452 N.SCOT77 345 1				0.07285	0.11154 821.7-11416.1
		Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1				0.05010	0.00000 119.9 119.9
		Open 137235 PORTER 1 115 147905 ILION 115 1				-0.00015	-0.00047 88.8 139.9
3	-109719.-101854.	L: Interface 20 PJM-CENT	3336.7	-0.0	0.03041	0.02229	3270.9 825.7
		C:SIN:160 1670					
		Open 137200 EDIC 345 137452 N.SCOT77 345 1				0.07285	0.11154 821.7-11416.0
		Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1				0.05012	0.00000 119.9 119.9
		Open 137235 PORTER 1 115 137246 VALLEY 115 1				-0.00023	-0.00068 74.8 149.8
4	-107383.-99518.4	L: Interface 20 PJM-CENT	3338.1	-0.0	0.03109	0.02229	3270.9 877.7
		C:137453 N.SCOT99 345 147833 MARCY T1 345 1 1012					
		Open 137453 N.SCOT99 345 147833 MARCY T1 345 1				-0.07313	-0.12033 -919.1 12002.4
5	-106852.-98986.7	L: Interface 20 PJM-CENT	3346.0	0.0	0.03131	0.02229	3270.9 889.6
		C:SIN:180 1672					
		Open 137453 N.SCOT99 345 147833 MARCY T1 345 1				-0.07502	-0.12033 -919.1 11938.4

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		Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1		0.05105	0.00000	119.9	119.9
		Open 137235	PORTER 1	115	147905	ILION	115	1		-0.00015	-0.00047	88.8	138.6
6	-106851.-98986.3	L: Interface	20	PJM-CENT					3345.9	-0.0	0.03131	0.02229	3270.9 889.6
		C:SIN:170						1671					
		Open 137453	N.SCOT99	345	147833	MARCY T1	345	1		-0.07502	-0.12033	-919.1	11938.3
		Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1		0.05107	0.00000	119.9	119.9
		Open 137235	PORTER 1	115	137246	VALLEY	115	1		-0.00023	-0.00068	74.8	147.9
7	-105851.-97986.3	L: Interface	20	PJM-CENT					3340.4	0.0	0.03156	0.02229	3270.9 911.9
		C:130750	COOPC345	345	147833	MARCY T1	345	1 196					
		Open 130750	COOPC345	345	147833	MARCY T1	345	1		-0.09420	-0.09842	-738.2	9679.7
8	-105083.-97218.1	L: Interface	20	PJM-CENT					3471.6	-0.0	0.03304	0.02229	3270.9 929.0
		C:SIN:30						1665					
		Open 126260	BOWLINE1	345	146841	BOWL	20.0	1	NA				
		Open 126260	BOWLINE1	345	146750	WHAHV345	345	10		-0.42624	-0.02517	-470.7	2174.1
		Open 126290	LADENTWN	345	146750	WHAHV345	345	1		-0.00074	-0.03122	-170.5	3110.5
9	-100617.-92752.0	L: Interface	20	PJM-CENT					3347.1	-0.0	0.03327	0.02229	3270.9 1028.5
		C:BUS:N.S._77						1614					
		Open 137452	N.SCOT77	345	137453	N.SCOT99	345	1		-0.02395	-0.01679	-247.8	1441.7
		Open 137452	N.SCOT77	345	137516	N.SCOT1	115	1		-0.02639	-0.01951	111.6	2074.4
		Open 137200	EDIC	345	137452	N.SCOT77	345	1		0.09068	0.11154	821.7	-10400.8
		Open 137450	ALPS345	345	137452	N.SCOT77	345	1		0.01446	-0.00358	-91.5	268.9
		Open 137451	LEEDS 3	345	137452	N.SCOT77	345	1		-0.50288	0.00000	-0.0	-0.0
10	-99941.9-92076.6	*L: Interface	20	PJM-CENT					3499.2	0.0	0.03501	0.02229	3270.9 1043.6
		C:SER:HCWC/NWES						1607					
		Open 130757	WATRC345	345	200769	HOMER CY	345	1		-0.41471	-0.03174	-544.6	2627.6
		Open 130836	N.WAV115	115	200676	E.SAYRE	115	1		0.05800	-0.00753	42.6	795.4
22	-38876.6-31011.3	L: Interface	23	QFW					1183.2	0.0	0.03043	0.01977	1092.7 324.2
		C:130754	KINTI345	345	149000	ROCH 345	345	1 205					
		Open 130754	KINTI345	345	149000	ROCH 345	345	1		0.17203	0.06200	525.9	-1884.4
23	-35505.7-27640.4	L: Interface	23	QFW					1080.5	-0.0	0.03043	0.01977	1092.7 390.8
		C:136150	CLAY	345	149001	PANNELL3	345	1 717					
		Open 136150	CLAY	345	149001	PANNELL3	345	1		-0.14084	-0.07571	86.8	2774.9
24	-35440.1-27574.8	L: Interface	23	QFW					1080.4	0.0	0.03049	0.01977	1092.7 392.1
		C:136150	CLAY	345	149001	PANNELL3	345	2 718					
		Open 136150	CLAY	345	149001	PANNELL3	345	2		-0.14110	-0.07595	87.0	2778.9
25	-35016.5-27151.2	L: Interface	23	QFW					1180.7	0.0	0.03372	0.01977	1092.7 400.5
		C:147834	NIAG 345	345	149000	ROCH 345	345	1 1226					
		Open 147834	NIAG 345	345	149000	ROCH 345	345	1		0.20738	0.06726	424.1	-1931.1
26	-19694.0-11828.7	L: Interface	60	C2PJMC					-625.1	-0.0	-0.03174	-0.03174	-544.6 80.5
		C:GEN:9 MI PT2						1561					
		Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5 MW	dispatch						
27	-19694.0-11828.7	L: Interface	61	PJMC2C					625.1	0.0	0.03174	0.03174	544.6 -80.5
		C:GEN:9 MI PT2						1561					
		Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5 MW	dispatch						
28	-19694.0-11828.7	L: Interface	47	C-PJMWest					-625.1	-0.0	-0.03174	-0.03174	-544.6 80.5
		C:GEN:9 MI PT2						1561					
		Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5 MW	dispatch						
29	-19694.0-11828.7	L: Interface	48	PJMWest-C					625.1	0.0	0.03174	0.03174	544.6 -80.5

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		C:GEN:9 MI PT2			1561							
		Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch						
30	-19302.7-11437.4	L: Interface	47 C-PJMWest				-612.7	0.0	-0.03174		-0.03174	-544.6 68.1
		C:SIN:250			1677							
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2					-0.00000	0.00000	-0.1 -0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
31	-19302.7-11437.4	L: Interface	60 C2PJMC				-612.7	0.0	-0.03174		-0.03174	-544.6 68.1
		C:SIN:250			1677							
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2					-0.00000	0.00000	-0.1 -0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
32	-19302.7-11437.4	L: Interface	48 PJMWest-C				612.7	-0.0	0.03174		0.03174	544.6 -68.1
		C:SIN:250			1677							
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2					0.00000	0.00000	-0.1 -0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
33	-19302.7-11437.4	L: Interface	61 PJMC2C				612.7	-0.0	0.03174		0.03174	544.6 -68.1
		C:SIN:250			1677							
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2					0.00000	0.00000	-0.1 -0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
34	-19300.5-11435.2	L: Interface	47 C-PJMWest				-612.6	-0.0	-0.03174		-0.03174	-544.6 68.0
		C:GEN:SEAB&OMS			1575							
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2					-0.00000	0.00000	-0.1 -0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
35	-19300.5-11435.2	L: Interface	60 C2PJMC				-612.6	-0.0	-0.03174		-0.03174	-544.6 68.0
		C:GEN:SEABROOK			1573							
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
36	-19300.5-11435.2	L: Interface	60 C2PJMC				-612.6	-0.0	-0.03174		-0.03174	-544.6 68.0
		C:GEN:SEAB&OMS			1575							
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2					-0.00000	0.00000	-0.1 -0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
37	-19300.5-11435.2	L: Interface	48 PJMWest-C				612.6	0.0	0.03174		0.03174	544.6 -68.0
		C:GEN:SEABROOK			1573							
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
38	-19300.5-11435.2	L: Interface	47 C-PJMWest				-612.6	-0.0	-0.03174		-0.03174	-544.6 68.0
		C:GEN:SEABROOK			1573							
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
39	-19300.5-11435.2	L: Interface	48 PJMWest-C				612.6	0.0	0.03174		0.03174	544.6 -68.0
		C:GEN:SEAB&OMS			1575							
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2					0.00000	0.00000	-0.1 -0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
40	-19300.5-11435.2	L: Interface	61 PJMC2C				612.6	0.0	0.03174		0.03174	544.6 -68.0
		C:GEN:SEAB&OMS			1575							
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2					0.00000	0.00000	-0.1 -0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
41	-19300.5-11435.2	L: Interface	61 PJMC2C				612.6	0.0	0.03174		0.03174	544.6 -68.0
		C:GEN:SEABROOK			1573							
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
42	-19131.8-11266.5	L: Interface	47 C-PJMWest				-607.2	-0.0	-0.03174		-0.03174	-544.6 62.7
		C:GEN:MLS3&OMS			1574							

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		Open 100508 SANDB115	115 100509 SB RCTOR	115 2				-0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
43	-19131.8-11266.5	L: Interface	60 C2PJMC					-607.2	-0.0	-0.03174	
		C:GEN:MILLST 3									
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
44	-19131.8-11266.5	L: Interface	61 PJMC2C					607.2	0.0	0.03174	
		C:GEN:MILLST 3									
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
45	-19131.8-11266.5	L: Interface	61 PJMC2C					607.2	0.0	0.03174	
		C:GEN:MLS3&OMS									
		Open 100508 SANDB115	115 100509 SB RCTOR	115 2				0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
46	-19131.8-11266.5	L: Interface	47 C-PJMWest					-607.2	-0.0	-0.03174	
		C:GEN:MILLST 3									
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
47	-19131.8-11266.5	L: Interface	48 PJMWest-C					607.2	0.0	0.03174	
		C:GEN:MILLST 3									
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
48	-19131.8-11266.5	L: Interface	60 C2PJMC					-607.2	-0.0	-0.03174	
		C:GEN:MLS3&OMS									
		Open 100508 SANDB115	115 100509 SB RCTOR	115 2				-0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
49	-19131.8-11266.5	L: Interface	48 PJMWest-C					607.2	0.0	0.03174	
		C:GEN:MLS3&OMS									
		Open 100508 SANDB115	115 100509 SB RCTOR	115 2				0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
50	-19044.1-11178.8	L: Interface	60 C2PJMC					-630.9	-0.0	-0.03313	
		C:HQ-NY-765-New									
		Open 147827 MARCY765	765 147828 MASS 765	765 1		NA					
		Open 147828 MASS 765	765 180819 CHA-NY	765 1		NA					
		Open 147827 MARCY765	765 147833 MARCY T1	345 1				-0.02483	0.02986	624.6	56.0
		Open 147827 MARCY765	765 147833 MARCY T1	345 2				-0.02483	0.02596	543.5	49.1
		Open 156 MCY765SW	0.0 147827 MARCY765	765 1		NA					
		Open 147838 MASS230B	230 147839 MOSES E	230 1				0.00000	-0.02791	10.4	542.0
		Open 147828 MASS 765	765 147838 MASS230B	230 1		NA					
		Open 147837 MASS230A	230 147839 MOSES E	230 1				0.05514	0.00000	18.8	18.8
		Open 147828 MASS 765	765 147837 MASS230A	230 1		NA					
		Open 158 MS765SW2	0.0 147828 MASS 765	765 1		NA					
		Open 157 MS765SW1	0.0 147828 MASS 765	765 1		NA					
		Decrease bus 180001 BEA-DLX	13.8 generation by	100.0		percent dispatch					
		Set bus 181319 CHAT G3	120 load to	357.0		MW dispatch					
		Decrease bus 180002 BEA-DL	13.8 generation by	100.0		percent dispatch					
		Set bus 181419 CHAT G4	120 load to	357.0		MW dispatch					
51	-19044.1-11178.8	L: Interface	47 C-PJMWest					-630.9	-0.0	-0.03313	
		C:HQ-NY-765-New									
		Open 147827 MARCY765	765 147828 MASS 765	765 1		NA					
		Open 147828 MASS 765	765 180819 CHA-NY	765 1		NA					
		Open 147827 MARCY765	765 147833 MARCY T1	345 1				-0.02483	0.02986	624.6	56.0

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	Open 147827	MARCY765	765	147833	MARCY T1	345	2						-0.02483	0.02596	543.5	49.1
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1		NA						
	Open	147838	MASS230B	230	147839	MOSES E	230	1					0.00000	-0.02791	10.4	542.0
	Open	147828	MASS 765	765	147838	MASS230B	230	1		NA						
	Open	147837	MASS230A	230	147839	MOSES E	230	1					0.05514	0.00000	18.8	18.8
	Open	147828	MASS 765	765	147837	MASS230A	230	1		NA						
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1		NA						
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1		NA						
	Decrease bus	180001	BEA-DLX	13.8	generation	by	100.0			percent	dispatch					
	Set	bus	181319	CHAT	G3	120	load	to	357.0	MW	dispatch					
	Decrease bus	180002	BEA-DL	13.8	generation	by	100.0			percent	dispatch					
	Set	bus	181419	CHAT	G4	120	load	to	357.0	MW	dispatch					
52	-19044.1-11178.8	L: Interface	48	PJMWest-C					630.9	0.0	0.03313			0.03174	544.6	-59.9
		C:HQ-NY-765-New				1776										
	Open	147827	MARCY765	765	147828	MASS 765	765	1		NA						
	Open	147828	MASS 765	765	180819	CHA-NY	765	1		NA						
	Open	147827	MARCY765	765	147833	MARCY T1	345	1					0.02483	0.02986	624.6	56.0
	Open	147827	MARCY765	765	147833	MARCY T1	345	2					0.02483	0.02596	543.5	49.1
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1		NA						
	Open	147838	MASS230B	230	147839	MOSES E	230	1					-0.00000	-0.02791	10.4	542.0
	Open	147828	MASS 765	765	147838	MASS230B	230	1		NA						
	Open	147837	MASS230A	230	147839	MOSES E	230	1					-0.05514	0.00000	18.8	18.8
	Open	147828	MASS 765	765	147837	MASS230A	230	1		NA						
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1		NA						
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1		NA						
	Decrease bus	180001	BEA-DLX	13.8	generation	by	100.0			percent	dispatch					
	Set	bus	181319	CHAT	G3	120	load	to	357.0	MW	dispatch					
	Decrease bus	180002	BEA-DL	13.8	generation	by	100.0			percent	dispatch					
	Set	bus	181419	CHAT	G4	120	load	to	357.0	MW	dispatch					
53	-19044.1-11178.8	L: Interface	61	PJMC2C					630.9	0.0	0.03313			0.03174	544.6	-59.9
		C:HQ-NY-765-New				1776										
	Open	147827	MARCY765	765	147828	MASS 765	765	1		NA						
	Open	147828	MASS 765	765	180819	CHA-NY	765	1		NA						
	Open	147827	MARCY765	765	147833	MARCY T1	345	1					0.02483	0.02986	624.6	56.0
	Open	147827	MARCY765	765	147833	MARCY T1	345	2					0.02483	0.02596	543.5	49.1
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1		NA						
	Open	147838	MASS230B	230	147839	MOSES E	230	1					-0.00000	-0.02791	10.4	542.0
	Open	147828	MASS 765	765	147838	MASS230B	230	1		NA						
	Open	147837	MASS230A	230	147839	MOSES E	230	1					-0.05514	0.00000	18.8	18.8
	Open	147828	MASS 765	765	147837	MASS230A	230	1		NA						
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1		NA						
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1		NA						
	Decrease bus	180001	BEA-DLX	13.8	generation	by	100.0			percent	dispatch					
	Set	bus	181319	CHAT	G3	120	load	to	357.0	MW	dispatch					
	Decrease bus	180002	BEA-DL	13.8	generation	by	100.0			percent	dispatch					
	Set	bus	181419	CHAT	G4	120	load	to	357.0	MW	dispatch					
54	-19018.9-11153.6	L: Interface	48	PJMWest-C					597.6	0.0	0.03142			0.03174	544.6	-59.1
		C:GEN:FITZPATR				1559										

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	Open	136155	SCRIBA	345	147830	JA	FITZP	345	1			-0.00489	0.07048	-67.1	-1407.6		
	Open	137200	EDIC	345	147830	JA	FITZP	345	1			-0.07692	-0.00032	43.5	49.6		
	Remove unit 1	from bus	147797	JAFITZ1G	24.0			886.8	MW	dispatch							
55	-19018.9-11153.6	L: Interface	47	C-PJMWest								-597.6	-0.0	-0.03142	-0.03174	-544.6	59.1
	C:GEN:FITZPATR							1559									
	Open	136155	SCRIBA	345	147830	JA	FITZP	345	1			0.00489	0.07048	-67.1	-1407.6		
	Open	137200	EDIC	345	147830	JA	FITZP	345	1			0.07692	-0.00032	43.5	49.6		
	Remove unit 1	from bus	147797	JAFITZ1G	24.0			886.8	MW	dispatch							
56	-19018.9-11153.6	L: Interface	60	C2PJMC								-597.6	-0.0	-0.03142	-0.03174	-544.6	59.1
	C:GEN:FITZPATR							1559									
	Open	136155	SCRIBA	345	147830	JA	FITZP	345	1			0.00489	0.07048	-67.1	-1407.6		
	Open	137200	EDIC	345	147830	JA	FITZP	345	1			0.07692	-0.00032	43.5	49.6		
	Remove unit 1	from bus	147797	JAFITZ1G	24.0			886.8	MW	dispatch							
57	-19018.9-11153.6	L: Interface	61	PJMC2C								597.6	0.0	0.03142	0.03174	544.6	-59.1
	C:GEN:FITZPATR							1559									
	Open	136155	SCRIBA	345	147830	JA	FITZP	345	1			-0.00489	0.07048	-67.1	-1407.6		
	Open	137200	EDIC	345	147830	JA	FITZP	345	1			-0.07692	-0.00032	43.5	49.6		
	Remove unit 1	from bus	147797	JAFITZ1G	24.0			886.8	MW	dispatch							
58	-18498.1-10632.8	L: Interface	47	C-PJMWest								-587.1	0.0	-0.03174	-0.03174	-544.6	42.6
	C:GEN:IND PT 3							1555									
	Remove unit 1	from bus	147798	IP#3 GEN	22.0			1072.8	MW	dispatch							
59	-18498.1-10632.8	L: Interface	61	PJMC2C								587.1	-0.0	0.03174	0.03174	544.6	-42.6
	C:GEN:IND PT 3							1555									
	Remove unit 1	from bus	147798	IP#3 GEN	22.0			1072.8	MW	dispatch							
60	-18498.1-10632.8	L: Interface	60	C2PJMC								-587.1	0.0	-0.03174	-0.03174	-544.6	42.6
	C:GEN:IND PT 3							1555									
	Remove unit 1	from bus	147798	IP#3 GEN	22.0			1072.8	MW	dispatch							
61	-18498.1-10632.8	L: Interface	48	PJMWest-C								587.1	-0.0	0.03174	0.03174	544.6	-42.6
	C:GEN:IND PT 3							1555									
	Remove unit 1	from bus	147798	IP#3 GEN	22.0			1072.8	MW	dispatch							
62	-18490.2-10624.9*L:	Interface	47	C-PJMWest								-587.6	0.0	-0.03178	-0.03174	-544.6	42.3
	C:MULT01							1653									
	Open	4	CNASTONE	500	26	HUNTRSTN		500	1			0.02290	-0.00123	-1488.5	-1465.7		
	Open	26	HUNTRSTN	500	1152	HUNTRSTN		230	1			-0.02213	0.00047	404.2	395.5		
63	-18490.2-10624.9*L:	Interface	48	PJMWest-C								587.6	-0.0	0.03178	0.03174	544.6	-42.3
	C:MULT01							1653									
	Open	4	CNASTONE	500	26	HUNTRSTN		500	1			-0.02290	-0.00123	-1488.5	-1465.7		
	Open	26	HUNTRSTN	500	1152	HUNTRSTN		230	1			0.02213	0.00047	404.2	395.5		
64	-18490.2-10624.9*L:	Interface	60	C2PJMC								-587.6	0.0	-0.03178	-0.03174	-544.6	42.3
	C:MULT01							1653									
	Open	4	CNASTONE	500	26	HUNTRSTN		500	1			0.02290	-0.00123	-1488.5	-1465.7		
	Open	26	HUNTRSTN	500	1152	HUNTRSTN		230	1			-0.02213	0.00047	404.2	395.5		
65	-18490.2-10624.9*L:	Interface	61	PJMC2C								587.6	-0.0	0.03178	0.03174	544.6	-42.3
	C:MULT01							1653									
	Open	4	CNASTONE	500	26	HUNTRSTN		500	1			-0.02290	-0.00123	-1488.5	-1465.7		
	Open	26	HUNTRSTN	500	1152	HUNTRSTN		230	1			0.02213	0.00047	404.2	395.5		
6998	-13568.6 -5703.3	L: Interface	62	C2PJMW								-509.5	-0.0	-0.03755	-0.06492	-347.9	533.1
	C:ETHS/NWES/LLGD							1648									

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			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.80832	-0.01703	116.5	347.6
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.83277	-0.00753	42.6	144.8
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1				-0.85089	-0.00862	37.6	154.6
6999	-13568.6	-5703.3	L: Interface 63 PJMW2C						509.5	0.0	0.03755		0.06492	347.9	-533.1
			C:ETHS/NWES/LLGD											1648	
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.80832	-0.01703	116.5	347.6
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.83277	-0.00753	42.6	144.8
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1				0.85089	-0.00862	37.6	154.6
7012	-9363.8	-1498.5	L: Interface 63 PJMW2C						454.2	-0.0	0.04850		0.06492	347.9	-260.1
			C:SER:ETHS/NWES											1606	
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.66720	-0.01703	116.5	276.0
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.67157	-0.00753	42.6	113.1
7013	-9363.8	-1498.5	L: Interface 62 C2PJM						-454.2	0.0	-0.04850		-0.06492	-347.9	260.1
			C:SER:ETHS/NWES											1606	
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.66720	-0.01703	116.5	276.0
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.67157	-0.00753	42.6	113.1
7014	-9348.5	-1483.3	L: Interface 63 PJMW2C						453.3	0.0	0.04849		0.06492	347.9	-259.1
			C:SER:C398/NWES											1605	
			Open 409 GROVER	230	200675	E.TWANDA	230	1				0.00110	0.00038	-15.6	-19.1
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.66879	-0.01703	116.5	275.7
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1				0.01712	-0.00149	-52.2	-38.3
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.66714	-0.00753	42.6	113.0
7015	-9348.5	-1483.3	L: Interface 62 C2PJM						-453.3	-0.0	-0.04849		-0.06492	-347.9	259.1
			C:SER:C398/NWES											1605	
			Open 409 GROVER	230	200675	E.TWANDA	230	1				-0.00110	0.00038	-15.6	-19.1
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.66879	-0.01703	116.5	275.7
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1				-0.01712	-0.00149	-52.2	-38.3
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.66714	-0.00753	42.6	113.0
7016	-8945.7	-1080.4	L: Interface 51 G-PJMEast						273.0	0.0	0.03052		-0.00000	-0.0	-0.0
			C:SIN:280											1678	
			Open 126262 BUCHANAN N	345	126267	E VIEW 2N	345	1				0.19926	0.13399	1132.5	-66.2
			Open 126267 E VIEW 2N	345	126298	SPRBROOK	345	1				0.02431	0.13703	930.6	-295.2
			Open 126267 E VIEW 2N	345	126378	EASTVIEW	138	1				0.38173	0.00000	1.9	1.9
			Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1				0.17533	0.00278	137.2	112.3
7017	-8945.7	-1080.4	L: Interface 52 PJMEast-G						-273.0	-0.0	-0.03052		0.00000	0.0	0.0
			C:SIN:280											1678	
			Open 126262 BUCHANAN N	345	126267	E VIEW 2N	345	1				-0.19926	0.13399	1132.5	-66.2
			Open 126267 E VIEW 2N	345	126298	SPRBROOK	345	1				-0.02431	0.13703	930.6	-295.2
			Open 126267 E VIEW 2N	345	126378	EASTVIEW	138	1				-0.38173	0.00000	1.9	1.9
			Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1				-0.17533	0.00278	137.2	112.3
7018	-8496.1	-630.8	L: Interface 62 C2PJM						-431.6	-0.0	-0.05080		-0.06492	-347.9	203.7
			C:ETHS/LLGD											1649	
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.52471	-0.01703	116.5	261.2
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1				-0.60156	-0.00862	37.6	110.9
7019	-8496.1	-630.8	L: Interface 63 PJMW2C						431.6	0.0	0.05080		0.06492	347.9	-203.7
			C:ETHS/LLGD											1649	
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.52471	-0.01703	116.5	261.2
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1				0.60156	-0.00862	37.6	110.9

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7020	-7995.8	-130.6	L: Interface	63 PJMW2C				519.1	0.0	0.06492		0.06492	347.9	-171.3
			C:GEN:9 MI PT2				1561							
			Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
7021	-7995.8	-130.6	L: Interface	62 C2PJM				-519.1	-0.0	-0.06492		-0.06492	-347.9	171.3
			C:GEN:9 MI PT2				1561							
			Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
7022	-7717.5	147.8	L: Interface	63 PJMW2C				518.8	-0.0	0.06722		0.06492	347.9	-153.2
			C:HQ-NY-765-New				1776							
			Open 147827	MARCY765	765 147828 MASS 765	765 1	NA							
			Open 147828	MASS 765	765 180819 CHA-NY	765 1	NA							
			Open 147827	MARCY765	765 147833 MARCY T1	345 1				0.04115	0.02986	624.6	394.2	
			Open 147827	MARCY765	765 147833 MARCY T1	345 2				0.04115	0.02596	543.5	343.1	
			Open 156	MCY765SW	0.0 147827 MARCY765	765 1	NA							
			Open 147838	MASS230B	230 147839 MOSES E	230 1				-0.00000	-0.02791	10.4	225.8	
			Open 147828	MASS 765	765 147838 MASS230B	230 1	NA							
			Open 147837	MASS230A	230 147839 MOSES E	230 1				-0.11503	0.00000	18.8	18.8	
			Open 147828	MASS 765	765 147837 MASS230A	230 1	NA							
			Open 158	MS765SW2	0.0 147828 MASS 765	765 1	NA							
			Open 157	MS765SW1	0.0 147828 MASS 765	765 1	NA							
			Decrease bus	180001 BEA-DLX	13.8 generation by	100.0	percent dispatch							
			Set bus	181319 CHAT G3	120 load to	357.0	MW dispatch							
			Decrease bus	180002 BEA-DL	13.8 generation by	100.0	percent dispatch							
			Set bus	181419 CHAT G4	120 load to	357.0	MW dispatch							
7023	-7717.5	147.8	L: Interface	62 C2PJM				-518.8	0.0	-0.06722		-0.06492	-347.9	153.2
			C:HQ-NY-765-New				1776							
			Open 147827	MARCY765	765 147828 MASS 765	765 1	NA							
			Open 147828	MASS 765	765 180819 CHA-NY	765 1	NA							
			Open 147827	MARCY765	765 147833 MARCY T1	345 1				-0.04115	0.02986	624.6	394.2	
			Open 147827	MARCY765	765 147833 MARCY T1	345 2				-0.04115	0.02596	543.5	343.1	
			Open 156	MCY765SW	0.0 147827 MARCY765	765 1	NA							
			Open 147838	MASS230B	230 147839 MOSES E	230 1				0.00000	-0.02791	10.4	225.8	
			Open 147828	MASS 765	765 147838 MASS230B	230 1	NA							
			Open 147837	MASS230A	230 147839 MOSES E	230 1				0.11503	0.00000	18.8	18.8	
			Open 147828	MASS 765	765 147837 MASS230A	230 1	NA							
			Open 158	MS765SW2	0.0 147828 MASS 765	765 1	NA							
			Open 157	MS765SW1	0.0 147828 MASS 765	765 1	NA							
			Decrease bus	180001 BEA-DLX	13.8 generation by	100.0	percent dispatch							
			Set bus	181319 CHAT G3	120 load to	357.0	MW dispatch							
			Decrease bus	180002 BEA-DL	13.8 generation by	100.0	percent dispatch							
			Set bus	181419 CHAT G4	120 load to	357.0	MW dispatch							
7024	-7407.9	457.4	L: Interface	62 C2PJM				-443.4	-0.0	-0.05985		-0.06492	-347.9	133.1
			C:SER:HC-SR_37&W-F_171				1600							
			Open 135398	SW345	345 200769 HOMER CY	345 1				0.23853	0.01717	-379.0	-506.2	
			Open 135277	FALCONER	115 200579 WARREN	115 1				0.14055	0.00697	-36.2	-87.8	
7025	-7407.9	457.4	L: Interface	63 PJMW2C				443.4	0.0	0.05985		0.06492	347.9	-133.1
			C:SER:HC-SR_37&W-F_171				1600							
			Open 135398	SW345	345 200769 HOMER CY	345 1				-0.23853	0.01717	-379.0	-506.2	
			Open 135277	FALCONER	115 200579 WARREN	115 1				-0.14055	0.00697	-36.2	-87.8	

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			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				-0.26816	-0.14883	-539.0	78.6
			Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1				0.16809	0.00278	137.2	125.7
10544	-3620.2	4245.1	L: Interface	52		PJMEast-G			-139.1	-0.0	-0.03843	0.00000	0.0	0.0	
			C:126263 BUCHANAN S	345	126290	LADENTWN	345	1	86						
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				0.25820	-0.14883	-539.0	-0.2
10545	-3620.2	4245.1	L: Interface	51		G-PJMEast			139.1	0.0	0.03843	-0.00000	-0.0	-0.0	
			C:126263 BUCHANAN S	345	126290	LADENTWN	345	1	86						
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				-0.25820	-0.14883	-539.0	-0.2
10546	-2688.6	5176.7	L: Interface	52		PJMEast-G			-136.3	0.0	-0.05071	0.00000	0.0	0.0	
			C:126298 SPRBROOK	345	126517	REACM51	345	SR	131						
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR				-0.20655	0.24552	660.3	0.2
10547	-2688.6	5176.7	L: Interface	51		G-PJMEast			136.3	-0.0	0.05071	-0.00000	-0.0	-0.0	
			C:126298 SPRBROOK	345	126518	REACM52	345	SR	132						
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR				0.20655	0.24552	660.3	0.2
10548	-2688.6	5176.7	L: Interface	52		PJMEast-G			-136.3	0.0	-0.05071	0.00000	0.0	0.0	
			C:126298 SPRBROOK	345	126518	REACM52	345	SR	132						
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR				-0.20655	0.24552	660.3	0.2
10549	-2688.6	5176.7	L: Interface	51		G-PJMEast			136.3	-0.0	0.05071	-0.00000	-0.0	-0.0	
			C:126298 SPRBROOK	345	126517	REACM51	345	SR	131						
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR				0.20655	0.24552	660.3	0.2
10550	-2675.5	5189.8	L: Interface	51		G-PJMEast			135.7	-0.0	0.05071	-0.00000	-0.0	-0.0	
			C:126304 W 49 ST	345	126517	REACM51	345	1	1366						
			Open 126304 W 49 ST	345	126517	REACM51	345	1				-0.20655	-0.24552	-657.1	-0.2
10551	-2675.5	5189.8	L: Interface	52		PJMEast-G			-135.7	0.0	-0.05071	0.00000	0.0	0.0	
			C:126304 W 49 ST	345	126517	REACM51	345	1	1366						
			Open 126304 W 49 ST	345	126517	REACM51	345	1				0.20655	-0.24552	-657.1	-0.2
10552	-2675.5	5189.8	L: Interface	52		PJMEast-G			-135.7	0.0	-0.05071	0.00000	0.0	0.0	
			C:126304 W 49 ST	345	126518	REACM52	345	2	1367						
			Open 126304 W 49 ST	345	126518	REACM52	345	2				0.20655	-0.24552	-657.1	-0.2
10553	-2675.5	5189.8	L: Interface	51		G-PJMEast			135.7	-0.0	0.05071	-0.00000	-0.0	-0.0	
			C:126304 W 49 ST	345	126518	REACM52	345	2	1367						
			Open 126304 W 49 ST	345	126518	REACM52	345	2				-0.20655	-0.24552	-657.1	-0.2
10554	-2528.4	5336.9	*L: Interface	52		PJMEast-G			-125.6	0.0	-0.04966	0.00000	0.0	0.0	
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1372						
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4				-0.19583	0.25358	641.4	0.2
10555	-2528.4	5336.9	*L: Interface	51		G-PJMEast			125.6	-0.0	0.04966	-0.00000	-0.0	-0.0	
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1372						
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4				0.19583	0.25358	641.4	0.2
10564	-439.7	7425.6	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1835.6	-1725.0	-0.25158	-0.17685	-1285.9	-1208.2	
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1	121						
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1				0.44128	-0.16934	-1245.7	-1171.2
10565	-295.4	7569.9	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1797.4	-1725.0	-0.24523	-0.16934	-1245.7	-1195.6	
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	2	120						
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	2				0.42909	-0.17685	-1285.9	-1233.7
10566	254.7	8120.0	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1285.9	-1331.0	-0.17685				
			Base Case												
10567	376.7	8242.0	L: Interface	14		Leeds-PV			2531.6	2662.0	0.34620				
			Base Case												

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10568	504.0	8369.3	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1245.7	-1331.0	-0.16934			
			Base Case											
10569	537.2	8402.5	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	645.8	783.0	0.25539			
			Base Case											
10570	537.2	8402.5	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	645.8	783.0	0.25539			
			Base Case											
10571	558.5	8423.8	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	641.4	783.0	0.25358			
			Base Case											
10572	558.5	8423.8	L: 126266 DUNWODIE	345	126601	REAC72	345	SR	641.4	783.0	0.25358			
			Base Case											
10573	622.1	8487.4	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-286.0	-317.0	-0.04978	-0.02745	-161.3	-178.4
			C:SIN:440											
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.11201	0.19936	1113.2
10574	622.1	8487.4	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-286.0	-317.0	-0.04978	-0.02745	-161.3	-178.4
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1						
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.11201	0.19936	1113.2
10575	672.8	8538.1	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1582.9	-1725.0	-0.21114	-0.17685	-1285.9	-1404.9
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1						
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				0.32992	-0.10391	-900.2
10576	686.7	8551.9	L: Interface 15 ItoNYC345						2601.3	3288.0	1.00000			
			Base Case											
10577	700.0	8565.3	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1571.6	-1725.0	-0.21918	-0.17685	-1285.9	-1409.8
			C:125002 ROSETON	345	126281	FISHKILL	345	1						
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.18978	0.22303	1505.0
10578	700.0	8565.3	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1571.6	-1725.0	-0.21918	-0.17685	-1285.9	-1409.8
			C:SIN:430											
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.18978	0.22303	1505.0
10579	817.4	8682.7	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	660.3	861.0	0.24552			
			Base Case											
10580	817.4	8682.7	L: 126298 SPRBROOK	345	126517	REACM51	345	SR	660.3	861.0	0.24552			
			Base Case											
10581	820.1	8685.4	L: Interface 14 Leeds-PV						3111.2	3450.0	0.41310	0.34620	2531.6	2815.5
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1						
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				-0.64389	-0.10391	-900.2
10582	830.5	8695.8	L: 126304 W 49 ST	345	126517	REACM51	345	1	-657.1	-861.0	-0.24552			
			Base Case											
10583	830.5	8695.8	L: 126304 W 49 ST	345	126518	REACM52	345	2	-657.1	-861.0	-0.24552			
			Base Case											
10584	841.8	8707.1	L: Interface 14 Leeds-PV						3089.0	3450.0	0.42880	0.34620	2531.6	2823.0
			C:125002 ROSETON	345	126281	FISHKILL	345	1						
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				0.37038	0.22303	1505.0
10585	841.8	8707.1	L: Interface 14 Leeds-PV						3089.0	3450.0	0.42880	0.34620	2531.6	2823.0
			C:SIN:430											
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				0.37038	0.22303	1505.0
10586	974.0	8839.3	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1528.3	-1725.0	-0.20196	-0.16934	-1245.7	-1410.6
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1						
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				0.31396	-0.10391	-900.2
10587	990.1	8855.4	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1517.5	-1725.0	-0.20962	-0.16934	-1245.7	-1413.3

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			C:125002 ROSETON	345	126281 FISHKILL	345	1	10										
			Open 125002 ROSETON	345	126281 FISHKILL	345	1					-0.18060	0.22303	1505.0	1725.8			
10588	990.1	8855.4	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1		-1517.5	-1725.0	-0.20962		-0.16934	-1245.7	-1413.3			
			C:SIN:430					1682										
			Open 125002 ROSETON	345	126281 FISHKILL	345	1					-0.18060	0.22303	1505.0	1725.8			
10589	1026.4	8891.6	L: Interface 12 I-TO-J						3922.6	4949.0	1.00000							
			Base Case															
10590	1053.6	8918.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1479.2	-1725.0	-0.23331		-0.17685	-1285.9	-1472.3			
			C:137451 LEEDS 3	345	137455 ATHENS	345	1	1006										
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1					-0.44128	0.12793	437.9	572.7			
10591	1127.4	8992.7	L: 126334 ASTE-ERG	138	126445 HG 4	138	1		-124.0	-179.0	-0.04879							
			Base Case															
10592	1128.6	8993.9	L: 126352 ASTE-WRG	138	126442 HG 1	138	1		-123.9	-179.0	-0.04882							
			Base Case															
10593	1181.5	9046.8	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1479.6	-1725.0	-0.20773		-0.17685	-1285.9	-1494.9			
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1										
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1					-0.29333	0.10527	660.0	784.4			
10594	1249.8	9115.1	L: Interface 10 NYC Cable						4209.2	5459.0	1.00000							
			Base Case															
10595	1295.9	9161.2	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3		790.8	1196.0	0.31270		0.25539	645.8	976.7			
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1372										
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4					0.22604	0.25358	641.4	970.0			
10596	1295.9	9161.2	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3		790.8	1196.0	0.31270		0.25539	645.8	976.7			
			C:126266 DUNWODIE	345	126601 REAC72	345	SR	96										
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR					0.22604	0.25358	641.4	970.0			
10597	1295.9	9161.2	L: 126266 DUNWODIE	345	126600 REAC71	345	SR		790.8	1196.0	0.31270		0.25539	645.8	976.7			
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1372										
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4					0.22604	0.25358	641.4	970.0			
10598	1295.9	9161.2	L: 126266 DUNWODIE	345	126600 REAC71	345	SR		790.8	1196.0	0.31270		0.25539	645.8	976.7			
			C:126266 DUNWODIE	345	126601 REAC72	345	SR	96										
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR					0.22604	0.25358	641.4	970.0			
10599	1316.6	9181.9	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4		786.5	1196.0	0.31099		0.25358	641.4	975.2			
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1371										
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3					0.22480	0.25539	645.8	982.0			
10600	1316.6	9181.9	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4		786.5	1196.0	0.31099		0.25358	641.4	975.2			
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	95										
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR					0.22480	0.25539	645.8	982.0			
10601	1316.6	9181.9	L: 126266 DUNWODIE	345	126601 REAC72	345	SR		786.5	1196.0	0.31099		0.25358	641.4	975.2			
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1371										
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3					0.22480	0.25539	645.8	982.0			
10602	1316.6	9181.9	L: 126266 DUNWODIE	345	126601 REAC72	345	SR		786.5	1196.0	0.31099		0.25358	641.4	975.2			
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	95										
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR					0.22480	0.25539	645.8	982.0			
10603	1328.1	9193.4	L: 146758 CHESTER	138	146773 SGRLF138	138	1		250.9	317.0	0.04978		0.02745	126.2	162.6			
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7										
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1					0.11201	0.19936	1113.2	1378.0			
10604	1328.1	9193.4	L: 146758 CHESTER	138	146773 SGRLF138	138	1		250.9	317.0	0.04978		0.02745	126.2	162.6			
			C:SIN:440					1683										

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			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1			0.11201	0.19936	1113.2	1378.0		
10605	1329.9	9195.2	L: Interface 14 Leeds-PV						2909.4	3450.0	0.40646		0.34620	2531.6	2992.0	
			C:125000 HURLEY 3	345	125002	ROSETON	345	1								
			Open 125000 HURLEY 3	345	125002	ROSETON	345	1								
10606	1383.9	9249.2	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	164.5	-256.0	-0.30389		0.57248	0.10527	660.0	800.0
			Base Case													
10607	1384.7	9250.0	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-164.8	256.0	0.30389					
			Base Case													
10608	1397.1	9262.4	L: Interface 11 DUN-SOUTH OP						4858.9	6256.0	1.00000					
			Base Case													
10609	1405.8	9271.1	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	103.2	-342.0	-0.31669		-0.31669	211.2	-234.0	
			C:GEN:NYPA_AS					1553								
			Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch									
			Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch									
			Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch									
10610	1410.1	9275.4	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	770.5	1196.0	0.30175		0.25539	645.8	1005.9	
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 132								
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR					0.18885	0.24552	660.3	1006.5
10611	1410.1	9275.4	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	770.5	1196.0	0.30175		0.25539	645.8	1005.9	
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 131								
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR					0.18885	0.24552	660.3	1006.5
10612	1410.1	9275.4	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	770.5	1196.0	0.30175		0.25539	645.8	1005.9	
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 132								
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR					0.18885	0.24552	660.3	1006.5
10613	1410.1	9275.4	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	770.5	1196.0	0.30175		0.25539	645.8	1005.9	
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 131								
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR					0.18885	0.24552	660.3	1006.5
10614	1410.5	9275.7	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-104.7	342.0	0.31669		0.31669	-212.7	234.0	
			C:GEN:NYPA_AS					1553								
			Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch									
			Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch									
			Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch									
10615	1412.1	9277.4	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	769.9	1196.0	0.30175		0.25539	645.8	1006.4	
			C:126304 W 49 ST	345	126518	REACM52	345	2 1367								
			Open 126304 W 49 ST	345	126518	REACM52	345	2					-0.18885	-0.24552	-657.1	-1003.8
10616	1412.1	9277.4	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	769.9	1196.0	0.30175		0.25539	645.8	1006.4	
			C:126304 W 49 ST	345	126517	REACM51	345	1 1366								
			Open 126304 W 49 ST	345	126517	REACM51	345	1					-0.18885	-0.24552	-657.1	-1003.8
10617	1412.1	9277.4	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	769.9	1196.0	0.30175		0.25539	645.8	1006.4	
			C:126304 W 49 ST	345	126518	REACM52	345	2 1367								
			Open 126304 W 49 ST	345	126518	REACM52	345	2					-0.18885	-0.24552	-657.1	-1003.8
10618	1412.1	9277.4	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	769.9	1196.0	0.30175		0.25539	645.8	1006.4	
			C:126304 W 49 ST	345	126517	REACM51	345	1 1366								
			Open 126304 W 49 ST	345	126517	REACM51	345	1					-0.18885	-0.24552	-657.1	-1003.8
10619	1419.5	9284.8	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	59.4	-372.0	-0.30389		-0.30389	164.5	-266.8	
			C:GEN:NYPA_AS					1553								
			Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch									
			Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch									

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				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch						
10620	1420.3	9285.6	L:	126481 RAINEY8W 138 126507 VERNON-W	138	1		-59.6 372.0 0.30389		0.30389	-164.8	266.8		
			C:	GEN:NYPA_AS			1553							
				Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch						
				Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch						
				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch						
10621	1437.8	9303.1	L:	126601 REAC72 345 126641 MOTT HAVEN	345	4		765.2 1196.0 0.29962		0.25358	641.4	1006.0		
			C:	126298 SPRBROOK 345 126517 REACM51	345	SR 131								
				Open 126298 SPRBROOK	345	126517 REACM51	345 SR		0.18752	0.24552	660.3	1013.3		
10622	1437.8	9303.1	L:	126601 REAC72 345 126641 MOTT HAVEN	345	4		765.2 1196.0 0.29962		0.25358	641.4	1006.0		
			C:	126298 SPRBROOK 345 126518 REACM52	345	SR 132								
				Open 126298 SPRBROOK	345	126518 REACM52	345 SR		0.18752	0.24552	660.3	1013.3		
10623	1437.9	9303.1	L:	126266 DUNWODIE 345 126601 REAC72	345	SR		765.2 1196.0 0.29962		0.25358	641.4	1006.0		
			C:	126298 SPRBROOK 345 126517 REACM51	345	SR 131								
				Open 126298 SPRBROOK	345	126517 REACM51	345 SR		0.18752	0.24552	660.3	1013.3		
10624	1437.9	9303.1	L:	126266 DUNWODIE 345 126601 REAC72	345	SR		765.2 1196.0 0.29962		0.25358	641.4	1006.0		
			C:	126298 SPRBROOK 345 126518 REACM52	345	SR 132								
				Open 126298 SPRBROOK	345	126518 REACM52	345 SR		0.18752	0.24552	660.3	1013.3		
10625	1439.9	9305.2	L:	126601 REAC72 345 126641 MOTT HAVEN	345	4		764.6 1196.0 0.29962		0.25358	641.4	1006.5		
			C:	126304 W 49 ST 345 126518 REACM52	345	2 1367								
				Open 126304 W 49 ST	345	126518 REACM52	345 2		-0.18752	-0.24552	-657.1	-1010.6		
10626	1439.9	9305.2	L:	126601 REAC72 345 126641 MOTT HAVEN	345	4		764.6 1196.0 0.29962		0.25358	641.4	1006.5		
			C:	126304 W 49 ST 345 126517 REACM51	345	1 1366								
				Open 126304 W 49 ST	345	126517 REACM51	345 1		-0.18752	-0.24552	-657.1	-1010.6		
10627	1439.9	9305.2	L:	126266 DUNWODIE 345 126601 REAC72	345	SR		764.6 1196.0 0.29962		0.25358	641.4	1006.5		
			C:	126304 W 49 ST 345 126517 REACM51	345	1 1366								
				Open 126304 W 49 ST	345	126517 REACM51	345 1		-0.18752	-0.24552	-657.1	-1010.6		
10628	1439.9	9305.2	L:	126266 DUNWODIE 345 126601 REAC72	345	SR		764.6 1196.0 0.29962		0.25358	641.4	1006.5		
			C:	126304 W 49 ST 345 126518 REACM52	345	2 1367								
				Open 126304 W 49 ST	345	126518 REACM52	345 2		-0.18752	-0.24552	-657.1	-1010.6		
10629	1441.9	9307.2	L:	130750 COOPC345 345 130753 FRASR345	345	1		-994.4 -1207.0 -0.14746						
				Base Case										
10630	1458.7	9324.0	L:	126294 PLTVLLEY 345 137451 LEEDS 3	345	2		-1434.8 -1725.0 -0.19893		-0.17685	-1285.9	-1543.9		
			C:	130750 COOPC345 345 130753 FRASR345	345	1 192								
				Open 130750 COOPC345	345	130753 FRASR345	345 1		0.14972	-0.14746	-994.4	-1209.5		
10631	1462.7	9328.0	L:	126480 RAINEY8E 138 126561 8E DUM	138	1		211.2 -252.0 -0.31669						
				Base Case										
10632	1464.2	9329.5	L:	126480 RAINEY8E 138 126506 VERNON-E	138	1		-212.7 251.0 0.31669						
				Base Case										
10633	1466.1	9331.4	L:	126295 RAINEY 345 126562 8W DUM	138	8		-189.5 256.0 0.30389						
				Base Case										
10634	1484.4	9349.7	L:	126295 RAINEY 345 126561 8E DUM	138	8		-128.1 342.0 0.31669		0.31669	-236.1	234.0		
			C:	GEN:NYPA_AS			1553							
				Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch						
				Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch						
				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch						
10635	1485.0	9350.3	L:	126294 PLTVLLEY 345 137455 ATHENS	345	1		-1429.9 -1725.0 -0.19873		-0.16934	-1245.7	-1497.1		
			C:	125000 HURLEY 3 345 125002 ROSETON	345	1 1								

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			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.27915	0.10527	660.0	816.3
10636	1501.9	9367.2	L: 126295 RAINEY	345	126562 8W DUM	138	8	-84.4	372.0	0.30389		0.30389	-189.5	266.9
			C:GEN:NYPA_AS				1553							
			Remove unit 1 from bus 147788 POLETGT2	18.0	180.0 MW	dispatch								
			Remove unit 1 from bus 147789 POLETSTG	18.0	210.0 MW	dispatch								
			Remove unit 1 from bus 147790 POLETGT1	18.0	180.0 MW	dispatch								
10637	1503.8	9369.0	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-387.1	-783.0	-0.26326				
			Base Case											
10638	1541.2	9406.5	L: 126295 RAINEY	345	126561 8E DUM	138	8	-236.1	252.0	0.31669				
			Base Case											
10639	1576.5	9441.8	L: Interface 50 PJMCentral-C					-59.6	-0.0	0.03783		0.03318	-196.7	-144.4
			C:SER:HCWC/NWES				1607							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.22558	-0.03174	-544.6	-594.6	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.33367	-0.00753	42.6	30.7	
10640	1576.5	9441.8	L: Interface 49 C-PJMCentral					59.6	0.0	-0.03783		-0.03318	196.7	144.4
			C:SER:HCWC/NWES				1607							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.22558	-0.03174	-544.6	-594.6	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.33367	-0.00753	42.6	30.7	
10643	1597.2	9462.4	L: Interface 49 C-PJMCentral					64.3	0.0	-0.04027		-0.03318	196.7	143.7
			C:SER:HC-WC_30&W-F_171				1601							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.23847	-0.03174	-544.6	-595.2	
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.06952	0.00697	-36.2	-25.0	
10644	1597.2	9462.4	L: Interface 50 PJMCentral-C					-64.3	-0.0	0.04027		0.03318	-196.7	-143.7
			C:SER:HC-WC_30&W-F_171				1601							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.23847	-0.03174	-544.6	-595.2	
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.06952	0.00697	-36.2	-25.0	
10647	1612.8	9478.1	L: Interface 14 Leeds-PV					2822.1	3450.0	0.38928		0.34620	2531.6	3090.0
			C:130750 COOPC345	345	130753 FRASR345	345	1 192							
			Open 130750 COOPC345	345	130753 FRASR345	345	1			-0.29219	-0.14746	-994.4	-1232.2	
10648	1641.0	9506.3	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-606.4	-707.0	-0.06130		-0.03287	-447.6	-501.6
			C:SIN:440				1683							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14262	0.19936	1113.2	1440.4	
10649	1641.0	9506.3	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-606.4	-707.0	-0.06130		-0.03287	-447.6	-501.6
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14262	0.19936	1113.2	1440.4	
10650	1645.3	9510.5	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1353.4	-1724.0	-0.22523		-0.14425	-866.4	-1103.7
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2 1005							
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.56508	-0.14330	-861.9	-1097.6	
10651	1651.0	9516.3	L: Interface 50 PJMCentral-C					-67.2	-0.0	0.04073		0.03318	-196.7	-141.9
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.23770	-0.03174	-544.6	-597.0	
10652	1651.0	9516.3	L: Interface 49 C-PJMCentral					67.2	0.0	-0.04073		-0.03318	196.7	141.9
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.23770	-0.03174	-544.6	-597.0	
10655	1663.0	9528.3	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1350.4	-1724.0	-0.22464		-0.14330	-861.9	-1100.2
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1 1004							
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.56388	-0.14425	-866.4	-1106.3	
10656	1688.0	9553.3	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	192.6	-342.0	-0.31669		-0.31669	211.2	-323.4

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			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1364						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				-0.04045	0.00000	461.0	461.0
10657	1688.4	9553.7	L: 126480 RAINEY8E	138	126561 8E DUM	138	1		192.7	-342.0	-0.31669	-0.31669	211.2	-323.5
			C:BUS:TREMONT_345					1631						
			Open 126466 SECT 11	138	126470 38X01 T	138	1				-0.04045	-0.00000	114.4	114.4
			Open 126466 SECT 11	138	126471 38X02 T	138	1				-0.04045	0.00000	114.7	114.7
			Open 126462 PARK TR1	138	126466 SECT 11	138	1		NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1				-0.04045	0.00000	118.3	118.3
			Open 126467 SECT 12	138	126473 38X04 T	138	1				-0.04045	-0.00000	110.7	110.7
			Open 126463 PARK TR2	138	126467 SECT 12	138	1		NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1		NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1		NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				0.00392	0.00000	2.9	2.9
10658	1690.4	9555.7	L: 126480 RAINEY8E	138	126561 8E DUM	138	1		193.3	-342.0	-0.31669	-0.31669	211.2	-324.1
			C:SPRN-ACDMY					1778						
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1				-0.03882	0.00000	461.8	461.8
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1				-0.00000	-0.00000	-230.5	-230.5
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1				0.04276	0.00000	0.8	0.8
10659	1692.7	9558.0	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1		-194.1	342.0	0.31669	0.31669	-212.7	323.4
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1364						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				0.04045	0.00000	461.0	461.0
10660	1693.1	9558.4	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1		-194.2	342.0	0.31669	0.31669	-212.7	323.5
			C:BUS:TREMONT_345					1631						
			Open 126466 SECT 11	138	126470 38X01 T	138	1				0.04045	-0.00000	114.4	114.4
			Open 126466 SECT 11	138	126471 38X02 T	138	1				0.04045	0.00000	114.7	114.7
			Open 126462 PARK TR1	138	126466 SECT 11	138	1		NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1				0.04045	0.00000	118.3	118.3
			Open 126467 SECT 12	138	126473 38X04 T	138	1				0.04045	-0.00000	110.7	110.7
			Open 126463 PARK TR2	138	126467 SECT 12	138	1		NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1		NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1		NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				-0.00392	0.00000	2.9	2.9
10661	1695.1	9560.4	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1		-194.8	342.0	0.31669	0.31669	-212.7	324.1
			C:SPRN-ACDMY					1778						
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1				0.03882	0.00000	461.8	461.8
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1				0.00000	-0.00000	-230.5	-230.5
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1				-0.04276	0.00000	0.8	0.8
10662	1705.9	9571.2	L: 126481 RAINEY8W	138	126562 8W DUM	138	1		146.4	-372.0	-0.30389	-0.30389	164.5	-353.9
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1364						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				-0.03936	0.00000	461.0	461.0
10663	1706.3	9571.6	L: 126481 RAINEY8W	138	126562 8W DUM	138	1		146.5	-372.0	-0.30389	-0.30389	164.5	-354.0
			C:BUS:TREMONT_345					1631						
			Open 126466 SECT 11	138	126470 38X01 T	138	1				-0.03936	-0.00000	114.4	114.4
			Open 126466 SECT 11	138	126471 38X02 T	138	1				-0.03936	0.00000	114.7	114.7
			Open 126462 PARK TR1	138	126466 SECT 11	138	1		NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1				-0.03936	0.00000	118.3	118.3
			Open 126467 SECT 12	138	126473 38X04 T	138	1				-0.03936	-0.00000	110.7	110.7
			Open 126463 PARK TR2	138	126467 SECT 12	138	1		NA					

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			Open 126301 TREMONT	345	126462	PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463	PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1		0.00381	0.00000	2.9	2.9	
10664	1706.7	9572.0	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-146.6	372.0	0.30389	0.30389	-164.8	353.9
			C:126298 SPRBROOK	345	126301	TREMONT	345	1	1364					
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1		0.03936	0.00000	461.0	461.0	
10665	1707.1	9572.4	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-146.8	372.0	0.30389	0.30389	-164.8	354.0
			C:BUS:TREMONT_345						1631					
			Open 126466 SECT 11	138	126470	38X01 T	138	1		0.03936	-0.00000	114.4	114.4	
			Open 126466 SECT 11	138	126471	38X02 T	138	1		0.03936	0.00000	114.7	114.7	
			Open 126462 PARK TR1	138	126466	SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472	38X03 T	138	1		0.03936	0.00000	118.3	118.3	
			Open 126467 SECT 12	138	126473	38X04 T	138	1		0.03936	-0.00000	110.7	110.7	
			Open 126463 PARK TR2	138	126467	SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462	PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463	PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1		-0.00381	0.00000	2.9	2.9	
10666	1708.3	9573.6	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	147.1	-372.0	-0.30389	-0.30389	164.5	-354.6
			C:SPRN-ACDMY						1778					
			Open 126298 SPRBROOK	345	126847	ACADEMY	345	1		-0.03777	0.00000	461.8	461.8	
			Open 126780 SCK-PARW	138	126847	ACADEMY	345	1		0.00000	-0.00000	-230.5	-230.5	
			Open 126781 SCK-PARE	138	126847	ACADEMY	345	1		0.04161	0.00000	0.8	0.8	
10667	1709.1	9574.4	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-147.4	372.0	0.30389	0.30389	-164.8	354.6
			C:SPRN-ACDMY						1778					
			Open 126298 SPRBROOK	345	126847	ACADEMY	345	1		0.03777	0.00000	461.8	461.8	
			Open 126780 SCK-PARW	138	126847	ACADEMY	345	1		-0.00000	-0.00000	-230.5	-230.5	
			Open 126781 SCK-PARE	138	126847	ACADEMY	345	1		-0.04161	0.00000	0.8	0.8	
10668	1710.4	9575.6	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	4	-362.8	-783.0	-0.24571			
			Base Case											
10669	1725.4	9590.7	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	204.4	-342.0	-0.31669	-0.31669	211.2	-335.2
			C:126374 DUN SO1R	138	126385	E179 ST	138	1	1370					
			Open 126374 DUN SO1R	138	126385	E179 ST	138	1		-0.03414	0.00000	199.3	199.3	
10670	1728.1	9593.4	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	205.5	-342.0	-0.31684	-0.31669	211.2	-336.0
			C:SER:W90&W74						1583					
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1		0.00087	-0.18680	-988.7	-1311.5	
			Open 126342 W74 TAP	345	126368	DUN NO	138	1		-0.01608	-0.00056	300.2	299.3	
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1		-0.00056	0.00001	40.6	40.6	
			Open 126293 PL VILLW	345	126305	WOOD A	345	1		0.00318	0.00000	2.9	2.9	
10671	1730.0	9595.3	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	206.1	-342.0	-0.31684	-0.31669	211.2	-336.6
			C:SER:W89&W73						1584					
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1		0.00089	-0.18603	-1028.2	-1350.1	
			Open 126343 W73 TAP	345	126372	DUN SO	138	1		-0.01343	-0.00056	310.6	309.6	
10672	1730.1	9595.4	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-205.9	342.0	0.31669	0.31669	-212.7	335.2
			C:126374 DUN SO1R	138	126385	E179 ST	138	1	1370					
			Open 126374 DUN SO1R	138	126385	E179 ST	138	1		0.03414	0.00000	199.3	199.3	
10673	1730.3	9595.6	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	206.8	-342.0	-0.31717	-0.31669	211.2	-336.7
			C:SIN:120						1667					
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		-0.00323	0.07442	786.1	914.8	

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			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			-0.00323	0.07442	786.1	914.8		
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.00147	0.00000	39.7	39.7		
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch							
10674	1730.3	9595.6	L: 126480 RAINEY8E	138	126561	8E DUM	138	1			206.8	-342.0	-0.31717	-0.31669	211.2	-336.7
			C:SIN:130						1668							
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			-0.00323	0.07442	786.1	914.8		
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			-0.00323	0.07442	786.1	914.8		
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.00147	0.00000	39.7	39.7		
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch							
10675	1731.7	9597.0	*L: 126480 RAINEY8E	138	126561	8E DUM	138	1			206.4	-342.0	-0.31668	-0.31669	211.2	-337.2
			C:126266 DUNWODIE	345	126342	W74 TAP	345	1	93							
			Open 126266 DUNWODIE	345	126342	W74 TAP	345	1			-0.01609	-0.00056	301.1	300.1		
10677	1732.7	9598.0	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1			-207.0	342.0	0.31684	0.31669	-212.7	336.0
			C:SER:W90&W74						1583							
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1			-0.00087	-0.18680	-988.7	-1312.4		
			Open 126342 W74 TAP	345	126368	DUN NO	138	1			0.01608	-0.00056	300.2	299.3		
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1			0.00056	0.00001	40.6	40.6		
			Open 126293 PL VILLW	345	126305	WOOD A	345	1			-0.00318	0.00000	2.9	2.9		
10683	1734.7	9599.9	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1			-207.6	342.0	0.31684	0.31669	-212.7	336.6
			C:SER:W89&W73						1584							
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1			-0.00089	-0.18603	-1028.2	-1350.9		
			Open 126343 W73 TAP	345	126372	DUN SO	138	1			0.01343	-0.00056	310.6	309.6		
10684	1735.0	9600.2	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1			-208.3	342.0	0.31717	0.31669	-212.7	336.7
			C:SIN:130						1668							
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00323	0.07442	786.1	915.2		
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00323	0.07442	786.1	915.2		
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00147	0.00000	39.7	39.7		
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch							
10685	1735.0	9600.2	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1			-208.3	342.0	0.31717	0.31669	-212.7	336.7
			C:SIN:120						1667							
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00323	0.07442	786.1	915.2		
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00323	0.07442	786.1	915.2		
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00147	0.00000	39.7	39.7		
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch							
10691	1736.3	9601.6	*L: 126480 RAINEY8E	138	126506	VERNON-E	138	1			-207.9	342.0	0.31668	0.31669	-212.7	337.2
			C:126266 DUNWODIE	345	126342	W74 TAP	345	1	93							

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				Open 126266 DUNWODIE	345	126342	W74 TAP	345	1				0.01609	-0.00056	301.1	300.1
10774	1743.8	9609.1	L:	126481 RAINY8W	138	126562	8W DUM	138	1	157.9	-372.0	-0.30389		-0.30389	164.5	-365.4
			C:	126374 DUN SO1R	138	126385	E179 ST	138	1	1370						
				Open 126374 DUN SO1R	138	126385	E179 ST	138	1				-0.03322	0.00000	199.3	199.3
10798	1744.6	9609.9	L:	126481 RAINY8W	138	126507	VERNON-W	138	1	-158.2	372.0	0.30389		0.30389	-164.8	365.4
			C:	126374 DUN SO1R	138	126385	E179 ST	138	1	1370						
				Open 126374 DUN SO1R	138	126385	E179 ST	138	1				0.03322	0.00000	199.3	199.3
10879	1746.5	9611.8	L:	126481 RAINY8W	138	126562	8W DUM	138	1	159.0	-372.0	-0.30404		-0.30389	164.5	-366.2
			C:	SER:W90&W74					1583							
				Open 126266 DUNWODIE	345	126293	PL VILLW	345	1				0.00084	-0.18680	-988.7	-1315.0
				Open 126342 W74 TAP	345	126368	DUN NO	138	1				-0.01565	-0.00056	300.2	299.3
				Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1				-0.00055	0.00001	40.6	40.6
				Open 126293 PL VILLW	345	126305	WOOD A	345	1				0.00309	0.00000	2.9	2.9
12425	1747.3	9612.6	L:	126481 RAINY8W	138	126507	VERNON-W	138	1	-159.2	372.0	0.30404		0.30389	-164.8	366.2
			C:	SER:W90&W74					1583							
				Open 126266 DUNWODIE	345	126293	PL VILLW	345	1				-0.00084	-0.18680	-988.7	-1315.1
				Open 126342 W74 TAP	345	126368	DUN NO	138	1				0.01565	-0.00056	300.2	299.3
				Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1				0.00055	0.00001	40.6	40.6
				Open 126293 PL VILLW	345	126305	WOOD A	345	1				-0.00309	0.00000	2.9	2.9
12477	1748.4	9613.7	L:	126481 RAINY8W	138	126562	8W DUM	138	1	159.6	-372.0	-0.30404		-0.30389	164.5	-366.8
			C:	SER:W89&W73					1584							
				Open 126266 DUNWODIE	345	126292	PL VILLE	345	1				0.00086	-0.18603	-1028.2	-1353.5
				Open 126343 W73 TAP	345	126372	DUN SO	138	1				-0.01307	-0.00056	310.6	309.6
12491	1748.7	9614.0	L:	126481 RAINY8W	138	126562	8W DUM	138	1	160.2	-372.0	-0.30436		-0.30389	164.5	-366.9
			C:	SIN:120					1667							
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1				-0.00314	0.07442	786.1	916.2
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2				-0.00314	0.07442	786.1	916.2
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				0.00142	0.00000	39.7	39.7
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1						NA	
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1						NA	
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2						NA	
				Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch						
12492	1748.7	9614.0	L:	126481 RAINY8W	138	126562	8W DUM	138	1	160.2	-372.0	-0.30436		-0.30389	164.5	-366.9
			C:	SIN:130					1668							
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1				-0.00314	0.07442	786.1	916.2
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2				-0.00314	0.07442	786.1	916.2
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				0.00142	0.00000	39.7	39.7
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1						NA	
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1						NA	
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2						NA	
				Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch						
12510	1749.3	9614.5	L:	126481 RAINY8W	138	126507	VERNON-W	138	1	-159.8	372.0	0.30404		0.30389	-164.8	366.8
			C:	SER:W89&W73					1584							
				Open 126266 DUNWODIE	345	126292	PL VILLE	345	1				-0.00086	-0.18603	-1028.2	-1353.6
				Open 126343 W73 TAP	345	126372	DUN SO	138	1				0.01307	-0.00056	310.6	309.6
12519	1749.6	9614.8	L:	126481 RAINY8W	138	126507	VERNON-W	138	1	-160.5	372.0	0.30436		0.30389	-164.8	366.9
			C:	SIN:130					1668							
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1				0.00314	0.07442	786.1	916.3

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			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00314	0.07442	786.1	916.3		
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00142	0.00000	39.7	39.7		
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1		NA						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		NA						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		NA						
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch							
12520	1749.6	9614.8	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1			-160.5	372.0	0.30436	0.30389	-164.8	366.9
			C:SIN:120													1667
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00314	0.07442	786.1	916.3		
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00314	0.07442	786.1	916.3		
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00142	0.00000	39.7	39.7		
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1		NA						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		NA						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		NA						
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch							
12541	1750.1	9615.4	*L: 126481 RAINEY8W	138	126562	8W DUM	138	1			159.8	-372.0	-0.30388	-0.30389	164.5	-367.3
			C:126266 DUNWODIE	345	126342	W74 TAP	345	1		93						
			Open 126266 DUNWODIE	345	126342	W74 TAP	345	1			-0.01566	-0.00056	301.1	300.1		
12581	1751.0	9616.2	*L: 126481 RAINEY8W	138	126507	VERNON-W	138	1			-160.1	372.0	0.30388	0.30389	-164.8	367.3
			C:126266 DUNWODIE	345	126342	W74 TAP	345	1		93						
			Open 126266 DUNWODIE	345	126342	W74 TAP	345	1			0.01566	-0.00056	301.1	300.1		
17513	1766.5	9631.8	L: 126295 RAINEY	345	126561	8E DUM	138	8			-217.4	342.0	0.31669	0.31669	-236.1	323.4
			C:126298 SPRBROOK	345	126301	TREMONT	345	1		1364						
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1			0.04045	0.00000	461.0	461.0		
17617	1766.9	9632.2	L: 126295 RAINEY	345	126561	8E DUM	138	8			-217.6	342.0	0.31669	0.31669	-236.1	323.5
			C:BUS:TREMONT_345													1631
			Open 126466 SECT 11	138	126470	38X01 T	138	1			0.04045	-0.00000	114.4	114.4		
			Open 126466 SECT 11	138	126471	38X02 T	138	1			0.04045	0.00000	114.7	114.7		
			Open 126462 PARK TR1	138	126466	SECT 11	138	1		NA						
			Open 126467 SECT 12	138	126472	38X03 T	138	1			0.04045	0.00000	118.3	118.3		
			Open 126467 SECT 12	138	126473	38X04 T	138	1			0.04045	-0.00000	110.7	110.7		
			Open 126463 PARK TR2	138	126467	SECT 12	138	1		NA						
			Open 126301 TREMONT	345	126462	PARK TR1	138	1		NA						
			Open 126301 TREMONT	345	126463	PARK TR2	138	1		NA						
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1			-0.00392	0.00000	2.9	2.9		
17664	1768.9	9634.2	L: 126295 RAINEY	345	126561	8E DUM	138	8			-218.2	342.0	0.31669	0.31669	-236.1	324.1
			C:SPRN-ACDMY													1778
			Open 126298 SPRBROOK	345	126847	ACADEMY	345	1			0.03882	0.00000	461.8	461.8		
			Open 126780 SCK-PARW	138	126847	ACADEMY	345	1			0.00000	-0.00000	-230.5	-230.5		
			Open 126781 SCK-PARE	138	126847	ACADEMY	345	1			-0.04276	0.00000	0.8	0.8		
17668	1770.7	9635.9	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2			-1400.4	-1725.0	-0.18334	-0.17685	-1285.9	-1599.1
			C:SIN:130													1668
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			-0.04357	0.07442	786.1	917.8		
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			-0.04357	0.07442	786.1	917.8		
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.04278	0.00000	39.7	39.7		
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1		NA						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		NA						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		NA						

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Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch													
17669	1770.7	9635.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1400.4	-1725.0	-0.18334	-0.17685	-1285.9	-1599.1
C:SIN:120 1667													
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1	-0.04357	0.07442	786.1	917.8		
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2	-0.04357	0.07442	786.1	917.8		
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1	0.04278	0.00000	39.7	39.7		
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA			
Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch													
17679	1773.9	9639.2	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1387.3	-1725.0	-0.19035	-0.16934	-1245.7	-1546.1
C:130750 COOPC345 345 130753 FRASR345 345 1 192													
			Open 130750 COOPC345	345	130753 FRASR345	345	1	0.14248	-0.14746	-994.4	-1256.0		
17691	1788.1	9653.4	L: 126295 RAINEY	345	126562 8W DUM	138	8	-171.4	372.0	0.30389	0.30389	-189.5	353.9
C:126298 SPRBROOK 345 126301 TREMONT 345 1 1364													
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1	0.03936	0.00000	461.0	461.0		
17692	1788.5	9653.8	L: 126295 RAINEY	345	126562 8W DUM	138	8	-171.5	372.0	0.30389	0.30389	-189.5	354.0
C:BUS:TREMONT_345 1631													
			Open 126466 SECT 11	138	126470 38X01 T	138	1	0.03936	-0.00000	114.4	114.4		
			Open 126466 SECT 11	138	126471 38X02 T	138	1	0.03936	0.00000	114.7	114.7		
			Open 126462 PARK TR1	138	126466 SECT 11	138	1			NA			
			Open 126467 SECT 12	138	126472 38X03 T	138	1	0.03936	0.00000	118.3	118.3		
			Open 126467 SECT 12	138	126473 38X04 T	138	1	0.03936	-0.00000	110.7	110.7		
			Open 126463 PARK TR2	138	126467 SECT 12	138	1			NA			
			Open 126301 TREMONT	345	126462 PARK TR1	138	1			NA			
			Open 126301 TREMONT	345	126463 PARK TR2	138	1			NA			
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1	-0.00381	0.00000	2.9	2.9		
17693	1790.5	9655.8	L: 126295 RAINEY	345	126562 8W DUM	138	8	-172.1	372.0	0.30389	0.30389	-189.5	354.6
C:SPRN-ACDMY 1778													
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1	0.03777	0.00000	461.8	461.8		
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1	-0.00000	-0.00000	-230.5	-230.5		
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1	-0.04161	0.00000	0.8	0.8		
17694	1795.2	9660.5	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-237.1	-317.0	-0.04451	-0.02745	-161.3	-210.6
C:125001 ROCK TAV 345 146754 MDTN TAP 345 1 9													
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1	0.17871	-0.09543	-424.0	-595.3		
17695	1803.9	9669.2	L: 126295 RAINEY	345	126561 8E DUM	138	8	-229.3	342.0	0.31669	0.31669	-236.1	335.2
C:126374 DUN SO1R 138 126385 E179 ST 138 1 1370													
			Open 126374 DUN SO1R	138	126385 E179 ST	138	1	0.03414	0.00000	199.3	199.3		
17698	1806.5	9671.8	L: 126295 RAINEY	345	126561 8E DUM	138	8	-230.4	342.0	0.31684	0.31669	-236.1	336.0
C:SER:W90&W74 1583													
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1	-0.00087	-0.18680	-988.7	-1326.2		
			Open 126342 W74 TAP	345	126368 DUN NO	138	1	0.01608	-0.00056	300.2	299.2		
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1	0.00056	0.00001	40.6	40.6		
			Open 126293 PL VILLW	345	126305 WOOD A	345	1	-0.00318	0.00000	2.9	2.9		
17701	1808.4	9673.7	L: 126295 RAINEY	345	126561 8E DUM	138	8	-231.0	342.0	0.31684	0.31669	-236.1	336.6
C:SER:W89&W73 1584													
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1	-0.00089	-0.18603	-1028.2	-1364.6		
			Open 126343 W73 TAP	345	126372 DUN SO	138	1	0.01343	-0.00056	310.6	309.6		

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17702	1808.7	9674.0	L: 126295 RAINNEY	345	126561	8E DUM	138	8	-231.6	342.0	0.31717	0.31669	-236.1	336.7
			C:SIN:130					1668						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00323	0.07442	786.1	920.7
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00323	0.07442	786.1	920.7
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00147	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		NA				
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch				
17703	1808.7	9674.0	L: 126295 RAINNEY	345	126561	8E DUM	138	8	-231.6	342.0	0.31717	0.31669	-236.1	336.7
			C:SIN:120					1667						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00323	0.07442	786.1	920.7
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00323	0.07442	786.1	920.7
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00147	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		NA				
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch				
17704	1810.1	9675.4	*L: 126295 RAINNEY	345	126561	8E DUM	138	8	-231.2	342.0	0.31668	0.31669	-236.1	337.2
			C:126266 DUNWODIE	345	126342	W74 TAP	345	1						
			Open 126266 DUNWODIE	345	126342	W74 TAP	345	1			0.01609	-0.00056	301.1	300.1
19422	1826.0	9691.3	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-182.9	372.0	0.30389	0.30389	-189.5	365.4
			C:126374 DUN SO1R	138	126385	E179 ST	138	1						
			Open 126374 DUN SO1R	138	126385	E179 ST	138	1			0.03322	0.00000	199.3	199.3
19461	1828.7	9694.0	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-184.0	372.0	0.30404	0.30389	-189.5	366.2
			C:SER:W90&W74					1583						
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1			-0.00084	-0.18680	-988.7	-1330.3
			Open 126342 W74 TAP	345	126368	DUN NO	138	1			0.01565	-0.00056	300.2	299.2
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1			0.00055	0.00001	40.6	40.6
			Open 126293 PL VILLW	345	126305	WOOD A	345	1			-0.00309	0.00000	2.9	2.9
19465	1830.6	9695.9	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-184.6	372.0	0.30404	0.30389	-189.5	366.8
			C:SER:W89&W73					1584						
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1			-0.00086	-0.18603	-1028.2	-1368.8
			Open 126343 W73 TAP	345	126372	DUN SO	138	1			0.01307	-0.00056	310.6	309.6
19466	1830.8	9696.1	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-185.2	372.0	0.30436	0.30389	-189.5	366.8
			C:SIN:120					1667						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00314	0.07442	786.1	922.3
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00314	0.07442	786.1	922.3
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00142	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		NA				
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch				
19467	1830.8	9696.1	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-185.2	372.0	0.30436	0.30389	-189.5	366.8
			C:SIN:130					1668						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00314	0.07442	786.1	922.3
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00314	0.07442	786.1	922.3
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00142	0.00000	39.7	39.7

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				Open 126263 BUCHANAN S	345	147832	IP3	345	345	1	NA								
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA								
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA								
				Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch								
19471	1832.4	9697.6	*L:	126295 RAINY	345	126562	8W	DUM	138	8		-184.8	372.0	0.30388		0.30389	-189.5	367.3	
				C:126266 DUNWODIE	345	126342	W74	TAP	345	1	93								
				Open 126266 DUNWODIE	345	126342	W74	TAP	345	1						0.01566	-0.00056	301.1	300.1
19480	1834.8	9700.1	L:	Interface	32	F-To-G						3723.2	4643.0	0.50133					
				Base Case															
19508	1842.3	9707.6	L:	126274 E13ST	47	345	126277	FARRAGUT	345	1		-287.9	-398.0	-0.05976					
				Base Case															
21241	1902.3	9767.6	L:	126385 E179	ST	138	126445	HG	4	138	1	64.3	179.0	0.06032					
				Base Case															
21242	1902.8	9768.1	L:	126385 E179	ST	138	126442	HG	1	138	1	64.2	179.0	0.06035					
				Base Case															
21255	1927.9	9793.2	L:	125002 ROSETON	345	126281	FISHKILL		345	1		1505.0	1935.0	0.22303					
				Base Case															
21256	1937.0	9802.3	L:	Interface	14	Leeds-PV						2754.9	3450.0	0.35885		0.34620	2531.6	3202.2	
				C:SIN:130							1668								
				Open 126263 BUCHANAN S	345	126291	MILLWOOD		345	1						0.08503	0.07442	786.1	930.2
				Open 126263 BUCHANAN S	345	126291	MILLWOOD		345	2						0.08503	0.07442	786.1	930.2
				Open 126263 BUCHANAN S	345	126290	LADENTWN		345	1						-0.08350	0.00000	39.7	39.7
				Open 126263 BUCHANAN S	345	147832	IP3	345	345	1	NA								
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA								
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA								
				Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch								
21257	1937.0	9802.3	L:	Interface	14	Leeds-PV						2754.9	3450.0	0.35885		0.34620	2531.6	3202.2	
				C:SIN:120							1667								
				Open 126263 BUCHANAN S	345	126291	MILLWOOD		345	1						0.08503	0.07442	786.1	930.2
				Open 126263 BUCHANAN S	345	126291	MILLWOOD		345	2						0.08503	0.07442	786.1	930.2
				Open 126263 BUCHANAN S	345	126290	LADENTWN		345	1						-0.08350	0.00000	39.7	39.7
				Open 126263 BUCHANAN S	345	147832	IP3	345	345	1	NA								
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA								
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA								
				Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch								
21258	1966.0	9831.3	*L:	126294 PLTVLLEY	345	137451	LEEDS	3	345	2		-1358.0	-1725.0	-0.18669		-0.17685	-1285.9	-1633.6	
				C:SER:CMT34&MTR34							1593								
				Open 130750 COOPC345	345	146754	MDTN	TAP	345	1						-0.09363	0.12830	872.3	1124.5
				Open 125001 ROCK TAV	345	146754	MDTN	TAP	345	1						-0.02277	-0.09543	-424.0	-611.6
21260	1990.4	9855.6	L:	126274 E13ST	47	345	126870	TX17	T	69.0	17	157.6	272.0	0.05749					
				Base Case															
21268	2033.9	9899.1	L:	126600 REAC71	345	126641	MOTT	HAVEN	345	3		676.6	1196.0	0.25539		0.25539	645.8	1165.2	
				C:GEN:NYPA_AS							1553								
				Remove unit 1 from bus	147788	POLETGT2			18.0	180.0	MW	dispatch							
				Remove unit 1 from bus	147789	POLETSTG			18.0	210.0	MW	dispatch							
				Remove unit 1 from bus	147790	POLETGT1			18.0	180.0	MW	dispatch							
21269	2033.9	9899.1	L:	126266 DUNWODIE	345	126600	REAC71		345	SR		676.6	1196.0	0.25539		0.25539	645.8	1165.2	
				C:GEN:NYPA_AS							1553								

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				Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch							
				Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch							
				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch							
21270	2035.5	9900.8	L:	126600 REAC71	345	126641	MOTT HAVEN	345	3	685.4	1196.0	0.25087	0.25539	645.8	1165.6
				C:GEN:RAVNDW 3-New					1774						
				Open 126652 RAV 3	22.0	126865	RAV3 60M	345	2	-0.00000	-0.05438			476.0	365.3
				Open 126652 RAV 3	22.0	126866	RAV3 60L	345	1	-0.04157	0.10875			-952.0	-730.6
21271	2035.5	9900.8	L:	126266 DUNWODIE	345	126600	REAC71	345	SR	685.4	1196.0	0.25087	0.25539	645.8	1165.6
				C:GEN:RAVNDW 3-New					1774						
				Open 126652 RAV 3	22.0	126865	RAV3 60M	345	2	-0.00000	-0.05438			476.0	365.3
				Open 126652 RAV 3	22.0	126866	RAV3 60L	345	1	-0.04157	0.10875			-952.0	-730.6
21272	2035.9	9901.2	L:	126600 REAC71	345	126641	MOTT HAVEN	345	3	676.4	1196.0	0.25522	0.25539	645.8	1165.7
				C:SIN:360					1681						
				Open 4996 LINDEN	230	126321	GOETHALS	230	1	0.08743	0.00000			334.7	334.7
				Open 126282 FRESH KILLS	345	126283	GOTHLS N	345	1	0.00014	-0.02632			-25.7	-79.3
				Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1	0.00301	-0.05423			444.2	333.8
21273	2035.9	9901.2	L:	126266 DUNWODIE	345	126600	REAC71	345	SR	676.4	1196.0	0.25522	0.25539	645.8	1165.7
				C:SIN:360					1681						
				Open 4996 LINDEN	230	126321	GOETHALS	230	1	0.08743	0.00000			334.7	334.7
				Open 126282 FRESH KILLS	345	126283	GOTHLS N	345	1	0.00014	-0.02632			-25.7	-79.3
				Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1	0.00301	-0.05423			444.2	333.8
21275	2042.0	9907.3	L:	130750 COOPC345	345	130753	FRASR345	345	1	-1314.7	-1703.0	-0.19017	-0.14746	-994.4	-1295.5
				C:130750 COOPC345	345	147833	MARCY T1	345	1	196					
				Open 130750 COOPC345	345	147833	MARCY T1	345	1	0.43391	-0.09842			-738.2	-939.1
21276	2047.7	9913.0	*L:	126600 REAC71	345	126641	MOTT HAVEN	345	3	665.7	1196.0	0.25896	0.25539	645.8	1168.7
				C:125001 ROCK TAV	345	126297	RAMAPO	345	1	7					
				Open 125001 ROCK TAV	345	126297	RAMAPO	345	1	0.01791	0.19936			1113.2	1521.4
21278	2047.7	9913.0	*L:	126266 DUNWODIE	345	126600	REAC71	345	SR	665.7	1196.0	0.25896	0.25539	645.8	1168.7
				C:125001 ROCK TAV	345	126297	RAMAPO	345	1	7					
				Open 125001 ROCK TAV	345	126297	RAMAPO	345	1	0.01791	0.19936			1113.2	1521.4
21287	2066.6	9931.9	L:	126601 REAC72	345	126641	MOTT HAVEN	345	4	671.9	1196.0	0.25358	0.25358	641.4	1165.4
				C:GEN:NYPA_AS					1553						
				Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch							
				Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch							
				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch							
21288	2066.6	9931.9	L:	126266 DUNWODIE	345	126601	REAC72	345	SR	671.9	1196.0	0.25358	0.25358	641.4	1165.4
				C:GEN:NYPA_AS					1553						
				Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch							
				Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch							
				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch							
21289	2068.7	9934.0	L:	126601 REAC72	345	126641	MOTT HAVEN	345	4	671.7	1196.0	0.25341	0.25358	641.4	1166.0
				C:SIN:360					1681						
				Open 4996 LINDEN	230	126321	GOETHALS	230	1	0.08681	0.00000			334.7	334.7
				Open 126282 FRESH KILLS	345	126283	GOTHLS N	345	1	0.00014	-0.02632			-25.7	-80.2
				Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1	0.00299	-0.05423			444.2	332.0
21290	2068.8	9934.0	L:	126266 DUNWODIE	345	126601	REAC72	345	SR	671.7	1196.0	0.25341	0.25358	641.4	1166.0
				C:SIN:360					1681						
				Open 4996 LINDEN	230	126321	GOETHALS	230	1	0.08681	0.00000			334.7	334.7

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			Open 126282 FRESH KILLS	345	126283 GOTHLS N	345	1				0.00014	-0.02632	-25.7	-80.2
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1				0.00299	-0.05423	444.2	332.0
21291	2068.8	9934.1	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	680.7	1196.0	0.24909		0.25358	641.4	1166.0
			C:GEN:RAVNWD 3-New											
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2				-0.00000	-0.05438	476.0	363.5
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1				-0.04128	0.10875	-952.0	-727.0
21292	2068.8	9934.1	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	680.7	1196.0	0.24909		0.25358	641.4	1166.0
			C:GEN:RAVNWD 3-New											
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2				-0.00000	-0.05438	476.0	363.5
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1				-0.04128	0.10875	-952.0	-727.0
21294	2080.0	9945.3	*L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	661.2	1196.0	0.25713		0.25358	641.4	1168.8
			C:SIN:440											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.01779	0.19936	1113.2	1527.9
21296	2080.0	9945.3	*L: 126266 DUNWODIE	345	126601 REAC72	345	SR	661.2	1196.0	0.25713		0.25358	641.4	1168.8
			C:SIN:440											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.01779	0.19936	1113.2	1527.9
21298	2081.5	9946.7	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1690.1	2283.0	0.28485		0.19936	1113.2	1528.2
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.38331	0.22303	1505.0	1969.2
21299	2081.5	9946.7	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1690.1	2283.0	0.28485		0.19936	1113.2	1528.2
			C:SIN:430											
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.38331	0.22303	1505.0	1969.2
21332	2110.7	9976.0	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1354.5	-1725.0	-0.17551		-0.16934	-1245.7	-1603.1
			C:SIN:130											
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				-0.04146	0.07442	786.1	943.1
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				-0.04146	0.07442	786.1	943.1
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				0.04071	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2							
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1072.8 MW	dispatch							
21333	2110.7	9976.0	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1354.5	-1725.0	-0.17551		-0.16934	-1245.7	-1603.1
			C:SIN:120											
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				-0.04146	0.07442	786.1	943.1
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				-0.04146	0.07442	786.1	943.1
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				0.04071	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2							
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1072.8 MW	dispatch							
21372	2128.8	9994.1	L: Interface 14 Leeds-PV					2672.1	3450.0	0.36540		0.34620	2531.6	3268.6
			C:SER:CMT34&MTR34											
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				0.18273	0.12830	872.3	1145.4
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.04444	-0.09543	-424.0	-627.1
21385	2130.8	9996.1	L: Interface 14 Leeds-PV					2672.3	3450.0	0.36496		0.34620	2531.6	3269.3
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1				-0.19065	-0.09842	-738.2	-947.9
21443	2144.4	10009.6	L: Interface 49 C-PJMCentral					68.1	0.0	-0.03175		-0.03318	196.7	125.5

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			C:BUS:WATERCURE_345		1632							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.14494	-0.03174	-544.6 -612.6
			Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.20645	-0.02924	256.9 194.2
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.14892	0.00000	22.5 22.5
21444	2144.4	10009.6	L: Interface 50 PJMCentral-C						-68.1	-0.0	0.03175	0.03318 -196.7 -125.5
			C:BUS:WATERCURE_345									1632
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.14494	-0.03174	-544.6 -612.6
			Open 130757 WATRC345	345	130768	WATRC230	230	1		0.20645	-0.02924	256.9 194.2
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.14892	0.00000	22.5 22.5
21475	2146.6	10011.9	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	797.5	1434.0	0.29652	0.24552 660.3 1187.3
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 131				
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR		0.20773	0.24552	660.3 1187.3
21476	2146.6	10011.9	L: 126298 SPRBROOK	345	126517	REACM51	345	SR	797.5	1434.0	0.29652	0.24552 660.3 1187.3
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 132				
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR		0.20773	0.24552	660.3 1187.3
21492	2148.9	10014.2	L: 126298 SPRBROOK	345	126517	REACM51	345	SR	796.8	1434.0	0.29652	0.24552 660.3 1187.9
			C:126304 W 49 ST	345	126518	REACM52	345	2 1367				
			Open 126304 W 49 ST	345	126518	REACM52	345	2		-0.20773	-0.24552	-657.1 -1184.7
21493	2148.9	10014.2	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	796.8	1434.0	0.29652	0.24552 660.3 1187.9
			C:126304 W 49 ST	345	126517	REACM51	345	1 1366				
			Open 126304 W 49 ST	345	126517	REACM51	345	1		-0.20773	-0.24552	-657.1 -1184.7
24481	2157.5	10022.8	L: 126304 W 49 ST	345	126517	REACM51	345	1	-794.3	-1434.0	-0.29652	-0.24552 -657.1 -1186.8
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 132				
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR		-0.20773	0.24552	660.3 1190.0
24482	2157.5	10022.8	L: 126304 W 49 ST	345	126518	REACM52	345	2	-794.3	-1434.0	-0.29652	-0.24552 -657.1 -1186.8
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 131				
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR		-0.20773	0.24552	660.3 1190.0
24547	2159.8	10025.1	L: 126304 W 49 ST	345	126518	REACM52	345	2	-793.6	-1434.0	-0.29652	-0.24552 -657.1 -1187.3
			C:126304 W 49 ST	345	126517	REACM51	345	1 1366				
			Open 126304 W 49 ST	345	126517	REACM51	345	1		0.20773	-0.24552	-657.1 -1187.3
24548	2159.8	10025.1	L: 126304 W 49 ST	345	126517	REACM51	345	1	-793.6	-1434.0	-0.29652	-0.24552 -657.1 -1187.3
			C:126304 W 49 ST	345	126518	REACM52	345	2 1367				
			Open 126304 W 49 ST	345	126518	REACM52	345	2		0.20773	-0.24552	-657.1 -1187.3
24797	2181.5	10046.7	*L: Interface 14 Leeds-PV						2655.1	3450.0	0.36437	0.34620 2531.6 3286.8
			C:130750 COOPC345	345	146754	MDTN TAP	345	1 195				
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1		0.14164	0.12830	872.3 1152.2
24912	2184.7	10050.0	L: 130750 COOPC345	345	146754	MDTN TAP	345	1	1347.9	1793.0	0.20373	0.12830 872.3 1152.6
			C:125001 ROCK TAV	345	130750	COOPC345	345	2 8				
			Open 125001 ROCK TAV	345	130750	COOPC345	345	2		-0.64149	-0.11758	-741.5 -998.3
25918	2187.2	10052.5	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-515.7	-1196.0	-0.31105	-0.26326 -387.1 -962.9
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 131				
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR		-0.19468	0.24552	660.3 1197.3
25921	2187.2	10052.5	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-515.7	-1196.0	-0.31105	-0.26326 -387.1 -962.9
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 132				
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR		-0.19468	0.24552	660.3 1197.3
27733	2189.2	10054.5	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-515.0	-1196.0	-0.31105	-0.26326 -387.1 -963.4
			C:126304 W 49 ST	345	126518	REACM52	345	2 1367				
			Open 126304 W 49 ST	345	126518	REACM52	345	2		0.19468	-0.24552	-657.1 -1194.6

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27734	2189.2	10054.5	L: 126295 RAINERY	345	126641	MOTT HAVEN	345	3	-515.0	-1196.0	-0.31105	-0.26326	-387.1	-963.4
			C:126304 W 49 ST	345	126517	REACM51	345	1 1366						
			Open 126304 W 49 ST		345	126517	REACM51	345	1			0.19468	-0.24552	-657.1 -1194.6
28032	2209.0	10074.3	L: 126434 GRENWOOD	138	126454	KENTTAP	138	1	-116.3	-188.0	-0.03247			
			Base Case											
28113	2233.5	10098.8	L: 126298 SPRBROOK	345	126517	REACM51	345	SR	780.0	1434.0	0.29283	0.24552	660.3	1208.7
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3 1371						
			Open 126600 REAC71		345	126641	MOTT HAVEN	345	3			0.18528	0.25539	645.8 1216.2
28114	2233.5	10098.8	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	780.0	1434.0	0.29283	0.24552	660.3	1208.7
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3 1371						
			Open 126600 REAC71		345	126641	MOTT HAVEN	345	3			0.18528	0.25539	645.8 1216.2
28115	2233.5	10098.8	L: 126298 SPRBROOK	345	126517	REACM51	345	SR	780.0	1434.0	0.29283	0.24552	660.3	1208.7
			C:126266 DUNWODIE	345	126600	REAC71	345	SR 95						
			Open 126266 DUNWODIE		345	126600	REAC71	345	SR			0.18528	0.25539	645.8 1216.2
28116	2233.5	10098.8	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	780.0	1434.0	0.29283	0.24552	660.3	1208.7
			C:126266 DUNWODIE	345	126600	REAC71	345	SR 95						
			Open 126266 DUNWODIE		345	126600	REAC71	345	SR			0.18528	0.25539	645.8 1216.2
28153	2240.0	10105.3	L: 126298 SPRBROOK	345	126517	REACM51	345	SR	779.0	1434.0	0.29242	0.24552	660.3	1210.3
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4 1372						
			Open 126601 REAC72		345	126641	MOTT HAVEN	345	4			0.18498	0.25358	641.4 1209.4
28154	2240.0	10105.3	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	779.0	1434.0	0.29242	0.24552	660.3	1210.3
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4 1372						
			Open 126601 REAC72		345	126641	MOTT HAVEN	345	4			0.18498	0.25358	641.4 1209.4
28155	2240.1	10105.3	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	779.0	1434.0	0.29242	0.24552	660.3	1210.3
			C:126266 DUNWODIE	345	126601	REAC72	345	SR 96						
			Open 126266 DUNWODIE		345	126601	REAC72	345	SR			0.18498	0.25358	641.4 1209.4
28156	2240.1	10105.3	L: 126298 SPRBROOK	345	126517	REACM51	345	SR	779.0	1434.0	0.29242	0.24552	660.3	1210.3
			C:126266 DUNWODIE	345	126601	REAC72	345	SR 96						
			Open 126266 DUNWODIE		345	126601	REAC72	345	SR			0.18498	0.25358	641.4 1209.4
28180	2244.5	10109.8	L: 126304 W 49 ST	345	126518	REACM52	345	2	-776.7	-1434.0	-0.29283	-0.24552	-657.1	-1208.1
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3 1371						
			Open 126600 REAC71		345	126641	MOTT HAVEN	345	3			-0.18528	0.25539	645.8 1219.0
28181	2244.5	10109.8	L: 126304 W 49 ST	345	126517	REACM51	345	1	-776.7	-1434.0	-0.29283	-0.24552	-657.1	-1208.1
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3 1371						
			Open 126600 REAC71		345	126641	MOTT HAVEN	345	3			-0.18528	0.25539	645.8 1219.0
28182	2244.5	10109.8	L: 126304 W 49 ST	345	126518	REACM52	345	2	-776.7	-1434.0	-0.29283	-0.24552	-657.1	-1208.1
			C:126266 DUNWODIE	345	126600	REAC71	345	SR 95						
			Open 126266 DUNWODIE		345	126600	REAC71	345	SR			-0.18528	0.25539	645.8 1219.0
28183	2244.5	10109.8	L: 126304 W 49 ST	345	126517	REACM51	345	1	-776.7	-1434.0	-0.29283	-0.24552	-657.1	-1208.1
			C:126266 DUNWODIE	345	126600	REAC71	345	SR 95						
			Open 126266 DUNWODIE		345	126600	REAC71	345	SR			-0.18528	0.25539	645.8 1219.0
28202	2251.1	10116.4	L: 126304 W 49 ST	345	126517	REACM51	345	1	-775.7	-1434.0	-0.29242	-0.24552	-657.1	-1209.8
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4 1372						
			Open 126601 REAC72		345	126641	MOTT HAVEN	345	4			-0.18498	0.25358	641.4 1212.2
28203	2251.1	10116.4	L: 126304 W 49 ST	345	126518	REACM52	345	2	-775.7	-1434.0	-0.29242	-0.24552	-657.1	-1209.8
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4 1372						
			Open 126601 REAC72		345	126641	MOTT HAVEN	345	4			-0.18498	0.25358	641.4 1212.2
28204	2251.1	10116.4	L: 126304 W 49 ST	345	126517	REACM51	345	1	-775.7	-1434.0	-0.29242	-0.24552	-657.1	-1209.8

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			C:126266 DUNWODIE	345	126601 REAC72	345	SR	96											
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR												
28205	2251.1	10116.4	L: 126304 W 49 ST	345	126518 REACM52	345	2												
			C:126266 DUNWODIE	345	126601 REAC72	345	SR	96											
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR												
28251	2277.2	10142.5	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1												
			C:SIN:440					1683											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
28252	2277.2	10142.5	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1												
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
28284	2298.8	10164.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1												
			C:SER:CMT34&MTR34					1593											
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1												
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1												
28297	2301.1	10166.4	*L: 126294 PLTVLLEY	345	137455 ATHENS	345	1												
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196											
			Open 130750 COOPC345	345	147833 MARCY T1	345	1												
28385	2381.1	10246.4	L: 126353 ASTORIA WEST	138	126446 HG 5	138	1												
			Base Case																
28410	2404.1	10269.4	L: 126274 E13ST 47	345	126870 TX17 T	69.0	17												
			C:BUS:E13TH_48_345					1630											
			Open 126275 E13ST 48	345	126277 FARRAGUT	345	1												
			Open 126275 E13ST 48	345	126499 T11MPT	138	11												
			Open 126275 E13ST 48	345	126867 TX10 T	138	10												
28421	2409.8	10275.1	L: 126274 E13ST 47	345	126870 TX17 T	69.0	17												
			C:BUS:E13TH_45_345					1627											
			Open 126272 E13ST 45	345	126277 FARRAGUT	345	1												
			Open 126272 E13ST 45	345	126304 W 49 ST	345	1												
			Open 126272 E13ST 45	345	126495 T14MPT	138	14												
			Open 126272 E13ST 45	345	126871 TX15 T	138	15												
28422	2412.0	10277.2	L: 126274 E13ST 47	345	126870 TX17 T	69.0	17												
			C:BUS:E13TH_46_345					1628											
			Open 126273 E13ST 46	345	126277 FARRAGUT	345	1												
			Open 126273 E13ST 46	345	126304 W 49 ST	345	1												
			Open 126273 E13ST 46	345	126497 T13MPT	138	13												
			Open 126273 E13ST 46	345	126873 TX12 T	138	12												
28463	2451.1	10316.4	L: 130750 COOPC345	345	147833 MARCY T1	345	1												
			C:130750 COOPC345	345	130753 FRASR345	345	1	192											
			Open 130750 COOPC345	345	130753 FRASR345	345	1												
28476	2456.9	10322.2	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	4												
			C:126298 SPRBROOK	345	126518 REACM52	345	SR	132											
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR												
28477	2456.9	10322.2	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	4												
			C:126298 SPRBROOK	345	126517 REACM51	345	SR	131											
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR												
28481	2458.9	10324.2	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	4												
			C:126304 W 49 ST	345	126517 REACM51	345	1	1366											

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			Open 126304 W 49 ST	345	126517 REACM51	345	1				0.18170	-0.24552	-657.1	-1260.8
28482	2458.9	10324.2	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	4	-482.1	-1196.0	-0.29032		-0.24571	-362.8	-966.9
			C:126304 W 49 ST	345	126518 REACM52	345	2	1367						
			Open 126304 W 49 ST	345	126518 REACM52	345	2				0.18170	-0.24552	-657.1	-1260.8
30079	2538.2	10403.5	L: Interface	15	ItoNYC345			2723.6	5260.0	0.99930		1.00000	2601.3	5139.5
			C:SIN:360					1681						
			Open 4996 LINDEN	230	126321 GOETHALS	230	1				0.34876	0.00000	334.7	334.7
			Open 126282 FRESH KILLS	345	126283 GOTHLS N	345	1				0.00070	-0.02632	-25.7	-92.5
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1				0.01249	-0.05423	444.2	306.5
30082	2538.7	10404.0	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1289.8	-1793.0	-0.19823		-0.11758	-741.5	-1040.0
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.62859	0.12830	872.3	1198.0
30092	2542.6	10407.9	L: Interface	15	ItoNYC345			2717.4	5260.0	1.00000		1.00000	2601.3	5144.0
			C:GEN:NYPA_AS					1553						
			Remove unit 1 from bus	147788	POLETGT2	18.0	180.0	MW	dispatch					
			Remove unit 1 from bus	147789	POLETSTG	18.0	210.0	MW	dispatch					
			Remove unit 1 from bus	147790	POLETGT1	18.0	180.0	MW	dispatch					
30101	2549.8	10415.1	L: Interface	15	ItoNYC345			2676.1	5260.0	1.01338		1.00000	2601.3	5151.1
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.06713	0.19936	1113.2	1621.5
30102	2549.8	10415.1	L: Interface	15	ItoNYC345			2676.1	5260.0	1.01338		1.00000	2601.3	5151.1
			C:SIN:440					1683						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.06713	0.19936	1113.2	1621.5
30111	2555.4	10420.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1218.4	-1724.0	-0.19784		-0.14330	-861.9	-1228.1
			C:BUS:N.S._77					1614						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.60779	-0.01679	-247.8	-290.7
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1				0.40443	-0.01951	111.6	61.7
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.33531	0.11154	821.7	1106.7
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				-0.26699	-0.00358	-91.5	-100.7
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				0.20560	0.00000	-0.0	-0.0
30114	2560.3	10425.6	L: Interface	15	ItoNYC345			2740.4	5260.0	0.98412		1.00000	2601.3	5161.6
			C:GEN:RAVNWD 3-New					1774						
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2				-0.00000	-0.05438	476.0	336.8
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1				-0.14602	0.10875	-952.0	-673.6
30118	2563.7	10429.0	L: Interface	15	ItoNYC345			2696.3	5260.0	1.00000		1.00000	2601.3	5165.0
			C:BUS:SHORE_RD_345					1621						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.19979	-0.00000	237.3	237.3
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.19979	-0.00000	236.5	236.5
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.24797	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1				0.24797	0.00000	0.0	0.0
30119	2563.7	10429.0	L: Interface	15	ItoNYC345			2696.3	5260.0	1.00000		1.00000	2601.3	5165.1
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.19979	-0.00000	475.2	475.2
30142	2584.4	10449.7	L: Interface	15	ItoNYC345			2675.6	5260.0	1.00000		1.00000	2601.3	5185.7
			C:GEN:SALEM					1567						
			Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch					
30143	2584.8	10450.1	L: 146758 CHESTER	138	146773 SGRLF138	138	1	202.0	317.0	0.04451		0.02745	126.2	197.1
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	9						

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			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				-0.17871	-0.09543	-424.0	-670.6
30153	2591.5	10456.8	L: Interface 15 ItoNYC345						2668.5	5260.0	1.00000		1.00000	2601.3	5192.9
			C:SPRN-BRK-345					1777							
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY				0.14483	-0.00000	462.1	462.1
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1				0.00017	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1				0.09801	0.00000	2.5	2.5
30154	2591.5	10456.8	*L: Interface 15 ItoNYC345						2668.5	5260.0	1.00000		1.00000	2601.3	5192.9
			C:BUS:EGC_345					1622							
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY				0.14483	-0.00000	462.1	462.1
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1				0.00017	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1				0.09801	0.00000	2.5	2.5
30712	2652.2	10517.4	L: 126353 ASTORIA WEST 138 126587 HG6 TAP2 138 1						48.1	197.0	0.05616				
			Base Case												
33315	2662.8	10528.1	L: 130794 DELHI115 115 130804 DEL T115 115 1						68.8	164.0	0.03577		0.01907	0.7	51.5
			C:130753 FRASR345 345 130755 OAKDL345 345 1 200												
			Open 130753 FRASR345 345 130755 OAKDL345 345 1									-0.11754	-0.14208	-579.0	-957.4
33516	2715.9	10581.2	L: 125001 ROCK TAV 345 130750 COOPC345 345 2						-1259.6	-1793.0	-0.19640		-0.11758	-741.5	-1060.8
			C:SER:CMT34&MTR34 1593												
			Open 130750 COOPC345 345 146754 MDTN TAP 345 1									-0.55569	0.12830	872.3	1220.7
			Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1									0.07884	-0.09543	-424.0	-683.1
33572	2744.1	10609.4	L: 125002 ROSETON 345 125190 ROSE GN1 24.0 1						-437.3	-614.0	-0.06440				
			Base Case												
33635	2787.5	10652.8	L: 146758 CHESTER 138 146771 SHOEM138 138 1						-217.3	-317.0	-0.03575		-0.02745	-161.3	-237.9
			C:SIN:430 1682												
			Open 125002 ROSETON 345 126281 FISHKILL 345 1									-0.03721	0.22303	1505.0	2126.7
33636	2787.5	10652.8	L: 146758 CHESTER 138 146771 SHOEM138 138 1						-217.3	-317.0	-0.03575		-0.02745	-161.3	-237.9
			C:125002 ROSETON 345 126281 FISHKILL 345 1 10												
			Open 125002 ROSETON 345 126281 FISHKILL 345 1									-0.03721	0.22303	1505.0	2126.7
33694	2813.0	10678.3	L: 126274 E13ST 47 345 126870 TX17 T 69.0 17						157.9	320.0	0.05762		0.05749	157.6	319.3
			C:126298 SPRBROOK 345 126518 REACM52 345 SR 132												
			Open 126298 SPRBROOK 345 126518 REACM52 345 SR									0.00052	0.24552	660.3	1351.0
33695	2813.0	10678.3	L: 126274 E13ST 47 345 126870 TX17 T 69.0 17						157.9	320.0	0.05762		0.05749	157.6	319.3
			C:126298 SPRBROOK 345 126517 REACM51 345 SR 131												
			Open 126298 SPRBROOK 345 126517 REACM51 345 SR									0.00052	0.24552	660.3	1351.0
33696	2813.1	10678.4	L: 126274 E13ST 47 345 126870 TX17 T 69.0 17						157.9	320.0	0.05762		0.05749	157.6	319.3
			C:126304 W 49 ST 345 126517 REACM51 345 1 1366												
			Open 126304 W 49 ST 345 126517 REACM51 345 1									-0.00052	-0.24552	-657.1	-1347.7
33697	2813.1	10678.4	L: 126274 E13ST 47 345 126870 TX17 T 69.0 17						157.9	320.0	0.05762		0.05749	157.6	319.3
			C:126304 W 49 ST 345 126518 REACM52 345 2 1367												
			Open 126304 W 49 ST 345 126518 REACM52 345 2									-0.00052	-0.24552	-657.1	-1347.7

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33794	2823.7	10689.0	L: 126274 E13ST 47	345	126870 TX17 T	69.0	17	157.7	320.0	0.05749	0.05749	157.6	319.9		
			C:SIN:130				1668								
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00003	0.07442	786.1	996.2		
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00003	0.07442	786.1	996.2		
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			-0.00002	0.00000	39.7	39.7		
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA							
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch						
33795	2823.7	10689.0	L: 126274 E13ST 47	345	126870 TX17 T	69.0	17	157.7	320.0	0.05749	0.05749	157.6	319.9		
			C:SIN:120				1667								
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00003	0.07442	786.1	996.2		
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00003	0.07442	786.1	996.2		
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			-0.00002	0.00000	39.7	39.7		
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA							
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch						
33811	2824.4	10689.7	*L: 126274 E13ST 47	345	126870 TX17 T	69.0	17	157.6	320.0	0.05749	0.05749	157.6	319.9		
			C:	91	JEFFERSN	500	126250	RAMAPO 5	500	1	1351				
			Open	91	JEFFERSN	500	126250	RAMAPO 5	500	1		0.00005	0.00000	1000.8	1000.8
36967	2845.2	10710.4	L: 126434 GREWOOD	138	126506 VERNON-E	138	1	-46.5	-188.0	-0.04973					
			Base Case												
37006	2865.8	10731.1	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1189.2	-1724.0	-0.18663	-0.14425	-866.4	-1279.8		
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1007							
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34981	-0.12114	-922.6	-1269.8		
37015	2869.9	10735.2	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	693.8	1434.0	0.25790	0.24552	660.3	1364.9		
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1	92							
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1			-0.09172	-0.13502	-365.5	-753.0		
37016	2869.9	10735.2	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	693.8	1434.0	0.25790	0.24552	660.3	1364.9		
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1	92							
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1			-0.09172	-0.13502	-365.5	-753.0		
37035	2882.5	10747.7	L: 126304 W 49 ST	345	126517 REACM51	345	1	-690.6	-1434.0	-0.25790	-0.24552	-657.1	-1364.8		
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1	92							
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1			0.09172	-0.13502	-365.5	-754.7		
37036	2882.5	10747.7	L: 126304 W 49 ST	345	126518 REACM52	345	2	-690.6	-1434.0	-0.25790	-0.24552	-657.1	-1364.8		
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1	92							
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1			0.09172	-0.13502	-365.5	-754.7		
37053	2904.2	10769.5	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1184.7	-1724.0	-0.18569	-0.14330	-861.9	-1278.0		
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1007							
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34992	-0.12114	-922.6	-1274.5		
37079	2952.0	10817.3	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-418.9	-1196.0	-0.26326	-0.26326	-387.1	-1164.3		
			C:GEN:NYPA_AS				1553								
			Remove unit 1 from bus	147788	POLETGT2	18.0	180.0	MW	dispatch						
			Remove unit 1 from bus	147789	POLETSTG	18.0	210.0	MW	dispatch						
			Remove unit 1 from bus	147790	POLETGT1	18.0	180.0	MW	dispatch						
37082	2953.2	10818.5	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-407.7	-1196.0	-0.26694	-0.26326	-387.1	-1164.6		
			C:SIN:440				1683								

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			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.01846	0.19936	1113.2	1702.0
37083	2953.2	10818.5	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-407.7	-1196.0	-0.26694		-0.26326	-387.1	-1164.6
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1							
37087	2954.7	10820.0	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-418.7	-1196.0	-0.26309		-0.26326	-387.1	-1165.0
			C:SIN:360											
			Open 4996 LINDEN	230	126321 GOETHALS	230	1							
			Open 126282 FRESH KILLS	345	126283 GOTHLS N	345	1							
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1							
37090	2970.2	10835.5	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-427.9	-1196.0	-0.25860		-0.26326	-387.1	-1169.0
			C:GEN:RAVNWD 3-New											
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2							
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1							
37091	2973.2	10838.5	*L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-413.3	-1196.0	-0.26326		-0.26326	-387.1	-1169.8
			C:BUS:SHORE_RD_345											
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1							
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2							
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1							
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1							
37093	2981.9	10847.2	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-544.2	-707.0	-0.05460		-0.03287	-447.6	-545.6
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1							

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, APR 30 2009 16:58
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3_coned.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, APR 30 2009 16:58
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 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From ABCDEFG_EXP To JK_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 28460 violations

Interface-1 Interface 11 DUN-SOUTH OP Init.Flow= 4858.91 TDF= 1.0000

N	FCITC IntFcel L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
	C: Contingency description	Ncon	Flow	Rating	LODF	Init	Final
1	-110217.-105358. L: Interface 20 PJM-CENT		3329.2	0.0	0.03021	0.02229	3270.9 814.6
	C:137200 EDIC 345 137452 N.SCOT77 345 1 946						
	Open 137200 EDIC 345 137452 N.SCOT77 345 1				0.07100	0.11155	821.7-11473.6
2	-109716.-104857. L: Interface 20 PJM-CENT		3336.7	0.0	0.03041	0.02229	3270.9 825.8
	C:SIN:150 1669						
	Open 137200 EDIC 345 137452 N.SCOT77 345 1				0.07285	0.11155	821.7-11417.7
	Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1				0.05010	0.00000	119.9 119.9
	Open 137235 PORTER 1 115 147905 ILION 115 1				-0.00015	-0.00047	88.8 139.9
3	-109715.-104856. L: Interface 20 PJM-CENT		3336.7	0.0	0.03041	0.02229	3270.9 825.8
	C:SIN:160 1670						
	Open 137200 EDIC 345 137452 N.SCOT77 345 1				0.07285	0.11155	821.7-11417.6
	Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1				0.05012	0.00000	119.9 119.9
	Open 137235 PORTER 1 115 137246 VALLEY 115 1				-0.00023	-0.00068	74.8 149.8
4	-107379.-102520. L: Interface 20 PJM-CENT		3338.1	-0.0	0.03109	0.02229	3270.9 877.8
	C:137453 N.SCOT99 345 147833 MARCY T1 345 1 1012						
	Open 137453 N.SCOT99 345 147833 MARCY T1 345 1				-0.07313	-0.12035	-919.1 12004.0
5	-106847.-101988. L: Interface 20 PJM-CENT		3346.0	0.0	0.03132	0.02229	3270.9 889.7
	C:SIN:180 1672						
	Open 137453 N.SCOT99 345 147833 MARCY T1 345 1				-0.07502	-0.12035	-919.1 11940.0

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	Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1		0.05105	0.00000	119.9	119.9
	Open 137235	PORTER 1	115	147905	ILION	115	1		-0.00015	-0.00047	88.8	138.6
6	-106847.-101988.	L: Interface	20	PJM-CENT				3345.9	0.0	0.03132	0.02229	3270.9 889.7
	C:SIN:170											1671
	Open 137453	N.SCOT99	345	147833	MARCY T1	345	1		-0.07502	-0.12035	-919.1	11940.0
	Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1		0.05107	0.00000	119.9	119.9
	Open 137235	PORTER 1	115	137246	VALLEY	115	1		-0.00023	-0.00068	74.8	147.9
7	-105862.-101003.	L: Interface	20	PJM-CENT				3340.4	0.0	0.03155	0.02229	3270.9 911.6
	C:130750	COOPC345	345	147833	MARCY T1	345	1 196					
	Open 130750	COOPC345	345	147833	MARCY T1	345	1		-0.09420	-0.09839	-738.2	9677.4
8	-105084.-100225.	L: Interface	20	PJM-CENT				3471.6	-0.0	0.03304	0.02229	3270.9 929.0
	C:SIN:30											1665
	Open 126260	BOWLINE1	345	146841	BOWL	20.0	1	NA				
	Open 126260	BOWLINE1	345	146750	WHAHV345	345	10		-0.42624	-0.02517	-470.7	2174.1
	Open 126290	LADENTWN	345	146750	WHAHV345	345	1		-0.00074	-0.03120	-170.5	3108.3
9	-100612.-95753.7	L: Interface	20	PJM-CENT				3347.1	-0.0	0.03327	0.02229	3270.9 1028.6
	C:BUS:N.S._77											1614
	Open 137452	N.SCOT77	345	137453	N.SCOT99	345	1		-0.02395	-0.01680	-247.8	1442.7
	Open 137452	N.SCOT77	345	137516	N.SCOT1	115	1		-0.02639	-0.01951	111.6	2074.3
	Open 137200	EDIC	345	137452	N.SCOT77	345	1		0.09068	0.11155	821.7	-10402.1
	Open 137450	ALPS345	345	137452	N.SCOT77	345	1		0.01446	-0.00358	-91.5	269.2
	Open 137451	LEEDS 3	345	137452	N.SCOT77	345	1		-0.50288	0.00000	-0.0	-0.0
10	-99943.3-95084.3	*L: Interface	20	PJM-CENT				3499.2	0.0	0.03501	0.02229	3270.9 1043.6
	C:SER:HCWC/NWES											1607
	Open 130757	WATRC345	345	200769	HOMER CY	345	1		-0.41471	-0.03174	-544.6	2627.6
	Open 130836	N.WAV115	115	200676	E.SAYRE	115	1		0.05800	-0.00753	42.6	795.4
22	-38877.0-34018.1	L: Interface	23	QFW				1183.2	0.0	0.03043	0.01977	1092.7 324.2
	C:130754	KINTI345	345	149000	ROCH 345	345	1 205					
	Open 130754	KINTI345	345	149000	ROCH 345	345	1		0.17203	0.06200	525.9	-1884.4
23	-35506.0-30647.1	L: Interface	23	QFW				1080.5	-0.0	0.03043	0.01977	1092.7 390.8
	C:136150	CLAY	345	149001	PANNELL3	345	1 717					
	Open 136150	CLAY	345	149001	PANNELL3	345	1		-0.14084	-0.07571	86.8	2774.9
24	-35440.4-30581.5	L: Interface	23	QFW				1080.4	-0.0	0.03049	0.01977	1092.7 392.1
	C:136150	CLAY	345	149001	PANNELL3	345	2 718					
	Open 136150	CLAY	345	149001	PANNELL3	345	2		-0.14110	-0.07596	87.0	2778.9
25	-35016.8-30157.9	L: Interface	23	QFW				1180.7	-0.0	0.03372	0.01977	1092.7 400.5
	C:147834	NIAG 345	345	149000	ROCH 345	345	1 1226					
	Open 147834	NIAG 345	345	149000	ROCH 345	345	1		0.20738	0.06726	424.1	-1931.1
26	-19694.3-14835.4	L: Interface	47	C-PJMWest				-625.1	-0.0	-0.03174	-0.03174	-544.6 80.5
	C:GEN:9 MI PT2											1561
	Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5 MW	dispatch						
27	-19694.3-14835.4	L: Interface	61	PJMC2C				625.1	0.0	0.03174	0.03174	544.6 -80.5
	C:GEN:9 MI PT2											1561
	Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5 MW	dispatch						
28	-19694.3-14835.4	L: Interface	60	C2PJMC				-625.1	-0.0	-0.03174	-0.03174	-544.6 80.5
	C:GEN:9 MI PT2											1561
	Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5 MW	dispatch						
29	-19694.3-14835.4	L: Interface	48	PJMWest-C				625.1	0.0	0.03174	0.03174	544.6 -80.5

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		C:GEN:9 MI PT2			1561						
		Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch					
30	-19302.9-14444.0	L: Interface	47 C-PJMWest				-612.7	0.0	-0.03174	-0.03174	-544.6 68.1
		C:SIN:250			1677						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				-0.00000	0.00000	-0.1 -0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
31	-19302.9-14444.0	L: Interface	48 PJMWest-C				612.7	-0.0	0.03174	0.03174	544.6 -68.1
		C:SIN:250			1677						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				0.00000	0.00000	-0.1 -0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
32	-19302.9-14444.0	L: Interface	61 PJMC2C				612.7	-0.0	0.03174	0.03174	544.6 -68.1
		C:SIN:250			1677						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				0.00000	0.00000	-0.1 -0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
33	-19302.9-14444.0	L: Interface	60 C2PJMC				-612.7	0.0	-0.03174	-0.03174	-544.6 68.1
		C:SIN:250			1677						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				-0.00000	0.00000	-0.1 -0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
34	-19300.8-14441.9	L: Interface	61 PJMC2C				612.6	-0.0	0.03174	0.03174	544.6 -68.0
		C:GEN:SEABROOK			1573						
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
35	-19300.8-14441.9	L: Interface	47 C-PJMWest				-612.6	0.0	-0.03174	-0.03174	-544.6 68.0
		C:GEN:SEABROOK			1573						
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
36	-19300.8-14441.9	L: Interface	60 C2PJMC				-612.6	0.0	-0.03174	-0.03174	-544.6 68.0
		C:GEN:SEAB&OMS			1575						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				-0.00000	0.00000	-0.1 -0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
37	-19300.8-14441.9	L: Interface	60 C2PJMC				-612.6	0.0	-0.03174	-0.03174	-544.6 68.0
		C:GEN:SEABROOK			1573						
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
38	-19300.8-14441.9	L: Interface	48 PJMWest-C				612.6	-0.0	0.03174	0.03174	544.6 -68.0
		C:GEN:SEAB&OMS			1575						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				0.00000	0.00000	-0.1 -0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
39	-19300.8-14441.9	L: Interface	47 C-PJMWest				-612.6	0.0	-0.03174	-0.03174	-544.6 68.0
		C:GEN:SEAB&OMS			1575						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				-0.00000	0.00000	-0.1 -0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
40	-19300.8-14441.9	L: Interface	48 PJMWest-C				612.6	-0.0	0.03174	0.03174	544.6 -68.0
		C:GEN:SEABROOK			1573						
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
41	-19300.8-14441.9	L: Interface	61 PJMC2C				612.6	-0.0	0.03174	0.03174	544.6 -68.0
		C:GEN:SEAB&OMS			1575						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				0.00000	0.00000	-0.1 -0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
42	-19132.1-14273.2	L: Interface	47 C-PJMWest				-607.2	0.0	-0.03174	-0.03174	-544.6 62.7
		C:GEN:MILLST 3			1572						

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		Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
43	-19132.1-14273.2	L: Interface 48 PJMWest-C					607.2	-0.0	0.03174		0.03174	544.6 -62.7
		C:GEN:MLS3&OMS										
		Open 100508 SANDB115 115 100509 SB RCTOR	115	2					0.00000	0.00000		-0.1 -0.1
		Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
44	-19132.1-14273.2	L: Interface 61 PJMC2C					607.2	-0.0	0.03174		0.03174	544.6 -62.7
		C:GEN:MILLST 3										
		Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
45	-19132.1-14273.2	L: Interface 61 PJMC2C					607.2	-0.0	0.03174		0.03174	544.6 -62.7
		C:GEN:MLS3&OMS										
		Open 100508 SANDB115 115 100509 SB RCTOR	115	2					0.00000	0.00000		-0.1 -0.1
		Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
46	-19132.1-14273.2	L: Interface 48 PJMWest-C					607.2	-0.0	0.03174		0.03174	544.6 -62.7
		C:GEN:MILLST 3										
		Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
47	-19132.1-14273.2	L: Interface 60 C2PJMC					-607.2	0.0	-0.03174		-0.03174	-544.6 62.7
		C:GEN:MILLST 3										
		Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
48	-19132.1-14273.2	L: Interface 47 C-PJMWest					-607.2	0.0	-0.03174		-0.03174	-544.6 62.7
		C:GEN:MLS3&OMS										
		Open 100508 SANDB115 115 100509 SB RCTOR	115	2					-0.00000	0.00000		-0.1 -0.1
		Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
49	-19132.1-14273.2	L: Interface 60 C2PJMC					-607.2	0.0	-0.03174		-0.03174	-544.6 62.7
		C:GEN:MLS3&OMS										
		Open 100508 SANDB115 115 100509 SB RCTOR	115	2					-0.00000	0.00000		-0.1 -0.1
		Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
50	-19044.4-14185.5	L: Interface 47 C-PJMWest					-630.9	0.0	-0.03313		-0.03174	-544.6 59.9
		C:HQ-NY-765-New										
		Open 147827 MARCY765 765 147828 MASS 765	765	1		NA						
		Open 147828 MASS 765 765 180819 CHA-NY	765	1		NA						
		Open 147827 MARCY765 765 147833 MARCY T1	345	1					-0.02483	0.02986	624.6	56.0
		Open 147827 MARCY765 765 147833 MARCY T1	345	2					-0.02483	0.02596	543.5	49.1
		Open 156 MCY765SW 0.0 147827 MARCY765	765	1		NA						
		Open 147838 MASS230B 230 147839 MOSES E	230	1					0.00000	-0.02791	10.4	542.0
		Open 147828 MASS 765 765 147838 MASS230B	230	1		NA						
		Open 147837 MASS230A 230 147839 MOSES E	230	1					0.05514	0.00000	18.8	18.8
		Open 147828 MASS 765 765 147837 MASS230A	230	1		NA						
		Open 158 MS765SW2 0.0 147828 MASS 765	765	1		NA						
		Open 157 MS765SW1 0.0 147828 MASS 765	765	1		NA						
		Decrease bus 180001 BEA-DLX 13.8 generation by				100.0 percent dispatch						
		Set bus 181319 CHAT G3 120 load to				357.0 MW dispatch						
		Decrease bus 180002 BEA-DL 13.8 generation by				100.0 percent dispatch						
		Set bus 181419 CHAT G4 120 load to				357.0 MW dispatch						
51	-19044.4-14185.5	L: Interface 61 PJMC2C					630.9	-0.0	0.03313		0.03174	544.6 -59.9
		C:HQ-NY-765-New										
		Open 147827 MARCY765 765 147828 MASS 765	765	1		NA						
		Open 147828 MASS 765 765 180819 CHA-NY	765	1		NA						
		Open 147827 MARCY765 765 147833 MARCY T1	345	1					0.02483	0.02986	624.6	56.0

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	Open	147827	MARCY765	765	147833	MARCY T1	345	2			0.02483	0.02596	543.5	49.1
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
	Open	147838	MASS230B	230	147839	MOSES E	230	1			-0.00000	-0.02791	10.4	542.0
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
	Open	147837	MASS230A	230	147839	MOSES E	230	1			-0.05514	0.00000	18.8	18.8
	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
	Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch					
	Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch					
52	-19044.4-14185.5	L: Interface	48 PJMWest-C				630.9	-0.0	0.03313		0.03174	544.6	-59.9	
		C:HQ-NY-765-New					1776							
	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
	Open	147827	MARCY765	765	147833	MARCY T1	345	1			0.02483	0.02986	624.6	56.0
	Open	147827	MARCY765	765	147833	MARCY T1	345	2			0.02483	0.02596	543.5	49.1
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
	Open	147838	MASS230B	230	147839	MOSES E	230	1			-0.00000	-0.02791	10.4	542.0
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
	Open	147837	MASS230A	230	147839	MOSES E	230	1			-0.05514	0.00000	18.8	18.8
	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
	Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch					
	Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch					
53	-19044.4-14185.5	L: Interface	60 C2PJMC				-630.9	0.0	-0.03313		-0.03174	-544.6	59.9	
		C:HQ-NY-765-New					1776							
	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
	Open	147827	MARCY765	765	147833	MARCY T1	345	1			-0.02483	0.02986	624.6	56.0
	Open	147827	MARCY765	765	147833	MARCY T1	345	2			-0.02483	0.02596	543.5	49.1
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
	Open	147838	MASS230B	230	147839	MOSES E	230	1			0.00000	-0.02791	10.4	542.0
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
	Open	147837	MASS230A	230	147839	MOSES E	230	1			0.05514	0.00000	18.8	18.8
	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
	Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch					
	Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch					
54	-19019.1-14160.2	L: Interface	60 C2PJMC				-597.6	0.0	-0.03142		-0.03174	-544.6	59.1	
		C:GEN:FITZPATR					1559							

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	Open 136155 SCRIBA	345 147830 JA FITZP	345 1			0.00489	0.07048	-67.1	-1407.6
	Open 137200 EDIC	345 147830 JA FITZP	345 1			0.07692	-0.00032	43.5	49.6
	Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8 MW	dispatch					
55	-19019.1-14160.2 L: Interface 47 C-PJMWest				-597.6	0.0	-0.03142	-0.03174	-544.6 59.1
	C:GEN:FITZPATR		1559						
	Open 136155 SCRIBA	345 147830 JA FITZP	345 1			0.00489	0.07048	-67.1	-1407.6
	Open 137200 EDIC	345 147830 JA FITZP	345 1			0.07692	-0.00032	43.5	49.6
	Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8 MW	dispatch					
56	-19019.1-14160.2 L: Interface 61 PJMC2C				597.6	-0.0	0.03142	0.03174	544.6 -59.1
	C:GEN:FITZPATR		1559						
	Open 136155 SCRIBA	345 147830 JA FITZP	345 1			-0.00489	0.07048	-67.1	-1407.6
	Open 137200 EDIC	345 147830 JA FITZP	345 1			-0.07692	-0.00032	43.5	49.6
	Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8 MW	dispatch					
57	-19019.1-14160.2 L: Interface 48 PJMWest-C				597.6	-0.0	0.03142	0.03174	544.6 -59.1
	C:GEN:FITZPATR		1559						
	Open 136155 SCRIBA	345 147830 JA FITZP	345 1			-0.00489	0.07048	-67.1	-1407.6
	Open 137200 EDIC	345 147830 JA FITZP	345 1			-0.07692	-0.00032	43.5	49.6
	Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8 MW	dispatch					
58	-18546.6-13687.7 L: Interface 48 PJMWest-C				562.5	-0.0	0.03033	0.03174	544.6 -44.1
	C:129025 NRTPTG2	22.0 129341 NRTHPRT1	138 1 1506						
	Open 129025 NRTPTG2	22.0 129341 NRTHPRT1	138 1			-0.05542	0.02541	-324.5	-795.9
59	-18546.6-13687.7 L: Interface 61 PJMC2C				562.5	-0.0	0.03033	0.03174	544.6 -44.1
	C:129025 NRTPTG2	22.0 129341 NRTHPRT1	138 1 1506						
	Open 129025 NRTPTG2	22.0 129341 NRTHPRT1	138 1			-0.05542	0.02541	-324.5	-795.9
60	-18546.6-13687.7 L: Interface 47 C-PJMWest				-562.5	0.0	-0.03033	-0.03174	-544.6 44.1
	C:129025 NRTPTG2	22.0 129341 NRTHPRT1	138 1 1506						
	Open 129025 NRTPTG2	22.0 129341 NRTHPRT1	138 1			0.05542	0.02541	-324.5	-795.9
61	-18546.6-13687.7 L: Interface 60 C2PJMC				-562.5	0.0	-0.03033	-0.03174	-544.6 44.1
	C:129025 NRTPTG2	22.0 129341 NRTHPRT1	138 1 1506						
	Open 129025 NRTPTG2	22.0 129341 NRTHPRT1	138 1			0.05542	0.02541	-324.5	-795.9
62	-18546.3-13687.4*L: Interface 48 PJMWest-C				562.5	-0.0	0.03033	0.03174	544.6 -44.1
	C:129024 NRTPTG1	22.0 129346 NRTHPT3	138 1 1505						
	Open 129024 NRTPTG1	22.0 129346 NRTHPT3	138 1			-0.05542	0.02541	-324.3	-795.7
63	-18546.3-13687.4*L: Interface 47 C-PJMWest				-562.5	0.0	-0.03033	-0.03174	-544.6 44.1
	C:129024 NRTPTG1	22.0 129346 NRTHPT3	138 1 1505						
	Open 129024 NRTPTG1	22.0 129346 NRTHPT3	138 1			0.05542	0.02541	-324.3	-795.7
64	-18546.3-13687.4*L: Interface 61 PJMC2C				562.5	-0.0	0.03033	0.03174	544.6 -44.1
	C:129024 NRTPTG1	22.0 129346 NRTHPT3	138 1 1505						
	Open 129024 NRTPTG1	22.0 129346 NRTHPT3	138 1			-0.05542	0.02541	-324.3	-795.7
65	-18546.3-13687.4*L: Interface 60 C2PJMC				-562.5	0.0	-0.03033	-0.03174	-544.6 44.1
	C:129024 NRTPTG1	22.0 129346 NRTHPT3	138 1 1505						
	Open 129024 NRTPTG1	22.0 129346 NRTHPT3	138 1			0.05542	0.02541	-324.3	-795.7
6994	-13568.8 -8709.9 L: Interface 62 C2PJMW				-509.5	0.0	-0.03755	-0.06492	-347.9 533.1
	C:ETHS/NWES/LLGD		1648						
	Open 130763 HILSD230	230 200675 E.TWANDA	230 1			-0.80832	-0.01703	116.5	347.6
	Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			-0.83277	-0.00753	42.6	144.8
	Open 130807 GOUDY115	115 200680 LAUREL L	115 1			-0.85089	-0.00862	37.6	154.6
6995	-13568.8 -8709.9 L: Interface 63 PJMW2C				509.5	-0.0	0.03755	0.06492	347.9 -533.1

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C:ETHS/NWES/LLGD                                1648
  Open 130763 HILSD230      230 200675 E.TWANDA      230 1              0.80832 -0.01703 116.5 347.6
  Open 130836 N.WAV115      115 200676 E.SAYRE        115 1              0.83277 -0.00753 42.6 144.8
  Open 130807 GOUDY115      115 200680 LAUREL L      115 1              0.85089 -0.00862 37.6 154.6
7008 -9363.9 -4505.0 L: Interface 63 PJMW2C            454.2 0.0 0.04850              0.06492 347.9 -260.1
C:SER:ETHS/NWES                                1606
  Open 130763 HILSD230      230 200675 E.TWANDA      230 1              0.66720 -0.01703 116.5 276.0
  Open 130836 N.WAV115      115 200676 E.SAYRE        115 1              0.67157 -0.00753 42.6 113.1
7009 -9363.9 -4505.0 L: Interface 62 C2PJM          -454.2 -0.0 -0.04850              -0.06492 -347.9 260.1
C:SER:ETHS/NWES                                1606
  Open 130763 HILSD230      230 200675 E.TWANDA      230 1             -0.66720 -0.01703 116.5 276.0
  Open 130836 N.WAV115      115 200676 E.SAYRE        115 1             -0.67157 -0.00753 42.6 113.1
7010 -9348.7 -4489.8 L: Interface 63 PJMW2C            453.3 -0.0 0.04848              0.06492 347.9 -259.1
C:SER:C398/NWES                                1605
  Open 409 GROVER           230 200675 E.TWANDA      230 1              0.00110 0.00038 -15.6 -19.1
  Open 130763 HILSD230      230 200675 E.TWANDA      230 1              0.66879 -0.01703 116.5 275.7
  Open 381 TOWANDA          115 200675 E.TWANDA      230 1              0.01712 -0.00149 -52.2 -38.3
  Open 130836 N.WAV115      115 200676 E.SAYRE        115 1              0.66714 -0.00753 42.6 113.0
7011 -9348.7 -4489.8 L: Interface 62 C2PJM          -453.3 0.0 -0.04848              -0.06492 -347.9 259.1
C:SER:C398/NWES                                1605
  Open 409 GROVER           230 200675 E.TWANDA      230 1             -0.00110 0.00038 -15.6 -19.1
  Open 130763 HILSD230      230 200675 E.TWANDA      230 1             -0.66879 -0.01703 116.5 275.7
  Open 381 TOWANDA          115 200675 E.TWANDA      230 1             -0.01712 -0.00149 -52.2 -38.3
  Open 130836 N.WAV115      115 200676 E.SAYRE        115 1             -0.66714 -0.00753 42.6 113.0
7012 -8980.1 -4121.2 L: Interface 51 G-PJMEast       273.0 -0.0 0.03040              -0.00000 -0.0 -0.0
C:SIN:280                                        1678
  Open 126262 BUCHANAN N    345 126267 E VIEW 2N    345 1              0.19926 0.13347 1132.5 -66.1
  Open 126267 E VIEW 2N     345 126298 SPRBROOK    345 1              0.02431 0.13649 930.6 -295.0
  Open 126267 E VIEW 2N     345 126378 EASTVIEW     138 1              0.38173 0.00000 1.9 1.9
  Open 126262 BUCHANAN N    345 126360 BUCHNTA5     138 1              0.17533 0.00278 137.2 112.2
7013 -8980.1 -4121.2 L: Interface 52 PJMEast-G       -273.0 0.0 -0.03040              0.00000 0.0 0.0
C:SIN:280                                        1678
  Open 126262 BUCHANAN N    345 126267 E VIEW 2N    345 1             -0.19926 0.13347 1132.5 -66.1
  Open 126267 E VIEW 2N     345 126298 SPRBROOK    345 1             -0.02431 0.13649 930.6 -295.0
  Open 126267 E VIEW 2N     345 126378 EASTVIEW     138 1             -0.38173 0.00000 1.9 1.9
  Open 126262 BUCHANAN N    345 126360 BUCHNTA5     138 1             -0.17533 0.00278 137.2 112.2
7014 -8496.2 -3637.3 L: Interface 63 PJMW2C            431.6 -0.0 0.05080              0.06492 347.9 -203.7
C:ETHS/LLGD                                    1649
  Open 130763 HILSD230      230 200675 E.TWANDA      230 1              0.52471 -0.01703 116.5 261.2
  Open 130807 GOUDY115      115 200680 LAUREL L      115 1              0.60156 -0.00862 37.6 110.9
7015 -8496.2 -3637.3 L: Interface 62 C2PJM          -431.6 0.0 -0.05080              -0.06492 -347.9 203.7
C:ETHS/LLGD                                    1649
  Open 130763 HILSD230      230 200675 E.TWANDA      230 1             -0.52471 -0.01703 116.5 261.2
  Open 130807 GOUDY115      115 200680 LAUREL L      115 1             -0.60156 -0.00862 37.6 110.9
7016 -7995.9 -3137.0 L: Interface 62 C2PJM          -519.1 -0.0 -0.06492              -0.06492 -347.9 171.3
C:GEN:9 MI PT2                                 1561
  Remove unit 2 from bus 136700 9M PT 2G 25.0 1197.5 MW dispatch
7017 -7995.9 -3137.0 L: Interface 63 PJMW2C            519.1 0.0 0.06492              0.06492 347.9 -171.3

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	C:GEN:9 MI PT2				1561							
	Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5 MW	dispatch						
7018	-7717.6	-2858.7	L: Interface	63 PJMW2C		518.8	0.0	0.06722		0.06492	347.9	-153.2
	C:HQ-NY-765-New				1776							
	Open 147827	MARCY765	765 147828	MASS 765	765 1	NA						
	Open 147828	MASS 765	765 180819	CHA-NY	765 1	NA						
	Open 147827	MARCY765	765 147833	MARCY T1	345 1			0.04115	0.02986	624.6	394.2	
	Open 147827	MARCY765	765 147833	MARCY T1	345 2			0.04115	0.02596	543.5	343.1	
	Open 156	MCY765SW	0.0 147827	MARCY765	765 1	NA						
	Open 147838	MASS230B	230 147839	MOSES E	230 1			-0.00000	-0.02791	10.4	225.8	
	Open 147828	MASS 765	765 147838	MASS230B	230 1	NA						
	Open 147837	MASS230A	230 147839	MOSES E	230 1			-0.11503	0.00000	18.8	18.8	
	Open 147828	MASS 765	765 147837	MASS230A	230 1	NA						
	Open 158	MS765SW2	0.0 147828	MASS 765	765 1	NA						
	Open 157	MS765SW1	0.0 147828	MASS 765	765 1	NA						
	Decrease bus	180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
	Set bus	181319 CHAT G3	120	load to	357.0	MW dispatch						
	Decrease bus	180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
	Set bus	181419 CHAT G4	120	load to	357.0	MW dispatch						
7019	-7717.6	-2858.7	L: Interface	62 C2PJMW		-518.8	-0.0	-0.06722		-0.06492	-347.9	153.2
	C:HQ-NY-765-New				1776							
	Open 147827	MARCY765	765 147828	MASS 765	765 1	NA						
	Open 147828	MASS 765	765 180819	CHA-NY	765 1	NA						
	Open 147827	MARCY765	765 147833	MARCY T1	345 1			-0.04115	0.02986	624.6	394.2	
	Open 147827	MARCY765	765 147833	MARCY T1	345 2			-0.04115	0.02596	543.5	343.1	
	Open 156	MCY765SW	0.0 147827	MARCY765	765 1	NA						
	Open 147838	MASS230B	230 147839	MOSES E	230 1			0.00000	-0.02791	10.4	225.8	
	Open 147828	MASS 765	765 147838	MASS230B	230 1	NA						
	Open 147837	MASS230A	230 147839	MOSES E	230 1			0.11503	0.00000	18.8	18.8	
	Open 147828	MASS 765	765 147837	MASS230A	230 1	NA						
	Open 158	MS765SW2	0.0 147828	MASS 765	765 1	NA						
	Open 157	MS765SW1	0.0 147828	MASS 765	765 1	NA						
	Decrease bus	180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
	Set bus	181319 CHAT G3	120	load to	357.0	MW dispatch						
	Decrease bus	180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
	Set bus	181419 CHAT G4	120	load to	357.0	MW dispatch						
7020	-7408.0	-2549.1	L: Interface	62 C2PJMW		-443.4	0.0	-0.05985		-0.06492	-347.9	133.1
	C:SER:HC-SR_37&W-F_171				1600							
	Open 135398	SW345	345 200769	HOMER CY	345 1			0.23853	0.01717	-379.0	-506.2	
	Open 135277	FALCONER	115 200579	WARREN	115 1			0.14055	0.00697	-36.2	-87.8	
7021	-7408.0	-2549.1	L: Interface	63 PJMW2C		443.4	-0.0	0.05985		0.06492	347.9	-133.1
	C:SER:HC-SR_37&W-F_171				1600							
	Open 135398	SW345	345 200769	HOMER CY	345 1			-0.23853	0.01717	-379.0	-506.2	
	Open 135277	FALCONER	115 200579	WARREN	115 1			-0.14055	0.00697	-36.2	-87.8	
7022	-7158.1	-2299.2	L: Interface	63 PJMW2C		455.8	-0.0	0.06367		0.06492	347.9	-116.9
	C:GEN:FITZPATR				1559							
	Open 136155	SCRIBA	345 147830	JA FITZP	345 1			-0.01845	0.07048	-67.1	-571.6	
	Open 137200	EDIC	345 147830	JA FITZP	345 1			-0.15078	-0.00032	43.5	45.8	

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				Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8 MW	dispatch							
7023	-7158.1	-2299.2	L:	Interface 62 C2PJMW				-455.8	0.0	-0.06367		-0.06492	-347.9	116.9
				C:GEN:FITZPATR		1559								
				Open 136155 SCRIBA	345	147830 JA FITZP	345 1			0.01845	0.07048		-67.1	-571.6
				Open 137200 EDIC	345	147830 JA FITZP	345 1			0.15078	-0.00032		43.5	45.8
				Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8 MW	dispatch							
7024	-7115.0	-2256.1	L:	Interface 62 C2PJMW				-461.9	0.0	-0.06492		-0.06492	-347.9	114.1
				C:GEN:SEAB&OMS		1575								
				Open 100508 SANDB115	115	100509 SB RCTOR	115 2			-0.00001	0.00000		-0.1	-0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
7025	-7115.0	-2256.1	L:	Interface 63 PJMW2C				461.9	-0.0	0.06492		0.06492	347.9	-114.1
				C:GEN:SEAB&OMS		1575								
				Open 100508 SANDB115	115	100509 SB RCTOR	115 2			0.00001	0.00000		-0.1	-0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
7026	-7115.0	-2256.1	*L:	Interface 63 PJMW2C				461.9	-0.0	0.06492		0.06492	347.9	-114.1
				C:GEN:SEABROOK		1573								
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
7027	-7115.0	-2256.1	*L:	Interface 62 C2PJMW				-461.9	0.0	-0.06492		-0.06492	-347.9	114.1
				C:GEN:SEABROOK		1573								
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
7158	-5607.1	-748.2	L:	Interface 51 G-PJMEast				-244.1	0.0	-0.04354		-0.00000	-0.0	-0.0
				C:125001 ROCK TAV	345	126297 RAMAPO	345 1 7							
				Open 125001 ROCK TAV	345	126297 RAMAPO	345 1			-0.21925	0.19857	1113.2	-0.2	
7159	-5607.1	-748.2	L:	Interface 52 PJMEast-G				244.1	-0.0	0.04354		0.00000	0.0	0.0
				C:125001 ROCK TAV	345	126297 RAMAPO	345 1 7							
				Open 125001 ROCK TAV	345	126297 RAMAPO	345 1			0.21925	0.19857	1113.2	-0.2	
7160	-5607.1	-748.2	L:	Interface 51 G-PJMEast				-244.1	0.0	-0.04354		-0.00000	-0.0	-0.0
				C:SIN:440		1683								
				Open 125001 ROCK TAV	345	126297 RAMAPO	345 1			-0.21925	0.19857	1113.2	-0.2	
7161	-5607.1	-748.2	L:	Interface 52 PJMEast-G				244.1	-0.0	0.04354		0.00000	0.0	0.0
				C:SIN:440		1683								
				Open 125001 ROCK TAV	345	126297 RAMAPO	345 1			0.21925	0.19857	1113.2	-0.2	
10536	-4539.8	319.1	L:	Interface 51 G-PJMEast				136.3	-0.0	0.03003		-0.00000	-0.0	-0.0
				C:126298 SPRBROOK	345	126518 REACM52	345 SR 132							
				Open 126298 SPRBROOK	345	126518 REACM52	345 SR			0.20655	0.14540	660.3	0.2	
10537	-4539.8	319.1	L:	Interface 52 PJMEast-G				-136.3	0.0	-0.03003		0.00000	0.0	0.0
				C:126298 SPRBROOK	345	126517 REACM51	345 SR 131							
				Open 126298 SPRBROOK	345	126517 REACM51	345 SR			-0.20655	0.14540	660.3	0.2	
10538	-4539.8	319.1	L:	Interface 51 G-PJMEast				136.3	-0.0	0.03003		-0.00000	-0.0	-0.0
				C:126298 SPRBROOK	345	126517 REACM51	345 SR 131							
				Open 126298 SPRBROOK	345	126517 REACM51	345 SR			0.20655	0.14540	660.3	0.2	
10539	-4539.8	319.1	L:	Interface 52 PJMEast-G				-136.3	0.0	-0.03003		0.00000	0.0	0.0
				C:126298 SPRBROOK	345	126518 REACM52	345 SR 132							
				Open 126298 SPRBROOK	345	126518 REACM52	345 SR			-0.20655	0.14540	660.3	0.2	
10540	-4517.6	341.3	L:	Interface 51 G-PJMEast				135.7	0.0	0.03003		-0.00000	-0.0	-0.0
				C:126304 W 49 ST	345	126517 REACM51	345 1 1366							
				Open 126304 W 49 ST	345	126517 REACM51	345 1			-0.20655	-0.14540	-657.1	-0.2	
10541	-4517.6	341.3	L:	Interface 51 G-PJMEast				135.7	0.0	0.03003		-0.00000	-0.0	-0.0

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				C:126304 W 49 ST	345	126518	REACM52	345	2	1367										
				Open 126304 W 49 ST	345	126518	REACM52	345	2					-0.20655	-0.14540	-657.1	-0.2			
10542	-4517.6	341.3	L:	Interface	52	PJMEast-G														
				C:126304 W 49 ST	345	126517	REACM51	345	1	1366										
				Open 126304 W 49 ST	345	126517	REACM51	345	1					0.20655	-0.14540	-657.1	-0.2			
10543	-4517.6	341.3	L:	Interface	52	PJMEast-G														
				C:126304 W 49 ST	345	126518	REACM52	345	2	1367										
				Open 126304 W 49 ST	345	126518	REACM52	345	2					0.20655	-0.14540	-657.1	-0.2			
10544	-4394.5	464.4	L:	Interface	55	PJME-NYEnoRE														
				C:130753 FRASR345	345	130755	OAKDL345	345	1	200				1455.0	1287.0	0.03823		0.00000	1299.2	1299.2
				Open 130753 FRASR345	345	130755	OAKDL345	345	1											
10545	-4394.5	464.4	L:	Interface	56	NYE-PJMENoRE														
				C:130753 FRASR345	345	130755	OAKDL345	345	1	200										
				Open 130753 FRASR345	345	130755	OAKDL345	345	1											
10546	-4159.9	699.0	L:	Interface	51	G-PJMEast								167.6	-0.0	0.04028		-0.00000	-0.0	-0.0
				C:SIN:230						1676										
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1											
				Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1					0.16809	0.00278	137.2	125.6			
10547	-4159.9	699.0	L:	Interface	52	PJMEast-G														
				C:SIN:230						1676										
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1					0.26816	-0.14845	-539.0	78.6			
				Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1					-0.16809	0.00278	137.2	125.6			
10548	-3629.5	1229.4	L:	Interface	52	PJMEast-G														
				C:126263 BUCHANAN S	345	126290	LADENTWN	345	1	86										
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1					0.25820	-0.14845	-539.0	-0.2			
10549	-3629.5	1229.4	L:	Interface	51	G-PJMEast														
				C:126263 BUCHANAN S	345	126290	LADENTWN	345	1	86										
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1											
10550	-1679.9	3179.1	*L:	Interface	51	G-PJMEast								50.4	0.0	0.03000		-0.00000	-0.0	-0.0
				C:SER:Y94&TA5						1585										
				Open 126262 BUCHANAN N	345	126297	RAMAPO	345	1											
				Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1											
10551	-1679.9	3179.1	*L:	Interface	52	PJMEast-G														
				C:SER:Y94&TA5						1585										
				Open 126262 BUCHANAN N	345	126297	RAMAPO	345	1					0.22112	-0.13625	-256.4	-27.5			
				Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1					0.04563	0.00278	137.2	132.5			
10552	-439.7	4419.2	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2											
				C:126294 PLTVLLEY	345	137455	ATHENS	345	1	121										
				Open 126294 PLTVLLEY	345	137455	ATHENS	345	1											
10553	-295.4	4563.5	L:	126294 PLTVLLEY	345	137455	ATHENS	345	1											
				C:126294 PLTVLLEY	345	137451	LEEDS 3	345	2	120										
				Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	2											
10554	254.7	5113.6	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2											
				Base Case																
10555	300.5	5159.4	L:	126266 DUNWODIE	345	128835	SHORE RD	345	1					475.2	599.0	0.41215				
				Base Case																
10556	376.7	5235.6	L:	Interface	14	Leeds-PV														
				Base Case										2531.6	2662.0	0.34621				

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10557	504.0	5362.9	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1245.7	-1331.0	-0.16935				
			Base Case												
10558	624.3	5483.2	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-286.0	-317.0	-0.04961	-0.02737	-161.3	-178.4	
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1							
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.11201	0.19857	1113.2	1237.2
10559	624.3	5483.2	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-286.0	-317.0	-0.04961	-0.02737	-161.3	-178.4	
			C:SIN:440												
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.11201	0.19857	1113.2	1237.2
10560	672.7	5531.6	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1582.9	-1725.0	-0.21117	-0.17686	-1285.9	-1404.9	
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1							
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				0.32992	-0.10398	-900.2	-970.2
10561	699.5	5558.4	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1571.6	-1725.0	-0.21934	-0.17686	-1285.9	-1409.7	
			C:SIN:430												
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.18978	0.22385	1505.0	1661.6
10562	699.5	5558.4	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1571.6	-1725.0	-0.21934	-0.17686	-1285.9	-1409.7	
			C:125002 ROSETON	345	126281	FISHKILL	345	1							
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.18978	0.22385	1505.0	1661.6
10563	820.0	5678.9	L: Interface 14 Leeds-PV						3111.2	3450.0	0.41316	0.34621	2531.6	2815.5	
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1							
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				-0.64389	-0.10398	-900.2	-985.5
10564	841.2	5700.1	L: Interface 14 Leeds-PV						3089.0	3450.0	0.42912	0.34621	2531.6	2822.8	
			C:125002 ROSETON	345	126281	FISHKILL	345	1							
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				0.37038	0.22385	1505.0	1693.3
10565	841.2	5700.1	L: Interface 14 Leeds-PV						3089.0	3450.0	0.42912	0.34621	2531.6	2822.8	
			C:SIN:430												
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				0.37038	0.22385	1505.0	1693.3
10566	899.5	5758.4	L: Interface 41 I-to-K						936.3	1307.0	0.41215				
			Base Case												
10567	899.5	5758.4	L: Interface 42 K-to-I						-936.3	-1307.0	-0.41215				
			Base Case												
10568	920.6	5779.5	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	645.8	783.0	0.14905				
			Base Case												
10569	920.6	5779.5	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	645.8	783.0	0.14905				
			Base Case												
10570	957.0	5815.9	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	641.4	783.0	0.14799				
			Base Case												
10571	957.0	5815.9	L: 126266 DUNWODIE	345	126601	REAC72	345	SR	641.4	783.0	0.14799				
			Base Case												
10572	973.9	5832.8	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1528.3	-1725.0	-0.20199	-0.16935	-1245.7	-1410.6	
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1							
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				0.31396	-0.10398	-900.2	-1001.5
10573	989.4	5848.3	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1517.5	-1725.0	-0.20977	-0.16935	-1245.7	-1413.2	
			C:SIN:430												
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.18060	0.22385	1505.0	1726.5
10574	989.4	5848.3	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1517.5	-1725.0	-0.20977	-0.16935	-1245.7	-1413.2	
			C:125002 ROSETON	345	126281	FISHKILL	345	1							
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.18060	0.22385	1505.0	1726.5
10575	1053.6	5912.5	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1479.2	-1725.0	-0.23332	-0.17686	-1285.9	-1472.3	

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			C:137451 LEEDS 3	345	137455 ATHENS	345	1	1006											
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1												
10576	1168.1	6027.0	L: Interface 15 ItoNYC345						2601.3	3288.0	0.58785								
			Base Case																
10577	1181.4	6040.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1479.6	-1725.0	-0.20776								
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1											
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1												
10578	1185.1	6044.0	L: 128835 SHORE RD	345	129293 SHORE RD	138	1		237.3	482.0	0.20644								
			Base Case																
10579	1193.4	6052.3	L: 128835 SHORE RD	345	129293 SHORE RD	138	2		236.5	482.0	0.20571								
			Base Case																
10580	1329.7	6188.6	L: Interface 14 Leeds-PV						2909.4	3450.0	0.40652								
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1											
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1												
10581	1332.7	6191.7	L: 146758 CHESTER	138	146773 SGRLF138	138	1		250.9	317.0	0.04961								
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
10582	1332.7	6191.7	L: 146758 CHESTER	138	146773 SGRLF138	138	1		250.9	317.0	0.04961								
			C:SIN:440					1683											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
10583	1380.2	6239.1	L: 126298 SPRBROOK	345	126517 REACM51	345	SR		660.3	861.0	0.14540								
			Base Case																
10584	1380.2	6239.1	L: 126298 SPRBROOK	345	126518 REACM52	345	SR		660.3	861.0	0.14540								
			Base Case																
10585	1397.1	6256.0	L: Interface 11 DUN-SOUTH OP						4858.9	6256.0	1.00000								
			Base Case																
10586	1402.4	6261.3	L: 126304 W 49 ST	345	126517 REACM51	345	1		-657.1	-861.0	-0.14540								
			Base Case																
10587	1402.4	6261.3	L: 126304 W 49 ST	345	126518 REACM52	345	2		-657.1	-861.0	-0.14540								
			Base Case																
10588	1407.8	6266.7	L: 128835 SHORE RD	345	129293 SHORE RD	138	1		346.1	770.0	0.30108								
			C:128835 SHORE RD	345	129293 SHORE RD	138	2	1397											
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2												
10589	1412.7	6271.6	L: 128835 SHORE RD	345	129293 SHORE RD	138	2		345.5	770.0	0.30050								
			C:128835 SHORE RD	345	129293 SHORE RD	138	1	1396											
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1												
10590	1442.5	6301.4	L: 130750 COOPC345	345	130753 FRASR345	345	1		-994.4	-1207.0	-0.14740								
			Base Case																
10591	1458.7	6317.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1434.8	-1725.0	-0.19893								
			C:130750 COOPC345	345	130753 FRASR345	345	1	192											
			Open 130750 COOPC345	345	130753 FRASR345	345	1												
10592	1484.8	6343.7	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1		-1429.9	-1725.0	-0.19876								
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1											
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1												
10593	1576.5	6435.4	L: Interface 50 PJMCentral-C						-59.6	0.0	0.03783								
			C:SER:HCWC/NWES					1607											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1												
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1												

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10594	1576.5	6435.4	L: Interface	49 C-PJM	Central					59.6	-0.0	-0.03783		-0.03318	196.7	144.4
			C:SER:HCWC/NWES													
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1		0.22558	-0.03174	-544.6	-594.6
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1		-0.33367	-0.00753	42.6	30.7
10597	1597.2	6456.1	L: Interface	50 PJM	Central-C					-64.3	0.0	0.04027		0.03318	-196.7	-143.7
			C:SER:HC-WC_30&W-F_171													
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1		-0.23847	-0.03174	-544.6	-595.2
			Open	135277	FALCONER	115	200579	WARREN		115	1		-0.06952	0.00697	-36.2	-25.0
10598	1597.2	6456.1	L: Interface	49 C-PJM	Central					64.3	-0.0	-0.04027		-0.03318	196.7	143.7
			C:SER:HC-WC_30&W-F_171													
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1		0.23847	-0.03174	-544.6	-595.2
			Open	135277	FALCONER	115	200579	WARREN		115	1		0.06952	0.00697	-36.2	-25.0
10601	1612.9	6471.8	L: Interface	14 Leeds	-PV					2822.1	3450.0	0.38928		0.34621	2531.6	3090.0
			C:130750	COOPC345	345	130753	FRASR345			345	1	192				
			Open	130750	COOPC345	345	130753	FRASR345		345	1		-0.29219	-0.14740	-994.4	-1232.1
10602	1645.0	6503.9	L: 137451	LEEDS	3	345	137452	N.SCOT77		345	1					
			C:137451	LEEDS	3	345	137453	N.SCOT99		345	2	1005				
			Open	137451	LEEDS	3	345	137453	N.SCOT99	345	2		0.56508	-0.14333	-861.9	-1097.6
10603	1647.0	6505.9	L: 146771	SHOEM138	138	146772	SHOEMTAP			138	1					
			C:SIN:440									1683				
			Open	125001	ROCK TAV	345	126297	RAMAPO		345	1		-0.14262	0.19857	1113.2	1440.3
10604	1647.0	6505.9	L: 146771	SHOEM138	138	146772	SHOEMTAP			138	1					
			C:125001	ROCK TAV	345	126297	RAMAPO			345	1	7				
			Open	125001	ROCK TAV	345	126297	RAMAPO		345	1		-0.14262	0.19857	1113.2	1440.3
10605	1651.1	6510.0	L: Interface	50 PJM	Central-C					-67.2	0.0	0.04073		0.03318	-196.7	-141.9
			C:130757	WATRC345	345	200769	HOMER	CY		345	1	1374				
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1		-0.23770	-0.03174	-544.6	-597.0
10606	1651.1	6510.0	L: Interface	49 C-PJM	Central					67.2	-0.0	-0.04073		-0.03318	196.7	141.9
			C:130757	WATRC345	345	200769	HOMER	CY		345	1	1374				
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1		0.23770	-0.03174	-544.6	-597.0
10609	1662.7	6521.6	L: 137451	LEEDS	3	345	137453	N.SCOT99		345	2					
			C:137451	LEEDS	3	345	137452	N.SCOT77		345	1	1004				
			Open	137451	LEEDS	3	345	137452	N.SCOT77	345	1		0.56388	-0.14428	-866.4	-1106.3
10610	1698.8	6557.7	L: 126266	DUNWODIE	345	128835	SHORE RD			345	1					
			C:126299	REACBUS	345	147857	DVNPT NK			345	1	133				
			Open	126299	REACBUS	345	147857	DVNPT NK		345	1		0.52194	-0.00000	461.1	461.1
10611	1699.6	6558.5	L: 126266	DUNWODIE	345	128835	SHORE RD			345	1					
			C:128830	HMP HRBR	345	147857	DVNPT NK			345	1	1373				
			Open	128830	HMP HRBR	345	147857	DVNPT NK		345	1		-0.52194	0.00000	-460.5	-460.5
10612	1700.5	6559.4	L: 126266	DUNWODIE	345	128835	SHORE RD			345	1					
			C:SPRN-BRK-345									1777				
			Open	126298	SPRBROOK	345	126299	REACBUS		345	BY		0.52170	-0.00000	462.1	462.1
			Open	126299	REACBUS	345	147857	DVNPT NK		345	1	NA				
			Open	128830	HMP HRBR	345	147857	DVNPT NK		345	1	NA				
			Open	128824	EGC DUM	345	128830	HMP HRBR		345	1	NA				
			Open	128824	EGC DUM	345	128825	EGC PAR		345	1	NA				
			Open	128822	E.G.C.-1	345	128825	EGC PAR		345	1		-0.00048	0.00000	-229.8	-229.8
			Open	128823	E.G.C.-2	345	128825	EGC PAR		345	1		-0.48562	0.00000	2.5	2.5

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10613	1700.5	6559.4	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	715.1	1416.0	0.41215	0.41215	475.2	1176.0
			C:BUS:EGC_345				1622						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.52170	-0.00000	462.1	462.1
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00048	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.48562	0.00000	2.5	2.5
10614	1700.6	6559.5	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	715.1	1416.0	0.41215	0.41215	475.2	1176.1
			C:128824 EGC DUM	345	128825 EGC PAR	345	1 1394						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.52194	-0.00000	459.7	459.7
10615	1700.6	6559.5	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	715.1	1416.0	0.41215	0.41215	475.2	1176.1
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1 1395						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.52194	0.00000	-459.7	-459.7
10616	1746.0	6604.9	L: Interface 12 I-TO-J					3922.6	4949.0	0.58785			
			Base Case										
10617	1770.8	6629.7	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1400.4	-1725.0	-0.18333	-0.17686	-1285.9	-1599.1
			C:SIN:120				1667						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			-0.04357	0.07423	786.1	917.5
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			-0.04357	0.07423	786.1	917.5
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.04278	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA					
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8 MW dispatch						
10618	1770.8	6629.7	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1400.4	-1725.0	-0.18333	-0.17686	-1285.9	-1599.1
			C:SIN:130				1668						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			-0.04357	0.07423	786.1	917.5
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			-0.04357	0.07423	786.1	917.5
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.04278	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA					
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8 MW dispatch						
10619	1774.0	6632.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1387.3	-1725.0	-0.19035	-0.16935	-1245.7	-1546.1
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.14248	-0.14740	-994.4	-1255.9
10620	1794.4	6653.3	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	676.4	1416.0	0.41215	0.41215	475.2	1214.7
			C:128842 NEPTCONV	345	128847 NWBRG	345	1 1398						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			-0.30212	0.00000	-666.3	-666.3
10621	1798.3	6657.2	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-237.1	-317.0	-0.04443	-0.02737	-161.3	-210.5
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1 9						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.17871	-0.09548	-424.0	-595.7
10622	1834.5	6693.4	L: Interface 32 F-To-G					3723.2	4643.0	0.50142			
			Base Case										
10623	1920.8	6779.7	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1505.0	1935.0	0.22385			
			Base Case										

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10624	1937.1	6796.0	L: Interface	14	Leeds-PV				2754.9	3450.0	0.35883		0.34621	2531.6	3202.2					
			C:SIN:120																	
			Open	126263	BUCHANAN S	345	126291	MILLWOOD	345	1			0.08503	0.07423	786.1	929.9				
			Open	126263	BUCHANAN S	345	126291	MILLWOOD	345	2			0.08503	0.07423	786.1	929.9				
			Open	126263	BUCHANAN S	345	126290	LADENTWN	345	1			-0.08350	0.00000	39.7	39.7				
			Open	126263	BUCHANAN S	345	147832	IP3 345	345	1										
			Open	147798	IP#3 GEN	22.0	147832	IP3 345	345	1										
			Open	147798	IP#3 GEN	22.0	147832	IP3 345	345	2										
			Remove unit 1		from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch									
10625	1937.1	6796.0	L: Interface	14	Leeds-PV				2754.9	3450.0	0.35883		0.34621	2531.6	3202.2					
			C:SIN:130																	
			Open	126263	BUCHANAN S	345	126291	MILLWOOD	345	1			0.08503	0.07423	786.1	929.9				
			Open	126263	BUCHANAN S	345	126291	MILLWOOD	345	2			0.08503	0.07423	786.1	929.9				
			Open	126263	BUCHANAN S	345	126290	LADENTWN	345	1			-0.08350	0.00000	39.7	39.7				
			Open	126263	BUCHANAN S	345	147832	IP3 345	345	1										
			Open	147798	IP#3 GEN	22.0	147832	IP3 345	345	1										
			Open	147798	IP#3 GEN	22.0	147832	IP3 345	345	2										
			Remove unit 1		from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch									
10626	1966.0	6824.9	*L: 126294	PLTVLLEY	345	137451	LEEDS 3	345	2					-1358.0	-1725.0	-0.18669		-0.17686	-1285.9	-1633.7
			C:SER:CMT34&MTR34																	
			Open	130750	COOPC345	345	146754	MDTN TAP	345	1					-0.09363	0.12824	872.3	1124.4		
			Open	125001	ROCK TAV	345	146754	MDTN TAP	345	1					-0.02277	-0.09548	-424.0	-611.7		
10628	1996.2	6855.1	L: 128835	SHORE RD	345	129293	SHORE RD	138	1					357.9	770.0	0.20644		0.20644	237.3	649.5
			C:126299	REACBUS	345	147857	DVNPT NK	345	1											
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1					0.26143	-0.00000	461.1	461.1		
10629	1997.0	6855.9	L: 128835	SHORE RD	345	129293	SHORE RD	138	1					357.7	770.0	0.20644		0.20644	237.3	649.6
			C:128830	HMP HRBR	345	147857	DVNPT NK	345	1											
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1					-0.26143	0.00000	-460.5	-460.5		
10630	1997.9	6856.8	L: 128835	SHORE RD	345	129293	SHORE RD	138	1					357.6	770.0	0.20644		0.20644	237.3	649.8
			C:SPRN-BRK-345																	
			Open	126298	SPRBROOK	345	126299	REACBUS	345	BY					0.26131	-0.00000	462.1	462.1		
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1										
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1										
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1										
			Open	128824	EGC DUM	345	128825	EGC PAR	345	1										
			Open	128822	E.G.C.-1	345	128825	EGC PAR	345	1										
			Open	128822	E.G.C.-1	345	128825	EGC PAR	345	1					-0.00024	0.00000	-229.8	-229.8		
			Open	128823	E.G.C.-2	345	128825	EGC PAR	345	1					-0.24324	0.00000	2.5	2.5		
10631	1997.9	6856.8	L: 128835	SHORE RD	345	129293	SHORE RD	138	1					357.6	770.0	0.20644		0.20644	237.3	649.8
			C:BUS:EGC_345																	
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1										
			Open	126298	SPRBROOK	345	126299	REACBUS	345	BY					0.26131	-0.00000	462.1	462.1		
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1										
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1										
			Open	128824	EGC DUM	345	128825	EGC PAR	345	1										
			Open	128822	E.G.C.-1	345	128825	EGC PAR	345	1										
			Open	128822	E.G.C.-1	345	128825	EGC PAR	345	1					-0.00024	0.00000	-229.8	-229.8		
			Open	128823	E.G.C.-2	345	128825	EGC PAR	345	1					-0.24324	0.00000	2.5	2.5		
10632	1998.0	6856.9	L: 128835	SHORE RD	345	129293	SHORE RD	138	1					357.5	770.0	0.20644		0.20644	237.3	649.8
			C:128824	EGC DUM	345	128825	EGC PAR	345	1											

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			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.26143	-0.00000	459.7	459.7
10633	1998.0	6856.9	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	357.5	770.0	0.20644	0.20644	237.3	649.8
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1 1395						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.26143	0.00000	-459.7	-459.7
10634	2003.6	6862.5	L: Interface	28	LIPA Import			1745.9	2497.0	0.37488			
			Base Case										
10635	2009.5	6868.4	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	356.6	770.0	0.20571	0.20571	236.5	649.9
			C:126299 REACBUS	345	147857 DVNPT NK	345	1 133						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			0.26051	-0.00000	461.1	461.1
10636	2010.2	6869.1	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	356.5	770.0	0.20571	0.20571	236.5	650.0
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1 1373						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			-0.26051	0.00000	-460.5	-460.5
10637	2011.1	6870.0	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	356.3	770.0	0.20571	0.20571	236.5	650.2
			C:SPRN-BRK-345				1777						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.26039	-0.00000	462.1	462.1
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00024	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.24238	0.00000	2.5	2.5
10638	2011.1	6870.0	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	356.3	770.0	0.20571	0.20571	236.5	650.2
			C:BUS:EGC_345				1622						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.26039	-0.00000	462.1	462.1
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00024	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.24238	0.00000	2.5	2.5
10639	2011.2	6870.1	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	356.3	770.0	0.20571	0.20571	236.5	650.2
			C:128824 EGC DUM	345	128825 EGC PAR	345	1 1394						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.26051	-0.00000	459.7	459.7
10640	2011.2	6870.1	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	356.3	770.0	0.20571	0.20571	236.5	650.2
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1 1395						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.26051	0.00000	-459.7	-459.7
10645	2042.9	6901.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1314.7	-1703.0	-0.19009	-0.14740	-994.4	-1295.5
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.43391	-0.09839	-738.2	-939.2
10649	2071.2	6930.1	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-37.4	379.0	0.20107	0.14731	-45.4	259.8
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1 1428						
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1			-0.33007	-0.16286	-24.0	-361.3
10650	2079.8	6938.7	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	558.8	1416.0	0.41215	0.41215	475.2	1332.3
			C:128822 E.G.C.-1	345	128825 EGC PAR	345	1 1390						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.36414	0.00000	-229.8	-229.8
10651	2079.8	6938.7	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	558.8	1416.0	0.41215	0.41215	475.2	1332.3
			C:128822 E.G.C.-1	345	129270 E.G.C.	138	1 1391						
			Open 128822 E.G.C.-1	345	129270 E.G.C.	138	1			0.36414	0.00000	229.8	229.8

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10652	2080.4	6939.3	*L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	558.5	1416.0	0.41215	0.41215	475.2	1332.6
			C:128823 E.G.C.-2	345	128825 EGC PAR	345	1 1392						
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.36279	0.00000	-229.9 -229.9
10654	2084.9	6943.8	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1690.1	2283.0	0.28437	0.19857	1113.2	1527.2
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.38331	0.22385	1505.0 1971.7
10655	2084.9	6943.8	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1690.1	2283.0	0.28437	0.19857	1113.2	1527.2
			C:SIN:430				1682						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.38331	0.22385	1505.0 1971.7
10657	2091.8	6950.7	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	338.2	770.0	0.20644	0.20644	237.3	669.2
			C:128842 NEPTCONV	345	128847 NWBRG	345	1 1398						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				-0.15133	0.00000	-666.3 -666.3
10662	2105.0	6963.9	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	337.0	770.0	0.20571	0.20571	236.5	669.5
			C:128842 NEPTCONV	345	128847 NWBRG	345	1 1398						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				-0.15079	0.00000	-666.3 -666.3
10666	2110.9	6969.8	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1354.5	-1725.0	-0.17550	-0.16935	-1245.7	-1603.1
			C:SIN:130				1668						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				-0.04146	0.07423	786.1 942.7
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				-0.04146	0.07423	786.1 942.7
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				0.04071	0.00000	39.7 39.7
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1						NA
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1						NA
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2						NA
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8 MW dispatch						
10667	2110.9	6969.8	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1354.5	-1725.0	-0.17550	-0.16935	-1245.7	-1603.1
			C:SIN:120				1667						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				-0.04146	0.07423	786.1 942.7
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				-0.04146	0.07423	786.1 942.7
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				0.04071	0.00000	39.7 39.7
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1						NA
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1						NA
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2						NA
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8 MW dispatch						
10668	2113.6	6972.5	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	86.0	-339.0	-0.20107	-0.14731	93.9	-217.5
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1 1428						
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1				0.33007	-0.16286	-24.0 -368.2
10669	2126.0	6984.9	L: Interface 10 NYC Cable					4209.2	5459.0	0.58785			
			Base Case										
10670	2128.8	6987.7	L: Interface 14 Leeds-PV					2672.1	3450.0	0.36540	0.34621	2531.6	3268.6
			C:SER:CMT34&MTR34				1593						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				0.18273	0.12824	872.3 1145.3
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.04444	-0.09548	-424.0 -627.2
10671	2130.8	6989.7	L: Interface 14 Leeds-PV					2672.3	3450.0	0.36497	0.34621	2531.6	3269.3
			C:130750 COOPC345	345	147833 MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1				-0.19065	-0.09839	-738.2 -947.8
10673	2144.4	7003.3	L: Interface 50 PJMCentral-C					-68.1	0.0	0.03175	0.03318	-196.7	-125.5
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.14494	-0.03174	-544.6 -612.6

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				Open 130757 WATRC345	345	130768 WATRC230	230	1			0.20645	-0.02923	256.9	194.2
				Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.14892	0.00000	22.5	22.5
10674	2144.4	7003.3	L:	Interface 49 C-PJMCentral					68.1	-0.0	-0.03175	-0.03318	196.7	125.5
				C:BUS:WATERCURE_345				1632						
				Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.14494	-0.03174	-544.6	-612.6
				Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.20645	-0.02923	256.9	194.2
				Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.14892	0.00000	22.5	22.5
10685	2156.3	7015.2	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1	61.4	379.0	0.14731	0.14731	-45.4	272.3
				C:126299 REACBUS	345	147857 DVNPT NK	345	1 133						
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1			0.23141	-0.00000	461.1	461.1
10686	2157.2	7016.1	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1	61.2	379.0	0.14731	0.14731	-45.4	272.4
				C:128830 HMP HRBR	345	147857 DVNPT NK	345	1 1373						
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			-0.23141	0.00000	-460.5	-460.5
10687	2158.4	7017.4	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1	61.0	379.0	0.14731	0.14731	-45.4	272.6
				C:SPRN-BRK-345				1777						
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.23103	-0.00000	462.1	462.1
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA				
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA				
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA				
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA				
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00076	0.00000	-229.8	-229.8
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.22211	0.00000	2.5	2.5
10688	2158.4	7017.4	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1	61.0	379.0	0.14731	0.14731	-45.4	272.6
				C:BUS:EGC_345				1622						
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA				
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.23103	-0.00000	462.1	462.1
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA				
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA				
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA				
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00076	0.00000	-229.8	-229.8
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.22211	0.00000	2.5	2.5
10689	2158.4	7017.4	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1	61.0	379.0	0.14731	0.14731	-45.4	272.6
				C:128824 EGC DUM	345	128825 EGC PAR	345	1 1394						
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.23141	-0.00000	459.7	459.7
10690	2158.5	7017.4	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1	61.0	379.0	0.14731	0.14731	-45.4	272.6
				C:128824 EGC DUM	345	128830 HMP HRBR	345	1 1395						
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.23141	0.00000	-459.7	-459.7
10697	2181.4	7040.3	*L:	Interface 14 Leeds-PV					2655.1	3450.0	0.36437	0.34621	2531.6	3286.8
				C:130750 COOPC345	345	146754 MDTN TAP	345	1 195						
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1			0.14164	0.12824	872.3	1152.0
10698	2185.7	7044.6	L:	130750 COOPC345	345	146754 MDTN TAP	345	1	1347.9	1793.0	0.20364	0.12824	872.3	1152.6
				C:125001 ROCK TAV	345	130750 COOPC345	345	2 8						
				Open 125001 ROCK TAV	345	130750 COOPC345	345	2			-0.64149	-0.11754	-741.5	-998.4
10718	2214.2	7073.1	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	-12.8	-339.0	-0.14731	-0.14731	93.9	-232.3
				C:126299 REACBUS	345	147857 DVNPT NK	345	1 133						
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1			-0.23141	-0.00000	461.1	461.1
10719	2215.2	7074.1	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	-12.7	-339.0	-0.14731	-0.14731	93.9	-232.4
				C:128830 HMP HRBR	345	147857 DVNPT NK	345	1 1373						

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			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1			0.23141	0.00000	-460.5	-460.5
10720	2216.4	7075.3	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-12.5	-339.0	-0.14731	-0.14731	93.9	-232.6
			C:SPRN-BRK-345					1777						
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY			-0.23103	-0.00000	462.1	462.1
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			0.00076	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1			0.22211	0.00000	2.5	2.5
10721	2216.4	7075.3	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-12.5	-339.0	-0.14731	-0.14731	93.9	-232.6
			C:BUS:EGC_345					1622						
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY			-0.23103	-0.00000	462.1	462.1
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			0.00076	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1			0.22211	0.00000	2.5	2.5
10722	2216.4	7075.3	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-12.5	-339.0	-0.14731	-0.14731	93.9	-232.6
			C:128824 EGC DUM	345	128825	EGC PAR	345	1	1394					
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1			-0.23141	-0.00000	459.7	459.7
10723	2216.4	7075.3	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-12.5	-339.0	-0.14731	-0.14731	93.9	-232.6
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1	1395					
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1			0.23141	0.00000	-459.7	-459.7
10726	2220.5	7079.4	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	790.8	1196.0	0.18250	0.14905	645.8	976.7
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1372					
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4			0.22604	0.14799	641.4	970.0
10727	2220.5	7079.4	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	790.8	1196.0	0.18250	0.14905	645.8	976.7
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	96					
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR			0.22604	0.14799	641.4	970.0
10728	2220.5	7079.4	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	790.8	1196.0	0.18250	0.14905	645.8	976.7
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1372					
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4			0.22604	0.14799	641.4	970.0
10729	2220.5	7079.4	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	790.8	1196.0	0.18250	0.14905	645.8	976.7
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	96					
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR			0.22604	0.14799	641.4	970.0
10739	2240.7	7099.6	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	-65.9	379.0	0.19856	0.14731	-45.4	284.7
			C:129265 CARLE PL	138	129283	GLNWD SO	138	1	1417					
			Open 129265 CARLE PL	138	129283	GLNWD SO	138	1			-0.35640	-0.14378	57.7	-264.5
10740	2242.2	7101.2	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	69.4	-379.0	-0.19996	-0.14378	57.7	-264.7
			C:129282 GLNWD NO	138	129293	SHORE RD	138	1	1427					
			Open 129282 GLNWD NO	138	129293	SHORE RD	138	1			0.32809	-0.17123	35.6	-348.4
10747	2256.0	7114.9	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	786.5	1196.0	0.18150	0.14799	641.4	975.2
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3	1371					
			Open 126600 REAC71	345	126641	MOTT HAVEN	345	3			0.22480	0.14905	645.8	982.0
10748	2256.0	7114.9	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	786.5	1196.0	0.18150	0.14799	641.4	975.2
			C:126266 DUNWODIE	345	126600	REAC71	345	SR	95					

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			Open 126266 DUNWODIE	345	126600	REAC71	345	SR				0.22480	0.14905	645.8	982.0
10749	2256.0	7114.9	L: 126266 DUNWODIE	345	126601	REAC72	345	SR	786.5	1196.0	0.18150		0.14799	641.4	975.2
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3	1371						
			Open 126600 REAC71	345	126641	MOTT HAVEN	345	3				0.22480	0.14905	645.8	982.0
10750	2256.0	7114.9	L: 126266 DUNWODIE	345	126601	REAC72	345	SR	786.5	1196.0	0.18150		0.14799	641.4	975.2
			C:126266 DUNWODIE	345	126600	REAC71	345	SR	95						
			Open 126266 DUNWODIE	345	126600	REAC71	345	SR				0.22480	0.14905	645.8	982.0
10759	2262.6	7121.5	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	45.7	379.0	0.14731		0.14731	-45.4	288.0
			C:128842 NEPTCONV	345	128847	NWBRG	345	1	1398						
			Open 128842 NEPTCONV	345	128847	NWBRG	345	1				-0.13664	0.00000	-666.3	-666.3
12295	2283.7	7142.6	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	114.4	-339.0	-0.19856		-0.14731	93.9	-242.5
			C:129265 CARLE PL	138	129283	GLNWD SO	138	1	1417						
			Open 129265 CARLE PL	138	129283	GLNWD SO	138	1				0.35640	-0.14378	57.7	-270.7
12319	2285.5	7144.4	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1	606.4	746.0	0.06108		0.03276	447.6	522.5
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.14262	0.19857	1113.2	1567.0
12320	2285.5	7144.4	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1	606.4	746.0	0.06108		0.03276	447.6	522.5
			C:SIN:440						1683						
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.14262	0.19857	1113.2	1567.0
12386	2298.9	7157.8	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1314.2	-1725.0	-0.17870		-0.16935	-1245.7	-1635.0
			C:SER:CMT34&MTR34						1593						
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				-0.08910	0.12824	872.3	1167.1
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				-0.02167	-0.09548	-424.0	-643.4
12392	2301.1	7160.0	*L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1314.3	-1725.0	-0.17849		-0.16935	-1245.7	-1635.3
			C:130750 COOPC345	345	147833	MARCY T1	345	1	196						
			Open 130750 COOPC345	345	147833	MARCY T1	345	1				0.09296	-0.09839	-738.2	-964.6
12428	2313.2	7172.1	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-46.4	-379.0	-0.14378		-0.14378	57.7	-274.9
			C:126299 REACBUS	345	147857	DVNPT NK	345	1	133						
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1				-0.22575	-0.00000	461.1	461.1
12429	2314.1	7173.0	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-46.3	-379.0	-0.14378		-0.14378	57.7	-275.0
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1	1373						
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1				0.22575	0.00000	-460.5	-460.5
12432	2315.4	7174.3	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-46.1	-379.0	-0.14378		-0.14378	57.7	-275.2
			C:SPRN-BRK-345						1777						
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY				-0.22538	-0.00000	462.1	462.1
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1				0.00074	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1				0.21668	0.00000	2.5	2.5
12433	2315.4	7174.3	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-46.1	-379.0	-0.14378		-0.14378	57.7	-275.2
			C:BUS:EGC_345						1622						
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY				-0.22538	-0.00000	462.1	462.1
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA						

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				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1		0.00074	0.00000	-229.8	-229.8	
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1		0.21668	0.00000	2.5	2.5	
12434	2315.4	7174.3	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1	-46.1	-379.0	-0.14378	-0.14378	57.7	-275.2
			C:	128824 EGC DUM	345	128825 EGC PAR	345	1	1394					
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1			-0.22575	-0.00000	459.7	459.7
12435	2315.4	7174.3	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1	-46.1	-379.0	-0.14378	-0.14378	57.7	-275.2
			C:	128824 EGC DUM	345	128830 HMP HRBR	345	1	1395					
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			0.22575	0.00000	-459.7	-459.7
12437	2316.5	7175.4	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1	73.6	-379.0	-0.19537	-0.14378	57.7	-275.4
			C:	129281 GLNWD GT	138	129288 ROSLYN	138	1	1426					
				Open 129281 GLNWD GT	138	129288 ROSLYN	138	1			-0.35020	0.14731	-45.4	295.9
12444	2320.6	7179.5	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	2.9	-339.0	-0.14731	-0.14731	93.9	-248.0
			C:	128842 NEPTCONV	345	128847 NWBRG	345	1	1398					
				Open 128842 NEPTCONV	345	128847 NWBRG	345	1			0.13664	0.00000	-666.3	-666.3
12446	2324.0	7182.9	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1	-45.4	297.0	0.14731			
				Base Case										
12469	2354.1	7213.0	L:	126481 RAINEY8W	138	126562 8W DUM	138	1	164.5	-256.0	-0.17864			
				Base Case										
12473	2355.5	7214.4	L:	126481 RAINEY8W	138	126507 VERNON-W	138	1	-164.8	256.0	0.17864			
				Base Case										
12480	2368.5	7227.5	L:	129281 GLNWD GT	138	129282 GLNWD NO	138	1	97.2	-379.0	-0.20107	-0.14731	105.1	-243.8
			C:	129283 GLNWD SO	138	129293 SHORE RD	138	1	1428					
				Open 129283 GLNWD SO	138	129293 SHORE RD	138	1			0.33007	-0.16286	-24.0	-409.7
12487	2377.2	7236.1	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	279.3	770.0	0.20644	0.20644	237.3	728.1
			C:	128822 E.G.C.-1	345	128825 EGC PAR	345	1	1390					
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.18239	0.00000	-229.8	-229.8
12488	2377.2	7236.1	*L:	128835 SHORE RD	345	129293 SHORE RD	138	1	279.3	770.0	0.20644	0.20644	237.3	728.1
			C:	128822 E.G.C.-1	345	129270 E.G.C.	138	1	1391					
				Open 128822 E.G.C.-1	345	129270 E.G.C.	138	1			0.18239	0.00000	229.8	229.8
12507	2390.4	7249.3	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	278.3	770.0	0.20571	0.20571	236.5	728.2
			C:	128822 E.G.C.-1	345	128825 EGC PAR	345	1	1390					
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.18175	0.00000	-229.8	-229.8
12508	2390.4	7249.3	*L:	128835 SHORE RD	345	129293 SHORE RD	138	2	278.3	770.0	0.20571	0.20571	236.5	728.2
			C:	128822 E.G.C.-1	345	129270 E.G.C.	138	1	1391					
				Open 128822 E.G.C.-1	345	129270 E.G.C.	138	1			0.18175	0.00000	229.8	229.8
12515	2391.4	7250.3	L:	126480 RAINEY8E	138	126561 8E DUM	138	1	103.2	-342.0	-0.18616	-0.18616	211.2	-234.0
			C:	GEN:NYPA_AS					1553					
				Remove unit 1 from bus 147788 POLETGT2	18.0	180.0 MW	dispatch							
				Remove unit 1 from bus 147789 POLETSTG	18.0	210.0 MW	dispatch							
				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0 MW	dispatch							
12525	2399.4	7258.3	L:	126480 RAINEY8E	138	126506 VERNON-E	138	1	-104.7	342.0	0.18616	0.18616	-212.7	234.0
			C:	GEN:NYPA_AS					1553					
				Remove unit 1 from bus 147788 POLETGT2	18.0	180.0 MW	dispatch							
				Remove unit 1 from bus 147789 POLETSTG	18.0	210.0 MW	dispatch							
				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0 MW	dispatch							
12527	2400.9	7259.8	*L:	129281 GLNWD GT	138	129288 ROSLYN	138	1	-97.7	379.0	0.19856	0.14731	-45.4	308.3
			C:	129265 CARLE PL	138	129270 E.G.C.	138	1	1416					
				Open 129265 CARLE PL	138	129270 E.G.C.	138	1			0.35640	0.14378	-146.9	198.3

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12534	2403.5	7262.4	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	90.6	-379.0	-0.19537	-0.14378	57.7	-287.9
			C:129270 E.G.C.	138	129288 ROSLYN	138	1 1419						
			Open 129270 E.G.C.		138 129288 ROSLYN		138 1			0.35020	-0.14731	93.9	-260.2
12540	2410.7	7269.6	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3	770.5	1196.0	0.17651	0.14905	645.8	1005.1
			C:126298 SPRBROOK	345	126517 REACM51	345	SR 131						
			Open 126298 SPRBROOK		345 126517 REACM51		345 SR			0.18885	0.14540	660.3	1010.8
12541	2410.7	7269.6	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3	770.5	1196.0	0.17651	0.14905	645.8	1005.1
			C:126298 SPRBROOK	345	126518 REACM52	345	SR 132						
			Open 126298 SPRBROOK		345 126518 REACM52		345 SR			0.18885	0.14540	660.3	1010.8
12542	2410.7	7269.6	L: 126266 DUNWODIE	345	126600 REAC71	345	SR	770.5	1196.0	0.17651	0.14905	645.8	1005.1
			C:126298 SPRBROOK	345	126517 REACM51	345	SR 131						
			Open 126298 SPRBROOK		345 126517 REACM51		345 SR			0.18885	0.14540	660.3	1010.8
12543	2410.7	7269.6	L: 126266 DUNWODIE	345	126600 REAC71	345	SR	770.5	1196.0	0.17651	0.14905	645.8	1005.1
			C:126298 SPRBROOK	345	126518 REACM52	345	SR 132						
			Open 126298 SPRBROOK		345 126518 REACM52		345 SR			0.18885	0.14540	660.3	1010.8
12547	2414.1	7273.1	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3	769.9	1196.0	0.17651	0.14905	645.8	1005.6
			C:126304 W 49 ST	345	126517 REACM51	345	1 1366						
			Open 126304 W 49 ST		345 126517 REACM51		345 1			-0.18885	-0.14540	-657.1	-1008.1
12548	2414.1	7273.1	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3	769.9	1196.0	0.17651	0.14905	645.8	1005.6
			C:126304 W 49 ST	345	126518 REACM52	345	2 1367						
			Open 126304 W 49 ST		345 126518 REACM52		345 2			-0.18885	-0.14540	-657.1	-1008.1
12549	2414.1	7273.1	L: 126266 DUNWODIE	345	126600 REAC71	345	SR	769.9	1196.0	0.17651	0.14905	645.8	1005.6
			C:126304 W 49 ST	345	126518 REACM52	345	2 1367						
			Open 126304 W 49 ST		345 126518 REACM52		345 2			-0.18885	-0.14540	-657.1	-1008.1
12550	2414.1	7273.1	L: 126266 DUNWODIE	345	126600 REAC71	345	SR	769.9	1196.0	0.17651	0.14905	645.8	1005.6
			C:126304 W 49 ST	345	126517 REACM51	345	1 1366						
			Open 126304 W 49 ST		345 126517 REACM51		345 1			-0.18885	-0.14540	-657.1	-1008.1
12551	2414.8	7273.7	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	59.4	-372.0	-0.17864	-0.17864	164.5	-266.8
			C:GEN:NYPA_AS				1553						
			Remove unit 1 from bus 147788 POLETGT2	18.0	180.0 MW	dispatch							
			Remove unit 1 from bus 147789 POLETSTG	18.0	210.0 MW	dispatch							
			Remove unit 1 from bus 147790 POLETGT1	18.0	180.0 MW	dispatch							
12556	2416.2	7275.1	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	-59.6	372.0	0.17864	0.17864	-164.8	266.8
			C:GEN:NYPA_AS				1553						
			Remove unit 1 from bus 147788 POLETGT2	18.0	180.0 MW	dispatch							
			Remove unit 1 from bus 147789 POLETSTG	18.0	210.0 MW	dispatch							
			Remove unit 1 from bus 147790 POLETGT1	18.0	180.0 MW	dispatch							
12560	2419.4	7278.3	*L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-31.1	-379.0	-0.14378	-0.14378	57.7	-290.2
			C:128842 NEPTCONV	345	128847 NWBRG	345	1 1398						
			Open 128842 NEPTCONV		345 128847 NWBRG		345 1			0.13332	0.00000	-666.3	-666.3
12562	2422.7	7281.6	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	93.9	-263.0	-0.14731			
			Base Case										
12584	2443.9	7302.8	*L: 129270 E.G.C.	138	129288 ROSLYN	138	1	146.3	-339.0	-0.19856	-0.14731	93.9	-266.1
			C:129265 CARLE PL	138	129270 E.G.C.	138	1 1416						
			Open 129265 CARLE PL		138 129270 E.G.C.		138 1			-0.35640	0.14378	-146.9	204.5
12607	2451.9	7310.8	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-1006.3	-1345.0	-0.13813	-0.09839	-738.2	-979.4
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345		345 130753 FRASR345		345 1			0.26966	-0.14740	-994.4	-1355.8

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12622	2458.1	7317.0	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	765.2	1196.0	0.17526	0.14799	641.4	1005.2
			C:126298 SPRBROOK	345	126517 REACM51	345	SR 131						
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			0.18752	0.14540	660.3	1017.7
12623	2458.1	7317.0	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	765.2	1196.0	0.17526	0.14799	641.4	1005.2
			C:126298 SPRBROOK	345	126518 REACM52	345	SR 132						
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			0.18752	0.14540	660.3	1017.7
12624	2458.1	7317.0	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	765.2	1196.0	0.17526	0.14799	641.4	1005.2
			C:126298 SPRBROOK	345	126518 REACM52	345	SR 132						
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			0.18752	0.14540	660.3	1017.7
12625	2458.1	7317.0	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	765.2	1196.0	0.17526	0.14799	641.4	1005.2
			C:126298 SPRBROOK	345	126517 REACM51	345	SR 131						
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			0.18752	0.14540	660.3	1017.7
12646	2461.6	7320.5	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	764.6	1196.0	0.17526	0.14799	641.4	1005.7
			C:126304 W 49 ST	345	126517 REACM51	345	1 1366						
			Open 126304 W 49 ST	345	126517 REACM51	345	1			-0.18752	-0.14540	-657.1	-1015.0
12647	2461.6	7320.5	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	764.6	1196.0	0.17526	0.14799	641.4	1005.7
			C:126304 W 49 ST	345	126518 REACM52	345	2 1367						
			Open 126304 W 49 ST	345	126518 REACM52	345	2			-0.18752	-0.14540	-657.1	-1015.0
12648	2461.6	7320.5	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	764.6	1196.0	0.17526	0.14799	641.4	1005.7
			C:126304 W 49 ST	345	126518 REACM52	345	2 1367						
			Open 126304 W 49 ST	345	126518 REACM52	345	2			-0.18752	-0.14540	-657.1	-1015.0
12649	2461.6	7320.5	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	764.6	1196.0	0.17526	0.14799	641.4	1005.7
			C:126304 W 49 ST	345	126517 REACM51	345	1 1366						
			Open 126304 W 49 ST	345	126517 REACM51	345	1			-0.18752	-0.14540	-657.1	-1015.0
12682	2466.9	7325.8	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	57.7	-297.0	-0.14378			
			Base Case										
14117	2488.3	7347.2	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	211.2	-252.0	-0.18616			
			Base Case										
14121	2488.6	7347.5	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-158.6	339.0	0.19996	0.14378	-146.9	210.9
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1 1427						
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1			-0.32809	-0.17123	35.6	-390.5
14164	2490.8	7349.7	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-212.7	251.0	0.18616			
			Base Case										
14183	2494.0	7352.9	L: 126295 RAINEY	345	126562 8W DUM	138	8	-189.5	256.0	0.17864			
			Base Case										
14273	2525.1	7384.0	L: 126295 RAINEY	345	126561 8E DUM	138	8	-128.1	342.0	0.18616	0.18616	-236.1	234.0
			C:GEN:NYPAS_AS				1553						
			Remove unit 1 from bus 147788 POLETGT2	18.0	180.0 MW	dispatch							
			Remove unit 1 from bus 147789 POLETSTG	18.0	210.0 MW	dispatch							
			Remove unit 1 from bus 147790 POLETGT1	18.0	180.0 MW	dispatch							
14300	2539.6	7398.6	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1289.8	-1793.0	-0.19815	-0.11754	-741.5	-1040.0
			C:130750 COOPC345	345	146754 MDTN TAP	345	1 195						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.62859	0.12824	872.3	1197.9
14306	2541.9	7400.8	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	125.7	-379.0	-0.19856	-0.14731	105.1	-269.3
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1 1417						
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1			0.35640	-0.14378	57.7	-307.8
14338	2554.9	7413.8	L: 126295 RAINEY	345	126562 8W DUM	138	8	-84.4	372.0	0.17864	0.17864	-189.5	266.9
			C:GEN:NYPAS_AS				1553						

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			Remove unit 1 from bus 147788 POLETGT2	18.0	180.0 MW	dispatch											
			Remove unit 1 from bus 147789 POLETSTG	18.0	210.0 MW	dispatch											
			Remove unit 1 from bus 147790 POLETGT1	18.0	180.0 MW	dispatch											
14339	2554.9	7413.8	L: 137451 LEEDS 3	345	137453 N.SCOT99	345 2				-1218.4	-1724.0	-0.19788		-0.14333	-861.9	-1228.1	
			C:BUS:N.S._77														
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345 1								0.60779	-0.01680	-247.8	-290.7
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115 1								0.40443	-0.01951	111.6	61.7
			Open 137200 EDIC	345	137452 N.SCOT77	345 1								-0.33531	0.11155	821.7	1106.7
			Open 137450 ALPS345	345	137452 N.SCOT77	345 1								-0.26699	-0.00358	-91.5	-100.7
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345 1								0.20560	0.00000	-0.0	-0.0
14352	2562.2	7421.1	L: 129281 GLNWD GT	138	129282 GLNWD NO	138 1				-1.6	-379.0	-0.14731		-0.14731	105.1	-272.3	
			C:126299 REACBUS	345	147857 DVNPT NK	345 1 133											
			Open 126299 REACBUS	345	147857 DVNPT NK	345 1								-0.23141	-0.00000	461.1	461.1
14355	2563.1	7422.0	L: 129281 GLNWD GT	138	129282 GLNWD NO	138 1				-1.4	-379.0	-0.14731		-0.14731	105.1	-272.4	
			C:128830 HMP HRBR	345	147857 DVNPT NK	345 1 1373											
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345 1								0.23141	0.00000	-460.5	-460.5
14360	2564.4	7423.3	L: 129281 GLNWD GT	138	129282 GLNWD NO	138 1				-1.2	-379.0	-0.14731		-0.14731	105.1	-272.6	
			C:BUS:EGC_345														
			Open 126299 REACBUS	345	147857 DVNPT NK	345 1											
			Open 126298 SPRBROOK	345	126299 REACBUS	345 BY								-0.23103	-0.00000	462.1	462.1
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345 1											
			Open 128824 EGC DUM	345	128830 HMP HRBR	345 1											
			Open 128824 EGC DUM	345	128825 EGC PAR	345 1											
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345 1								0.00076	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345 1								0.22211	0.00000	2.5	2.5
14361	2564.4	7423.3	L: 129281 GLNWD GT	138	129282 GLNWD NO	138 1				-1.2	-379.0	-0.14731		-0.14731	105.1	-272.6	
			C:SPRN-BRK-345														
			Open 126298 SPRBROOK	345	126299 REACBUS	345 BY								-0.23103	-0.00000	462.1	462.1
			Open 126299 REACBUS	345	147857 DVNPT NK	345 1											
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345 1											
			Open 128824 EGC DUM	345	128830 HMP HRBR	345 1											
			Open 128824 EGC DUM	345	128825 EGC PAR	345 1											
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345 1								0.00076	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345 1								0.22211	0.00000	2.5	2.5
14362	2564.4	7423.3	L: 129281 GLNWD GT	138	129282 GLNWD NO	138 1				-1.2	-379.0	-0.14731		-0.14731	105.1	-272.6	
			C:128824 EGC DUM	345	128825 EGC PAR	345 1 1394											
			Open 128824 EGC DUM	345	128825 EGC PAR	345 1								-0.23141	-0.00000	459.7	459.7
14364	2564.4	7423.3	L: 129281 GLNWD GT	138	129282 GLNWD NO	138 1				-1.2	-379.0	-0.14731		-0.14731	105.1	-272.6	
			C:128824 EGC DUM	345	128830 HMP HRBR	345 1 1395											
			Open 128824 EGC DUM	345	128830 HMP HRBR	345 1								0.23141	0.00000	-459.7	-459.7
14381	2568.6	7427.5	L: 129265 CARLE PL	138	129270 E.G.C.	138 1				-162.8	339.0	0.19537		0.14378	-146.9	222.4	
			C:129281 GLNWD GT	138	129288 ROSLYN	138 1 1426											
			Open 129281 GLNWD GT	138	129288 ROSLYN	138 1								0.35020	0.14731	-45.4	333.0
14443	2576.6	7435.5	L: 126295 RAINEY	345	126641 MOTT HAVEN	345 3				-387.1	-783.0	-0.15364					
			Base Case														
16038	2589.3	7448.2	L: 146758 CHESTER	138	146773 SGRLF138	138 1				202.0	317.0	0.04443		0.02737	126.2	197.1	
			C:125001 ROCK TAV	345	146754 MDTN TAP	345 1 9											
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345 1								-0.17871	-0.09548	-424.0	-671.2

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17745	2621.8	7480.7	L: 126295 RAINCY	345	126561	8E DUM	138	8	-236.1	252.0	0.18616					
			Base Case													
19209	2655.6	7514.5	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-179.8	339.0	0.19537	0.14378	-146.9	234.9		
			C:129270 E.G.C.	138	129288	ROSLYN	138	1								
			Open 129270 E.G.C.		138	129288	ROSLYN	138	1				-0.35020	-0.14731	93.9	-297.3
19220	2655.7	7514.6	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-42.8	339.0	0.14378	0.14378	-146.9	234.9		
			C:126299 REACBUS	345	147857	DVNPT NK	345	1								
			Open 126299 REACBUS		345	147857	DVNPT NK	345	1				0.22575	-0.00000	461.1	461.1
19249	2656.6	7515.5	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-43.0	339.0	0.14378	0.14378	-146.9	235.0		
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1								
			Open 128830 HMP HRBR		345	147857	DVNPT NK	345	1				-0.22575	0.00000	-460.5	-460.5
19267	2657.9	7516.8	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-43.2	339.0	0.14378	0.14378	-146.9	235.2		
			C:BUS:EGC_345					1622								
			Open 126299 REACBUS		345	147857	DVNPT NK	345	1				NA			
			Open 126298 SPRBROOK		345	126299	REACBUS	345	BY				0.22538	-0.00000	462.1	462.1
			Open 128830 HMP HRBR		345	147857	DVNPT NK	345	1				NA			
			Open 128824 EGC DUM		345	128830	HMP HRBR	345	1				NA			
			Open 128824 EGC DUM		345	128825	EGC PAR	345	1				NA			
			Open 128822 E.G.C.-1		345	128825	EGC PAR	345	1				-0.00074	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2		345	128825	EGC PAR	345	1				-0.21668	0.00000	2.5	2.5
19268	2657.9	7516.8	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-43.2	339.0	0.14378	0.14378	-146.9	235.2		
			C:SPRN-BRK-345					1777								
			Open 126298 SPRBROOK		345	126299	REACBUS	345	BY				0.22538	-0.00000	462.1	462.1
			Open 126299 REACBUS		345	147857	DVNPT NK	345	1				NA			
			Open 128830 HMP HRBR		345	147857	DVNPT NK	345	1				NA			
			Open 128824 EGC DUM		345	128830	HMP HRBR	345	1				NA			
			Open 128824 EGC DUM		345	128825	EGC PAR	345	1				NA			
			Open 128822 E.G.C.-1		345	128825	EGC PAR	345	1				-0.00074	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2		345	128825	EGC PAR	345	1				-0.21668	0.00000	2.5	2.5
19269	2657.9	7516.8	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-43.2	339.0	0.14378	0.14378	-146.9	235.2		
			C:128824 EGC DUM	345	128825	EGC PAR	345	1								
			Open 128824 EGC DUM		345	128825	EGC PAR	345	1				0.22575	-0.00000	459.7	459.7
19270	2657.9	7516.8	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-43.2	339.0	0.14378	0.14378	-146.9	235.2		
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1								
			Open 128824 EGC DUM		345	128830	HMP HRBR	345	1				-0.22575	0.00000	-459.7	-459.7
19337	2662.9	7521.8	L: 130794 DELHI115	115	130804	DEL T115	115	1	68.8	164.0	0.03577	0.01907	0.7	51.5		
			C:130753 FRASR345	345	130755	OAKDL345	345	1								
			Open 130753 FRASR345		345	130755	OAKDL345	345	1				-0.11754	-0.14208	-579.0	-957.4
19360	2668.5	7527.4	L: 129281 GLNWD GT	138	129282	GLNWD NO	138	1	14.1	-379.0	-0.14731	-0.14731	105.1	-288.0		
			C:128842 NEPTCONV	345	128847	NWBRG	345	1								
			Open 128842 NEPTCONV		345	128847	NWBRG	345	1				0.13664	0.00000	-666.3	-666.3
19390	2675.7	7534.6	*L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-183.8	339.0	0.19537	0.14378	-146.9	237.8		
			C:129281 GLNWD GT	138	129282	GLNWD NO	138	1								
			Open 129281 GLNWD GT		138	129282	GLNWD NO	138	1				-0.35020	-0.14731	105.1	-289.0
19391	2675.8	7534.7	L: 129282 GLNWD NO	138	129587	GLNWD NO	69.0	1	71.2	165.0	0.03505	0.02391	69.6	133.6		
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1								
			Open 129283 GLNWD SO		138	129293	SHORE RD	138	1				-0.06838	-0.16286	-24.0	-459.7
19451	2702.1	7561.0	*L: 129281 GLNWD GT	138	129282	GLNWD NO	138	1	157.5	-379.0	-0.19856	-0.14731	105.1	-292.9		

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				C:129265 CARLE PL	138	129270 E.G.C.	138	1	1416										
				Open 129265 CARLE PL	138	129270 E.G.C.	138	1											
19474	2716.8	7575.7	L:	125001 ROCK TAV	345	130750 COOPC345	345	2											
				C:SER:CMT34&MTR34					1593										
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1											
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1											
19493	2728.6	7587.5	L:	129283 GLNWD SO	138	129293 SHORE RD	138	1											
				C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1427										
				Open 129282 GLNWD NO	138	129293 SHORE RD	138	1											
19495	2729.9	7588.8	L:	129281 GLNWD GT	138	129282 GLNWD NO	138	1											
				Base Case															
19519	2744.1	7603.0	L:	125002 ROSETON	345	125190 ROSE GN1	24.0	1											
				Base Case															
19590	2791.8	7650.7	L:	146758 CHESTER	138	146771 SHOEM138	138	1											
				C:125002 ROSETON	345	126281 FISHKILL	345	1	10										
				Open 125002 ROSETON	345	126281 FISHKILL	345	1											
19591	2791.8	7650.7	L:	146758 CHESTER	138	146771 SHOEM138	138	1											
				C:SIN:430					1682										
				Open 125002 ROSETON	345	126281 FISHKILL	345	1											
19625	2803.8	7662.7	L:	129282 GLNWD NO	138	129293 SHORE RD	138	1											
				C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1428										
				Open 129283 GLNWD SO	138	129293 SHORE RD	138	1											
20952	2832.2	7691.1	L:	Interface 29 ConEd-LIPA															
				Base Case															
21224	2851.1	7710.0	L:	129265 CARLE PL	138	129270 E.G.C.	138	1											
				Base Case															
21247	2865.2	7724.1	L:	137451 LEEDS 3	345	137452 N.SCOT77	345	1											
				C:137451 LEEDS 3	345	147831 GILB 345	345	1	1007										
				Open 137451 LEEDS 3	345	147831 GILB 345	345	1											
21272	2869.8	7728.7	L:	129283 GLNWD SO	138	129293 SHORE RD	138	1											
				C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1426										
				Open 129281 GLNWD GT	138	129288 ROSLYN	138	1											
21279	2871.5	7730.4	L:	126480 RAINEY8E	138	126561 8E DUM	138	1											
				C:126298 SPRBROOK	345	126301 TREMONT	345	1	1364										
				Open 126298 SPRBROOK	345	126301 TREMONT	345	1											
21282	2872.2	7731.1	L:	126480 RAINEY8E	138	126561 8E DUM	138	1											
				C:BUS:TREMONT_345					1631										
				Open 126466 SECT 11	138	126470 38X01 T	138	1											
				Open 126466 SECT 11	138	126471 38X02 T	138	1											
				Open 126462 PARK TR1	138	126466 SECT 11	138	1		NA									
				Open 126467 SECT 12	138	126472 38X03 T	138	1											
				Open 126467 SECT 12	138	126473 38X04 T	138	1											
				Open 126463 PARK TR2	138	126467 SECT 12	138	1		NA									
				Open 126301 TREMONT	345	126462 PARK TR1	138	1		NA									
				Open 126301 TREMONT	345	126463 PARK TR2	138	1		NA									
				Open 126298 SPRBROOK	345	126301 TREMONT	345	1											
21313	2875.6	7734.5	L:	126480 RAINEY8E	138	126561 8E DUM	138	1											
				C:SPRN-ACDMY					1778										

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						Open 126298	SPRBROOK	345	126847	ACADEMY	345	1			-0.03882	0.00000	461.8	461.8
						Open 126780	SCK-PARW	138	126847	ACADEMY	345	1			-0.00000	-0.00000	-230.5	-230.5
						Open 126781	SCK-PARE	138	126847	ACADEMY	345	1			0.04276	0.00000	0.8	0.8
21381	2879.5	7738.4	L:	126480	RAINEY8E	138	126506	VERNON-E	138	1			-194.1	342.0	0.18616	0.18616	-212.7	323.4
			C:	126298	SPRBROOK	345	126301	TREMONT	345	1	1364							
						Open 126298	SPRBROOK	345	126301	TREMONT	345	1			0.04045	0.00000	461.0	461.0
21460	2880.2	7739.1	L:	126480	RAINEY8E	138	126506	VERNON-E	138	1			-194.2	342.0	0.18616	0.18616	-212.7	323.5
			C:	BUS:TREMONT_345							1631							
						Open 126466	SECT 11	138	126470	38X01 T	138	1			0.04045	-0.00000	114.4	114.4
						Open 126466	SECT 11	138	126471	38X02 T	138	1			0.04045	0.00000	114.7	114.7
						Open 126462	PARK TR1	138	126466	SECT 11	138	1	NA					
						Open 126467	SECT 12	138	126472	38X03 T	138	1			0.04045	0.00000	118.3	118.3
						Open 126467	SECT 12	138	126473	38X04 T	138	1			0.04045	-0.00000	110.7	110.7
						Open 126463	PARK TR2	138	126467	SECT 12	138	1	NA					
						Open 126301	TREMONT	345	126462	PARK TR1	138	1	NA					
						Open 126301	TREMONT	345	126463	PARK TR2	138	1	NA					
						Open 126298	SPRBROOK	345	126301	TREMONT	345	1			-0.00392	0.00000	2.9	2.9
22844	2883.5	7742.4	L:	126480	RAINEY8E	138	126506	VERNON-E	138	1			-194.8	342.0	0.18616	0.18616	-212.7	324.1
			C:	SPRN-ACDMY							1778							
						Open 126298	SPRBROOK	345	126847	ACADEMY	345	1			0.03882	0.00000	461.8	461.8
						Open 126780	SCK-PARW	138	126847	ACADEMY	345	1			0.00000	-0.00000	-230.5	-230.5
						Open 126781	SCK-PARE	138	126847	ACADEMY	345	1			-0.04276	0.00000	0.8	0.8
22961	2901.9	7760.8	L:	126481	RAINEY8W	138	126562	8W DUM	138	1			146.4	-372.0	-0.17864	-0.17864	164.5	-353.9
			C:	126298	SPRBROOK	345	126301	TREMONT	345	1	1364							
						Open 126298	SPRBROOK	345	126301	TREMONT	345	1			-0.03936	0.00000	461.0	461.0
22963	2902.6	7761.5	L:	126481	RAINEY8W	138	126562	8W DUM	138	1			146.5	-372.0	-0.17864	-0.17864	164.5	-354.0
			C:	BUS:TREMONT_345							1631							
						Open 126466	SECT 11	138	126470	38X01 T	138	1			-0.03936	-0.00000	114.4	114.4
						Open 126466	SECT 11	138	126471	38X02 T	138	1			-0.03936	0.00000	114.7	114.7
						Open 126462	PARK TR1	138	126466	SECT 11	138	1	NA					
						Open 126467	SECT 12	138	126472	38X03 T	138	1			-0.03936	0.00000	118.3	118.3
						Open 126467	SECT 12	138	126473	38X04 T	138	1			-0.03936	-0.00000	110.7	110.7
						Open 126463	PARK TR2	138	126467	SECT 12	138	1	NA					
						Open 126301	TREMONT	345	126462	PARK TR1	138	1	NA					
						Open 126301	TREMONT	345	126463	PARK TR2	138	1	NA					
						Open 126298	SPRBROOK	345	126301	TREMONT	345	1			0.00381	0.00000	2.9	2.9
22966	2903.3	7762.2	L:	126481	RAINEY8W	138	126507	VERNON-W	138	1			-146.6	372.0	0.17864	0.17864	-164.8	353.9
			C:	126298	SPRBROOK	345	126301	TREMONT	345	1	1364							
						Open 126298	SPRBROOK	345	126301	TREMONT	345	1			0.03936	0.00000	461.0	461.0
22972	2903.6	7762.5	L:	137451	LEEDS 3	345	137453	N.SCOT99	345	2			-1184.7	-1724.0	-0.18573	-0.14333	-861.9	-1278.0
			C:	137451	LEEDS 3	345	147831	GILB 345	345	1	1007							
						Open 137451	LEEDS 3	345	147831	GILB 345	345	1			0.34992	-0.12117	-922.6	-1274.5
22973	2904.0	7762.9	L:	126481	RAINEY8W	138	126507	VERNON-W	138	1			-146.8	372.0	0.17864	0.17864	-164.8	354.0
			C:	BUS:TREMONT_345							1631							
						Open 126466	SECT 11	138	126470	38X01 T	138	1			0.03936	-0.00000	114.4	114.4
						Open 126466	SECT 11	138	126471	38X02 T	138	1			0.03936	0.00000	114.7	114.7
						Open 126462	PARK TR1	138	126466	SECT 11	138	1	NA					
						Open 126467	SECT 12	138	126472	38X03 T	138	1			0.03936	0.00000	118.3	118.3

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				Open 126467 SECT 12	138	126473	38X04 T	138	1			0.03936	-0.00000	110.7	110.7		
				Open 126463 PARK TR2	138	126467	SECT 12	138	1	NA							
				Open 126301 TREMONT	345	126462	PARK TR1	138	1	NA							
				Open 126301 TREMONT	345	126463	PARK TR2	138	1	NA							
				Open 126298 SPRBROOK	345	126301	TREMONT	345	1			-0.00381	0.00000	2.9	2.9		
22975	2904.6	7763.5	L:	129283 GLNWD SO	138	129293	SHORE RD	138	1			-24.0	-497.0	-0.16286			
				Base Case													
22982	2906.0	7764.9	L:	126481 RAINEY8W	138	126562	8W DUM	138	1			147.1	-372.0	-0.17864	-0.17864	164.5	-354.6
				C:SPRN-ACDMY													
				Open 126298 SPRBROOK	345	126847	ACADEMY	345	1			-0.03777	0.00000	461.8	461.8		
				Open 126780 SCK-PARW	138	126847	ACADEMY	345	1			0.00000	-0.00000	-230.5	-230.5		
				Open 126781 SCK-PARE	138	126847	ACADEMY	345	1			0.04161	0.00000	0.8	0.8		
22986	2907.4	7766.3	L:	126481 RAINEY8W	138	126507	VERNON-W	138	1			-147.4	372.0	0.17864	0.17864	-164.8	354.6
				C:SPRN-ACDMY													
				Open 126298 SPRBROOK	345	126847	ACADEMY	345	1			0.03777	0.00000	461.8	461.8		
				Open 126780 SCK-PARW	138	126847	ACADEMY	345	1			-0.00000	-0.00000	-230.5	-230.5		
				Open 126781 SCK-PARE	138	126847	ACADEMY	345	1			-0.04161	0.00000	0.8	0.8		
23041	2930.6	7789.6	L:	126295 RAINEY	345	126641	MOTT HAVEN	345	4			-362.8	-783.0	-0.14340			
				Base Case													
23073	2935.2	7794.1	L:	126480 RAINEY8E	138	126561	8E DUM	138	1			204.4	-342.0	-0.18616	-0.18616	211.2	-335.2
				C:126374 DUN SO1R	138	126385	E179 ST	138	1	1370							
				Open 126374 DUN SO1R	138	126385	E179 ST	138	1			-0.03414	0.00000	199.3	199.3		
24401	2938.9	7797.8	L:	126480 RAINEY8E	138	126561	8E DUM	138	1			205.5	-342.0	-0.18630	-0.18616	211.2	-335.9
				C:SER:W90&W74													
				Open 126266 DUNWODIE	345	126293	PL VILLW	345	1			0.00087	-0.18829	-988.7	-1542.1		
				Open 126342 W74 TAP	345	126368	DUN NO	138	1			-0.01608	-0.00137	300.2	296.2		
				Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1			-0.00056	0.00001	40.6	40.6		
				Open 126293 PL VILLW	345	126305	WOOD A	345	1			0.00318	0.00000	2.9	2.9		
24551	2940.4	7799.3	L:	126480 RAINEY8E	138	126561	8E DUM	138	1			206.8	-342.0	-0.18664	-0.18616	211.2	-336.2
				C:SIN:120													
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			-0.00323	0.07423	786.1	1004.3		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			-0.00323	0.07423	786.1	1004.3		
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.00147	0.00000	39.7	39.7		
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
				Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch						
24552	2940.4	7799.3	L:	126480 RAINEY8E	138	126561	8E DUM	138	1			206.8	-342.0	-0.18664	-0.18616	211.2	-336.2
				C:SIN:130													
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			-0.00323	0.07423	786.1	1004.3		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			-0.00323	0.07423	786.1	1004.3		
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.00147	0.00000	39.7	39.7		
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
				Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch						
24597	2942.1	7801.0	L:	126480 RAINEY8E	138	126561	8E DUM	138	1			206.1	-342.0	-0.18631	-0.18616	211.2	-336.5
				C:SER:W89&W73													

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				Open 126266 DUNWODIE	345	126292 PL VILLE	345	1				0.00089	-0.18747	-1028.2	-1579.8
				Open 126343 W73 TAP	345	126372 DUN SO	138	1				-0.01343	-0.00137	310.6	306.6
24617	2943.1	7802.0	L:	126480 RAINEY8E	138	126506 VERNON-E	138	1	-205.9	342.0	0.18616		0.18616	-212.7	335.2
			C:	126374 DUN SO1R	138	126385 E179 ST	138	1							
				Open 126374 DUN SO1R	138	126385 E179 ST	138	1				0.03414	0.00000	199.3	199.3
24633	2945.7	7804.6	*L:	126480 RAINEY8E	138	126561 8E DUM	138	1	207.6	-342.0	-0.18657		-0.18616	211.2	-337.2
			C:	SIN:280										1678	
				Open 126262 BUCHANAN N	345	126267 E VIEW 2N	345	1				-0.00262	0.13347	1132.5	1525.6
				Open 126267 E VIEW 2N	345	126298 SPRBROOK	345	1				-0.00040	0.13649	930.6	1332.7
				Open 126267 E VIEW 2N	345	126378 EASTVIEW	138	1				0.00434	0.00000	1.9	1.9
				Open 126262 BUCHANAN N	345	126360 BUCHNTA5	138	1				-0.00223	0.00278	137.2	145.4
24642	2946.8	7805.7	L:	126480 RAINEY8E	138	126506 VERNON-E	138	1	-207.0	342.0	0.18630		0.18616	-212.7	335.9
			C:	SER:W90&W74										1583	
				Open 126266 DUNWODIE	345	126293 PL VILLW	345	1				-0.00087	-0.18829	-988.7	-1543.6
				Open 126342 W74 TAP	345	126368 DUN NO	138	1				0.01608	-0.00137	300.2	296.2
				Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1				0.00056	0.00001	40.6	40.6
				Open 126293 PL VILLW	345	126305 WOOD A	345	1				-0.00318	0.00000	2.9	2.9
24648	2948.3	7807.2	L:	126480 RAINEY8E	138	126506 VERNON-E	138	1	-208.3	342.0	0.18664		0.18616	-212.7	336.2
			C:	SIN:130										1668	
				Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				0.00323	0.07423	786.1	1004.9
				Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				0.00323	0.07423	786.1	1004.9
				Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				-0.00147	0.00000	39.7	39.7
				Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA				
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA				
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA				
				Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch					
24649	2948.3	7807.2	L:	126480 RAINEY8E	138	126506 VERNON-E	138	1	-208.3	342.0	0.18664		0.18616	-212.7	336.2
			C:	SIN:120										1667	
				Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				0.00323	0.07423	786.1	1004.9
				Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				0.00323	0.07423	786.1	1004.9
				Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				-0.00147	0.00000	39.7	39.7
				Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA				
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA				
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA				
				Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch					
24667	2950.0	7808.9	L:	126480 RAINEY8E	138	126506 VERNON-E	138	1	-207.6	342.0	0.18631		0.18616	-212.7	336.5
			C:	SER:W89&W73										1584	
				Open 126266 DUNWODIE	345	126292 PL VILLE	345	1				-0.00089	-0.18747	-1028.2	-1581.3
				Open 126343 W73 TAP	345	126372 DUN SO	138	1				0.01343	-0.00137	310.6	306.5
24700	2953.6	7812.5	*L:	126480 RAINEY8E	138	126506 VERNON-E	138	1	-209.1	342.0	0.18657		0.18616	-212.7	337.2
			C:	SIN:280										1678	
				Open 126262 BUCHANAN N	345	126267 E VIEW 2N	345	1				0.00262	0.13347	1132.5	1526.7
				Open 126267 E VIEW 2N	345	126298 SPRBROOK	345	1				0.00040	0.13649	930.6	1333.8
				Open 126267 E VIEW 2N	345	126378 EASTVIEW	138	1				-0.00434	0.00000	1.9	1.9
				Open 126262 BUCHANAN N	345	126360 BUCHNTA5	138	1				0.00223	0.00278	137.2	145.4
24714	2954.6	7813.5	L:	129283 GLNWD SO	138	129293 SHORE RD	138	1	12.0	-636.0	-0.21933		-0.16286	-24.0	-505.1
			C:	129270 E.G.C.	138	129288 ROSLYN	138	1							1419
				Open 129270 E.G.C.	138	129288 ROSLYN	138	1				0.38333	-0.14731	93.9	-341.4

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24827	2966.4	7825.3	L: 126481 RAINY8W	138	126562	8W DUM	138	1	157.9	-372.0	-0.17864	-0.17864	164.5	-365.4
			C:126374 DUN SOLR	138	126385	E179 ST	138	1	1370					
			Open 126374 DUN SOLR		138	126385	E179 ST	138	1		-0.03322	0.00000	199.3	199.3
24843	2967.8	7826.7	L: 126481 RAINY8W	138	126507	VERNON-W	138	1	-158.2	372.0	0.17864	0.17864	-164.8	365.4
			C:126374 DUN SOLR	138	126385	E179 ST	138	1	1370					
			Open 126374 DUN SOLR		138	126385	E179 ST	138	1		0.03322	0.00000	199.3	199.3
24903	2970.2	7829.1	L: 126481 RAINY8W	138	126562	8W DUM	138	1	159.0	-372.0	-0.17878	-0.17864	164.5	-366.0
			C:SER:W90&W74					1583						
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1			0.00084	-0.18829	-988.7	-1548.0
			Open 126342 W74 TAP	345	126368	DUN NO	138	1			-0.01565	-0.00137	300.2	296.2
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1			-0.00055	0.00001	40.6	40.6
			Open 126293 PL VILLW	345	126305	WOOD A	345	1			0.00309	0.00000	2.9	2.9
25053	2971.6	7830.5	L: 126481 RAINY8W	138	126507	VERNON-W	138	1	-159.2	372.0	0.17878	0.17864	-164.8	366.0
			C:SER:W90&W74					1583						
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1			-0.00084	-0.18829	-988.7	-1548.3
			Open 126342 W74 TAP	345	126368	DUN NO	138	1			0.01565	-0.00137	300.2	296.2
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1			0.00055	0.00001	40.6	40.6
			Open 126293 PL VILLW	345	126305	WOOD A	345	1			-0.00309	0.00000	2.9	2.9
25125	2971.6	7830.6	L: 126481 RAINY8W	138	126562	8W DUM	138	1	160.2	-372.0	-0.17911	-0.17864	164.5	-366.3
			C:SIN:120					1667						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			-0.00314	0.07423	786.1	1006.6
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			-0.00314	0.07423	786.1	1006.6
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.00142	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2						
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch					
25126	2971.6	7830.6	L: 126481 RAINY8W	138	126562	8W DUM	138	1	160.2	-372.0	-0.17911	-0.17864	164.5	-366.3
			C:SIN:130					1668						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			-0.00314	0.07423	786.1	1006.6
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			-0.00314	0.07423	786.1	1006.6
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.00142	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2						
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch					
26513	2973.0	7832.0	L: 126481 RAINY8W	138	126507	VERNON-W	138	1	-160.5	372.0	0.17911	0.17864	-164.8	366.3
			C:SIN:130					1668						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00314	0.07423	786.1	1006.7
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00314	0.07423	786.1	1006.7
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00142	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2						
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch					
26514	2973.0	7832.0	L: 126481 RAINY8W	138	126507	VERNON-W	138	1	-160.5	372.0	0.17911	0.17864	-164.8	366.3
			C:SIN:120					1667						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00314	0.07423	786.1	1006.7

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			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2		0.00314	0.07423	786.1	1006.7		
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1		-0.00142	0.00000	39.7	39.7		
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA						
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch						
26526	2973.4	7832.3	L: 126481 RAINEY8W	138	126562	8W DUM	138	1		159.6	-372.0	-0.17878	-0.17864	164.5	-366.6
			C:SER:W89&W73					1584							
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1		0.00086	-0.18747	-1028.2	-1585.6		
			Open 126343 W73 TAP	345	126372	DUN SO	138	1		-0.01307	-0.00137	310.6	306.5		
26552	2974.3	7833.2	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1		16.4	-636.0	-0.21933	-0.16286	-24.0	-508.3
			C:129281 GLNWD GT	138	129282	GLNWD NO	138	1	1425						
			Open 129281 GLNWD GT	138	129282	GLNWD NO	138	1				0.38333	-0.14731	105.1	-333.0
26564	2974.8	7833.7	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1		-159.8	372.0	0.17878	0.17864	-164.8	366.6
			C:SER:W89&W73					1584							
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1		-0.00086	-0.18747	-1028.2	-1585.9		
			Open 126343 W73 TAP	345	126372	DUN SO	138	1		0.01307	-0.00137	310.6	306.5		
26612	2977.1	7836.0	*L: 126481 RAINEY8W	138	126562	8W DUM	138	1		161.0	-372.0	-0.17904	-0.17864	164.5	-367.3
			C:SIN:280					1678							
			Open 126262 BUCHANAN N	345	126267	E VIEW 2N	345	1		-0.00255	0.13347	1132.5	1529.8		
			Open 126267 E VIEW 2N	345	126298	SPRBROOK	345	1		-0.00039	0.13649	930.6	1337.0		
			Open 126267 E VIEW 2N	345	126378	EASTVIEW	138	1		0.00422	0.00000	1.9	1.9		
			Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1		-0.00217	0.00278	137.2	145.5		
26647	2978.5	7837.4	*L: 126481 RAINEY8W	138	126507	VERNON-W	138	1		-161.3	372.0	0.17904	0.17864	-164.8	367.3
			C:SIN:280					1678							
			Open 126262 BUCHANAN N	345	126267	E VIEW 2N	345	1		0.00255	0.13347	1132.5	1530.0		
			Open 126267 E VIEW 2N	345	126298	SPRBROOK	345	1		0.00039	0.13649	930.6	1337.2		
			Open 126267 E VIEW 2N	345	126378	EASTVIEW	138	1		-0.00422	0.00000	1.9	1.9		
			Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1		0.00217	0.00278	137.2	145.5		
28294	2987.3	7846.2	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1		-544.2	-707.0	-0.05451	-0.03276	-447.6	-545.5
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	9						
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1		0.22773	-0.09548	-424.0	-709.2		

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, APR 30 2009 16:58
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3_coned.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From ABCDEFG_EXP To J_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 37109 violations

Interface-1 Interface 12 I-TO-J Init.Flow= 3922.64 TDF= 1.0000

N	FCITC IntFcel L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
	C: Contingency description	Ncon	Flow	Rating	LODF	Init	Final
1	-110220.-106298. L: Interface 20 PJM-CENT	3329.2	0.0	0.03021	0.02229	3270.9	814.5
	C:137200 EDIC 345 137452 N.SCOT77 345 1 946						
	Open 137200 EDIC 345 137452 N.SCOT77 345 1				0.07100	821.7	-11471.9
2	-109719.-105797. L: Interface 20 PJM-CENT	3336.7	0.0	0.03041	0.02229	3270.9	825.6
	C:SIN:150 1669						
	Open 137200 EDIC 345 137452 N.SCOT77 345 1				0.07285	821.7	-11416.1
	Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1				0.05010	119.9	119.9
	Open 137235 PORTER 1 115 147905 ILION 115 1				-0.00015	88.8	139.9
3	-109719.-105796. L: Interface 20 PJM-CENT	3336.7	-0.0	0.03041	0.02229	3270.9	825.7
	C:SIN:160 1670						
	Open 137200 EDIC 345 137452 N.SCOT77 345 1				0.07285	821.7	-11416.0
	Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1				0.05012	119.9	119.9
	Open 137235 PORTER 1 115 137246 VALLEY 115 1				-0.00023	74.8	149.8
4	-107383.-103461. L: Interface 20 PJM-CENT	3338.1	-0.0	0.03109	0.02229	3270.9	877.7
	C:137453 N.SCOT99 345 147833 MARCY T1 345 1 1012						
	Open 137453 N.SCOT99 345 147833 MARCY T1 345 1				-0.07313	-919.1	12002.4
5	-106852.-102929. L: Interface 20 PJM-CENT	3346.0	0.0	0.03131	0.02229	3270.9	889.6
	C:SIN:180 1672						
	Open 137453 N.SCOT99 345 147833 MARCY T1 345 1				-0.07502	-919.1	11938.4

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		Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1		0.05105	0.00000	119.9	119.9
		Open 137235	PORTER 1	115	147905	ILION	115	1		-0.00015	-0.00047	88.8	138.6
6	-106851.-102929.	L: Interface	20	PJM-CENT					3345.9	-0.0	0.03131	0.02229	3270.9 889.6
		C:SIN:170						1671					
		Open 137453	N.SCOT99	345	147833	MARCY T1	345	1		-0.07502	-0.12033	-919.1	11938.3
		Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1		0.05107	0.00000	119.9	119.9
		Open 137235	PORTER 1	115	137246	VALLEY	115	1		-0.00023	-0.00068	74.8	147.9
7	-105851.-101929.	L: Interface	20	PJM-CENT					3340.4	0.0	0.03156	0.02229	3270.9 911.9
		C:130750	COOPC345	345	147833	MARCY T1	345	1 196					
		Open 130750	COOPC345	345	147833	MARCY T1	345	1		-0.09420	-0.09842	-738.2	9679.7
8	-105083.-101160.	L: Interface	20	PJM-CENT					3471.6	-0.0	0.03304	0.02229	3270.9 929.0
		C:SIN:30						1665					
		Open 126260	BOWLINE1	345	146841	BOWL	20.0	1	NA				
		Open 126260	BOWLINE1	345	146750	WHAHV345	345	10		-0.42624	-0.02517	-470.7	2174.1
		Open 126290	LADENTWN	345	146750	WHAHV345	345	1		-0.00074	-0.03122	-170.5	3110.5
9	-100617.-96694.6	L: Interface	20	PJM-CENT					3347.1	-0.0	0.03327	0.02229	3270.9 1028.5
		C:BUS:N.S._77						1614					
		Open 137452	N.SCOT77	345	137453	N.SCOT99	345	1		-0.02395	-0.01679	-247.8	1441.7
		Open 137452	N.SCOT77	345	137516	N.SCOT1	115	1		-0.02639	-0.01951	111.6	2074.4
		Open 137200	EDIC	345	137452	N.SCOT77	345	1		0.09068	0.11154	821.7	-10400.8
		Open 137450	ALPS345	345	137452	N.SCOT77	345	1		0.01446	-0.00358	-91.5	268.9
		Open 137451	LEEDS 3	345	137452	N.SCOT77	345	1		-0.50288	0.00000	-0.0	-0.0
10	-99941.9-96019.2	*L: Interface	20	PJM-CENT					3499.2	0.0	0.03501	0.02229	3270.9 1043.6
		C:SER:HCWC/NWES						1607					
		Open 130757	WATRC345	345	200769	HOMER CY	345	1		-0.41471	-0.03174	-544.6	2627.6
		Open 130836	N.WAV115	115	200676	E.SAYRE	115	1		0.05800	-0.00753	42.6	795.4
22	-38876.6-34954.0	L: Interface	23	QFW					1183.2	0.0	0.03043	0.01977	1092.7 324.2
		C:130754	KINTI345	345	149000	ROCH 345	345	1 205					
		Open 130754	KINTI345	345	149000	ROCH 345	345	1		0.17203	0.06200	525.9	-1884.4
23	-35505.7-31583.1	L: Interface	23	QFW					1080.5	-0.0	0.03043	0.01977	1092.7 390.8
		C:136150	CLAY	345	149001	PANNELL3	345	1 717					
		Open 136150	CLAY	345	149001	PANNELL3	345	1		-0.14084	-0.07571	86.8	2774.9
24	-35440.1-31517.5	L: Interface	23	QFW					1080.4	0.0	0.03049	0.01977	1092.7 392.1
		C:136150	CLAY	345	149001	PANNELL3	345	2 718					
		Open 136150	CLAY	345	149001	PANNELL3	345	2		-0.14110	-0.07595	87.0	2778.9
25	-35016.5-31093.9	L: Interface	23	QFW					1180.7	0.0	0.03372	0.01977	1092.7 400.5
		C:147834	NIAG 345	345	149000	ROCH 345	345	1 1226					
		Open 147834	NIAG 345	345	149000	ROCH 345	345	1		0.20738	0.06726	424.1	-1931.1
26	-19694.0-15771.4	L: Interface	60	C2PJMC					-625.1	-0.0	-0.03174	-0.03174	-544.6 80.5
		C:GEN:9 MI PT2						1561					
		Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5 MW	dispatch						
27	-19694.0-15771.4	L: Interface	61	PJMC2C					625.1	0.0	0.03174	0.03174	544.6 -80.5
		C:GEN:9 MI PT2						1561					
		Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5 MW	dispatch						
28	-19694.0-15771.4	L: Interface	47	C-PJMWest					-625.1	-0.0	-0.03174	-0.03174	-544.6 80.5
		C:GEN:9 MI PT2						1561					
		Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5 MW	dispatch						
29	-19694.0-15771.4	L: Interface	48	PJMWest-C					625.1	0.0	0.03174	0.03174	544.6 -80.5

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		C:GEN:9 MI PT2			1561						
		Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch					
30	-19302.7-15380.0	L: Interface	47 C-PJMWest				-612.7	0.0	-0.03174	-0.03174	-544.6 68.1
		C:SIN:250			1677						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				-0.00000	0.00000	-0.1 -0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
31	-19302.7-15380.0	L: Interface	60 C2PJMC				-612.7	0.0	-0.03174	-0.03174	-544.6 68.1
		C:SIN:250			1677						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				-0.00000	0.00000	-0.1 -0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
32	-19302.7-15380.0	L: Interface	48 PJMWest-C				612.7	-0.0	0.03174	0.03174	544.6 -68.1
		C:SIN:250			1677						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				0.00000	0.00000	-0.1 -0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
33	-19302.7-15380.0	L: Interface	61 PJMC2C				612.7	-0.0	0.03174	0.03174	544.6 -68.1
		C:SIN:250			1677						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				0.00000	0.00000	-0.1 -0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
34	-19300.5-15377.9	L: Interface	47 C-PJMWest				-612.6	-0.0	-0.03174	-0.03174	-544.6 68.0
		C:GEN:SEAB&OMS			1575						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				-0.00000	0.00000	-0.1 -0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
35	-19300.5-15377.9	L: Interface	60 C2PJMC				-612.6	-0.0	-0.03174	-0.03174	-544.6 68.0
		C:GEN:SEABROOK			1573						
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
36	-19300.5-15377.9	L: Interface	60 C2PJMC				-612.6	-0.0	-0.03174	-0.03174	-544.6 68.0
		C:GEN:SEAB&OMS			1575						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				-0.00000	0.00000	-0.1 -0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
37	-19300.5-15377.9	L: Interface	48 PJMWest-C				612.6	0.0	0.03174	0.03174	544.6 -68.0
		C:GEN:SEABROOK			1573						
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
38	-19300.5-15377.9	L: Interface	47 C-PJMWest				-612.6	-0.0	-0.03174	-0.03174	-544.6 68.0
		C:GEN:SEABROOK			1573						
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
39	-19300.5-15377.9	L: Interface	48 PJMWest-C				612.6	0.0	0.03174	0.03174	544.6 -68.0
		C:GEN:SEAB&OMS			1575						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				0.00000	0.00000	-0.1 -0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
40	-19300.5-15377.9	L: Interface	61 PJMC2C				612.6	0.0	0.03174	0.03174	544.6 -68.0
		C:GEN:SEAB&OMS			1575						
		Open 100508	SANDB115 115 100509 SB RCTOR		115 2				0.00000	0.00000	-0.1 -0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
41	-19300.5-15377.9	L: Interface	61 PJMC2C				612.6	0.0	0.03174	0.03174	544.6 -68.0
		C:GEN:SEABROOK			1573						
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
42	-19131.8-15209.2	L: Interface	47 C-PJMWest				-607.2	-0.0	-0.03174	-0.03174	-544.6 62.7
		C:GEN:MLS3&OMS			1574						

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		Open 100508 SANDB115	115 100509 SB RCTOR	115 2				-0.00000	0.00000	-0.1	-0.1		
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
43	-19131.8-15209.2	L: Interface	60 C2PJMC					-607.2	-0.0	-0.03174	-0.03174	-544.6	62.7
		C:GEN:MILLST 3											
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
44	-19131.8-15209.2	L: Interface	61 PJMC2C					607.2	0.0	0.03174	0.03174	544.6	-62.7
		C:GEN:MILLST 3											
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
45	-19131.8-15209.2	L: Interface	61 PJMC2C					607.2	0.0	0.03174	0.03174	544.6	-62.7
		C:GEN:MLS3&OMS											
		Open 100508 SANDB115	115 100509 SB RCTOR	115 2						0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
46	-19131.8-15209.2	L: Interface	47 C-PJMWest					-607.2	-0.0	-0.03174	-0.03174	-544.6	62.7
		C:GEN:MILLST 3											
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
47	-19131.8-15209.2	L: Interface	48 PJMWest-C					607.2	0.0	0.03174	0.03174	544.6	-62.7
		C:GEN:MILLST 3											
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
48	-19131.8-15209.2	L: Interface	60 C2PJMC					-607.2	-0.0	-0.03174	-0.03174	-544.6	62.7
		C:GEN:MLS3&OMS											
		Open 100508 SANDB115	115 100509 SB RCTOR	115 2						-0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
49	-19131.8-15209.2	L: Interface	48 PJMWest-C					607.2	0.0	0.03174	0.03174	544.6	-62.7
		C:GEN:MLS3&OMS											
		Open 100508 SANDB115	115 100509 SB RCTOR	115 2						0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
50	-19044.1-15121.5	L: Interface	60 C2PJMC					-630.9	-0.0	-0.03313	-0.03174	-544.6	59.9
		C:HQ-NY-765-New											
		Open 147827 MARCY765	765 147828 MASS 765	765 1		NA							
		Open 147828 MASS 765	765 180819 CHA-NY	765 1		NA							
		Open 147827 MARCY765	765 147833 MARCY T1	345 1				-0.02483	0.02986		624.6	56.0	
		Open 147827 MARCY765	765 147833 MARCY T1	345 2				-0.02483	0.02596		543.5	49.1	
		Open 156 MCY765SW	0.0 147827 MARCY765	765 1		NA							
		Open 147838 MASS230B	230 147839 MOSES E	230 1						0.00000	-0.02791	10.4	542.0
		Open 147828 MASS 765	765 147838 MASS230B	230 1		NA							
		Open 147837 MASS230A	230 147839 MOSES E	230 1						0.05514	0.00000	18.8	18.8
		Open 147828 MASS 765	765 147837 MASS230A	230 1		NA							
		Open 158 MS765SW2	0.0 147828 MASS 765	765 1		NA							
		Open 157 MS765SW1	0.0 147828 MASS 765	765 1		NA							
		Decrease bus 180001 BEA-DLX	13.8 generation by	100.0		percent dispatch							
		Set bus 181319 CHAT G3	120 load to	357.0		MW dispatch							
		Decrease bus 180002 BEA-DL	13.8 generation by	100.0		percent dispatch							
		Set bus 181419 CHAT G4	120 load to	357.0		MW dispatch							
51	-19044.1-15121.5	L: Interface	47 C-PJMWest					-630.9	-0.0	-0.03313	-0.03174	-544.6	59.9
		C:HQ-NY-765-New											
		Open 147827 MARCY765	765 147828 MASS 765	765 1		NA							
		Open 147828 MASS 765	765 180819 CHA-NY	765 1		NA							
		Open 147827 MARCY765	765 147833 MARCY T1	345 1				-0.02483	0.02986		624.6	56.0	

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Open	147827	MARCY765	765	147833	MARCY T1	345	2					-0.02483	0.02596	543.5	49.1
Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA							
Open	147838	MASS230B	230	147839	MOSES E	230	1					0.00000	-0.02791	10.4	542.0
Open	147828	MASS 765	765	147838	MASS230B	230	1	NA							
Open	147837	MASS230A	230	147839	MOSES E	230	1					0.05514	0.00000	18.8	18.8
Open	147828	MASS 765	765	147837	MASS230A	230	1	NA							
Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA							
Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA							
Decrease	bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch								
Set	bus	181319	CHAT G3	120	load to	357.0	MW dispatch								
Decrease	bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch								
Set	bus	181419	CHAT G4	120	load to	357.0	MW dispatch								
52	-19044.1-15121.5	L: Interface	48	PJMWest-C		630.9	0.0	0.03313				0.03174		544.6	-59.9
		C:HQ-NY-765-New				1776									
Open	147827	MARCY765	765	147828	MASS 765	765	1	NA							
Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA							
Open	147827	MARCY765	765	147833	MARCY T1	345	1					0.02483	0.02986	624.6	56.0
Open	147827	MARCY765	765	147833	MARCY T1	345	2					0.02483	0.02596	543.5	49.1
Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA							
Open	147838	MASS230B	230	147839	MOSES E	230	1					-0.00000	-0.02791	10.4	542.0
Open	147828	MASS 765	765	147838	MASS230B	230	1	NA							
Open	147837	MASS230A	230	147839	MOSES E	230	1					-0.05514	0.00000	18.8	18.8
Open	147828	MASS 765	765	147837	MASS230A	230	1	NA							
Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA							
Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA							
Decrease	bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch								
Set	bus	181319	CHAT G3	120	load to	357.0	MW dispatch								
Decrease	bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch								
Set	bus	181419	CHAT G4	120	load to	357.0	MW dispatch								
53	-19044.1-15121.5	L: Interface	61	PJMC2C		630.9	0.0	0.03313				0.03174		544.6	-59.9
		C:HQ-NY-765-New				1776									
Open	147827	MARCY765	765	147828	MASS 765	765	1	NA							
Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA							
Open	147827	MARCY765	765	147833	MARCY T1	345	1					0.02483	0.02986	624.6	56.0
Open	147827	MARCY765	765	147833	MARCY T1	345	2					0.02483	0.02596	543.5	49.1
Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA							
Open	147838	MASS230B	230	147839	MOSES E	230	1					-0.00000	-0.02791	10.4	542.0
Open	147828	MASS 765	765	147838	MASS230B	230	1	NA							
Open	147837	MASS230A	230	147839	MOSES E	230	1					-0.05514	0.00000	18.8	18.8
Open	147828	MASS 765	765	147837	MASS230A	230	1	NA							
Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA							
Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA							
Decrease	bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch								
Set	bus	181319	CHAT G3	120	load to	357.0	MW dispatch								
Decrease	bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch								
Set	bus	181419	CHAT G4	120	load to	357.0	MW dispatch								
54	-19018.9-15096.2	L: Interface	48	PJMWest-C		597.6	0.0	0.03142				0.03174		544.6	-59.1
		C:GEN:FITZPATR				1559									

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	Open	136155	SCRIBA	345	147830	JA	FITZP	345	1			-0.00489	0.07048	-67.1	-1407.6		
	Open	137200	EDIC	345	147830	JA	FITZP	345	1			-0.07692	-0.00032	43.5	49.6		
	Remove unit 1	from bus	147797	JAFITZ1G	24.0			886.8	MW	dispatch							
55	-19018.9-15096.2	L: Interface	47	C-PJMWest								-597.6	-0.0	-0.03142	-0.03174	-544.6	59.1
		C:GEN:FITZPATR						1559									
	Open	136155	SCRIBA	345	147830	JA	FITZP	345	1			0.00489	0.07048	-67.1	-1407.6		
	Open	137200	EDIC	345	147830	JA	FITZP	345	1			0.07692	-0.00032	43.5	49.6		
	Remove unit 1	from bus	147797	JAFITZ1G	24.0			886.8	MW	dispatch							
56	-19018.9-15096.2	L: Interface	60	C2PJMC								-597.6	-0.0	-0.03142	-0.03174	-544.6	59.1
		C:GEN:FITZPATR						1559									
	Open	136155	SCRIBA	345	147830	JA	FITZP	345	1			0.00489	0.07048	-67.1	-1407.6		
	Open	137200	EDIC	345	147830	JA	FITZP	345	1			0.07692	-0.00032	43.5	49.6		
	Remove unit 1	from bus	147797	JAFITZ1G	24.0			886.8	MW	dispatch							
57	-19018.9-15096.2	L: Interface	61	PJMC2C								597.6	0.0	0.03142	0.03174	544.6	-59.1
		C:GEN:FITZPATR						1559									
	Open	136155	SCRIBA	345	147830	JA	FITZP	345	1			-0.00489	0.07048	-67.1	-1407.6		
	Open	137200	EDIC	345	147830	JA	FITZP	345	1			-0.07692	-0.00032	43.5	49.6		
	Remove unit 1	from bus	147797	JAFITZ1G	24.0			886.8	MW	dispatch							
58	-18498.1-14575.5	L: Interface	47	C-PJMWest								-587.1	0.0	-0.03174	-0.03174	-544.6	42.6
		C:GEN:IND PT 3						1555									
	Remove unit 1	from bus	147798	IP#3 GEN	22.0			1072.8	MW	dispatch							
59	-18498.1-14575.5	L: Interface	61	PJMC2C								587.1	-0.0	0.03174	0.03174	544.6	-42.6
		C:GEN:IND PT 3						1555									
	Remove unit 1	from bus	147798	IP#3 GEN	22.0			1072.8	MW	dispatch							
60	-18498.1-14575.5	L: Interface	60	C2PJMC								-587.1	0.0	-0.03174	-0.03174	-544.6	42.6
		C:GEN:IND PT 3						1555									
	Remove unit 1	from bus	147798	IP#3 GEN	22.0			1072.8	MW	dispatch							
61	-18498.1-14575.5	L: Interface	48	PJMWest-C								587.1	-0.0	0.03174	0.03174	544.6	-42.6
		C:GEN:IND PT 3						1555									
	Remove unit 1	from bus	147798	IP#3 GEN	22.0			1072.8	MW	dispatch							
62	-18490.2-14567.5*L:	Interface	47	C-PJMWest								-587.6	0.0	-0.03178	-0.03174	-544.6	42.3
		C:MULT01						1653									
	Open	4	CNASTONE	500	26	HUNTERTN		500	1			0.02290	-0.00123	-1488.5	-1465.7		
	Open	26	HUNTERTN	500	1152	HUNTRSTN		230	1			-0.02213	0.00047	404.2	395.5		
63	-18490.2-14567.5*L:	Interface	48	PJMWest-C								587.6	-0.0	0.03178	0.03174	544.6	-42.3
		C:MULT01						1653									
	Open	4	CNASTONE	500	26	HUNTERTN		500	1			-0.02290	-0.00123	-1488.5	-1465.7		
	Open	26	HUNTERTN	500	1152	HUNTRSTN		230	1			0.02213	0.00047	404.2	395.5		
64	-18490.2-14567.5*L:	Interface	60	C2PJMC								-587.6	0.0	-0.03178	-0.03174	-544.6	42.3
		C:MULT01						1653									
	Open	4	CNASTONE	500	26	HUNTERTN		500	1			0.02290	-0.00123	-1488.5	-1465.7		
	Open	26	HUNTERTN	500	1152	HUNTRSTN		230	1			-0.02213	0.00047	404.2	395.5		
65	-18490.2-14567.5*L:	Interface	61	PJMC2C								587.6	-0.0	0.03178	0.03174	544.6	-42.3
		C:MULT01						1653									
	Open	4	CNASTONE	500	26	HUNTERTN		500	1			-0.02290	-0.00123	-1488.5	-1465.7		
	Open	26	HUNTERTN	500	1152	HUNTRSTN		230	1			0.02213	0.00047	404.2	395.5		
6998	-13568.6 -9645.9	L: Interface	62	C2PJMW								-509.5	-0.0	-0.03755	-0.06492	-347.9	533.1
		C:ETHS/NWES/LLGD						1648									

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		Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.80832	-0.01703	116.5	347.6		
		Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.83277	-0.00753	42.6	144.8		
		Open 130807 GOUDY115	115	200680	LAUREL L	115	1			-0.85089	-0.00862	37.6	154.6		
6999	-13568.6	-9645.9	L:	Interface	63 PJMW2C			509.5	0.0	0.03755		0.06492	347.9	-533.1	
				C:ETHS/NWES/LLGD									1648		
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.80832	-0.01703	116.5	347.6
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.83277	-0.00753	42.6	144.8
				Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.85089	-0.00862	37.6	154.6
7012	-9363.8	-5441.1	L:	Interface	63 PJMW2C			454.2	-0.0	0.04850		0.06492	347.9	-260.1	
				C:SER:ETHS/NWES									1606		
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.66720	-0.01703	116.5	276.0
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.67157	-0.00753	42.6	113.1
7013	-9363.8	-5441.1	L:	Interface	62 C2PJM			-454.2	0.0	-0.04850		-0.06492	-347.9	260.1	
				C:SER:ETHS/NWES									1606		
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.66720	-0.01703	116.5	276.0
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.67157	-0.00753	42.6	113.1
7014	-9348.5	-5425.9	L:	Interface	63 PJMW2C			453.3	0.0	0.04849		0.06492	347.9	-259.1	
				C:SER:C398/NWES									1605		
				Open 409 GROVER	230	200675	E.TWANDA	230	1			0.00110	0.00038	-15.6	-19.1
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.66879	-0.01703	116.5	275.7
				Open 381 TOWANDA	115	200675	E.TWANDA	230	1			0.01712	-0.00149	-52.2	-38.3
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.66714	-0.00753	42.6	113.0
7015	-9348.5	-5425.9	L:	Interface	62 C2PJM			-453.3	-0.0	-0.04849		-0.06492	-347.9	259.1	
				C:SER:C398/NWES									1605		
				Open 409 GROVER	230	200675	E.TWANDA	230	1			-0.00110	0.00038	-15.6	-19.1
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.66879	-0.01703	116.5	275.7
				Open 381 TOWANDA	115	200675	E.TWANDA	230	1			-0.01712	-0.00149	-52.2	-38.3
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.66714	-0.00753	42.6	113.0
7016	-8945.7	-5023.1	L:	Interface	51 G-PJMEast			273.0	0.0	0.03052		-0.00000	-0.0	-0.0	
				C:SIN:280									1678		
				Open 126262 BUCHANAN N	345	126267	E VIEW 2N	345	1			0.19926	0.13399	1132.5	-66.2
				Open 126267 E VIEW 2N	345	126298	SPRBROOK	345	1			0.02431	0.13703	930.6	-295.2
				Open 126267 E VIEW 2N	345	126378	EASTVIEW	138	1			0.38173	0.00000	1.9	1.9
				Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1			0.17533	0.00278	137.2	112.3
7017	-8945.7	-5023.1	L:	Interface	52 PJMEast-G			-273.0	-0.0	-0.03052		0.00000	0.0	0.0	
				C:SIN:280									1678		
				Open 126262 BUCHANAN N	345	126267	E VIEW 2N	345	1			-0.19926	0.13399	1132.5	-66.2
				Open 126267 E VIEW 2N	345	126298	SPRBROOK	345	1			-0.02431	0.13703	930.6	-295.2
				Open 126267 E VIEW 2N	345	126378	EASTVIEW	138	1			-0.38173	0.00000	1.9	1.9
				Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1			-0.17533	0.00278	137.2	112.3
7018	-8496.1	-4573.5	L:	Interface	62 C2PJM			-431.6	-0.0	-0.05080		-0.06492	-347.9	203.7	
				C:ETHS/LLGD									1649		
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.52471	-0.01703	116.5	261.2
				Open 130807 GOUDY115	115	200680	LAUREL L	115	1			-0.60156	-0.00862	37.6	110.9
7019	-8496.1	-4573.5	L:	Interface	63 PJMW2C			431.6	0.0	0.05080		0.06492	347.9	-203.7	
				C:ETHS/LLGD									1649		
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.52471	-0.01703	116.5	261.2
				Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.60156	-0.00862	37.6	110.9

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7020	-7995.8	-4073.2	L: Interface	63 PJMW2C				519.1	0.0	0.06492		0.06492	347.9	-171.3
			C:GEN:9 MI PT2				1561							
			Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
7021	-7995.8	-4073.2	L: Interface	62 C2PJM				-519.1	-0.0	-0.06492		-0.06492	-347.9	171.3
			C:GEN:9 MI PT2				1561							
			Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
7022	-7717.5	-3794.8	L: Interface	63 PJMW2C				518.8	-0.0	0.06722		0.06492	347.9	-153.2
			C:HQ-NY-765-New				1776							
			Open 147827	MARCY765	765 147828 MASS 765	765 1	NA							
			Open 147828	MASS 765	765 180819 CHA-NY	765 1	NA							
			Open 147827	MARCY765	765 147833 MARCY T1	345 1				0.04115	0.02986	624.6	394.2	
			Open 147827	MARCY765	765 147833 MARCY T1	345 2				0.04115	0.02596	543.5	343.1	
			Open 156	MCY765SW	0.0 147827 MARCY765	765 1	NA							
			Open 147838	MASS230B	230 147839 MOSES E	230 1				-0.00000	-0.02791	10.4	225.8	
			Open 147828	MASS 765	765 147838 MASS230B	230 1	NA							
			Open 147837	MASS230A	230 147839 MOSES E	230 1				-0.11503	0.00000	18.8	18.8	
			Open 147828	MASS 765	765 147837 MASS230A	230 1	NA							
			Open 158	MS765SW2	0.0 147828 MASS 765	765 1	NA							
			Open 157	MS765SW1	0.0 147828 MASS 765	765 1	NA							
			Decrease bus	180001 BEA-DLX	13.8 generation by	100.0	percent dispatch							
			Set bus	181319 CHAT G3	120 load to	357.0	MW dispatch							
			Decrease bus	180002 BEA-DL	13.8 generation by	100.0	percent dispatch							
			Set bus	181419 CHAT G4	120 load to	357.0	MW dispatch							
7023	-7717.5	-3794.8	L: Interface	62 C2PJM				-518.8	0.0	-0.06722		-0.06492	-347.9	153.2
			C:HQ-NY-765-New				1776							
			Open 147827	MARCY765	765 147828 MASS 765	765 1	NA							
			Open 147828	MASS 765	765 180819 CHA-NY	765 1	NA							
			Open 147827	MARCY765	765 147833 MARCY T1	345 1				-0.04115	0.02986	624.6	394.2	
			Open 147827	MARCY765	765 147833 MARCY T1	345 2				-0.04115	0.02596	543.5	343.1	
			Open 156	MCY765SW	0.0 147827 MARCY765	765 1	NA							
			Open 147838	MASS230B	230 147839 MOSES E	230 1				0.00000	-0.02791	10.4	225.8	
			Open 147828	MASS 765	765 147838 MASS230B	230 1	NA							
			Open 147837	MASS230A	230 147839 MOSES E	230 1				0.11503	0.00000	18.8	18.8	
			Open 147828	MASS 765	765 147837 MASS230A	230 1	NA							
			Open 158	MS765SW2	0.0 147828 MASS 765	765 1	NA							
			Open 157	MS765SW1	0.0 147828 MASS 765	765 1	NA							
			Decrease bus	180001 BEA-DLX	13.8 generation by	100.0	percent dispatch							
			Set bus	181319 CHAT G3	120 load to	357.0	MW dispatch							
			Decrease bus	180002 BEA-DL	13.8 generation by	100.0	percent dispatch							
			Set bus	181419 CHAT G4	120 load to	357.0	MW dispatch							
7024	-7407.9	-3485.3	L: Interface	62 C2PJM				-443.4	-0.0	-0.05985		-0.06492	-347.9	133.1
			C:SER:HC-SR_37&W-F_171				1600							
			Open 135398	SW345	345 200769 HOMER CY	345 1				0.23853	0.01717	-379.0	-506.2	
			Open 135277	FALCONER	115 200579 WARREN	115 1				0.14055	0.00697	-36.2	-87.8	
7025	-7407.9	-3485.3	L: Interface	63 PJMW2C				443.4	0.0	0.05985		0.06492	347.9	-133.1
			C:SER:HC-SR_37&W-F_171				1600							
			Open 135398	SW345	345 200769 HOMER CY	345 1				-0.23853	0.01717	-379.0	-506.2	
			Open 135277	FALCONER	115 200579 WARREN	115 1				-0.14055	0.00697	-36.2	-87.8	

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7026	-7158.0	-3235.3	L: Interface	62 C2PJMW						-455.8	0.0	-0.06367		-0.06492	-347.9	116.9
			C:GEN:FITZPATR							1559						
			Open	136155 SCRIBA	345 147830 JA FITZP	345 1							0.01845	0.07048	-67.1	-571.6
			Open	137200 EDIC	345 147830 JA FITZP	345 1							0.15078	-0.00032	43.5	45.8
			Remove unit 1	from bus 147797 JAFITZ1G	24.0	886.8 MW	dispatch									
7027	-7158.0	-3235.3	L: Interface	63 PJMW2C						455.8	-0.0	0.06367		0.06492	347.9	-116.9
			C:GEN:FITZPATR							1559						
			Open	136155 SCRIBA	345 147830 JA FITZP	345 1							-0.01845	0.07048	-67.1	-571.6
			Open	137200 EDIC	345 147830 JA FITZP	345 1							-0.15078	-0.00032	43.5	45.8
			Remove unit 1	from bus 147797 JAFITZ1G	24.0	886.8 MW	dispatch									
7028	-7114.9	-3192.3	L: Interface	63 PJMW2C						461.9	-0.0	0.06492		0.06492	347.9	-114.1
			C:GEN:SEAB&OMS							1575						
			Open	100508 SANDB115	115 100509 SB RCTOR	115 2							0.00001	0.00000	-0.1	-0.1
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch									
7029	-7114.9	-3192.3*L:	Interface	63 PJMW2C						461.9	-0.0	0.06492		0.06492	347.9	-114.1
			C:GEN:SEABROOK							1573						
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch									
7030	-7114.9	-3192.3	L: Interface	62 C2PJMW						-461.9	0.0	-0.06492		-0.06492	-347.9	114.1
			C:GEN:SEABROOK							1573						
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch									
7031	-7114.9	-3192.3*L:	Interface	62 C2PJMW						-461.9	0.0	-0.06492		-0.06492	-347.9	114.1
			C:GEN:SEAB&OMS							1575						
			Open	100508 SANDB115	115 100509 SB RCTOR	115 2							-0.00001	0.00000	-0.1	-0.1
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch									
7164	-5584.9	-1662.2	L: Interface	51 G-PJMEast						-244.1	-0.0	-0.04371		-0.00000	-0.0	-0.0
			C:SIN:440							1683						
			Open	125001 ROCK TAV	345 126297 RAMAPO	345 1							-0.21925	0.19936	1113.2	-0.2
7165	-5584.9	-1662.2	L: Interface	52 PJMEast-G						244.1	0.0	0.04371		0.00000	0.0	0.0
			C:125001 ROCK TAV	345 126297 RAMAPO	345 1	7										
			Open	125001 ROCK TAV	345 126297 RAMAPO	345 1							0.21925	0.19936	1113.2	-0.2
7166	-5584.9	-1662.2	L: Interface	52 PJMEast-G						244.1	0.0	0.04371		0.00000	0.0	0.0
			C:SIN:440							1683						
			Open	125001 ROCK TAV	345 126297 RAMAPO	345 1							0.21925	0.19936	1113.2	-0.2
7167	-5584.9	-1662.2	L: Interface	51 G-PJMEast						-244.1	-0.0	-0.04371		-0.00000	-0.0	-0.0
			C:125001 ROCK TAV	345 126297 RAMAPO	345 1	7										
			Open	125001 ROCK TAV	345 126297 RAMAPO	345 1							-0.21925	0.19936	1113.2	-0.2
10540	-4394.3	-471.7	L: Interface	55 PJME-NYEnoRE						1455.0	1287.0	0.03823		0.00000	1299.2	1299.2
			C:130753 FRASR345	345 130755 OAKDL345	345 1	200										
			Open	130753 FRASR345	345 130755 OAKDL345	345 1							-0.26905	-0.14208	-579.0	45.4
10541	-4394.3	-471.7	L: Interface	56 NYE-PJMENoRE						-1455.0	-1287.0	-0.03823		-0.00000	-1299.2	-1299.2
			C:130753 FRASR345	345 130755 OAKDL345	345 1	200										
			Open	130753 FRASR345	345 130755 OAKDL345	345 1							0.26905	-0.14208	-579.0	45.4
10542	-4149.5	-226.8	L: Interface	52 PJMEast-G						-167.6	0.0	-0.04038		0.00000	0.0	0.0
			C:SIN:230							1676						
			Open	126263 BUCHANAN S	345 126290 LADENTWN	345 1							0.26816	-0.14883	-539.0	78.6
			Open	126262 BUCHANAN N	345 126360 BUCHNTA5	138 1							-0.16809	0.00278	137.2	125.7
10543	-4149.5	-226.8	L: Interface	51 G-PJMEast						167.6	-0.0	0.04038		-0.00000	-0.0	-0.0
			C:SIN:230							1676						

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			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				-0.26816	-0.14883	-539.0	78.6		
			Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1				0.16809	0.00278	137.2	125.7		
10544	-3620.2	302.4	L: Interface	52	PJMEast-G							-139.1	-0.0	-0.03843	0.00000	0.0	0.0
			C:126263 BUCHANAN S	345	126290	LADENTWN	345	1	86								
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1						0.25820	-0.14883	-539.0	-0.2
10545	-3620.2	302.4	L: Interface	51	G-PJMEast							139.1	0.0	0.03843	-0.00000	-0.0	-0.0
			C:126263 BUCHANAN S	345	126290	LADENTWN	345	1	86								
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1						-0.25820	-0.14883	-539.0	-0.2
10546	-2688.6	1234.0	L: Interface	52	PJMEast-G							-136.3	0.0	-0.05071	0.00000	0.0	0.0
			C:126298 SPRBROOK	345	126517	REACM51	345	SR	131								
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR						-0.20655	0.24552	660.3	0.2
10547	-2688.6	1234.0	L: Interface	51	G-PJMEast							136.3	-0.0	0.05071	-0.00000	-0.0	-0.0
			C:126298 SPRBROOK	345	126518	REACM52	345	SR	132								
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR						0.20655	0.24552	660.3	0.2
10548	-2688.6	1234.0	L: Interface	52	PJMEast-G							-136.3	0.0	-0.05071	0.00000	0.0	0.0
			C:126298 SPRBROOK	345	126518	REACM52	345	SR	132								
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR						-0.20655	0.24552	660.3	0.2
10549	-2688.6	1234.0	L: Interface	51	G-PJMEast							136.3	-0.0	0.05071	-0.00000	-0.0	-0.0
			C:126298 SPRBROOK	345	126517	REACM51	345	SR	131								
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR						0.20655	0.24552	660.3	0.2
10550	-2675.5	1247.2	L: Interface	51	G-PJMEast							135.7	-0.0	0.05071	-0.00000	-0.0	-0.0
			C:126304 W 49 ST	345	126517	REACM51	345	1	1366								
			Open 126304 W 49 ST	345	126517	REACM51	345	1						-0.20655	-0.24552	-657.1	-0.2
10551	-2675.5	1247.2	L: Interface	52	PJMEast-G							-135.7	0.0	-0.05071	0.00000	0.0	0.0
			C:126304 W 49 ST	345	126517	REACM51	345	1	1366								
			Open 126304 W 49 ST	345	126517	REACM51	345	1						0.20655	-0.24552	-657.1	-0.2
10552	-2675.5	1247.2	L: Interface	52	PJMEast-G							-135.7	0.0	-0.05071	0.00000	0.0	0.0
			C:126304 W 49 ST	345	126518	REACM52	345	2	1367								
			Open 126304 W 49 ST	345	126518	REACM52	345	2						0.20655	-0.24552	-657.1	-0.2
10553	-2675.5	1247.2	L: Interface	51	G-PJMEast							135.7	-0.0	0.05071	-0.00000	-0.0	-0.0
			C:126304 W 49 ST	345	126518	REACM52	345	2	1367								
			Open 126304 W 49 ST	345	126518	REACM52	345	2						-0.20655	-0.24552	-657.1	-0.2
10554	-2528.4	1394.2	*L: Interface	52	PJMEast-G							-125.6	0.0	-0.04966	0.00000	0.0	0.0
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1372								
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4						-0.19583	0.25358	641.4	0.2
10555	-2528.4	1394.2	*L: Interface	51	G-PJMEast							125.6	-0.0	0.04966	-0.00000	-0.0	-0.0
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1372								
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4						0.19583	0.25358	641.4	0.2
10564	-439.7	3482.9	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2				-1835.6	-1725.0	-0.25158	-0.17685	-1285.9	-1208.2
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1	121								
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1						0.44128	-0.16934	-1245.7	-1171.2
10565	-295.4	3627.2	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1				-1797.4	-1725.0	-0.24523	-0.16934	-1245.7	-1195.6
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	2	120								
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	2						0.42909	-0.17685	-1285.9	-1233.7
10566	254.7	4177.4	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2				-1285.9	-1331.0	-0.17685			
			Base Case														
10567	376.7	4299.3	L: Interface	14	Leeds-PV							2531.6	2662.0	0.34620			
			Base Case														

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10568	504.0	4426.6	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1245.7	-1331.0	-0.16934				
			Base Case												
10569	537.2	4459.9	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	645.8	783.0	0.25539				
			Base Case												
10570	537.2	4459.9	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	645.8	783.0	0.25539				
			Base Case												
10571	558.5	4481.2	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	641.4	783.0	0.25358				
			Base Case												
10572	558.5	4481.2	L: 126266 DUNWODIE	345	126601	REAC72	345	SR	641.4	783.0	0.25358				
			Base Case												
10573	622.1	4544.8	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-286.0	-317.0	-0.04978	-0.02745	-161.3	-178.4	
			C:SIN:440												
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.11201	0.19936	1113.2	1237.2
10574	622.1	4544.8	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-286.0	-317.0	-0.04978	-0.02745	-161.3	-178.4	
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.11201	0.19936	1113.2	1237.2
10575	672.8	4595.5	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1582.9	-1725.0	-0.21114	-0.17685	-1285.9	-1404.9	
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1	3						
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				0.32992	-0.10391	-900.2	-970.1
10576	686.7	4609.3	L: Interface 15 ItoNYC345						2601.3	3288.0	1.00000				
			Base Case												
10577	700.0	4622.7	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1571.6	-1725.0	-0.21918	-0.17685	-1285.9	-1409.8	
			C:125002 ROSETON	345	126281	FISHKILL	345	1	10						
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.18978	0.22303	1505.0	1661.1
10578	700.0	4622.7	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1571.6	-1725.0	-0.21918	-0.17685	-1285.9	-1409.8	
			C:SIN:430												
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.18978	0.22303	1505.0	1661.1
10579	817.4	4740.1	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	660.3	861.0	0.24552				
			Base Case												
10580	817.4	4740.1	L: 126298 SPRBROOK	345	126517	REACM51	345	SR	660.3	861.0	0.24552				
			Base Case												
10581	820.1	4742.7	L: Interface 14 Leeds-PV						3111.2	3450.0	0.41310	0.34620	2531.6	2815.5	
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1	3						
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				-0.64389	-0.10391	-900.2	-985.4
10582	830.5	4753.2	L: 126304 W 49 ST	345	126517	REACM51	345	1	-657.1	-861.0	-0.24552				
			Base Case												
10583	830.5	4753.2	L: 126304 W 49 ST	345	126518	REACM52	345	2	-657.1	-861.0	-0.24552				
			Base Case												
10584	841.8	4764.5	L: Interface 14 Leeds-PV						3089.0	3450.0	0.42880	0.34620	2531.6	2823.0	
			C:125002 ROSETON	345	126281	FISHKILL	345	1	10						
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				0.37038	0.22303	1505.0	1692.8
10585	841.8	4764.5	L: Interface 14 Leeds-PV						3089.0	3450.0	0.42880	0.34620	2531.6	2823.0	
			C:SIN:430												
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				0.37038	0.22303	1505.0	1692.8
10586	974.0	4896.7	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1528.3	-1725.0	-0.20196	-0.16934	-1245.7	-1410.6	
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1	3						
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				0.31396	-0.10391	-900.2	-1001.4
10587	990.1	4912.7	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1517.5	-1725.0	-0.20962	-0.16934	-1245.7	-1413.3	

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				C:125002 ROSETON	345	126281 FISHKILL	345	1	10									
				Open 125002 ROSETON	345	126281 FISHKILL	345	1					-0.18060	0.22303	1505.0	1725.8		
10588	990.1	4912.7	L:	126294 PLTVLLEY	345	137455 ATHENS	345	1		-1517.5	-1725.0	-0.20962		-0.16934	-1245.7	-1413.3		
				C:SIN:430					1682									
				Open 125002 ROSETON	345	126281 FISHKILL	345	1					-0.18060	0.22303	1505.0	1725.8		
10589	1026.4	4949.0	L:	Interface 12 I-TO-J						3922.6	4949.0	1.00000						
				Base Case														
10590	1053.6	4976.3	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1479.2	-1725.0	-0.23331		-0.17685	-1285.9	-1472.3		
				C:137451 LEEDS 3	345	137455 ATHENS	345	1	1006									
				Open 137451 LEEDS 3	345	137455 ATHENS	345	1					-0.44128	0.12793	437.9	572.7		
10591	1127.4	5050.1	L:	126334 ASTE-ERG	138	126445 HG 4	138	1		-124.0	-179.0	-0.04879						
				Base Case														
10592	1128.6	5051.2	L:	126352 ASTE-WRG	138	126442 HG 1	138	1		-123.9	-179.0	-0.04882						
				Base Case														
10593	1181.5	5104.2	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1479.6	-1725.0	-0.20773		-0.17685	-1285.9	-1494.9		
				C:125000 HURLEY 3	345	125002 ROSETON	345	1	1									
				Open 125000 HURLEY 3	345	125002 ROSETON	345	1					-0.29333	0.10527	660.0	784.4		
10594	1249.8	5172.4	L:	Interface 10 NYC Cable						4209.2	5459.0	1.00000						
				Base Case														
10595	1295.9	5218.5	L:	126600 REAC71	345	126641 MOTT HAVEN	345	3		790.8	1196.0	0.31270		0.25539	645.8	976.7		
				C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1372									
				Open 126601 REAC72	345	126641 MOTT HAVEN	345	4					0.22604	0.25358	641.4	970.0		
10596	1295.9	5218.5	L:	126600 REAC71	345	126641 MOTT HAVEN	345	3		790.8	1196.0	0.31270		0.25539	645.8	976.7		
				C:126266 DUNWODIE	345	126601 REAC72	345	SR	96									
				Open 126266 DUNWODIE	345	126601 REAC72	345	SR					0.22604	0.25358	641.4	970.0		
10597	1295.9	5218.5	L:	126266 DUNWODIE	345	126600 REAC71	345	SR		790.8	1196.0	0.31270		0.25539	645.8	976.7		
				C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1372									
				Open 126601 REAC72	345	126641 MOTT HAVEN	345	4					0.22604	0.25358	641.4	970.0		
10598	1295.9	5218.5	L:	126266 DUNWODIE	345	126600 REAC71	345	SR		790.8	1196.0	0.31270		0.25539	645.8	976.7		
				C:126266 DUNWODIE	345	126601 REAC72	345	SR	96									
				Open 126266 DUNWODIE	345	126601 REAC72	345	SR					0.22604	0.25358	641.4	970.0		
10599	1316.6	5239.3	L:	126601 REAC72	345	126641 MOTT HAVEN	345	4		786.5	1196.0	0.31099		0.25358	641.4	975.2		
				C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1371									
				Open 126600 REAC71	345	126641 MOTT HAVEN	345	3					0.22480	0.25539	645.8	982.0		
10600	1316.6	5239.3	L:	126601 REAC72	345	126641 MOTT HAVEN	345	4		786.5	1196.0	0.31099		0.25358	641.4	975.2		
				C:126266 DUNWODIE	345	126600 REAC71	345	SR	95									
				Open 126266 DUNWODIE	345	126600 REAC71	345	SR					0.22480	0.25539	645.8	982.0		
10601	1316.6	5239.3	L:	126266 DUNWODIE	345	126601 REAC72	345	SR		786.5	1196.0	0.31099		0.25358	641.4	975.2		
				C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1371									
				Open 126600 REAC71	345	126641 MOTT HAVEN	345	3					0.22480	0.25539	645.8	982.0		
10602	1316.6	5239.3	L:	126266 DUNWODIE	345	126601 REAC72	345	SR		786.5	1196.0	0.31099		0.25358	641.4	975.2		
				C:126266 DUNWODIE	345	126600 REAC71	345	SR	95									
				Open 126266 DUNWODIE	345	126600 REAC71	345	SR					0.22480	0.25539	645.8	982.0		
10603	1328.1	5250.7	L:	146758 CHESTER	138	146773 SGRLF138	138	1		250.9	317.0	0.04978		0.02745	126.2	162.6		
				C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7									
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1					0.11201	0.19936	1113.2	1378.0		
10604	1328.1	5250.7	L:	146758 CHESTER	138	146773 SGRLF138	138	1		250.9	317.0	0.04978		0.02745	126.2	162.6		
				C:SIN:440					1683									

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			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1			0.11201	0.19936	1113.2	1378.0		
10605	1329.9	5252.5	L: Interface 14 Leeds-PV						2909.4	3450.0	0.40646		0.34620	2531.6	2992.0	
			C:125000 HURLEY 3	345	125002	ROSETON	345	1								
			Open 125000 HURLEY 3	345	125002	ROSETON	345	1								
10606	1383.9	5306.5	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	164.5	-256.0	-0.30389		0.57248	0.10527	660.0	800.0
			Base Case													
10607	1384.7	5307.3	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-164.8	256.0	0.30389					
			Base Case													
10608	1397.1	5319.7	L: Interface 11 DUN-SOUTH OP						4858.9	6256.0	1.00000					
			Base Case													
10609	1405.8	5328.4	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	103.2	-342.0	-0.31669		-0.31669	211.2	-234.0	
			C:GEN:NYPA_AS					1553								
			Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch									
			Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch									
			Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch									
10610	1410.1	5332.7	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	770.5	1196.0	0.30175		0.25539	645.8	1005.9	
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 132								
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR					0.18885	0.24552	660.3	1006.5
10611	1410.1	5332.7	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	770.5	1196.0	0.30175		0.25539	645.8	1005.9	
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 131								
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR					0.18885	0.24552	660.3	1006.5
10612	1410.1	5332.7	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	770.5	1196.0	0.30175		0.25539	645.8	1005.9	
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 132								
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR					0.18885	0.24552	660.3	1006.5
10613	1410.1	5332.7	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	770.5	1196.0	0.30175		0.25539	645.8	1005.9	
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 131								
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR					0.18885	0.24552	660.3	1006.5
10614	1410.5	5333.1	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-104.7	342.0	0.31669		0.31669	-212.7	234.0	
			C:GEN:NYPA_AS					1553								
			Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch									
			Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch									
			Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch									
10615	1412.1	5334.8	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	769.9	1196.0	0.30175		0.25539	645.8	1006.4	
			C:126304 W 49 ST	345	126518	REACM52	345	2 1367								
			Open 126304 W 49 ST	345	126518	REACM52	345	2					-0.18885	-0.24552	-657.1	-1003.8
10616	1412.1	5334.8	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	769.9	1196.0	0.30175		0.25539	645.8	1006.4	
			C:126304 W 49 ST	345	126517	REACM51	345	1 1366								
			Open 126304 W 49 ST	345	126517	REACM51	345	1					-0.18885	-0.24552	-657.1	-1003.8
10617	1412.1	5334.8	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	769.9	1196.0	0.30175		0.25539	645.8	1006.4	
			C:126304 W 49 ST	345	126518	REACM52	345	2 1367								
			Open 126304 W 49 ST	345	126518	REACM52	345	2					-0.18885	-0.24552	-657.1	-1003.8
10618	1412.1	5334.8	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	769.9	1196.0	0.30175		0.25539	645.8	1006.4	
			C:126304 W 49 ST	345	126517	REACM51	345	1 1366								
			Open 126304 W 49 ST	345	126517	REACM51	345	1					-0.18885	-0.24552	-657.1	-1003.8
10619	1419.5	5342.2	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	59.4	-372.0	-0.30389		-0.30389	164.5	-266.8	
			C:GEN:NYPA_AS					1553								
			Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch									
			Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch									

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				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch						
10620	1420.3	5343.0	L:	126481 RAINEY8W 138 126507 VERNON-W 138 1					-59.6	372.0	0.30389		0.30389	-164.8 266.8
			C:	GEN:NYPA_AS 1553										
				Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch						
				Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch						
				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch						
10621	1437.8	5360.5	L:	126601 REAC72 345 126641 MOTT HAVEN 345 4					765.2	1196.0	0.29962		0.25358	641.4 1006.0
			C:	126298 SPRBROOK 345 126517 REACM51 345 SR 131										
				Open 126298 SPRBROOK 345 126517 REACM51 345 SR							0.18752	0.24552	660.3 1013.3	
10622	1437.8	5360.5	L:	126601 REAC72 345 126641 MOTT HAVEN 345 4					765.2	1196.0	0.29962		0.25358	641.4 1006.0
			C:	126298 SPRBROOK 345 126518 REACM52 345 SR 132										
				Open 126298 SPRBROOK 345 126518 REACM52 345 SR							0.18752	0.24552	660.3 1013.3	
10623	1437.9	5360.5	L:	126266 DUNWODIE 345 126601 REAC72 345 SR					765.2	1196.0	0.29962		0.25358	641.4 1006.0
			C:	126298 SPRBROOK 345 126517 REACM51 345 SR 131										
				Open 126298 SPRBROOK 345 126517 REACM51 345 SR							0.18752	0.24552	660.3 1013.3	
10624	1437.9	5360.5	L:	126266 DUNWODIE 345 126601 REAC72 345 SR					765.2	1196.0	0.29962		0.25358	641.4 1006.0
			C:	126298 SPRBROOK 345 126518 REACM52 345 SR 132										
				Open 126298 SPRBROOK 345 126518 REACM52 345 SR							0.18752	0.24552	660.3 1013.3	
10625	1439.9	5362.5	L:	126601 REAC72 345 126641 MOTT HAVEN 345 4					764.6	1196.0	0.29962		0.25358	641.4 1006.5
			C:	126304 W 49 ST 345 126518 REACM52 345 2 1367										
				Open 126304 W 49 ST 345 126518 REACM52 345 2							-0.18752	-0.24552	-657.1 -1010.6	
10626	1439.9	5362.5	L:	126601 REAC72 345 126641 MOTT HAVEN 345 4					764.6	1196.0	0.29962		0.25358	641.4 1006.5
			C:	126304 W 49 ST 345 126517 REACM51 345 1 1366										
				Open 126304 W 49 ST 345 126517 REACM51 345 1							-0.18752	-0.24552	-657.1 -1010.6	
10627	1439.9	5362.5	L:	126266 DUNWODIE 345 126601 REAC72 345 SR					764.6	1196.0	0.29962		0.25358	641.4 1006.5
			C:	126304 W 49 ST 345 126517 REACM51 345 1 1366										
				Open 126304 W 49 ST 345 126517 REACM51 345 1							-0.18752	-0.24552	-657.1 -1010.6	
10628	1439.9	5362.5	L:	126266 DUNWODIE 345 126601 REAC72 345 SR					764.6	1196.0	0.29962		0.25358	641.4 1006.5
			C:	126304 W 49 ST 345 126518 REACM52 345 2 1367										
				Open 126304 W 49 ST 345 126518 REACM52 345 2							-0.18752	-0.24552	-657.1 -1010.6	
10629	1441.9	5364.5	L:	130750 COOPC345 345 130753 FRASR345 345 1					-994.4	-1207.0	-0.14746			
				Base Case										
10630	1458.7	5381.3	L:	126294 PLTVLLEY 345 137451 LEEDS 3 345 2					-1434.8	-1725.0	-0.19893		-0.17685	-1285.9 -1543.9
			C:	130750 COOPC345 345 130753 FRASR345 345 1 192										
				Open 130750 COOPC345 345 130753 FRASR345 345 1							0.14972	-0.14746	-994.4 -1209.5	
10631	1462.7	5385.4	L:	126480 RAINEY8E 138 126561 8E DUM 138 1					211.2	-252.0	-0.31669			
				Base Case										
10632	1464.2	5386.9	L:	126480 RAINEY8E 138 126506 VERNON-E 138 1					-212.7	251.0	0.31669			
				Base Case										
10633	1466.1	5388.7	L:	126295 RAINEY 345 126562 8W DUM 138 8					-189.5	256.0	0.30389			
				Base Case										
10634	1484.4	5407.0	L:	126295 RAINEY 345 126561 8E DUM 138 8					-128.1	342.0	0.31669		0.31669	-236.1 234.0
			C:	GEN:NYPA_AS 1553										
				Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch						
				Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch						
				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch						
10635	1485.0	5407.6	L:	126294 PLTVLLEY 345 137455 ATHENS 345 1					-1429.9	-1725.0	-0.19873		-0.16934	-1245.7 -1497.1
			C:	125000 HURLEY 3 345 125002 ROSETON 345 1 1										

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			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.27915	0.10527	660.0	816.3
10636	1501.9	5424.5	L: 126295 RAINEY	345	126562 8W DUM	138	8	-84.4	372.0	0.30389		0.30389	-189.5	266.9
			C:GEN:NYPA_AS				1553							
			Remove unit 1 from bus 147788 POLETGT2	18.0	180.0 MW	dispatch								
			Remove unit 1 from bus 147789 POLETSTG	18.0	210.0 MW	dispatch								
			Remove unit 1 from bus 147790 POLETGT1	18.0	180.0 MW	dispatch								
10637	1503.8	5426.4	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-387.1	-783.0	-0.26326				
			Base Case											
10638	1541.2	5463.8	L: 126295 RAINEY	345	126561 8E DUM	138	8	-236.1	252.0	0.31669				
			Base Case											
10639	1576.5	5499.1	L: Interface 50 PJMCentral-C					-59.6	-0.0	0.03783		0.03318	-196.7	-144.4
			C:SER:HCWC/NWES				1607							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.22558	-0.03174	-544.6	-594.6
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.33367	-0.00753	42.6	30.7
10640	1576.5	5499.1	L: Interface 49 C-PJMCentral					59.6	0.0	-0.03783		-0.03318	196.7	144.4
			C:SER:HCWC/NWES				1607							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.22558	-0.03174	-544.6	-594.6
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.33367	-0.00753	42.6	30.7
10643	1597.2	5519.8	L: Interface 49 C-PJMCentral					64.3	0.0	-0.04027		-0.03318	196.7	143.7
			C:SER:HC-WC_30&W-F_171				1601							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.23847	-0.03174	-544.6	-595.2
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.06952	0.00697	-36.2	-25.0
10644	1597.2	5519.8	L: Interface 50 PJMCentral-C					-64.3	-0.0	0.04027		0.03318	-196.7	-143.7
			C:SER:HC-WC_30&W-F_171				1601							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.23847	-0.03174	-544.6	-595.2
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.06952	0.00697	-36.2	-25.0
10647	1612.8	5535.5	L: Interface 14 Leeds-PV					2822.1	3450.0	0.38928		0.34620	2531.6	3090.0
			C:130750 COOPC345	345	130753 FRASR345	345	1 192							
			Open 130750 COOPC345	345	130753 FRASR345	345	1				-0.29219	-0.14746	-994.4	-1232.2
10648	1641.0	5563.7	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-606.4	-707.0	-0.06130		-0.03287	-447.6	-501.6
			C:SIN:440				1683							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.14262	0.19936	1113.2	1440.4
10649	1641.0	5563.7	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-606.4	-707.0	-0.06130		-0.03287	-447.6	-501.6
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7							
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.14262	0.19936	1113.2	1440.4
10650	1645.3	5567.9	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1353.4	-1724.0	-0.22523		-0.14425	-866.4	-1103.7
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2 1005							
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.56508	-0.14330	-861.9	-1097.6
10651	1651.0	5573.7	L: Interface 50 PJMCentral-C					-67.2	-0.0	0.04073		0.03318	-196.7	-141.9
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.23770	-0.03174	-544.6	-597.0
10652	1651.0	5573.7	L: Interface 49 C-PJMCentral					67.2	0.0	-0.04073		-0.03318	196.7	141.9
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.23770	-0.03174	-544.6	-597.0
10655	1663.0	5585.6	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1350.4	-1724.0	-0.22464		-0.14330	-861.9	-1100.2
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1 1004							
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				0.56388	-0.14425	-866.4	-1106.3
10656	1688.0	5610.7	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	192.6	-342.0	-0.31669		-0.31669	211.2	-323.4

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				C:126298 SPRBROOK	345	126301 TREMONT	345	1	1364										
				Open 126298 SPRBROOK	345	126301 TREMONT	345	1											
10657	1688.4	5611.1	L:	126480 RAINEY8E	138	126561 8E DUM	138	1		192.7	-342.0	-0.31669							
				C:BUS:TREMONT_345					1631										
				Open 126466 SECT 11	138	126470 38X01 T	138	1											
				Open 126466 SECT 11	138	126471 38X02 T	138	1											
				Open 126462 PARK TR1	138	126466 SECT 11	138	1		NA									
				Open 126467 SECT 12	138	126472 38X03 T	138	1											
				Open 126467 SECT 12	138	126473 38X04 T	138	1											
				Open 126463 PARK TR2	138	126467 SECT 12	138	1		NA									
				Open 126301 TREMONT	345	126462 PARK TR1	138	1		NA									
				Open 126301 TREMONT	345	126463 PARK TR2	138	1		NA									
				Open 126298 SPRBROOK	345	126301 TREMONT	345	1											
10658	1690.4	5613.1	L:	126480 RAINEY8E	138	126561 8E DUM	138	1		193.3	-342.0	-0.31669							
				C:SPRN-ACDMY					1778										
				Open 126298 SPRBROOK	345	126847 ACADEMY	345	1											
				Open 126780 SCK-PARW	138	126847 ACADEMY	345	1											
				Open 126781 SCK-PARE	138	126847 ACADEMY	345	1											
10659	1692.7	5615.3	L:	126480 RAINEY8E	138	126506 VERNON-E	138	1		-194.1	342.0	0.31669							
				C:126298 SPRBROOK	345	126301 TREMONT	345	1	1364										
				Open 126298 SPRBROOK	345	126301 TREMONT	345	1											
10660	1693.1	5615.7	L:	126480 RAINEY8E	138	126506 VERNON-E	138	1		-194.2	342.0	0.31669							
				C:BUS:TREMONT_345					1631										
				Open 126466 SECT 11	138	126470 38X01 T	138	1											
				Open 126466 SECT 11	138	126471 38X02 T	138	1											
				Open 126462 PARK TR1	138	126466 SECT 11	138	1		NA									
				Open 126467 SECT 12	138	126472 38X03 T	138	1											
				Open 126467 SECT 12	138	126473 38X04 T	138	1											
				Open 126463 PARK TR2	138	126467 SECT 12	138	1		NA									
				Open 126301 TREMONT	345	126462 PARK TR1	138	1		NA									
				Open 126301 TREMONT	345	126463 PARK TR2	138	1		NA									
				Open 126298 SPRBROOK	345	126301 TREMONT	345	1											
10661	1695.1	5617.7	L:	126480 RAINEY8E	138	126506 VERNON-E	138	1		-194.8	342.0	0.31669							
				C:SPRN-ACDMY					1778										
				Open 126298 SPRBROOK	345	126847 ACADEMY	345	1											
				Open 126780 SCK-PARW	138	126847 ACADEMY	345	1											
				Open 126781 SCK-PARE	138	126847 ACADEMY	345	1											
10662	1705.9	5628.5	L:	126481 RAINEY8W	138	126562 8W DUM	138	1		146.4	-372.0	-0.30389							
				C:126298 SPRBROOK	345	126301 TREMONT	345	1	1364										
				Open 126298 SPRBROOK	345	126301 TREMONT	345	1											
10663	1706.3	5628.9	L:	126481 RAINEY8W	138	126562 8W DUM	138	1		146.5	-372.0	-0.30389							
				C:BUS:TREMONT_345					1631										
				Open 126466 SECT 11	138	126470 38X01 T	138	1											
				Open 126466 SECT 11	138	126471 38X02 T	138	1											
				Open 126462 PARK TR1	138	126466 SECT 11	138	1		NA									
				Open 126467 SECT 12	138	126472 38X03 T	138	1											
				Open 126467 SECT 12	138	126473 38X04 T	138	1											
				Open 126463 PARK TR2	138	126467 SECT 12	138	1		NA									

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			Open 126301 TREMONT	345	126462	PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463	PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1		0.00381	0.00000	2.9	2.9	
10664	1706.7	5629.3	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-146.6	372.0	0.30389	0.30389	-164.8	353.9
			C:126298 SPRBROOK	345	126301	TREMONT	345	1	1364					
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1		0.03936	0.00000	461.0	461.0	
10665	1707.1	5629.8	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-146.8	372.0	0.30389	0.30389	-164.8	354.0
			C:BUS:TREMONT_345						1631					
			Open 126466 SECT 11	138	126470	38X01 T	138	1		0.03936	-0.00000	114.4	114.4	
			Open 126466 SECT 11	138	126471	38X02 T	138	1		0.03936	0.00000	114.7	114.7	
			Open 126462 PARK TR1	138	126466	SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472	38X03 T	138	1		0.03936	0.00000	118.3	118.3	
			Open 126467 SECT 12	138	126473	38X04 T	138	1		0.03936	-0.00000	110.7	110.7	
			Open 126463 PARK TR2	138	126467	SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462	PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463	PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1		-0.00381	0.00000	2.9	2.9	
10666	1708.3	5630.9	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	147.1	-372.0	-0.30389	-0.30389	164.5	-354.6
			C:SPRN-ACDMY						1778					
			Open 126298 SPRBROOK	345	126847	ACADEMY	345	1		-0.03777	0.00000	461.8	461.8	
			Open 126780 SCK-PARW	138	126847	ACADEMY	345	1		0.00000	-0.00000	-230.5	-230.5	
			Open 126781 SCK-PARE	138	126847	ACADEMY	345	1		0.04161	0.00000	0.8	0.8	
10667	1709.1	5631.8	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-147.4	372.0	0.30389	0.30389	-164.8	354.6
			C:SPRN-ACDMY						1778					
			Open 126298 SPRBROOK	345	126847	ACADEMY	345	1		0.03777	0.00000	461.8	461.8	
			Open 126780 SCK-PARW	138	126847	ACADEMY	345	1		-0.00000	-0.00000	-230.5	-230.5	
			Open 126781 SCK-PARE	138	126847	ACADEMY	345	1		-0.04161	0.00000	0.8	0.8	
10668	1710.4	5633.0	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	4	-362.8	-783.0	-0.24571			
			Base Case											
10669	1725.4	5648.1	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	204.4	-342.0	-0.31669	-0.31669	211.2	-335.2
			C:126374 DUN SO1R	138	126385	E179 ST	138	1	1370					
			Open 126374 DUN SO1R	138	126385	E179 ST	138	1		-0.03414	0.00000	199.3	199.3	
10670	1728.1	5650.7	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	205.5	-342.0	-0.31684	-0.31669	211.2	-336.0
			C:SER:W90&W74						1583					
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1		0.00087	-0.18680	-988.7	-1311.5	
			Open 126342 W74 TAP	345	126368	DUN NO	138	1		-0.01608	-0.00056	300.2	299.3	
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1		-0.00056	0.00001	40.6	40.6	
			Open 126293 PL VILLW	345	126305	WOOD A	345	1		0.00318	0.00000	2.9	2.9	
10671	1730.0	5652.6	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	206.1	-342.0	-0.31684	-0.31669	211.2	-336.6
			C:SER:W89&W73						1584					
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1		0.00089	-0.18603	-1028.2	-1350.1	
			Open 126343 W73 TAP	345	126372	DUN SO	138	1		-0.01343	-0.00056	310.6	309.6	
10672	1730.1	5652.7	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-205.9	342.0	0.31669	0.31669	-212.7	335.2
			C:126374 DUN SO1R	138	126385	E179 ST	138	1	1370					
			Open 126374 DUN SO1R	138	126385	E179 ST	138	1		0.03414	0.00000	199.3	199.3	
10673	1730.3	5652.9	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	206.8	-342.0	-0.31717	-0.31669	211.2	-336.7
			C:SIN:120						1667					
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		-0.00323	0.07442	786.1	914.8	

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				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			-0.00323	0.07442	786.1	914.8		
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.00147	0.00000	39.7	39.7		
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
				Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch							
10674	1730.3	5652.9	L:	126480 RAINNEY8E	138	126561	8E DUM	138	1			206.8	-342.0	-0.31717	-0.31669	211.2	-336.7
			C:	SIN:130						1668							
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			-0.00323	0.07442	786.1	914.8		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			-0.00323	0.07442	786.1	914.8		
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.00147	0.00000	39.7	39.7		
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
				Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch							
10675	1731.7	5654.3	*L:	126480 RAINNEY8E	138	126561	8E DUM	138	1			206.4	-342.0	-0.31668	-0.31669	211.2	-337.2
			C:	126266 DUNWODIE	345	126342	W74 TAP	345	1	93							
				Open 126266 DUNWODIE	345	126342	W74 TAP	345	1			-0.01609	-0.00056	301.1	300.1		
10677	1732.7	5655.4	L:	126480 RAINNEY8E	138	126506	VERNON-E	138	1			-207.0	342.0	0.31684	0.31669	-212.7	336.0
			C:	SER:W90&W74						1583							
				Open 126266 DUNWODIE	345	126293	PL VILLW	345	1			-0.00087	-0.18680	-988.7	-1312.4		
				Open 126342 W74 TAP	345	126368	DUN NO	138	1			0.01608	-0.00056	300.2	299.3		
				Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1			0.00056	0.00001	40.6	40.6		
				Open 126293 PL VILLW	345	126305	WOOD A	345	1			-0.00318	0.00000	2.9	2.9		
10683	1734.7	5657.3	L:	126480 RAINNEY8E	138	126506	VERNON-E	138	1			-207.6	342.0	0.31684	0.31669	-212.7	336.6
			C:	SER:W89&W73						1584							
				Open 126266 DUNWODIE	345	126292	PL VILLE	345	1			-0.00089	-0.18603	-1028.2	-1350.9		
				Open 126343 W73 TAP	345	126372	DUN SO	138	1			0.01343	-0.00056	310.6	309.6		
10684	1735.0	5657.6	L:	126480 RAINNEY8E	138	126506	VERNON-E	138	1			-208.3	342.0	0.31717	0.31669	-212.7	336.7
			C:	SIN:130						1668							
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00323	0.07442	786.1	915.2		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00323	0.07442	786.1	915.2		
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00147	0.00000	39.7	39.7		
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
				Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch							
10685	1735.0	5657.6	L:	126480 RAINNEY8E	138	126506	VERNON-E	138	1			-208.3	342.0	0.31717	0.31669	-212.7	336.7
			C:	SIN:120						1667							
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00323	0.07442	786.1	915.2		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00323	0.07442	786.1	915.2		
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00147	0.00000	39.7	39.7		
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
				Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch							
10691	1736.3	5659.0	*L:	126480 RAINNEY8E	138	126506	VERNON-E	138	1			-207.9	342.0	0.31668	0.31669	-212.7	337.2
			C:	126266 DUNWODIE	345	126342	W74 TAP	345	1	93							

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			Open 126266 DUNWODIE	345	126342	W74 TAP	345	1				0.01609	-0.00056	301.1	300.1
10774	1743.8	5666.4	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	157.9	-372.0	-0.30389		-0.30389	164.5	-365.4
			C:126374 DUN SO1R	138	126385	E179 ST	138	1	1370						
			Open 126374 DUN SO1R	138	126385	E179 ST	138	1				-0.03322	0.00000	199.3	199.3
10798	1744.6	5667.3	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-158.2	372.0	0.30389		0.30389	-164.8	365.4
			C:126374 DUN SO1R	138	126385	E179 ST	138	1	1370						
			Open 126374 DUN SO1R	138	126385	E179 ST	138	1				0.03322	0.00000	199.3	199.3
10879	1746.5	5669.1	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	159.0	-372.0	-0.30404		-0.30389	164.5	-366.2
			C:SER:W90&W74					1583							
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1				0.00084	-0.18680	-988.7	-1315.0
			Open 126342 W74 TAP	345	126368	DUN NO	138	1				-0.01565	-0.00056	300.2	299.3
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1				-0.00055	0.00001	40.6	40.6
			Open 126293 PL VILLW	345	126305	WOOD A	345	1				0.00309	0.00000	2.9	2.9
12425	1747.3	5670.0	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-159.2	372.0	0.30404		0.30389	-164.8	366.2
			C:SER:W90&W74					1583							
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1				-0.00084	-0.18680	-988.7	-1315.1
			Open 126342 W74 TAP	345	126368	DUN NO	138	1				0.01565	-0.00056	300.2	299.3
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1				0.00055	0.00001	40.6	40.6
			Open 126293 PL VILLW	345	126305	WOOD A	345	1				-0.00309	0.00000	2.9	2.9
12477	1748.4	5671.1	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	159.6	-372.0	-0.30404		-0.30389	164.5	-366.8
			C:SER:W89&W73					1584							
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1				0.00086	-0.18603	-1028.2	-1353.5
			Open 126343 W73 TAP	345	126372	DUN SO	138	1				-0.01307	-0.00056	310.6	309.6
12491	1748.7	5671.4	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	160.2	-372.0	-0.30436		-0.30389	164.5	-366.9
			C:SIN:120					1667							
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1				-0.00314	0.07442	786.1	916.2
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2				-0.00314	0.07442	786.1	916.2
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				0.00142	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1						NA	
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1						NA	
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2						NA	
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch						
12492	1748.7	5671.4	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	160.2	-372.0	-0.30436		-0.30389	164.5	-366.9
			C:SIN:130					1668							
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1				-0.00314	0.07442	786.1	916.2
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2				-0.00314	0.07442	786.1	916.2
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				0.00142	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1						NA	
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1						NA	
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2						NA	
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch						
12510	1749.3	5671.9	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-159.8	372.0	0.30404		0.30389	-164.8	366.8
			C:SER:W89&W73					1584							
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1				-0.00086	-0.18603	-1028.2	-1353.6
			Open 126343 W73 TAP	345	126372	DUN SO	138	1				0.01307	-0.00056	310.6	309.6
12519	1749.6	5672.2	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-160.5	372.0	0.30436		0.30389	-164.8	366.9
			C:SIN:130					1668							
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1				0.00314	0.07442	786.1	916.3

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				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00314	0.07442	786.1	916.3		
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00142	0.00000	39.7	39.7		
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1								
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1								
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2								
				Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch							
12520	1749.6	5672.2	L:	126481 RAINY8W	138	126507	VERNON-W	138	1			-160.5	372.0	0.30436	0.30389	-164.8	366.9
				C:SIN:120													
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00314	0.07442	786.1	916.3		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00314	0.07442	786.1	916.3		
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00142	0.00000	39.7	39.7		
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1								
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1								
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2								
				Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch							
12541	1750.1	5672.8	*L:	126481 RAINY8W	138	126562	8W DUM	138	1			159.8	-372.0	-0.30388	-0.30389	164.5	-367.3
				C:126266 DUNWODIE	345	126342	W74 TAP	345	1								
				Open 126266 DUNWODIE	345	126342	W74 TAP	345	1								
12581	1751.0	5673.6	*L:	126481 RAINY8W	138	126507	VERNON-W	138	1			-160.1	372.0	0.30388	0.30389	-164.8	367.3
				C:126266 DUNWODIE	345	126342	W74 TAP	345	1								
				Open 126266 DUNWODIE	345	126342	W74 TAP	345	1								
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1								
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1								
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2								
				Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch							
17513	1766.5	5689.2	L:	126295 RAINY	345	126561	8E DUM	138	8			-217.4	342.0	0.31669	0.31669	-236.1	323.4
				C:126298 SPRBROOK	345	126301	TREMONT	345	1								
				Open 126298 SPRBROOK	345	126301	TREMONT	345	1								
17617	1766.9	5689.6	L:	126295 RAINY	345	126561	8E DUM	138	8			-217.6	342.0	0.31669	0.31669	-236.1	323.5
				C:BUS:TREMONT_345													
				Open 126466 SECT 11	138	126470	38X01 T	138	1			0.04045	-0.00000	114.4	114.4		
				Open 126466 SECT 11	138	126471	38X02 T	138	1			0.04045	0.00000	114.7	114.7		
				Open 126462 PARK TR1	138	126466	SECT 11	138	1								
				Open 126467 SECT 12	138	126472	38X03 T	138	1			0.04045	0.00000	118.3	118.3		
				Open 126467 SECT 12	138	126473	38X04 T	138	1			0.04045	-0.00000	110.7	110.7		
				Open 126463 PARK TR2	138	126467	SECT 12	138	1								
				Open 126301 TREMONT	345	126462	PARK TR1	138	1								
				Open 126301 TREMONT	345	126463	PARK TR2	138	1								
				Open 126298 SPRBROOK	345	126301	TREMONT	345	1								
				Open 126298 SPRBROOK	345	126301	TREMONT	345	1			-0.00392	0.00000	2.9	2.9		
17664	1768.9	5691.5	L:	126295 RAINY	345	126561	8E DUM	138	8			-218.2	342.0	0.31669	0.31669	-236.1	324.1
				C:SPRN-ACDMY													
				Open 126298 SPRBROOK	345	126847	ACADEMY	345	1			0.03882	0.00000	461.8	461.8		
				Open 126780 SCK-PARW	138	126847	ACADEMY	345	1			0.00000	-0.00000	-230.5	-230.5		
				Open 126781 SCK-PARE	138	126847	ACADEMY	345	1			-0.04276	0.00000	0.8	0.8		
17668	1770.7	5693.3	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2			-1400.4	-1725.0	-0.18334	-0.17685	-1285.9	-1599.1
				C:SIN:130													
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			-0.04357	0.07442	786.1	917.8		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			-0.04357	0.07442	786.1	917.8		
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.04278	0.00000	39.7	39.7		
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1								
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1								
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2								

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Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch															
17669	1770.7	5693.3	L:	126294	PLTVLLEY	345	137451	LEEDS	3	345	2	-1400.4 -1725.0 -0.18334	-0.17685	-1285.9	-1599.1
C:SIN:120 1667															
			Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	1	-0.04357 0.07442	786.1	917.8	
			Open	126263	BUCHANAN	S	345	126291	MILLWOOD	345	2	-0.04357 0.07442	786.1	917.8	
			Open	126263	BUCHANAN	S	345	126290	LADENTWN	345	1	0.04278 0.00000	39.7	39.7	
			Open	126263	BUCHANAN	S	345	147832	IP3	345	345	1	NA		
			Open	147798	IP#3	GEN	22.0	147832	IP3	345	345	1	NA		
			Open	147798	IP#3	GEN	22.0	147832	IP3	345	345	2	NA		
Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch															
17679	1773.9	5696.6	L:	126294	PLTVLLEY	345	137455	ATHENS		345	1	-1387.3 -1725.0 -0.19035	-0.16934	-1245.7	-1546.1
C:130750 COOPC345 345 130753 FRASR345 345 1 192															
			Open	130750	COOPC345		345	130753	FRASR345	345	1	0.14248 -0.14746	-994.4	-1256.0	
17691	1788.1	5710.7	L:	126295	RAINEY	345	126562	8W	DUM	138	8	-171.4 372.0 0.30389	0.30389	-189.5	353.9
C:126298 SPRBROOK 345 126301 TREMONT 345 1 1364															
			Open	126298	SPRBROOK		345	126301	TREMONT	345	1	0.03936 0.00000	461.0	461.0	
17692	1788.5	5711.2	L:	126295	RAINEY	345	126562	8W	DUM	138	8	-171.5 372.0 0.30389	0.30389	-189.5	354.0
C:BUS:TREMONT_345 1631															
			Open	126466	SECT	11	138	126470	38X01	T	138	1	0.03936 -0.00000	114.4	114.4
			Open	126466	SECT	11	138	126471	38X02	T	138	1	0.03936 0.00000	114.7	114.7
			Open	126462	PARK	TR1	138	126466	SECT	11	138	1	NA		
			Open	126467	SECT	12	138	126472	38X03	T	138	1	0.03936 0.00000	118.3	118.3
			Open	126467	SECT	12	138	126473	38X04	T	138	1	0.03936 -0.00000	110.7	110.7
			Open	126463	PARK	TR2	138	126467	SECT	12	138	1	NA		
			Open	126301	TREMONT		345	126462	PARK	TR1	138	1	NA		
			Open	126301	TREMONT		345	126463	PARK	TR2	138	1	NA		
			Open	126298	SPRBROOK		345	126301	TREMONT	345	1	-0.00381 0.00000	2.9	2.9	
17693	1790.5	5713.2	L:	126295	RAINEY	345	126562	8W	DUM	138	8	-172.1 372.0 0.30389	0.30389	-189.5	354.6
C:SPRN-ACDMY 1778															
			Open	126298	SPRBROOK		345	126847	ACADEMY	345	1	0.03777 0.00000	461.8	461.8	
			Open	126780	SCK-PARW		138	126847	ACADEMY	345	1	-0.00000 -0.00000	-230.5	-230.5	
			Open	126781	SCK-PARE		138	126847	ACADEMY	345	1	-0.04161 0.00000	0.8	0.8	
17694	1795.2	5717.8	L:	146758	CHESTER	138	146771	SHOEM	138	138	1	-237.1 -317.0 -0.04451	-0.02745	-161.3	-210.6
C:125001 ROCK TAV 345 146754 MDTN TAP 345 1 9															
			Open	125001	ROCK	TAV	345	146754	MDTN	TAP	345	1	0.17871 -0.09543	-424.0	-595.3
17695	1803.9	5726.6	L:	126295	RAINEY	345	126561	8E	DUM	138	8	-229.3 342.0 0.31669	0.31669	-236.1	335.2
C:126374 DUN SO1R 138 126385 E179 ST 138 1 1370															
			Open	126374	DUN	SO1R	138	126385	E179	ST	138	1	0.03414 0.00000	199.3	199.3
17698	1806.5	5729.2	L:	126295	RAINEY	345	126561	8E	DUM	138	8	-230.4 342.0 0.31684	0.31669	-236.1	336.0
C:SER:W90&W74 1583															
			Open	126266	DUNWODIE		345	126293	PL	VILLW	345	1	-0.00087 -0.18680	-988.7	-1326.2
			Open	126342	W74	TAP	345	126368	DUN	NO	138	1	0.01608 -0.00056	300.2	299.2
			Open	126293	PL	VILLW	345	126733	PLTVILLE	13.8	1	0.00056 0.00001	40.6	40.6	
			Open	126293	PL	VILLW	345	126305	WOOD	A	345	1	-0.00318 0.00000	2.9	2.9
17701	1808.4	5731.1	L:	126295	RAINEY	345	126561	8E	DUM	138	8	-231.0 342.0 0.31684	0.31669	-236.1	336.6
C:SER:W89&W73 1584															
			Open	126266	DUNWODIE		345	126292	PL	VILLE	345	1	-0.00089 -0.18603	-1028.2	-1364.6
			Open	126343	W73	TAP	345	126372	DUN	SO	138	1	0.01343 -0.00056	310.6	309.6

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17702	1808.7	5731.3	L: 126295 RAINNEY	345	126561	8E DUM	138	8	-231.6	342.0	0.31717	0.31669	-236.1	336.7
			C:SIN:130					1668						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00323	0.07442	786.1	920.7
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00323	0.07442	786.1	920.7
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00147	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		NA				
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch				
17703	1808.7	5731.3	L: 126295 RAINNEY	345	126561	8E DUM	138	8	-231.6	342.0	0.31717	0.31669	-236.1	336.7
			C:SIN:120					1667						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00323	0.07442	786.1	920.7
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00323	0.07442	786.1	920.7
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00147	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		NA				
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch				
17704	1810.1	5732.8	*L: 126295 RAINNEY	345	126561	8E DUM	138	8	-231.2	342.0	0.31668	0.31669	-236.1	337.2
			C:126266 DUNWODIE	345	126342	W74 TAP	345	1						
			Open 126266 DUNWODIE	345	126342	W74 TAP	345	1			0.01609	-0.00056	301.1	300.1
19422	1826.0	5748.7	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-182.9	372.0	0.30389	0.30389	-189.5	365.4
			C:126374 DUN SO1R	138	126385	E179 ST	138	1						
			Open 126374 DUN SO1R	138	126385	E179 ST	138	1			0.03322	0.00000	199.3	199.3
19461	1828.7	5751.3	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-184.0	372.0	0.30404	0.30389	-189.5	366.2
			C:SER:W90&W74					1583						
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1			-0.00084	-0.18680	-988.7	-1330.3
			Open 126342 W74 TAP	345	126368	DUN NO	138	1			0.01565	-0.00056	300.2	299.2
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1			0.00055	0.00001	40.6	40.6
			Open 126293 PL VILLW	345	126305	WOOD A	345	1			-0.00309	0.00000	2.9	2.9
19465	1830.6	5753.3	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-184.6	372.0	0.30404	0.30389	-189.5	366.8
			C:SER:W89&W73					1584						
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1			-0.00086	-0.18603	-1028.2	-1368.8
			Open 126343 W73 TAP	345	126372	DUN SO	138	1			0.01307	-0.00056	310.6	309.6
19466	1830.8	5753.5	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-185.2	372.0	0.30436	0.30389	-189.5	366.8
			C:SIN:120					1667						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00314	0.07442	786.1	922.3
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00314	0.07442	786.1	922.3
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00142	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		NA				
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch				
19467	1830.8	5753.5	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-185.2	372.0	0.30436	0.30389	-189.5	366.8
			C:SIN:130					1668						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00314	0.07442	786.1	922.3
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00314	0.07442	786.1	922.3
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00142	0.00000	39.7	39.7

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				Open 126263 BUCHANAN S	345	147832	IP3	345	345	1	NA								
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA								
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA								
				Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch								
19471	1832.4	5755.0	*L:	126295 RAINEY	345	126562	8W	DUM	138	8		-184.8	372.0	0.30388		0.30389	-189.5	367.3	
				C:126266 DUNWODIE	345	126342	W74	TAP	345	1	93								
				Open 126266 DUNWODIE	345	126342	W74	TAP	345	1						0.01566	-0.00056	301.1	300.1
19480	1834.8	5757.5	L:	Interface	32	F-To-G						3723.2	4643.0	0.50133					
				Base Case															
19508	1842.3	5765.0	L:	126274 E13ST	47	345	126277	FARRAGUT	345	1		-287.9	-398.0	-0.05976					
				Base Case															
21241	1902.3	5825.0	L:	126385 E179	ST	138	126445	HG	4	138	1	64.3	179.0	0.06032					
				Base Case															
21242	1902.8	5825.5	L:	126385 E179	ST	138	126442	HG	1	138	1	64.2	179.0	0.06035					
				Base Case															
21255	1927.9	5850.6	L:	125002 ROSETON	345	126281	FISHKILL		345	1		1505.0	1935.0	0.22303					
				Base Case															
21256	1937.0	5859.6	L:	Interface	14	Leeds-PV						2754.9	3450.0	0.35885		0.34620	2531.6	3202.2	
				C:SIN:130							1668								
				Open 126263 BUCHANAN S	345	126291	MILLWOOD		345	1						0.08503	0.07442	786.1	930.2
				Open 126263 BUCHANAN S	345	126291	MILLWOOD		345	2						0.08503	0.07442	786.1	930.2
				Open 126263 BUCHANAN S	345	126290	LADENTWN		345	1						-0.08350	0.00000	39.7	39.7
				Open 126263 BUCHANAN S	345	147832	IP3	345	345	1	NA								
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA								
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA								
				Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch								
21257	1937.0	5859.6	L:	Interface	14	Leeds-PV						2754.9	3450.0	0.35885		0.34620	2531.6	3202.2	
				C:SIN:120							1667								
				Open 126263 BUCHANAN S	345	126291	MILLWOOD		345	1						0.08503	0.07442	786.1	930.2
				Open 126263 BUCHANAN S	345	126291	MILLWOOD		345	2						0.08503	0.07442	786.1	930.2
				Open 126263 BUCHANAN S	345	126290	LADENTWN		345	1						-0.08350	0.00000	39.7	39.7
				Open 126263 BUCHANAN S	345	147832	IP3	345	345	1	NA								
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA								
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA								
				Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch								
21258	1966.0	5888.6	*L:	126294 PLTVLLEY	345	137451	LEEDS	3	345	2		-1358.0	-1725.0	-0.18669		-0.17685	-1285.9	-1633.6	
				C:SER:CMT34&MTR34							1593								
				Open 130750 COOPC345	345	146754	MDTN	TAP	345	1						-0.09363	0.12830	872.3	1124.5
				Open 125001 ROCK TAV	345	146754	MDTN	TAP	345	1						-0.02277	-0.09543	-424.0	-611.6
21260	1990.4	5913.0	L:	126274 E13ST	47	345	126870	TX17	T	69.0	17	157.6	272.0	0.05749					
				Base Case															
21268	2033.9	5956.5	L:	126600 REAC71	345	126641	MOTT	HAVEN	345	3		676.6	1196.0	0.25539		0.25539	645.8	1165.2	
				C:GEN:NYPA_AS							1553								
				Remove unit 1 from bus	147788	POLETGT2			18.0	180.0	MW	dispatch							
				Remove unit 1 from bus	147789	POLETSTG			18.0	210.0	MW	dispatch							
				Remove unit 1 from bus	147790	POLETGT1			18.0	180.0	MW	dispatch							
21269	2033.9	5956.5	L:	126266 DUNWODIE	345	126600	REAC71		345	SR		676.6	1196.0	0.25539		0.25539	645.8	1165.2	
				C:GEN:NYPA_AS							1553								

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				Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch								
				Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch								
				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch								
21270	2035.5	5958.1	L:	126600 REAC71	345	126641	MOTT HAVEN	345	3	685.4	1196.0	0.25087		0.25539	645.8	1165.6
			C:	GEN:RAVNWD 3-New												
				Open 126652 RAV 3	22.0	126865	RAV3 60M	345	2				-0.00000	-0.05438	476.0	365.3
				Open 126652 RAV 3	22.0	126866	RAV3 60L	345	1				-0.04157	0.10875	-952.0	-730.6
21271	2035.5	5958.1	L:	126266 DUNWODIE	345	126600	REAC71	345	SR	685.4	1196.0	0.25087		0.25539	645.8	1165.6
			C:	GEN:RAVNWD 3-New												
				Open 126652 RAV 3	22.0	126865	RAV3 60M	345	2				-0.00000	-0.05438	476.0	365.3
				Open 126652 RAV 3	22.0	126866	RAV3 60L	345	1				-0.04157	0.10875	-952.0	-730.6
21272	2035.9	5958.6	L:	126600 REAC71	345	126641	MOTT HAVEN	345	3	676.4	1196.0	0.25522		0.25539	645.8	1165.7
			C:	SIN:360												
				Open 4996 LINDEN	230	126321	GOETHALS	230	1				0.08743	0.00000	334.7	334.7
				Open 126282 FRESH KILLS	345	126283	GOTHLS N	345	1				0.00014	-0.02632	-25.7	-79.3
				Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1				0.00301	-0.05423	444.2	333.8
21273	2035.9	5958.6	L:	126266 DUNWODIE	345	126600	REAC71	345	SR	676.4	1196.0	0.25522		0.25539	645.8	1165.7
			C:	SIN:360												
				Open 4996 LINDEN	230	126321	GOETHALS	230	1				0.08743	0.00000	334.7	334.7
				Open 126282 FRESH KILLS	345	126283	GOTHLS N	345	1				0.00014	-0.02632	-25.7	-79.3
				Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1				0.00301	-0.05423	444.2	333.8
21275	2042.0	5964.7	L:	130750 COOPC345	345	130753	FRASR345	345	1	-1314.7	-1703.0	-0.19017		-0.14746	-994.4	-1295.5
			C:	130750 COOPC345	345	147833	MARCY T1	345	1	196						
				Open 130750 COOPC345	345	147833	MARCY T1	345	1				0.43391	-0.09842	-738.2	-939.1
21276	2047.7	5970.3	*L:	126600 REAC71	345	126641	MOTT HAVEN	345	3	665.7	1196.0	0.25896		0.25539	645.8	1168.7
			C:	125001 ROCK TAV	345	126297	RAMAPO	345	1	7						
				Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.01791	0.19936	1113.2	1521.4
21278	2047.7	5970.3	*L:	126266 DUNWODIE	345	126600	REAC71	345	SR	665.7	1196.0	0.25896		0.25539	645.8	1168.7
			C:	125001 ROCK TAV	345	126297	RAMAPO	345	1	7						
				Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.01791	0.19936	1113.2	1521.4
21287	2066.6	5989.3	L:	126601 REAC72	345	126641	MOTT HAVEN	345	4	671.9	1196.0	0.25358		0.25358	641.4	1165.4
			C:	GEN:NYPA_AS												
				Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch								
				Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch								
				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch								
21288	2066.6	5989.3	L:	126266 DUNWODIE	345	126601	REAC72	345	SR	671.9	1196.0	0.25358		0.25358	641.4	1165.4
			C:	GEN:NYPA_AS												
				Remove unit 1 from bus 147788 POLETGT2	18.0	180.0	MW	dispatch								
				Remove unit 1 from bus 147789 POLETSTG	18.0	210.0	MW	dispatch								
				Remove unit 1 from bus 147790 POLETGT1	18.0	180.0	MW	dispatch								
21289	2068.7	5991.4	L:	126601 REAC72	345	126641	MOTT HAVEN	345	4	671.7	1196.0	0.25341		0.25358	641.4	1166.0
			C:	SIN:360												
				Open 4996 LINDEN	230	126321	GOETHALS	230	1				0.08681	0.00000	334.7	334.7
				Open 126282 FRESH KILLS	345	126283	GOTHLS N	345	1				0.00014	-0.02632	-25.7	-80.2
				Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1				0.00299	-0.05423	444.2	332.0
21290	2068.8	5991.4	L:	126266 DUNWODIE	345	126601	REAC72	345	SR	671.7	1196.0	0.25341		0.25358	641.4	1166.0
			C:	SIN:360												
				Open 4996 LINDEN	230	126321	GOETHALS	230	1				0.08681	0.00000	334.7	334.7

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			Open 126282 FRESH KILLS	345	126283 GOTHLS N	345	1				0.00014	-0.02632	-25.7	-80.2
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1				0.00299	-0.05423	444.2	332.0
21291	2068.8	5991.5	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	680.7	1196.0	0.24909		0.25358	641.4	1166.0
			C:GEN:RAVNWD 3-New											
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2				-0.00000	-0.05438	476.0	363.5
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1				-0.04128	0.10875	-952.0	-727.0
21292	2068.8	5991.5	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	680.7	1196.0	0.24909		0.25358	641.4	1166.0
			C:GEN:RAVNWD 3-New											
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2				-0.00000	-0.05438	476.0	363.5
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1				-0.04128	0.10875	-952.0	-727.0
21294	2080.0	6002.7	*L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	661.2	1196.0	0.25713		0.25358	641.4	1168.8
			C:SIN:440											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.01779	0.19936	1113.2	1527.9
21296	2080.0	6002.7	*L: 126266 DUNWODIE	345	126601 REAC72	345	SR	661.2	1196.0	0.25713		0.25358	641.4	1168.8
			C:SIN:440											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.01779	0.19936	1113.2	1527.9
21298	2081.5	6004.1	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1690.1	2283.0	0.28485		0.19936	1113.2	1528.2
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.38331	0.22303	1505.0	1969.2
21299	2081.5	6004.1	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1690.1	2283.0	0.28485		0.19936	1113.2	1528.2
			C:SIN:430											
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.38331	0.22303	1505.0	1969.2
21332	2110.7	6033.4	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1354.5	-1725.0	-0.17551		-0.16934	-1245.7	-1603.1
			C:SIN:130											
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				-0.04146	0.07442	786.1	943.1
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				-0.04146	0.07442	786.1	943.1
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				0.04071	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2							
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1072.8 MW	dispatch							
21333	2110.7	6033.4	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1354.5	-1725.0	-0.17551		-0.16934	-1245.7	-1603.1
			C:SIN:120											
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				-0.04146	0.07442	786.1	943.1
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				-0.04146	0.07442	786.1	943.1
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				0.04071	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2							
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1072.8 MW	dispatch							
21372	2128.8	6051.4	L: Interface 14 Leeds-PV					2672.1	3450.0	0.36540		0.34620	2531.6	3268.6
			C:SER:CMT34&MTR34											
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				0.18273	0.12830	872.3	1145.4
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.04444	-0.09543	-424.0	-627.1
21385	2130.8	6053.5	L: Interface 14 Leeds-PV					2672.3	3450.0	0.36496		0.34620	2531.6	3269.3
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1				-0.19065	-0.09842	-738.2	-947.9
21443	2144.4	6067.0	L: Interface 49 C-PJMCentral					68.1	0.0	-0.03175		-0.03318	196.7	125.5

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C:BUS:WATERCURE_345													1632									
				Open	130757	WATRC345	345	200769	HOMER	CY	345	1			0.14494	-0.03174	-544.6	-612.6				
				Open	130757	WATRC345	345	130768	WATRC230		230	1			-0.20645	-0.02924	256.9	194.2				
				Open	130755	OAKDL345	345	130757	WATRC345		345	1			0.14892	0.00000	22.5	22.5				
21444	2144.4	6067.0	L:	Interface	50	PJMCentral-C											-68.1	-0.0	0.03175	0.03318	-196.7	-125.5
C:BUS:WATERCURE_345													1632									
				Open	130757	WATRC345	345	200769	HOMER	CY	345	1			-0.14494	-0.03174	-544.6	-612.6				
				Open	130757	WATRC345	345	130768	WATRC230		230	1			0.20645	-0.02924	256.9	194.2				
				Open	130755	OAKDL345	345	130757	WATRC345		345	1			-0.14892	0.00000	22.5	22.5				
21475	2146.6	6069.3	L:	126298	SPRBROOK	345	126518	REACM52			345	SR	797.5	1434.0	0.29652		0.24552	660.3	1187.3			
			C:	126298	SPRBROOK	345	126517	REACM51			345	SR	131									
				Open	126298	SPRBROOK	345	126517	REACM51		345	SR			0.20773	0.24552	660.3	1187.3				
21476	2146.6	6069.3	L:	126298	SPRBROOK	345	126517	REACM51			345	SR	797.5	1434.0	0.29652		0.24552	660.3	1187.3			
			C:	126298	SPRBROOK	345	126518	REACM52			345	SR	132									
				Open	126298	SPRBROOK	345	126518	REACM52		345	SR			0.20773	0.24552	660.3	1187.3				
21492	2148.9	6071.5	L:	126298	SPRBROOK	345	126517	REACM51			345	SR	796.8	1434.0	0.29652		0.24552	660.3	1187.9			
			C:	126304	W 49 ST	345	126518	REACM52			345	2	1367									
				Open	126304	W 49 ST	345	126518	REACM52		345	2			-0.20773	-0.24552	-657.1	-1184.7				
21493	2148.9	6071.5	L:	126298	SPRBROOK	345	126518	REACM52			345	SR	796.8	1434.0	0.29652		0.24552	660.3	1187.9			
			C:	126304	W 49 ST	345	126517	REACM51			345	1	1366									
				Open	126304	W 49 ST	345	126517	REACM51		345	1			-0.20773	-0.24552	-657.1	-1184.7				
24481	2157.5	6080.2	L:	126304	W 49 ST	345	126517	REACM51			345	1	-794.3	-1434.0	-0.29652		-0.24552	-657.1	-1186.8			
			C:	126298	SPRBROOK	345	126518	REACM52			345	SR	132									
				Open	126298	SPRBROOK	345	126518	REACM52		345	SR			-0.20773	0.24552	660.3	1190.0				
24482	2157.5	6080.2	L:	126304	W 49 ST	345	126518	REACM52			345	2	-794.3	-1434.0	-0.29652		-0.24552	-657.1	-1186.8			
			C:	126298	SPRBROOK	345	126517	REACM51			345	SR	131									
				Open	126298	SPRBROOK	345	126517	REACM51		345	SR			-0.20773	0.24552	660.3	1190.0				
24547	2159.8	6082.4	L:	126304	W 49 ST	345	126518	REACM52			345	2	-793.6	-1434.0	-0.29652		-0.24552	-657.1	-1187.3			
			C:	126304	W 49 ST	345	126517	REACM51			345	1	1366									
				Open	126304	W 49 ST	345	126517	REACM51		345	1			0.20773	-0.24552	-657.1	-1187.3				
24548	2159.8	6082.4	L:	126304	W 49 ST	345	126517	REACM51			345	1	-793.6	-1434.0	-0.29652		-0.24552	-657.1	-1187.3			
			C:	126304	W 49 ST	345	126518	REACM52			345	2	1367									
				Open	126304	W 49 ST	345	126518	REACM52		345	2			0.20773	-0.24552	-657.1	-1187.3				
24797	2181.5	6104.1	*L:	Interface	14	Leeds-PV							2655.1	3450.0	0.36437		0.34620	2531.6	3286.8			
			C:	130750	COOPC345	345	146754	MDTN TAP			345	1	195									
				Open	130750	COOPC345	345	146754	MDTN TAP		345	1			0.14164	0.12830	872.3	1152.2				
24912	2184.7	6107.4	L:	130750	COOPC345	345	146754	MDTN TAP			345	1	1347.9	1793.0	0.20373		0.12830	872.3	1152.6			
			C:	125001	ROCK TAV	345	130750	COOPC345			345	2	8									
				Open	125001	ROCK TAV	345	130750	COOPC345		345	2			-0.64149	-0.11758	-741.5	-998.3				
25918	2187.2	6109.8	L:	126295	RAINEY	345	126641	MOTT HAVEN			345	3	-515.7	-1196.0	-0.31105		-0.26326	-387.1	-962.9			
			C:	126298	SPRBROOK	345	126517	REACM51			345	SR	131									
				Open	126298	SPRBROOK	345	126517	REACM51		345	SR			-0.19468	0.24552	660.3	1197.3				
25921	2187.2	6109.8	L:	126295	RAINEY	345	126641	MOTT HAVEN			345	3	-515.7	-1196.0	-0.31105		-0.26326	-387.1	-962.9			
			C:	126298	SPRBROOK	345	126518	REACM52			345	SR	132									
				Open	126298	SPRBROOK	345	126518	REACM52		345	SR			-0.19468	0.24552	660.3	1197.3				
27733	2189.2	6111.8	L:	126295	RAINEY	345	126641	MOTT HAVEN			345	3	-515.0	-1196.0	-0.31105		-0.26326	-387.1	-963.4			
			C:	126304	W 49 ST	345	126518	REACM52			345	2	1367									
				Open	126304	W 49 ST	345	126518	REACM52		345	2			0.19468	-0.24552	-657.1	-1194.6				

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27734	2189.2	6111.8	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-515.0	-1196.0	-0.31105	-0.26326	-387.1	-963.4
			C:126304 W 49 ST	345	126517	REACM51	345	1 1366						
			Open 126304 W 49 ST		345	126517	REACM51	345	1			0.19468	-0.24552	-657.1 -1194.6
28032	2209.0	6131.6	L: 126434 GRENWOOD	138	126454	KENTTAP	138	1	-116.3	-188.0	-0.03247			
			Base Case											
28113	2233.5	6156.1	L: 126298 SPRBROOK	345	126517	REACM51	345	SR	780.0	1434.0	0.29283	0.24552	660.3	1208.7
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3 1371						
			Open 126600 REAC71		345	126641	MOTT HAVEN	345	3			0.18528	0.25539	645.8 1216.2
28114	2233.5	6156.1	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	780.0	1434.0	0.29283	0.24552	660.3	1208.7
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3 1371						
			Open 126600 REAC71		345	126641	MOTT HAVEN	345	3			0.18528	0.25539	645.8 1216.2
28115	2233.5	6156.1	L: 126298 SPRBROOK	345	126517	REACM51	345	SR	780.0	1434.0	0.29283	0.24552	660.3	1208.7
			C:126266 DUNWODIE	345	126600	REAC71	345	SR 95						
			Open 126266 DUNWODIE		345	126600	REAC71	345	SR			0.18528	0.25539	645.8 1216.2
28116	2233.5	6156.1	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	780.0	1434.0	0.29283	0.24552	660.3	1208.7
			C:126266 DUNWODIE	345	126600	REAC71	345	SR 95						
			Open 126266 DUNWODIE		345	126600	REAC71	345	SR			0.18528	0.25539	645.8 1216.2
28153	2240.0	6162.7	L: 126298 SPRBROOK	345	126517	REACM51	345	SR	779.0	1434.0	0.29242	0.24552	660.3	1210.3
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4 1372						
			Open 126601 REAC72		345	126641	MOTT HAVEN	345	4			0.18498	0.25358	641.4 1209.4
28154	2240.0	6162.7	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	779.0	1434.0	0.29242	0.24552	660.3	1210.3
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4 1372						
			Open 126601 REAC72		345	126641	MOTT HAVEN	345	4			0.18498	0.25358	641.4 1209.4
28155	2240.1	6162.7	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	779.0	1434.0	0.29242	0.24552	660.3	1210.3
			C:126266 DUNWODIE	345	126601	REAC72	345	SR 96						
			Open 126266 DUNWODIE		345	126601	REAC72	345	SR			0.18498	0.25358	641.4 1209.4
28156	2240.1	6162.7	L: 126298 SPRBROOK	345	126517	REACM51	345	SR	779.0	1434.0	0.29242	0.24552	660.3	1210.3
			C:126266 DUNWODIE	345	126601	REAC72	345	SR 96						
			Open 126266 DUNWODIE		345	126601	REAC72	345	SR			0.18498	0.25358	641.4 1209.4
28180	2244.5	6167.1	L: 126304 W 49 ST	345	126518	REACM52	345	2	-776.7	-1434.0	-0.29283	-0.24552	-657.1	-1208.1
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3 1371						
			Open 126600 REAC71		345	126641	MOTT HAVEN	345	3			-0.18528	0.25539	645.8 1219.0
28181	2244.5	6167.1	L: 126304 W 49 ST	345	126517	REACM51	345	1	-776.7	-1434.0	-0.29283	-0.24552	-657.1	-1208.1
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3 1371						
			Open 126600 REAC71		345	126641	MOTT HAVEN	345	3			-0.18528	0.25539	645.8 1219.0
28182	2244.5	6167.1	L: 126304 W 49 ST	345	126518	REACM52	345	2	-776.7	-1434.0	-0.29283	-0.24552	-657.1	-1208.1
			C:126266 DUNWODIE	345	126600	REAC71	345	SR 95						
			Open 126266 DUNWODIE		345	126600	REAC71	345	SR			-0.18528	0.25539	645.8 1219.0
28183	2244.5	6167.1	L: 126304 W 49 ST	345	126517	REACM51	345	1	-776.7	-1434.0	-0.29283	-0.24552	-657.1	-1208.1
			C:126266 DUNWODIE	345	126600	REAC71	345	SR 95						
			Open 126266 DUNWODIE		345	126600	REAC71	345	SR			-0.18528	0.25539	645.8 1219.0
28202	2251.1	6173.7	L: 126304 W 49 ST	345	126517	REACM51	345	1	-775.7	-1434.0	-0.29242	-0.24552	-657.1	-1209.8
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4 1372						
			Open 126601 REAC72		345	126641	MOTT HAVEN	345	4			-0.18498	0.25358	641.4 1212.2
28203	2251.1	6173.7	L: 126304 W 49 ST	345	126518	REACM52	345	2	-775.7	-1434.0	-0.29242	-0.24552	-657.1	-1209.8
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4 1372						
			Open 126601 REAC72		345	126641	MOTT HAVEN	345	4			-0.18498	0.25358	641.4 1212.2
28204	2251.1	6173.7	L: 126304 W 49 ST	345	126517	REACM51	345	1	-775.7	-1434.0	-0.29242	-0.24552	-657.1	-1209.8

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				C:126266 DUNWODIE	345	126601 REAC72	345	SR	96										
				Open 126266 DUNWODIE	345	126601 REAC72	345	SR											
28205	2251.1	6173.7	L:	126304 W 49 ST	345	126518 REACM52	345	2											
				C:126266 DUNWODIE	345	126601 REAC72	345	SR	96										
				Open 126266 DUNWODIE	345	126601 REAC72	345	SR											
28251	2277.2	6199.8	L:	146754 MDTN TAP	345	146772 SHOEMTAP	138	1											
				C:SIN:440					1683										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1											
28252	2277.2	6199.8	L:	146754 MDTN TAP	345	146772 SHOEMTAP	138	1											
				C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1											
28284	2298.8	6221.5	L:	126294 PLTVLLEY	345	137455 ATHENS	345	1											
				C:SER:CMT34&MTR34					1593										
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1											
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1											
28297	2301.1	6223.8	*L:	126294 PLTVLLEY	345	137455 ATHENS	345	1											
				C:130750 COOPC345	345	147833 MARCY T1	345	1	196										
				Open 130750 COOPC345	345	147833 MARCY T1	345	1											
28385	2381.1	6303.8	L:	126353 ASTORIA WEST	138	126446 HG 5	138	1											
				Base Case															
28410	2404.1	6326.8	L:	126274 E13ST 47	345	126870 TX17 T	69.0	17											
				C:BUS:E13TH_48_345					1630										
				Open 126275 E13ST 48	345	126277 FARRAGUT	345	1											
				Open 126275 E13ST 48	345	126499 T11MPT	138	11											
				Open 126275 E13ST 48	345	126867 TX10 T	138	10											
28421	2409.8	6332.5	L:	126274 E13ST 47	345	126870 TX17 T	69.0	17											
				C:BUS:E13TH_45_345					1627										
				Open 126272 E13ST 45	345	126277 FARRAGUT	345	1											
				Open 126272 E13ST 45	345	126304 W 49 ST	345	1											
				Open 126272 E13ST 45	345	126495 T14MPT	138	14											
				Open 126272 E13ST 45	345	126871 TX15 T	138	15											
28422	2412.0	6334.6	L:	126274 E13ST 47	345	126870 TX17 T	69.0	17											
				C:BUS:E13TH_46_345					1628										
				Open 126273 E13ST 46	345	126277 FARRAGUT	345	1											
				Open 126273 E13ST 46	345	126304 W 49 ST	345	1											
				Open 126273 E13ST 46	345	126497 T13MPT	138	13											
				Open 126273 E13ST 46	345	126873 TX12 T	138	12											
28463	2451.1	6373.7	L:	130750 COOPC345	345	147833 MARCY T1	345	1											
				C:130750 COOPC345	345	130753 FRASR345	345	1	192										
				Open 130750 COOPC345	345	130753 FRASR345	345	1											
28476	2456.9	6379.5	L:	126295 RAINEY	345	126641 MOTT HAVEN	345	4											
				C:126298 SPRBROOK	345	126518 REACM52	345	SR	132										
				Open 126298 SPRBROOK	345	126518 REACM52	345	SR											
28477	2456.9	6379.5	L:	126295 RAINEY	345	126641 MOTT HAVEN	345	4											
				C:126298 SPRBROOK	345	126517 REACM51	345	SR	131										
				Open 126298 SPRBROOK	345	126517 REACM51	345	SR											
28481	2458.9	6381.5	L:	126295 RAINEY	345	126641 MOTT HAVEN	345	4											
				C:126304 W 49 ST	345	126517 REACM51	345	1	1366										

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			Open 126304 W 49 ST	345	126517 REACM51	345	1				0.18170	-0.24552	-657.1	-1260.8
28482	2458.9	6381.5	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	4	-482.1	-1196.0	-0.29032		-0.24571	-362.8	-966.9
			C:126304 W 49 ST	345	126518 REACM52	345	2	1367						
			Open 126304 W 49 ST	345	126518 REACM52	345	2				0.18170	-0.24552	-657.1	-1260.8
30079	2538.2	6460.8	L: Interface	15	ItoNYC345			2723.6	5260.0	0.99930		1.00000	2601.3	5139.5
			C:SIN:360					1681						
			Open 4996 LINDEN	230	126321 GOETHALS	230	1				0.34876	0.00000	334.7	334.7
			Open 126282 FRESH KILLS	345	126283 GOTHLS N	345	1				0.00070	-0.02632	-25.7	-92.5
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1				0.01249	-0.05423	444.2	306.5
30082	2538.7	6461.3	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1289.8	-1793.0	-0.19823		-0.11758	-741.5	-1040.0
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	195						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.62859	0.12830	872.3	1198.0
30092	2542.6	6465.3	L: Interface	15	ItoNYC345			2717.4	5260.0	1.00000		1.00000	2601.3	5144.0
			C:GEN:NYPA_AS					1553						
			Remove unit 1 from bus	147788	POLETGT2	18.0	180.0	MW	dispatch					
			Remove unit 1 from bus	147789	POLETSTG	18.0	210.0	MW	dispatch					
			Remove unit 1 from bus	147790	POLETGT1	18.0	180.0	MW	dispatch					
30101	2549.8	6472.5	L: Interface	15	ItoNYC345			2676.1	5260.0	1.01338		1.00000	2601.3	5151.1
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.06713	0.19936	1113.2	1621.5
30102	2549.8	6472.5	L: Interface	15	ItoNYC345			2676.1	5260.0	1.01338		1.00000	2601.3	5151.1
			C:SIN:440					1683						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.06713	0.19936	1113.2	1621.5
30111	2555.4	6478.0	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1218.4	-1724.0	-0.19784		-0.14330	-861.9	-1228.1
			C:BUS:N.S._77					1614						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.60779	-0.01679	-247.8	-290.7
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1				0.40443	-0.01951	111.6	61.7
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.33531	0.11154	821.7	1106.7
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				-0.26699	-0.00358	-91.5	-100.7
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				0.20560	0.00000	-0.0	-0.0
30114	2560.3	6483.0	L: Interface	15	ItoNYC345			2740.4	5260.0	0.98412		1.00000	2601.3	5161.6
			C:GEN:RAVNWD 3-New					1774						
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2				-0.00000	-0.05438	476.0	336.8
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1				-0.14602	0.10875	-952.0	-673.6
30118	2563.7	6486.3	L: Interface	15	ItoNYC345			2696.3	5260.0	1.00000		1.00000	2601.3	5165.0
			C:BUS:SHORE_RD_345					1621						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.19979	-0.00000	237.3	237.3
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.19979	-0.00000	236.5	236.5
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.24797	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1				0.24797	0.00000	0.0	0.0
30119	2563.7	6486.4	L: Interface	15	ItoNYC345			2696.3	5260.0	1.00000		1.00000	2601.3	5165.1
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.19979	-0.00000	475.2	475.2
30142	2584.4	6507.0	L: Interface	15	ItoNYC345			2675.6	5260.0	1.00000		1.00000	2601.3	5185.7
			C:GEN:SALEM					1567						
			Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch					
30143	2584.8	6507.5	L: 146758 CHESTER	138	146773 SGRLF138	138	1	202.0	317.0	0.04451		0.02745	126.2	197.1
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	9						

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			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				-0.17871	-0.09543	-424.0	-670.6
30153	2591.5	6514.2	L: Interface 15 ItoNYC345						2668.5	5260.0	1.00000		1.00000	2601.3	5192.9
			C:SPRN-BRK-345					1777							
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY				0.14483	-0.00000	462.1	462.1
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1				0.00017	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1				0.09801	0.00000	2.5	2.5
30154	2591.5	6514.2	*L: Interface 15 ItoNYC345						2668.5	5260.0	1.00000		1.00000	2601.3	5192.9
			C:BUS:EGC_345					1622							
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY				0.14483	-0.00000	462.1	462.1
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1				0.00017	0.00000	-229.8	-229.8
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1				0.09801	0.00000	2.5	2.5
30712	2652.2	6574.8	L: 126353 ASTORIA WEST 138	126587	HG6 TAP2	138	1		48.1	197.0	0.05616				
			Base Case												
33315	2662.8	6585.4	L: 130794 DELHI115 115	130804	DEL T115	115	1		68.8	164.0	0.03577		0.01907	0.7	51.5
			C:130753 FRASR345 345	130755	OAKDL345	345	1	200							
			Open 130753 FRASR345 345	130755	OAKDL345	345	1					-0.11754	-0.14208	-579.0	-957.4
33516	2715.9	6638.5	L: 125001 ROCK TAV 345	130750	COOPC345	345	2		-1259.6	-1793.0	-0.19640		-0.11758	-741.5	-1060.8
			C:SER:CMT34&MTR34 1593												
			Open 130750 COOPC345 345	146754	MDTN TAP	345	1					-0.55569	0.12830	872.3	1220.7
			Open 125001 ROCK TAV 345	146754	MDTN TAP	345	1					0.07884	-0.09543	-424.0	-683.1
33572	2744.1	6666.8	L: 125002 ROSETON 345	125190	ROSE GN1	24.0	1		-437.3	-614.0	-0.06440				
			Base Case												
33635	2787.5	6710.2	L: 146758 CHESTER 138	146771	SHOEM138	138	1		-217.3	-317.0	-0.03575		-0.02745	-161.3	-237.9
			C:SIN:430 1682												
			Open 125002 ROSETON 345	126281	FISHKILL	345	1					-0.03721	0.22303	1505.0	2126.7
33636	2787.5	6710.2	L: 146758 CHESTER 138	146771	SHOEM138	138	1		-217.3	-317.0	-0.03575		-0.02745	-161.3	-237.9
			C:125002 ROSETON 345	126281	FISHKILL	345	1	10							
			Open 125002 ROSETON 345	126281	FISHKILL	345	1					-0.03721	0.22303	1505.0	2126.7
33694	2813.0	6735.7	L: 126274 E13ST 47 345	126870	TX17 T	69.0	17		157.9	320.0	0.05762		0.05749	157.6	319.3
			C:126298 SPRBROOK 345	126518	REACM52	345	SR	132							
			Open 126298 SPRBROOK 345	126518	REACM52	345	SR					0.00052	0.24552	660.3	1351.0
33695	2813.0	6735.7	L: 126274 E13ST 47 345	126870	TX17 T	69.0	17		157.9	320.0	0.05762		0.05749	157.6	319.3
			C:126298 SPRBROOK 345	126517	REACM51	345	SR	131							
			Open 126298 SPRBROOK 345	126517	REACM51	345	SR					0.00052	0.24552	660.3	1351.0
33696	2813.1	6735.7	L: 126274 E13ST 47 345	126870	TX17 T	69.0	17		157.9	320.0	0.05762		0.05749	157.6	319.3
			C:126304 W 49 ST 345	126517	REACM51	345	1	1366							
			Open 126304 W 49 ST 345	126517	REACM51	345	1					-0.00052	-0.24552	-657.1	-1347.7
33697	2813.1	6735.7	L: 126274 E13ST 47 345	126870	TX17 T	69.0	17		157.9	320.0	0.05762		0.05749	157.6	319.3
			C:126304 W 49 ST 345	126518	REACM52	345	2	1367							
			Open 126304 W 49 ST 345	126518	REACM52	345	2					-0.00052	-0.24552	-657.1	-1347.7

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33794	2823.7	6746.4	L: 126274 E13ST 47	345	126870 TX17 T	69.0	17	157.7	320.0	0.05749	0.05749	157.6	319.9
			C:SIN:130				1668						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00003	0.07442	786.1	996.2
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00003	0.07442	786.1	996.2
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			-0.00002	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA					
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch				
33795	2823.7	6746.4	L: 126274 E13ST 47	345	126870 TX17 T	69.0	17	157.7	320.0	0.05749	0.05749	157.6	319.9
			C:SIN:120				1667						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00003	0.07442	786.1	996.2
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00003	0.07442	786.1	996.2
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			-0.00002	0.00000	39.7	39.7
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA					
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1072.8	MW	dispatch				
33811	2824.4	6747.0	*L: 126274 E13ST 47	345	126870 TX17 T	69.0	17	157.6	320.0	0.05749	0.05749	157.6	319.9
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351					
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1			0.00005	0.00000	1000.8	1000.8
36967	2845.2	6767.8	L: 126434 GREWOOD	138	126506 VERNON-E	138	1	-46.5	-188.0	-0.04973			
			Base Case										
37006	2865.8	6788.4	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1189.2	-1724.0	-0.18663	-0.14425	-866.4	-1279.8
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1007					
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34981	-0.12114	-922.6	-1269.8
37015	2869.9	6792.6	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	693.8	1434.0	0.25790	0.24552	660.3	1364.9
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1	92					
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1			-0.09172	-0.13502	-365.5	-753.0
37016	2869.9	6792.6	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	693.8	1434.0	0.25790	0.24552	660.3	1364.9
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1	92					
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1			-0.09172	-0.13502	-365.5	-753.0
37035	2882.5	6805.1	L: 126304 W 49 ST	345	126517 REACM51	345	1	-690.6	-1434.0	-0.25790	-0.24552	-657.1	-1364.8
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1	92					
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1			0.09172	-0.13502	-365.5	-754.7
37036	2882.5	6805.1	L: 126304 W 49 ST	345	126518 REACM52	345	2	-690.6	-1434.0	-0.25790	-0.24552	-657.1	-1364.8
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1	92					
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1			0.09172	-0.13502	-365.5	-754.7
37053	2904.2	6826.8	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1184.7	-1724.0	-0.18569	-0.14330	-861.9	-1278.0
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1007					
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.34992	-0.12114	-922.6	-1274.5
37079	2952.0	6874.7	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-418.9	-1196.0	-0.26326	-0.26326	-387.1	-1164.3
			C:GEN:NYPA_AS				1553						
			Remove unit 1 from bus	147788	POLETGT2	18.0	180.0	MW	dispatch				
			Remove unit 1 from bus	147789	POLETSTG	18.0	210.0	MW	dispatch				
			Remove unit 1 from bus	147790	POLETGT1	18.0	180.0	MW	dispatch				
37082	2953.2	6875.8	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-407.7	-1196.0	-0.26694	-0.26326	-387.1	-1164.6
			C:SIN:440				1683						

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			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		-0.01846	0.19936	1113.2	1702.0	
37083	2953.2	6875.8	L:	126295	RAINEY	345	126641	MOTT HAVEN	345	3	-407.7	-1196.0	-0.26694	-0.26326	-387.1	-1164.6
			C:	125001	ROCK TAV	345	126297	RAMAPO	345	1	7					
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		-0.01846	0.19936	1113.2	1702.0	
37087	2954.7	6877.3	L:	126295	RAINEY	345	126641	MOTT HAVEN	345	3	-418.7	-1196.0	-0.26309	-0.26326	-387.1	-1165.0
			C:	SIN:360										1681		
			Open	4996	LINDEN	230	126321	GOETHALS	230	1		-0.09013	0.00000	334.7	334.7	
			Open	126282	FRESH KILLS	345	126283	GOTHLS N	345	1		-0.00014	-0.02632	-25.7	-103.5	
			Open	126283	GOTHLS N	345	126286	GOWANUSN	345	1		-0.00310	-0.05423	444.2	284.0	
37090	2970.2	6892.8	L:	126295	RAINEY	345	126641	MOTT HAVEN	345	3	-427.9	-1196.0	-0.25860	-0.26326	-387.1	-1169.0
			C:	GEN:RAVNWD 3-New										1774		
			Open	126652	RAV 3	22.0	126865	RAV3 60M	345	2		0.00000	-0.05438	476.0	314.5	
			Open	126652	RAV 3	22.0	126866	RAV3 60L	345	1		0.04285	0.10875	-952.0	-629.0	
37091	2973.2	6895.8	*L:	126295	RAINEY	345	126641	MOTT HAVEN	345	3	-413.3	-1196.0	-0.26326	-0.26326	-387.1	-1169.8
			C:	BUS:SHORE_RD_345										1621		
			Open	128835	SHORE RD	345	129293	SHORE RD	138	1		-0.05501	-0.00000	237.3	237.3	
			Open	128835	SHORE RD	345	129293	SHORE RD	138	2		-0.05501	-0.00000	236.5	236.5	
			Open	126266	DUNWODIE	345	128835	SHORE RD	345	1		-0.06657	0.00000	1.3	1.3	
			Open	150	DUNWD SW	0.0	126266	DUNWODIE	345	1		-0.06657	0.00000	0.0	0.0	
37093	2981.9	6904.5	L:	146771	SHOEM138	138	146772	SHOEMTAP	138	1	-544.2	-707.0	-0.05460	-0.03287	-447.6	-545.6
			C:	125001	ROCK TAV	345	146754	MDTN TAP	345	1	9					
			Open	125001	ROCK TAV	345	146754	MDTN TAP	345	1		0.22773	-0.09543	-424.0	-708.5	

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, MAY 06 2009 12:46
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-y49-637mw.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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Study transfer. From I_EXPORT To K_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 42436 violations

Interface-1 Interface 41 I-to-K Init.Flow= 1112.93 TDF= 0.9870

N	FCITC	IntFcel	L:	Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
									Init	Final
				C: Contingency description	Ncon	Flow	Rating	LODF		
1	-559.6	560.6	L:	Interface 51 G-PJMEast	25.7	-0.0	0.04600	0.00000	-0.4	-0.4
				C:126266 DUNWODIE 345 126298 SPRBROOK 345 1 92						
				Open 126266 DUNWODIE 345 126298 SPRBROOK 345 1				-0.07339	-0.62687	-356.2 -5.4
2	-559.6	560.6	L:	Interface 52 PJMEast-G	-25.7	0.0	-0.04600	-0.00000	0.4	0.4
				C:126266 DUNWODIE 345 126298 SPRBROOK 345 1 92						
				Open 126266 DUNWODIE 345 126298 SPRBROOK 345 1				0.07339	-0.62687	-356.2 -5.4
3	-530.1	589.7	L:	Interface 51 G-PJMEast	22.6	0.0	0.04271	0.00000	-0.4	-0.4
				C:BUS:SHORE_RD_345 1621						
				Open 128835 SHORE RD 345 129293 SHORE RD 138 1				0.04779	0.50089	236.0 -29.5
				Open 128835 SHORE RD 345 129293 SHORE RD 138 2				0.04779	0.49911	235.2 -29.4
				Open 126266 DUNWODIE 345 128835 SHORE RD 345 1				0.39128	0.00000	1.3 1.3
				Open 150 DUNWD SW 0.0 126266 DUNWODIE 345 1				0.39128	-0.01299	-0.0 6.9
4	-530.1	589.7	L:	Interface 52 PJMEast-G	-22.6	-0.0	-0.04271	-0.00000	0.4	0.4
				C:BUS:SHORE_RD_345 1621						
				Open 128835 SHORE RD 345 129293 SHORE RD 138 1				-0.04779	0.50089	236.0 -29.5
				Open 128835 SHORE RD 345 129293 SHORE RD 138 2				-0.04779	0.49911	235.2 -29.4
				Open 126266 DUNWODIE 345 128835 SHORE RD 345 1				-0.39128	0.00000	1.3 1.3
				Open 150 DUNWD SW 0.0 126266 DUNWODIE 345 1				-0.39128	-0.01299	-0.0 6.9
5	-464.2	654.7	L:	Interface 51 G-PJMEast	22.2	0.0	0.04779	0.00000	-0.4	-0.4

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				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363										
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.04779	1.00000	472.6	8.3				
6	-464.2	654.7	L:	Interface 52 PJMEast-G						-22.2	-0.0	-0.04779	-0.00000	0.4	0.4				
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363										
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.04779	1.00000	472.6	8.3				
7	126.4	1237.7	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		472.6	599.0	1.00000							
				Base Case															
				I to K interface flow with Rate A of Dunwoodie-Shore Road 345 kV changed to 653 MVA is: $1237.7 + (653 - 599) = 1292.7$ MW															
8	196.6	1307.0	L:	Interface 42 K-to-I						-1112.9	-1307.0	-0.98701							
				Base Case															
9	196.6	1307.0	L:	Interface 41 I-to-K						1112.9	1307.0	0.98701							
				Base Case															
10	263.4	1373.0	L:	129234 VLY STRM	138	129271 E.G.C.-2	138	1		-193.5	-211.0	-0.06634							
				Base Case															
11	491.0	1597.6	L:	128835 SHORE RD	345	129293 SHORE RD	138	1		236.0	482.0	0.50089							
				Base Case															
12	494.5	1601.0	L:	128835 SHORE RD	345	129293 SHORE RD	138	2		235.2	482.0	0.49911							
				Base Case															
13	580.8	1686.2	L:	128835 SHORE RD	345	129293 SHORE RD	138	1		344.9	770.0	0.73191	0.50089	236.0	527.0				
				C:128835 SHORE RD	345	129293 SHORE RD	138	2	1397										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.46286	0.49911	235.2	525.1				
14	582.8	1688.2	L:	128835 SHORE RD	345	129293 SHORE RD	138	2		344.3	770.0	0.73051	0.49911	235.2	526.1				
				C:128835 SHORE RD	345	129293 SHORE RD	138	1	1396										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.46197	0.50089	236.0	528.0				
15	608.6	1713.7	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		807.4	1416.0	1.00000	1.00000	472.6	1081.2				
				C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				-0.52374	0.00000	-639.2	-639.2				
16	609.5	1714.5	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		806.5	1416.0	1.00000	1.00000	472.6	1082.1				
				C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				-0.52374	0.00000	-637.6	-637.6				
17	609.5	1714.5	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		806.5	1416.0	1.00000	1.00000	472.6	1082.1				
				C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1				0.52374	0.00000	637.6	637.6				
18	610.0	1715.0	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		806.6	1416.0	0.99906	1.00000	472.6	1082.6				
				C:SPRN-BRK-345					1777										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.52350	-0.02597	642.0	626.1				
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA									
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA									
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA									
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA									
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00047	0.00000	-318.6	-318.6				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.48744	-0.02597	4.6	-11.2				
19	610.0	1715.0	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		806.6	1416.0	0.99906	1.00000	472.6	1082.6				
				C:BUS:EGC_345					1622										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA									
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.52350	-0.02597	642.0	626.1				
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA									
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA									

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				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00047	0.00000	-318.6	-318.6				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.48744	-0.02597	4.6	-11.2				
20	612.2	1717.2	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1	808.0	1416.0	0.99320		1.00000	472.6	1084.8				
				C:126299 REACBUS	345	147857 DVNPT NK	345	1	133										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1				0.52374	-0.01299	640.4	632.4				
21	642.6	1747.2	L:	Interface 64 LIPA Export					-1922.4	-2497.0	-0.89423								
				Base Case															
22	642.6	1747.2	L:	Interface 28 LIPA Import					1922.4	2497.0	0.89423								
				Base Case															
23	705.8	1809.6	L:	126385 E179 ST	138	126730 15055 SR	138	1	218.5	246.0	0.03896								
				Base Case															
24	717.9	1821.5	L:	126581 HG TAP	138	126730 15055 SR	138	1	-218.0	-246.0	-0.03896								
				Base Case															
25	731.2	1834.7	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	403.7	770.0	0.50089		0.50089	236.0	602.3				
				C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				-0.26233	0.00000	-639.2	-639.2				
26	732.1	1835.5	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	403.3	770.0	0.50089		0.50089	236.0	602.7				
				C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				-0.26233	0.00000	-637.6	-637.6				
27	732.1	1835.5	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	403.3	770.0	0.50089		0.50089	236.0	602.7				
				C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1				0.26233	0.00000	637.6	637.6				
28	732.7	1836.1	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	403.3	770.0	0.50042		0.50089	236.0	603.1				
				C:SPRN-BRK-345				1777											
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.26222	-0.02597	642.0	622.9				
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00024	0.00000	-318.6	-318.6				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.24416	-0.02597	4.6	-14.4				
29	732.7	1836.1	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	403.3	770.0	0.50042		0.50089	236.0	603.1				
				C:BUS:EGC_345				1622											
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.26222	-0.02597	642.0	622.9				
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00024	0.00000	-318.6	-318.6				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.24416	-0.02597	4.6	-14.4				
30	735.6	1839.0	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	404.0	770.0	0.49748		0.50089	236.0	604.5				
				C:126299 REACBUS	345	147857 DVNPT NK	345	1	133										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1				0.26233	-0.01299	640.4	630.8				
31	736.7	1840.1	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	402.3	770.0	0.49911		0.49911	235.2	602.9				
				C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				-0.26140	0.00000	-639.2	-639.2				
32	737.5	1840.9	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	401.9	770.0	0.49911		0.49911	235.2	603.3				

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				C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1											
33	737.5	1840.9		L: 128835 SHORE RD	345	129293 SHORE RD	138	2		401.9	770.0	0.49911		0.49911	235.2	603.3			
				C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1											
34	738.2	1841.5		L: 128835 SHORE RD	345	129293 SHORE RD	138	2		401.9	770.0	0.49864		0.49911	235.2	603.6			
				C:BUS:EGC_345					1622										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA									
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY						0.26128	-0.02597	642.0	622.8		
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA									
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA									
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA									
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1											
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1						-0.00024	0.00000	-318.6	-318.6		
35	738.2	1841.5		L: 128835 SHORE RD	345	129293 SHORE RD	138	2		401.9	770.0	0.49864		0.49911	235.2	603.6			
				C:SPRN-BRK-345					1777										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY						0.26128	-0.02597	642.0	622.8		
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA									
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA									
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA									
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA									
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1											
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1						-0.00024	0.00000	-318.6	-318.6		
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1						-0.24329	-0.02597	4.6	-14.6		
36	738.7	1842.0		L: 126266 DUNWODIE	345	128835 SHORE RD	345	1		677.3	1416.0	1.00000		1.00000	472.6	1211.3			
				C:128842 NEPTCONV	345	128847 NWBRG	345	1	1398										
				Open 128842 NEPTCONV	345	128847 NWBRG	345	1											
37	741.1	1844.5		L: 128835 SHORE RD	345	129293 SHORE RD	138	2		402.6	770.0	0.49572		0.49911	235.2	605.1			
				C:126299 REACBUS	345	147857 DVNPT NK	345	1	133										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1						0.26140	-0.01299	640.4	630.7		
38	765.8	1868.8		L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		82.5	118.0	0.04639							
				Base Case															
39	779.8	1882.6		L: 129281 GLNWD GT	138	129288 ROSLYN	138	1		100.6	379.0	0.35707		0.35707	-48.0	230.4			
				C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1						-0.23245	0.00000	-639.2	-639.2		
40	780.8	1883.6		L: 129281 GLNWD GT	138	129288 ROSLYN	138	1		100.2	379.0	0.35707		0.35707	-48.0	230.8			
				C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1						-0.23245	0.00000	-637.6	-637.6		
41	780.8	1883.6		L: 129281 GLNWD GT	138	129288 ROSLYN	138	1		100.2	379.0	0.35707		0.35707	-48.0	230.8			
				C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1						0.23245	0.00000	637.6	637.6		
42	781.4	1884.1		L: 129281 GLNWD GT	138	129288 ROSLYN	138	1		100.2	379.0	0.35684		0.35707	-48.0	231.0			
				C:BUS:EGC_345					1622										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA									
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY						0.23207	-0.02597	642.0	621.7		
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA									
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA									
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA									
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1											
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1						-0.00076	0.00000	-318.6	-318.6		

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				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.22317	-0.02597	4.6	-15.7
43	781.4	1884.1	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1	100.2	379.0	0.35684		0.35707	-48.0	231.0
				C:SPRN-BRK-345				1777							
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.23207	-0.02597	642.0	621.7
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA						
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA						
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00076	0.00000	-318.6	-318.6
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.22317	-0.02597	4.6	-15.7
44	785.7	1888.4	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1	100.8	379.0	0.35405		0.35707	-48.0	232.5
				C:126299 REACBUS	345	147857 DVNPT NK	345	1	133						
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1				0.23245	-0.01299	640.4	630.1
45	803.7	1906.2	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	-52.0	-339.0	-0.35707		-0.35707	96.6	-190.4
				C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373						
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				0.23245	0.00000	-639.2	-639.2
46	804.7	1907.2	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	-51.6	-339.0	-0.35707		-0.35707	96.6	-190.8
				C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395						
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				0.23245	0.00000	-637.6	-637.6
47	804.7	1907.2	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	-51.6	-339.0	-0.35707		-0.35707	96.6	-190.8
				C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394						
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1				-0.23245	0.00000	637.6	637.6
48	805.3	1907.8	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	-51.6	-339.0	-0.35684		-0.35707	96.6	-191.0
				C:BUS:EGC_345				1622							
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.23207	-0.02597	642.0	621.1
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA						
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA						
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00076	0.00000	-318.6	-318.6
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.22317	-0.02597	4.6	-16.3
49	805.3	1907.8	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	-51.6	-339.0	-0.35684		-0.35707	96.6	-191.0
				C:SPRN-BRK-345				1777							
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.23207	-0.02597	642.0	621.1
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA						
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA						
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00076	0.00000	-318.6	-318.6
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.22317	-0.02597	4.6	-16.3
50	809.8	1912.2	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	-52.3	-339.0	-0.35405		-0.35707	96.6	-192.6
				C:126299 REACBUS	345	147857 DVNPT NK	345	1	133						
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1				-0.23245	-0.01299	640.4	629.8
51	816.5	1918.8	L:	129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	70.5	118.0	0.05817				
				Base Case											
52	825.5	1927.7	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1	590.5	1416.0	1.00000		1.00000	472.6	1298.1
				C:128822 E.G.C.-1	345	128825 EGC PAR	345	1	1390						
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.37020	0.00000	-318.6	-318.6

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53	825.5	1927.7	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	590.5	1416.0	1.00000		1.00000	472.6	1298.1
			C:128822 E.G.C.-1	345	129270 E.G.C.	138	1							
			Open 128822 E.G.C.-1		345 129270 E.G.C.		1				0.37020	0.00000	318.6	318.6
54	825.8	1928.0	*L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	590.2	1416.0	1.00000		1.00000	472.6	1298.4
			C:128823 E.G.C.-2	345	128825 EGC PAR	345	1							
			Open 128823 E.G.C.-2		345 128825 EGC PAR		1				-0.36887	0.00000	-318.8	-318.8
56	844.6	1946.6	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-84.6	-379.0	-0.34852		-0.34852	60.3	-234.0
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1							
			Open 128830 HMP HRBR		345 147857 DVNPT NK		1				0.22677	0.00000	-639.2	-639.2
57	845.7	1947.6	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-84.3	-379.0	-0.34852		-0.34852	60.3	-234.4
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1							
			Open 128824 EGC DUM		345 128830 HMP HRBR		1				0.22677	0.00000	-637.6	-637.6
58	845.7	1947.6	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-84.3	-379.0	-0.34852		-0.34852	60.3	-234.4
			C:128824 EGC DUM	345	128825 EGC PAR	345	1							
			Open 128824 EGC DUM		345 128825 EGC PAR		1				-0.22677	0.00000	637.6	637.6
59	846.2	1948.2	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-84.3	-379.0	-0.34829		-0.34852	60.3	-234.6
			C:SPRN-BRK-345											
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.22640	-0.02597	642.0	620.0
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1							
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1							
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1							
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1							
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00074	0.00000	-318.6	-318.6
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.21771	-0.02597	4.6	-17.4
60	846.2	1948.2	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-84.3	-379.0	-0.34829		-0.34852	60.3	-234.6
			C:BUS:EGC_345											
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1							
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.22640	-0.02597	642.0	620.0
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1							
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1							
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1							
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00074	0.00000	-318.6	-318.6
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.21771	-0.02597	4.6	-17.4
61	851.1	1952.9	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-84.9	-379.0	-0.34557		-0.34852	60.3	-236.3
			C:126299 REACBUS	345	147857 DVNPT NK	345	1							
			Open 126299 REACBUS		345 147857 DVNPT NK		1				-0.22677	-0.01299	640.4	629.3
62	859.4	1961.2	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-40.7	379.0	0.48830		0.35707	-48.0	258.9
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1							
			Open 129283 GLNWD SO		138 129293 SHORE RD		1				-0.33231	-0.39490	-22.2	-361.6
63	861.3	1963.0	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	338.6	770.0	0.50089		0.50089	236.0	667.5
			C:128842 NEPTCONV	345	128847 NWBRG	345	1							
			Open 128842 NEPTCONV		345 128847 NWBRG		1				-0.15392	0.00000	-666.2	-666.2
64	866.8	1968.4	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	337.4	770.0	0.49911		0.49911	235.2	667.8
			C:128842 NEPTCONV	345	128847 NWBRG	345	1							
			Open 128842 NEPTCONV		345 128847 NWBRG		1				-0.15337	0.00000	-666.2	-666.2
70	876.9	1978.5	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	89.2	-339.0	-0.48830		-0.35707	96.6	-216.6
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1							
			Open 129283 GLNWD SO		138 129293 SHORE RD		1				0.33231	-0.39490	-22.2	-368.5

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106	929.9	2030.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	72.6	-379.0	-0.48569	-0.34852	60.3	-263.8
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1 1427						
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1			0.33036	-0.41524	37.3	-348.8
107	930.6	2031.5	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-69.7	379.0	0.48212	0.35707	-48.0	284.3
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1 1417						
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1			-0.35880	-0.34852	60.3	-264.0
113	936.4	2037.1	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	44.6	379.0	0.35707	0.35707	-48.0	286.3
			C:128842 NEPTCONV	345	128847 NWBRG	345	1 1398						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			-0.13910	0.00000	-666.2	-666.2
1724	947.2	2047.8	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-40.8	-379.0	-0.35707	-0.35707	107.8	-230.4
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1 1373						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			0.23245	0.00000	-639.2	-639.2
1734	948.1	2048.7	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	295.1	770.0	0.50089	0.50089	236.0	710.9
			C:128822 E.G.C.-1	345	128825 EGC PAR	345	1 1390						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.18543	0.00000	-318.6	-318.6
1735	948.1	2048.7	*L: 128835 SHORE RD	345	129293 SHORE RD	138	1	295.1	770.0	0.50089	0.50089	236.0	710.9
			C:128822 E.G.C.-1	345	129270 E.G.C.	138	1 1391						
			Open 128822 E.G.C.-1	345	129270 E.G.C.	138	1			0.18543	0.00000	318.6	318.6
1737	948.3	2048.9	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-40.4	-379.0	-0.35707	-0.35707	107.8	-230.8
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1 1395						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			0.23245	0.00000	-637.6	-637.6
1738	948.3	2048.9	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-40.4	-379.0	-0.35707	-0.35707	107.8	-230.8
			C:128824 EGC DUM	345	128825 EGC PAR	345	1 1394						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			-0.23245	0.00000	637.6	637.6
1739	948.3	2048.9	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	118.2	-339.0	-0.48212	-0.35707	96.6	-242.1
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1 1417						
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1			0.35880	-0.34852	60.3	-270.2
1743	948.9	2049.5	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-40.4	-379.0	-0.35684	-0.35707	107.8	-231.0
			C:BUS:EGC_345				1622						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.23207	-0.02597	642.0	617.3
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00076	0.00000	-318.6	-318.6
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.22317	-0.02597	4.6	-20.1
1744	948.9	2049.5	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-40.4	-379.0	-0.35684	-0.35707	107.8	-231.0
			C:SPRN-BRK-345				1777						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.23207	-0.02597	642.0	617.3
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00076	0.00000	-318.6	-318.6
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.22317	-0.02597	4.6	-20.1
1781	953.5	2054.1	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	294.1	770.0	0.49911	0.49911	235.2	711.1
			C:128822 E.G.C.-1	345	128825 EGC PAR	345	1 1390						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.18477	0.00000	-318.6	-318.6

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1782	953.5	2054.1	*L: 128835 SHORE RD	345	129293 SHORE RD	138	2	294.1	770.0	0.49911	0.49911	235.2	711.1	
			C:128822 E.G.C.-1	345	129270 E.G.C.	138	1	1391						
			Open 128822 E.G.C.-1	345	129270 E.G.C.	138	1				0.18477	0.00000	318.6	318.6
1786	954.5	2055.1	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-41.0	-379.0	-0.35405	-0.35707	107.8	-233.0	
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	133						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1				-0.23245	-0.01299	640.4	628.0
1796	960.3	2060.7	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	3.9	-339.0	-0.35707	-0.35707	96.6	-246.3	
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1398						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				0.13910	0.00000	-666.2	-666.2
1802	961.7	2062.1	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	77.2	-379.0	-0.47441	-0.34852	60.3	-274.9	
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1426						
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1				-0.35258	0.35707	-48.0	295.4
1811	966.3	2066.6	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-48.0	297.0	0.35707				
			Base Case											
1827	981.9	2082.0	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	100.4	-379.0	-0.48830	-0.35707	107.8	-242.8	
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1428						
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1				0.33231	-0.39490	-22.2	-409.9
1828	986.0	2086.1	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-4.6	339.0	0.34852	0.34852	-149.6	194.0	
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				-0.22677	0.00000	-639.2	-639.2
1829	987.0	2087.2	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-5.0	339.0	0.34852	0.34852	-149.6	194.4	
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				-0.22677	0.00000	-637.6	-637.6
1830	987.0	2087.2	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-5.0	339.0	0.34852	0.34852	-149.6	194.4	
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1				0.22677	0.00000	637.6	637.6
1831	987.7	2087.8	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-5.0	339.0	0.34829	0.34852	-149.6	194.6	
			C:BUS:EGC_345					1622						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.22640	-0.02597	642.0	616.3
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00074	0.00000	-318.6	-318.6
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.21771	-0.02597	4.6	-21.1
1832	987.7	2087.8	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-5.0	339.0	0.34829	0.34852	-149.6	194.6	
			C:SPRN-BRK-345					1777						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.22640	-0.02597	642.0	616.3
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00074	0.00000	-318.6	-318.6
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.21771	-0.02597	4.6	-21.1
1835	993.6	2093.7	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-4.4	339.0	0.34557	0.34852	-149.6	196.7	
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	133						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1				0.22677	-0.01299	640.4	627.4
1841	997.0	2097.0	*L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-101.7	379.0	0.48212	0.35707	-48.0	308.0	

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				C:129265 CARLE PL	138	129270 E.G.C.	138	1	1416										
				Open 129265 CARLE PL	138	129270 E.G.C.	138	1				0.35880	0.34852	-149.6	197.9				
1845	997.8	2097.8	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1		94.4	-379.0	-0.47441		-0.34852	60.3	-287.4			
				C:129270 E.G.C.	138	129288 ROSLYN	138	1	1419										
				Open 129270 E.G.C.	138	129288 ROSLYN	138	1				0.35258	-0.35707	96.6	-259.7				
1846	1001.1	2101.0	*L:	129265 CARLE PL	138	129283 GLNWD SO	138	1		-30.1	-379.0	-0.34852		-0.34852	60.3	-288.6			
				C:128842 NEPTCONV	345	128847 NWBRG	345	1	1398										
				Open 128842 NEPTCONV	345	128847 NWBRG	345	1				0.13572	0.00000	-666.2	-666.2				
1850	1003.5	2103.4	L:	Interface 29 ConEd-LIPA						826.5	1817.0	0.98701							
				Base Case															
1852	1007.0	2106.8	L:	129270 E.G.C.	138	129288 ROSLYN	138	1		96.6	-263.0	-0.35707							
				Base Case															
1857	1014.8	2114.5	*L:	129270 E.G.C.	138	129288 ROSLYN	138	1		150.2	-339.0	-0.48212		-0.35707	96.6	-265.8			
				C:129265 CARLE PL	138	129270 E.G.C.	138	1	1416										
				Open 129265 CARLE PL	138	129270 E.G.C.	138	1				-0.35880	0.34852	-149.6	204.1				
1867	1025.2	2124.9	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1		60.3	-297.0	-0.34852							
				Base Case															
1879	1031.3	2130.9	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		-161.9	339.0	0.48569		0.34852	-149.6	209.8			
				C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1427										
				Open 129282 GLNWD NO	138	129293 SHORE RD	138	1				-0.33036	-0.41524	37.3	-390.9				
1932	1054.6	2153.8	L:	129281 GLNWD GT	138	129282 GLNWD NO	138	1		129.5	-379.0	-0.48212		-0.35707	107.8	-268.8			
				C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1417										
				Open 129265 CARLE PL	138	129283 GLNWD SO	138	1				0.35880	-0.34852	60.3	-307.2				
2044	1065.6	2164.7	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		-166.5	339.0	0.47441		0.34852	-149.6	221.8			
				C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1426										
				Open 129281 GLNWD GT	138	129288 ROSLYN	138	1				0.35258	0.35707	-48.0	332.5				
5305	1090.0	2188.8	L:	129282 GLNWD NO	138	129587 GLNWD NO	69.0	1		72.0	165.0	0.08530		0.05817	70.5	133.9			
				C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1428										
				Open 129283 GLNWD SO	138	129293 SHORE RD	138	1				-0.06870	-0.39490	-22.2	-452.6				
5339	1101.6	2200.3	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		-183.6	339.0	0.47441		0.34852	-149.6	234.4			
				C:129270 E.G.C.	138	129288 ROSLYN	138	1	1419										
				Open 129270 E.G.C.	138	129288 ROSLYN	138	1				-0.35258	-0.35707	96.6	-296.8				
5345	1103.8	2202.4	L:	129281 GLNWD GT	138	129282 GLNWD NO	138	1		15.1	-379.0	-0.35707		-0.35707	107.8	-286.3			
				C:128842 NEPTCONV	345	128847 NWBRG	345	1	1398										
				Open 128842 NEPTCONV	345	128847 NWBRG	345	1				0.13910	0.00000	-666.2	-666.2				
5352	1110.0	2208.5	*L:	129265 CARLE PL	138	129270 E.G.C.	138	1		-187.6	339.0	0.47441		0.34852	-149.6	237.3			
				C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1425										
				Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1				-0.35258	-0.35707	107.8	-288.5				
5365	1121.1	2219.4	*L:	129281 GLNWD GT	138	129282 GLNWD NO	138	1		161.5	-379.0	-0.48212		-0.35707	107.8	-292.5			
				C:129265 CARLE PL	138	129270 E.G.C.	138	1	1416										
				Open 129265 CARLE PL	138	129270 E.G.C.	138	1				-0.35880	0.34852	-149.6	241.1				
5369	1127.7	2226.0	L:	129283 GLNWD SO	138	129293 SHORE RD	138	1		-7.6	-636.0	-0.55726		-0.39490	-22.2	-467.5			
				C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1427										
				Open 129282 GLNWD NO	138	129293 SHORE RD	138	1				0.39100	-0.41524	37.3	-431.0				
5372	1133.7	2231.9	L:	129281 GLNWD GT	138	129282 GLNWD NO	138	1		107.8	-297.0	-0.35707							
				Base Case															
5385	1140.8	2238.9	L:	128822 E.G.C.-1	345	128825 EGC PAR	345	1		-423.0	-675.0	-0.22091		0.00000	-318.6	-318.6			
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363										

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			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.22091	1.00000	472.6	1613.4
5386	1140.9	2239.0	L: 128822 E.G.C.-1	345	129270 E.G.C.	138	1	423.0	675.0	0.22091		0.00000	318.6	318.6
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.22091	1.00000	472.6	1613.5
5391	1143.1	2241.2	L: 128822 E.G.C.-1	345	128825 EGC PAR	345	1	-422.7	-675.0	-0.22071		0.00000	-318.6	-318.6
			C:BUS:SHORE_RD_345										1621	
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				-0.22091	0.50089	236.0	808.6
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				-0.22091	0.49911	235.2	805.7
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.01552	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1				-0.01552	-0.01299	-0.0	-14.8
5392	1143.1	2241.2	L: 128822 E.G.C.-1	345	129270 E.G.C.	138	1	422.7	675.0	0.22071		0.00000	318.6	318.6
			C:BUS:SHORE_RD_345										1621	
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.22091	0.50089	236.0	808.6
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.22091	0.49911	235.2	805.8
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.01552	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1				0.01552	-0.01299	-0.0	-14.8
5400	1153.2	2251.1	L: 128823 E.G.C.-2	345	128825 EGC PAR	345	1	-422.3	-675.0	-0.21910		0.00000	-318.8	-318.8
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.21910	1.00000	472.6	1625.7
5402	1154.2	2252.1	L: 128823 E.G.C.-2	345	129271 E.G.C.-2	138	1	422.1	675.0	0.21910		0.00000	318.6	318.6
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.21910	1.00000	472.6	1626.8
5405	1155.4	2253.3	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-179.7	-636.0	-0.39490		-0.39490	-22.2	-478.4
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				0.24651	0.00000	-639.2	-639.2
5406	1155.5	2253.4	L: 128823 E.G.C.-2	345	128825 EGC PAR	345	1	-422.1	-675.0	-0.21890		0.00000	-318.8	-318.8
			C:BUS:SHORE_RD_345										1621	
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				-0.21910	0.50089	236.0	814.8
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				-0.21910	0.49911	235.2	811.9
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.01542	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1				-0.01542	-0.01299	-0.0	-15.0
5407	1156.4	2254.3	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-179.3	-636.0	-0.39490		-0.39490	-22.2	-478.8
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				0.24651	0.00000	-637.6	-637.6
5408	1156.4	2254.3	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-179.3	-636.0	-0.39490		-0.39490	-22.2	-478.8
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1				-0.24651	0.00000	637.6	637.6
5409	1156.5	2254.4	L: 128823 E.G.C.-2	345	129271 E.G.C.-2	138	1	421.8	675.0	0.21890		0.00000	318.6	318.6
			C:BUS:SHORE_RD_345										1621	
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.21910	0.50089	236.0	815.3
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.21910	0.49911	235.2	812.4
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.01542	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1				0.01542	-0.01299	-0.0	-15.0
5410	1157.2	2255.1	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-179.3	-636.0	-0.39465		-0.39490	-22.2	-479.1
			C:BUS:EGC_345										1622	
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1							
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.24618	-0.02597	642.0	611.9
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1							

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			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00066	0.00000	-318.6	-318.6	
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.23640	-0.02597	4.6	-25.5	
5411	1157.2	2255.1	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-179.3	-636.0	-0.39465		-0.39490	-22.2	-479.1
			C:SPRN-BRK-345											1777
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.24618	-0.02597	642.0	611.9
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1							NA
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1							NA
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1							NA
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1							NA
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00066	0.00000	-318.6	-318.6
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.23640	-0.02597	4.6	-25.5
5413	1158.3	2256.2	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	28.4	-636.0	-0.57360		-0.41524	37.3	-443.7
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1428						
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1				0.40100	-0.39490	-22.2	-479.6
5420	1160.3	2258.2	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	262.1	678.0	0.35840		0.43350	-4.5	498.4
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1401						
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1				-0.80938	0.09278	-329.5	-221.9
5424	1161.6	2259.4	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	-4.5	499.0	0.43350				
			Base Case											
5425	1164.1	2261.9	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-180.0	-636.0	-0.39170		-0.39490	-22.2	-481.9
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	133						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1				-0.24651	-0.01299	640.4	625.2
5461	1183.8	2281.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-149.6	263.0	0.34852				
			Base Case											
5467	1184.7	2282.2	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	80.2	165.0	0.07157		0.04639	82.5	137.4
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1427						
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1				-0.06064	-0.41524	37.3	-454.6
5473	1187.1	2284.6	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-3.6	-636.0	-0.53271		-0.39490	-22.2	-490.9
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1426						
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1				-0.38594	0.35707	-48.0	375.9
5475	1189.9	2287.3	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	107.0	339.0	0.19497		0.15045	82.6	261.6
			C:129310 NEWBRGE	138	129361 RULND RD	138	1	1433						
			Open 129310 NEWBRGE	138	129361 RULND RD	138	1				0.29593	0.15045	82.6	261.6
5476	1189.9	2287.3	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	107.0	339.0	0.19497		0.15045	82.6	261.6
			C:129310 NEWBRGE	138	129361 RULND RD	138	2	1434						
			Open 129310 NEWBRGE	138	129361 RULND RD	138	2				0.29593	0.15045	82.6	261.6
7096	1199.3	2296.6	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	82.6	263.0	0.15045				
			Base Case											
7097	1199.3	2296.6	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	82.6	263.0	0.15045				
			Base Case											
7132	1202.4	2299.7	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-22.2	-497.0	-0.39490				
			Base Case											
8796	1222.3	2319.3	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	15.1	-636.0	-0.53271		-0.39490	-22.2	-504.8
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1419						
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1				0.38594	-0.35707	96.6	-339.9
8817	1223.8	2320.8	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	105.4	339.0	0.19088		0.15045	82.6	266.7

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			C:129310 NEWBRGE	138	129361 RULND RD	138	3	1435											
			Open 129310 NEWBRGE		138 129361 RULND RD			138 3				0.28972	0.13955	78.8	249.6				
8818	1223.8	2320.8	L: 129310 NEWBRGE	138	129361 RULND RD	138	2		105.4	339.0	0.19088		0.15045	82.6	266.7				
			C:129310 NEWBRGE	138	129361 RULND RD	138	3	1435											
			Open 129310 NEWBRGE		138 129361 RULND RD			138 3				0.28972	0.13955	78.8	249.6				
8837	1225.2	2322.3	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		-127.2	-636.0	-0.41524		-0.41524	37.3	-471.5				
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373											
			Open 128830 HMP HRBR		345 147857 DVNPT NK			345 1				0.25740	0.00000	-639.2	-639.2				
8852	1226.2	2323.2	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		-126.8	-636.0	-0.41524		-0.41524	37.3	-471.9				
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395											
			Open 128824 EGC DUM		345 128830 HMP HRBR			345 1				0.25740	0.00000	-637.6	-637.6				
8853	1226.2	2323.3	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		-126.8	-636.0	-0.41524		-0.41524	37.3	-471.9				
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394											
			Open 128824 EGC DUM		345 128825 EGC PAR			345 1				-0.25740	0.00000	637.6	637.6				
8861	1227.1	2324.0	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		-126.8	-636.0	-0.41498		-0.41524	37.3	-472.2				
			C:BUS:EGC_345					1622											
			Open 126299 REACBUS		345 147857 DVNPT NK			345 1	NA										
			Open 126298 SPRBROOK		345 126299 REACBUS			345 BY				-0.25706	-0.02597	642.0	610.1				
			Open 128830 HMP HRBR		345 147857 DVNPT NK			345 1	NA										
			Open 128824 EGC DUM		345 128830 HMP HRBR			345 1	NA										
			Open 128824 EGC DUM		345 128825 EGC PAR			345 1	NA										
			Open 128822 E.G.C.-1		345 128825 EGC PAR			345 1				0.00066	0.00000	-318.6	-318.6				
			Open 128823 E.G.C.-2		345 128825 EGC PAR			345 1				0.24683	-0.02597	4.6	-27.3				
8862	1227.1	2324.0	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		-126.8	-636.0	-0.41498		-0.41524	37.3	-472.2				
			C:SPRN-BRK-345					1777											
			Open 126298 SPRBROOK		345 126299 REACBUS			345 BY				-0.25706	-0.02597	642.0	610.1				
			Open 126299 REACBUS		345 147857 DVNPT NK			345 1	NA										
			Open 128830 HMP HRBR		345 147857 DVNPT NK			345 1	NA										
			Open 128824 EGC DUM		345 128830 HMP HRBR			345 1	NA										
			Open 128824 EGC DUM		345 128825 EGC PAR			345 1	NA										
			Open 128822 E.G.C.-1		345 128825 EGC PAR			345 1				0.00066	0.00000	-318.6	-318.6				
			Open 128823 E.G.C.-2		345 128825 EGC PAR			345 1				0.24683	-0.02597	4.6	-27.3				
8879	1230.4	2327.3	*L: 129283 GLNWD SO	138	129293 SHORE RD	138	1		19.4	-636.0	-0.53271		-0.39490	-22.2	-508.0				
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1425											
			Open 129281 GLNWD GT		138 129282 GLNWD NO			138 1				0.38594	-0.35707	107.8	-331.5				
8896	1234.5	2331.4	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		-127.5	-636.0	-0.41190		-0.41524	37.3	-475.3				
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	133											
			Open 126299 REACBUS		345 147857 DVNPT NK			345 1				-0.25740	-0.01299	640.4	624.3				
8901	1236.5	2333.4	L: Interface	11	DUN-SOUTH OP				5035.6	6256.0	0.98701								
			Base Case																
8928	1247.5	2344.2	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1		67.9	165.0	0.07787		0.05817	70.5	143.1				
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1426											
			Open 129281 GLNWD GT		138 129288 ROSLYN			138 1				0.05519	0.35707	-48.0	397.4				
8971	1257.1	2353.7	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		61.5	-636.0	-0.55480		-0.41524	37.3	-484.7				
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1417											
			Open 129265 CARLE PL		138 129283 GLNWD SO			138 1				0.40043	-0.34852	60.3	-377.8				
8983	1257.8	2354.4	L: 128824 EGC DUM	345	128830 HMP HRBR	345	1		-845.5	-1399.0	-0.44001		0.00000	-637.6	-637.6				
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363											

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				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.44001	1.00000	472.6	1730.4
8984	1257.8	2354.4	L:	128824 EGC DUM	345	128825 EGC PAR	345	1	845.5	1399.0	0.44001		0.00000	637.6	637.6
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1 1363							
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.44001	1.00000	472.6	1730.4
9082	1260.2	2356.8	L:	128824 EGC DUM	345	128830 HMP HRBR	345	1	-845.0	-1399.0	-0.43961		0.00000	-637.6	-637.6
				C:BUS:SHORE_RD_345				1621							
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1				-0.44001	0.50089	236.0	867.3
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				-0.44001	0.49911	235.2	864.2
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.03094	0.00000	1.3	1.3
				Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1				-0.03094	-0.01299	-0.0	-16.4
9085	1260.2	2356.8	L:	128824 EGC DUM	345	128825 EGC PAR	345	1	845.0	1399.0	0.43961		0.00000	637.6	637.6
				C:BUS:SHORE_RD_345				1621							
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.44001	0.50089	236.0	867.3
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.44001	0.49911	235.2	864.2
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.03094	0.00000	1.3	1.3
				Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1				0.03094	-0.01299	-0.0	-16.4
10607	1269.3	2365.8	L:	129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	82.6	165.0	0.06495		0.05817	70.5	144.3
				C:129283 GLNWD SO	138	129588 GLNWD SO	69.0	1 1525							
				Open 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1				0.14615	0.04639	82.5	141.4
10613	1270.1	2366.6	L:	129361 RULND RD	138	129421 HOLBROOK	138	1	127.4	678.0	0.43350		0.43350	-4.5	546.0
				C:129355 PILGRIM	138	129356 PILGRM P	138	1 1456							
				Open 129355 PILGRIM	138	129356 PILGRM P	138	1				0.68548	0.00000	192.5	192.5
10614	1270.1	2366.6	L:	129361 RULND RD	138	129421 HOLBROOK	138	1	127.4	678.0	0.43350		0.43350	-4.5	546.0
				C:129337 HAUPAGUE	138	129356 PILGRM P	138	1 1444							
				Open 129337 HAUPAGUE	138	129356 PILGRM P	138	1				-0.68548	0.00000	-192.5	-192.5
10648	1281.9	2378.1	L:	129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	65.2	165.0	0.07787		0.05817	70.5	145.1
				C:129270 E.G.C.	138	129288 ROSLYN	138	1 1419							
				Open 129270 E.G.C.	138	129288 ROSLYN	138	1				-0.05519	-0.35707	96.6	-361.2
10654	1286.7	2382.9	L:	129282 GLNWD NO	138	129293 SHORE RD	138	1	37.3	-497.0	-0.41524				
				Base Case											
10669	1289.7	2385.8	L:	126299 REACBUS	345	147857 DVNPT NK	345	1	848.3	1399.0	0.42702		-0.01299	640.4	623.6
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1 1363							
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.44001	1.00000	472.6	1762.2
10670	1289.8	2386.0	L:	129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	64.6	165.0	0.07787		0.05817	70.5	145.5
				C:129281 GLNWD GT	138	129282 GLNWD NO	138	1 1425							
				Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1				-0.05519	-0.35707	107.8	-352.8
10674	1292.1	2388.3	L:	126299 REACBUS	345	147857 DVNPT NK	345	1	847.7	1399.0	0.42662		-0.01299	640.4	623.6
				C:BUS:SHORE_RD_345				1621							
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.44001	0.50089	236.0	883.3
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.44001	0.49911	235.2	880.1
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.03094	0.00000	1.3	1.3
				Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1				0.03094	-0.01299	-0.0	-16.8
10675	1293.4	2389.6	L:	Interface 42 K-to-I					-1538.4	-2815.0	-0.98701		-0.98701	-1112.9	-2389.6
				C:128842 NEPTCONV	345	128847 NWBRG	345	1 1398							
				Open 128842 NEPTCONV	345	128847 NWBRG	345	1				0.63860	0.00000	-666.2	-666.2
10676	1293.4	2389.6	L:	Interface 41 I-to-K					1538.4	2815.0	0.98701		0.98701	1112.9	2389.6
				C:128842 NEPTCONV	345	128847 NWBRG	345	1 1398							
				Open 128842 NEPTCONV	345	128847 NWBRG	345	1				-0.63860	0.00000	-666.2	-666.2

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10678	1297.2	2393.3	L: 126455 JAMAICA	138	129249 L SUCSPH	138	1	-6.2	428.0	0.33469	0.00000	-164.3	-164.3
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1 1363						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.33469	1.00000	472.6	1769.8
10679	1298.3	2394.4	L: 126455 JAMAICA	138	129249 L SUCSPH	138	1	-6.6	428.0	0.33475	0.00000	-164.3	-164.3
			C:BUS:SHORE_RD_345				1621						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.33469	0.50089	236.0	886.4
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.33469	0.49911	235.2	883.2
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.00505	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1			-0.00505	-0.01299	-0.0	-16.9
10681	1301.2	2397.2	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	-13.7	235.0	0.19110			
			Base Case										
10686	1304.8	2400.8	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	168.8	678.0	0.39022	0.43350	-4.5	561.1
			C:129076 HOLTS1-5	13.8	129427 HOLTS GT	138	1 1510						
			Open 129076 HOLTS1-5	13.8	129427 HOLTS GT	138	1			-0.79968	0.05412	-216.8	-146.2
10696	1321.6	2417.3	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	97.2	-636.0	-0.55480	-0.41524	37.3	-511.5
			C:129265 CARLE PL	138	129270 E.G.C.	138	1 1416						
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1			-0.40043	0.34852	-149.6	311.0
10714	1334.7	2430.3	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	68.0	165.0	0.07268	0.05817	70.5	148.1
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1 1417						
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1			-0.04163	-0.34852	60.3	-404.9
10715	1334.8	2430.4	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	105.4	339.0	0.17497	0.15045	82.6	283.4
			C:129305 LCST GRV	138	129310 NEWBRGE	138	1 1430						
			Open 129305 LCST GRV	138	129310 NEWBRGE	138	1			-0.17932	-0.13676	-127.5	-310.1
10716	1334.8	2430.4	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	105.4	339.0	0.17497	0.15045	82.6	283.4
			C:129305 LCST GRV	138	129310 NEWBRGE	138	1 1430						
			Open 129305 LCST GRV	138	129310 NEWBRGE	138	1			-0.17932	-0.13676	-127.5	-310.1
10737	1350.4	2445.8	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	86.5	165.0	0.05817	0.05817	70.5	149.1
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1 1373						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			-0.02494	0.00000	-639.2	-639.2
10738	1351.1	2446.5	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	86.4	165.0	0.05817	0.05817	70.5	149.1
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1 1395						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.02494	0.00000	-637.6	-637.6
10739	1351.1	2446.5	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	86.4	165.0	0.05817	0.05817	70.5	149.1
			C:128824 EGC DUM	345	128825 EGC PAR	345	1 1394						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.02494	0.00000	637.6	637.6
10741	1351.9	2447.2	*L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	86.4	165.0	0.05813	0.05817	70.5	149.1
			C:SPRN-BRK-345				1777						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.02499	-0.02597	642.0	606.9
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA				
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA				
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA				
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA				
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00009	0.00000	-318.6	-318.6
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.02366	-0.02597	4.6	-30.5
10749	1355.7	2451.0	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	-13.6	235.0	0.18337			
			Base Case										
10838	1362.7	2457.9	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	91.6	165.0	0.05389	0.04639	82.5	145.7
			C:129282 GLNWD NO	138	129587 GLNWD NO	69.0	1 1524						

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			Open 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1			0.12895	0.05817	70.5	149.8
11135	1363.3	2458.5	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	124.1	678.0	0.40630	0.43350	-4.5	586.4
			C:129093 PTJEFG4	20.0	129449 PT JEFF2	138	1						
			Open 129093 PTJEFG4	20.0	129449 PT JEFF2	138	1						
12345	1365.1	2460.3	L: 129248 L SUCS	138	129249 L SUCSPH	138	1	6.9	-450.0	-0.33469	0.00000	165.0	165.0
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1						
12362	1366.1	2461.3	L: 129248 L SUCS	138	129249 L SUCSPH	138	1	7.3	-450.0	-0.33475	0.00000	165.0	165.0
			C:BUS:SHORE_RD_345				1621						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1						
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1						
12396	1369.7	2464.8	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	174.9	678.0	0.36733	0.43350	-4.5	589.2
			C:129421 HOLBROOK	138	129443 NYPAHOLT	138	1						
			Open 129421 HOLBROOK	138	129443 NYPAHOLT	138	1						
12409	1371.0	2466.1	*L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-66.7	-636.0	-0.41524	-0.41524	37.3	-532.0
			C:128842 NEPTCONV	345	128847 NWBRG	345	1						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1						
12436	1377.3	2472.3	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	79.8	165.0	0.06186	0.04639	82.5	146.4
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1						
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1						
12444	1380.5	2475.5	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	79.5	678.0	0.43350	0.43350	-4.5	593.9
			C:129337 HAUPAGUE	138	129393 C.ISLIP	138	1						
			Open 129337 HAUPAGUE	138	129393 C.ISLIP	138	1						
14089	1405.2	2499.8	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	116.8	678.0	0.39938	0.43350	-4.5	604.6
			C:129418 CAITHNESS1	138	129461 SILLS RD2	138	1						
			Open 129418 CAITHNESS1	138	129461 SILLS RD2	138	1						
14090	1405.2	2499.8	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	116.8	678.0	0.39938	0.43350	-4.5	604.6
			C:129071 CAITH-GT	16.5	129418 CAITHNESS1	138	1						
			Open 129071 CAITH-GT	16.5	129418 CAITHNESS1	138	1						
14095	1405.4	2500.1	*L: 129361 RULND RD	138	129421 HOLBROOK	138	1	24.7	678.0	0.46485	0.43350	-4.5	604.7
			C:129305 LCST GRV	138	129310 NEWBRGE	138	1						
			Open 129305 LCST GRV	138	129310 NEWBRGE	138	1						
14173	1423.1	2517.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	90.0	339.0	0.17497	0.15045	82.6	296.7
			C:129305 LCST GRV	138	129315 SYOSSET	138	1						
			Open 129305 LCST GRV	138	129315 SYOSSET	138	1						
14174	1423.1	2517.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	90.0	339.0	0.17497	0.15045	82.6	296.7
			C:129305 LCST GRV	138	129315 SYOSSET	138	1						
			Open 129305 LCST GRV	138	129315 SYOSSET	138	1						
14198	1441.4	2535.6	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	75.8	165.0	0.06186	0.04639	82.5	149.3
			C:129265 CARLE PL	138	129270 E.G.C.	138	1						
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1						
14199	1443.0	2537.2	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	80.9	165.0	0.05830	0.04639	82.5	149.4
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1						
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1						
14204	1453.5	2547.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	146.5	339.0	0.13245	0.15045	82.6	301.2
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1						

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			Open 128880 SHMHVDCL	192	129459	SHOREHAM	138	1			-0.19397	0.09278	-329.5	-194.7
14205	1453.5	2547.5	L: 129310 NEWBRGE	138	129361	RULND RD	138	2	146.5	339.0	0.13245	0.15045	82.6	301.2
			C:128880 SHMHVDCL	192	129459	SHOREHAM	138	1						
			Open 128880 SHMHVDCL	192	129459	SHOREHAM	138	1			-0.19397	0.09278	-329.5	-194.7
14212	1470.8	2564.6	L: 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1	79.3	165.0	0.05830	0.04639	82.5	150.7
			C:129270 E.G.C.	138	129288	ROSLYN	138	1						
			Open 129270 E.G.C.	138	129288	ROSLYN	138	1			-0.03336	-0.35707	96.6	-428.6
14224	1477.3	2571.0	L: 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1	78.9	165.0	0.05830	0.04639	82.5	151.0
			C:129281 GLNWD GT	138	129282	GLNWD NO	138	1						
			Open 129281 GLNWD GT	138	129282	GLNWD NO	138	1			-0.03336	-0.35707	107.8	-419.7
14226	1477.6	2571.3	L: 129310 NEWBRGE	138	129361	RULND RD	138	3	78.8	285.0	0.13955			
			Base Case											
14236	1483.5	2577.2	L: 129244 GRT NECK	138	129248	L SUCS	138	1	198.4	288.0	0.06039	0.03666	133.8	188.2
			C:129248 L SUCS	138	129293	SHORE RD	138	2						
			Open 129248 L SUCS	138	129293	SHORE RD	138	2			-0.55040	-0.04310	-117.4	-181.4
14244	1491.1	2584.7	L: 129270 E.G.C.	138	129310	NEWBRGE	138	3	0.2	253.0	0.16955			
			Base Case											
14248	1497.2	2590.7	L: 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1	89.3	165.0	0.05054	0.04639	82.5	151.9
			C:129248 L SUCS	138	129543	LKE SCSS	69.0	1						
			Open 129248 L SUCS	138	129543	LKE SCSS	69.0	1			0.06485	0.06407	105.7	201.6
14249	1498.1	2591.6	L: 129244 GRT NECK	138	129248	L SUCS	138	1	197.8	288.0	0.06023	0.03666	133.8	188.7
			C:129248 L SUCS	138	129293	SHORE RD	138	1						
			Open 129248 L SUCS	138	129293	SHORE RD	138	1			-0.54948	-0.04289	-116.5	-180.7
14258	1507.0	2600.3	L: 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1	95.1	165.0	0.04639	0.04639	82.5	152.4
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1						
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1			-0.01974	0.00000	-639.2	-639.2
14259	1507.7	2601.0	*L: 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1	95.1	165.0	0.04639	0.04639	82.5	152.4
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1			-0.01974	0.00000	-637.6	-637.6
14265	1511.7	2605.0	L: 129310 NEWBRGE	138	129361	RULND RD	138	1	111.6	339.0	0.15045	0.15045	82.6	310.0
			C:SIN:250					1677						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			-0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
14266	1511.7	2605.0	L: 129310 NEWBRGE	138	129361	RULND RD	138	2	111.6	339.0	0.15045	0.15045	82.6	310.0
			C:SIN:250					1677						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			-0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
14271	1515.7	2609.0	L: 129310 NEWBRGE	138	129361	RULND RD	138	1	111.0	339.0	0.15045	0.15045	82.6	310.6
			C:GEN:MILLST 3					1572						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
14272	1515.7	2609.0	L: 129310 NEWBRGE	138	129361	RULND RD	138	2	111.0	339.0	0.15045	0.15045	82.6	310.6
			C:GEN:MILLST 3					1572						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
14273	1515.7	2609.0	L: 129310 NEWBRGE	138	129361	RULND RD	138	1	111.0	339.0	0.15045	0.15045	82.6	310.6
			C:GEN:MLS3&OMS					1574						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			-0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
14274	1515.7	2609.0	L: 129310 NEWBRGE	138	129361	RULND RD	138	2	111.0	339.0	0.15045	0.15045	82.6	310.6

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				C:GEN:MLS3&OMS	1574												
				Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		-0.00000	0.00000	-0.1	-0.1		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch									
14297	1530.5	2623.6	L:	129310 NEWBRGE	138	129361	RULND	RD	138	2	119.9	339.0	0.14317	0.15045	82.6	312.8	
			C:	129024 NRTPTG1	22.0	129346	NRTHPT3		138	1	1505						
			Open	129024 NRTPTG1	22.0	129346	NRTHPT3		138	1				-0.11499	0.06326	-324.3	-227.5
14298	1530.5	2623.6	L:	129310 NEWBRGE	138	129361	RULND	RD	138	1	119.9	339.0	0.14317	0.15045	82.6	312.8	
			C:	129024 NRTPTG1	22.0	129346	NRTHPT3		138	1	1505						
			Open	129024 NRTPTG1	22.0	129346	NRTHPT3		138	1				-0.11499	0.06326	-324.3	-227.5
14299	1531.0	2624.1*	L:	129310 NEWBRGE	138	129361	RULND	RD	138	2	119.8	339.0	0.14320	0.15045	82.6	312.9	
			C:	129025 NRTPTG2	22.0	129341	NRTHPRT1		138	1	1506						
			Open	129025 NRTPTG2	22.0	129341	NRTHPRT1		138	1				-0.11458	0.06326	-324.5	-227.7
14300	1531.0	2624.1*	L:	129310 NEWBRGE	138	129361	RULND	RD	138	1	119.8	339.0	0.14320	0.15045	82.6	312.9	
			C:	129025 NRTPTG2	22.0	129341	NRTHPRT1		138	1	1506						
			Open	129025 NRTPTG2	22.0	129341	NRTHPRT1		138	1				-0.11458	0.06326	-324.5	-227.7
15960	1556.6	2649.3	L:	129270 E.G.C.	138	129310	NEWBRGE		138	1	-74.6	491.0	0.36335	0.19110	-13.7	283.8	
			C:	129270 E.G.C.	138	129271	E.G.C.-2		138	1	1418						
			Open	129270 E.G.C.	138	129271	E.G.C.-2		138	1				0.45712	0.37683	-133.3	453.3
17746	1592.2	2684.5	L:	Interface	42	K-to-I					-1302.3	-2815.0	-0.95009	-0.98701	-1112.9	-2684.5	
			C:	129027 NRTPTG4	22.0	129342	NRTHPRT2		138	1	1508						
			Open	129027 NRTPTG4	22.0	129342	NRTHPRT2		138	1				0.58374	0.06326	-324.3	-223.6
17747	1592.2	2684.5	L:	Interface	41	I-to-K					1302.3	2815.0	0.95009	0.98701	1112.9	2684.5	
			C:	129027 NRTPTG4	22.0	129342	NRTHPRT2		138	1	1508						
			Open	129027 NRTPTG4	22.0	129342	NRTHPRT2		138	1				-0.58374	0.06326	-324.3	-223.6
17748	1592.2	2684.5	L:	Interface	42	K-to-I					-1302.3	-2815.0	-0.95009	-0.98701	-1112.9	-2684.5	
			C:	129026 NRTPTG3	22.0	129342	NRTHPRT2		138	1	1507						
			Open	129026 NRTPTG3	22.0	129342	NRTHPRT2		138	1				0.58374	0.06326	-324.3	-223.6
17749	1592.2	2684.5	L:	Interface	41	I-to-K					1302.3	2815.0	0.95009	0.98701	1112.9	2684.5	
			C:	129026 NRTPTG3	22.0	129342	NRTHPRT2		138	1	1507						
			Open	129026 NRTPTG3	22.0	129342	NRTHPRT2		138	1				-0.58374	0.06326	-324.3	-223.6
17790	1599.2	2691.4	L:	Interface	41	I-to-K					1292.5	2815.0	0.95200	0.98701	1112.9	2691.4	
			C:	129025 NRTPTG2	22.0	129341	NRTHPRT1		138	1	1506						
			Open	129025 NRTPTG2	22.0	129341	NRTHPRT1		138	1				-0.55342	0.06326	-324.5	-223.3
17791	1599.2	2691.4	L:	Interface	42	K-to-I					-1292.5	-2815.0	-0.95200	-0.98701	-1112.9	-2691.4	
			C:	129025 NRTPTG2	22.0	129341	NRTHPRT1		138	1	1506						
			Open	129025 NRTPTG2	22.0	129341	NRTHPRT1		138	1				0.55342	0.06326	-324.5	-223.3
17792	1599.3	2691.5	L:	Interface	42	K-to-I					-1292.4	-2815.0	-0.95200	-0.98701	-1112.9	-2691.5	
			C:	129024 NRTPTG1	22.0	129346	NRTHPT3		138	1	1505						
			Open	129024 NRTPTG1	22.0	129346	NRTHPT3		138	1				0.55345	0.06326	-324.3	-223.2
17793	1599.3	2691.5	L:	Interface	41	I-to-K					1292.4	2815.0	0.95200	0.98701	1112.9	2691.5	
			C:	129024 NRTPTG1	22.0	129346	NRTHPT3		138	1	1505						
			Open	129024 NRTPTG1	22.0	129346	NRTHPT3		138	1				-0.55345	0.06326	-324.3	-223.2
17806	1601.6	2693.8	L:	Interface	42	K-to-I					-1234.2	-2815.0	-0.98701	-0.98701	-1112.9	-2693.8	
			C:	SIN:250							1677						
			Open	100508 SANDB115	115	100509	SB	RCTOR	115	2				0.00002	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch										
17807	1601.6	2693.8	L:	Interface	41	I-to-K					1234.2	2815.0	0.98701	0.98701	1112.9	2693.8	
			C:	SIN:250							1677						

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			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00002	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW dispatch								
17821	1604.1	2696.2	L: Interface 42 K-to-I					-1231.7	-2815.0	-0.98701	-0.98701	-1112.9	-2696.2
			C:GEN:MLS3&OMS				1574						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00002	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW dispatch								
17822	1604.1	2696.2	L: Interface 41 I-to-K					1231.7	2815.0	0.98701	0.98701	1112.9	2696.2
			C:GEN:MLS3&OMS				1574						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00002	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW dispatch								
17823	1604.1	2696.2	L: Interface 41 I-to-K					1231.7	2815.0	0.98701	0.98701	1112.9	2696.2
			C:GEN:MILLST 3				1572						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW dispatch								
17824	1604.1	2696.2	L: Interface 42 K-to-I					-1231.7	-2815.0	-0.98701	-0.98701	-1112.9	-2696.2
			C:GEN:MILLST 3				1572						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW dispatch								
17865	1615.1	2707.0	L: Interface 41 I-to-K					1311.0	2815.0	0.93125	0.98701	1112.9	2707.0
			C:128880 SHMHVDCL 192 129459 SHOREHAM	138	1	1401							
			Open 128880 SHMHVDCL 192 129459 SHOREHAM	138	1					-0.60101	0.09278	-329.5	-179.7
17866	1615.1	2707.0	L: Interface 42 K-to-I					-1311.0	-2815.0	-0.93125	-0.98701	-1112.9	-2707.0
			C:128880 SHMHVDCL 192 129459 SHOREHAM	138	1	1401							
			Open 128880 SHMHVDCL 192 129459 SHOREHAM	138	1					0.60101	0.09278	-329.5	-179.7
21218	1640.3	2732.0	*L: Interface 42 K-to-I					-1196.0	-2815.0	-0.98701	-0.98701	-1112.9	-2732.0
			C:GEN:SEABROOK				1573						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch								
21219	1640.3	2732.0	*L: Interface 41 I-to-K					1196.0	2815.0	0.98701	0.98701	1112.9	2732.0
			C:GEN:SEABROOK				1573						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch								
21236	1642.6	2734.2	L: 126298 SPRBROOK 345 126299 REACBUS	345	BY			849.9	1530.0	0.41404	-0.02597	642.0	599.3
			C:126266 DUNWODIE 345 128835 SHORE RD	345	1	1363							
			Open 126266 DUNWODIE 345 128835 SHORE RD	345	1					0.44001	1.00000	472.6	2115.1
21246	1645.5	2737.0	L: 126298 SPRBROOK 345 126299 REACBUS	345	BY			849.4	1530.0	0.41363	-0.02597	642.0	599.2
			C:BUS:SHORE_RD_345			1621							
			Open 128835 SHORE RD 345 129293 SHORE RD	138	1					0.44001	0.50089	236.0	1060.2
			Open 128835 SHORE RD 345 129293 SHORE RD	138	2					0.44001	0.49911	235.2	1056.5
			Open 126266 DUNWODIE 345 128835 SHORE RD	345	1					0.03094	0.00000	1.3	1.3
			Open 150 DUNWD SW 0.0 126266 DUNWODIE	345	1					0.03094	-0.01299	-0.0	-21.4
24640	1711.9	2802.6	L: 129270 E.G.C. 138 129310 NEWBRGE	138	3			-53.9	498.0	0.32239	0.16955	0.2	290.4
			C:129270 E.G.C. 138 129271 E.G.C.-2	138	1	1418							
			Open 129270 E.G.C. 138 129271 E.G.C.-2	138	1					0.40559	0.37683	-133.3	511.8
28176	1762.1	2852.1	L: 129244 GRT NECK 138 129537 GRT NECK	69.0	1			58.8	118.0	0.03360			
			Base Case										
28177	1762.1	2852.1	L: 129244 GRT NECK 138 129537 GRT NECK	69.0	2			58.8	118.0	0.03360			
			Base Case										
29969	1831.4	2920.5	L: 129305 LCST GRV 138 129310 NEWBRGE	138	1			-127.5	-378.0	-0.13676			
			Base Case										
29989	1844.8	2933.8	L: 129244 GRT NECK 138 129293 SHORE RD	138	1			-255.5	-574.0	-0.17267	-0.10387	-251.6	-443.2
			C:129283 GLNWD SO 138 129293 SHORE RD	138	1	1428							

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			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1				0.17422	-0.39490	-22.2	-750.7
29995	1852.9	2941.8	L: 129244 GRT NECK	138	129293 SHORE RD	138	1	-245.0	-574.0	-0.17757		-0.10387	-251.6	-444.1
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1							
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1				0.17749	-0.41524	37.3	-732.1
30008	1892.1	2980.5	L: 129337 HAUPAGUE	138	129356 PILGRM P	138	1	-191.1	-442.0	-0.13260		0.00000	-192.5	-192.5
			C:129361 RULND RD	138	129421 HOLBROOK	138	1							
			Open 129361 RULND RD	138	129421 HOLBROOK	138	1				-0.30589	0.43350	-4.5	815.7
30009	1915.3	3003.4	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	125.0	491.0	0.19110		0.19110	-13.7	352.4
			C:128842 NEPTCONV	345	128847 NWBRG	345	1							
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				-0.20810	0.00000	-666.2	-666.2
30012	1952.4	3040.0	L: 129355 PILGRIM	138	129356 PILGRM P	138	1	191.1	450.0	0.13260		0.00000	192.5	192.5
			C:129361 RULND RD	138	129421 HOLBROOK	138	1							
			Open 129361 RULND RD	138	129421 HOLBROOK	138	1				0.30589	0.43350	-4.5	841.8
30014	1990.2	3077.3	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	-18.5	491.0	0.25599		0.19110	-13.7	366.7
			C:129271 E.G.C.-2	138	129310 NEWBRGE	138	2							
			Open 129271 E.G.C.-2	138	129310 NEWBRGE	138	2				0.35388	0.18337	-13.6	351.4
30015	2001.0	3087.9	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	124.1	491.0	0.18337		0.18337	-13.6	353.3
			C:128842 NEPTCONV	345	128847 NWBRG	345	1							
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				-0.20664	0.00000	-666.2	-666.2
30016	2009.5	3096.3	L: 129244 GRT NECK	138	129248 L SUCS	138	1	136.0	288.0	0.07566		0.03666	133.8	207.4
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1							
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1				-0.09875	-0.39490	-22.2	-815.7
30017	2011.8	3098.6	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	-13.6	491.0	0.25081		0.19110	-13.7	370.8
			C:129270 E.G.C.	138	129310 NEWBRGE	138	3							
			Open 129270 E.G.C.	138	129310 NEWBRGE	138	3				0.35219	0.16955	0.2	341.3
30018	2012.0	3098.8	L: 129244 GRT NECK	138	129293 SHORE RD	138	1	-316.8	-574.0	-0.12781		-0.10387	-251.6	-460.6
			C:129248 L SUCS	138	129293 SHORE RD	138	2							
			Open 129248 L SUCS	138	129293 SHORE RD	138	2				0.55554	-0.04310	-117.4	-204.2
30019	2019.6	3106.3	L: 129244 GRT NECK	138	129293 SHORE RD	138	1	-316.2	-574.0	-0.12765		-0.10387	-251.6	-461.4
			C:129248 L SUCS	138	129293 SHORE RD	138	1							
			Open 129248 L SUCS	138	129293 SHORE RD	138	1				0.55460	-0.04289	-116.5	-203.1
30026	2030.1	3116.7	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	-18.4	491.0	0.25093		0.18337	-13.6	358.7
			C:129270 E.G.C.	138	129310 NEWBRGE	138	1							
			Open 129270 E.G.C.	138	129310 NEWBRGE	138	1				0.35353	0.19110	-13.7	374.3
30033	2036.2	3122.7	L: 129244 GRT NECK	138	129248 L SUCS	138	1	130.1	288.0	0.07755		0.03666	133.8	208.4
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1							
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1				-0.09845	-0.41524	37.3	-808.2
30038	2080.7	3166.6	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	1	105.7	239.0	0.06407				
			Base Case											
30039	2094.0	3179.8	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	-13.5	491.0	0.24094		0.18337	-13.6	370.4
			C:129270 E.G.C.	138	129310 NEWBRGE	138	3							
			Open 129270 E.G.C.	138	129310 NEWBRGE	138	3				0.33950	0.16955	0.2	355.2
30042	2109.6	3195.2	L: 129310 NEWBRGE	138	129361 RULND RD	138	3	101.5	483.0	0.18085		0.13955	78.8	373.2
			C:129310 NEWBRGE	138	129361 RULND RD	138	1							
			Open 129310 NEWBRGE	138	129361 RULND RD	138	1				0.27451	0.15045	82.6	400.0
30043	2109.6	3195.2	L: 129310 NEWBRGE	138	129361 RULND RD	138	3	101.5	483.0	0.18085		0.13955	78.8	373.2
			C:129310 NEWBRGE	138	129361 RULND RD	138	2							
			Open 129310 NEWBRGE	138	129361 RULND RD	138	2				0.27451	0.15045	82.6	400.0

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30048	2133.2	3218.4	L: 129244 GRT NECK	138	129293 SHORE RD	138	1	-244.8	-574.0	-0.15432	-0.10387	-251.6	-473.2
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1 1426						
			Open 129281 GLNWD GT		138 129288 ROSLYN		138 1			-0.14129	0.35707	-48.0	713.7
30049	2151.7	3236.6	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	73.5	165.0	0.04252	0.03360	58.8	131.1
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1 1521						
			Open 129248 L SUCS		138 129543 LKE SCSS		69.0 1			0.13923	0.06407	105.7	243.5
30050	2151.7	3236.6	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	73.5	165.0	0.04252	0.03360	58.8	131.1
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1 1521						
			Open 129248 L SUCS		138 129543 LKE SCSS		69.0 1			0.13923	0.06407	105.7	243.5
30051	2153.1	3238.1	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	57.3	165.0	0.05001	0.03360	58.8	131.1
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1 1427						
			Open 129282 GLNWD NO		138 129293 SHORE RD		138 1			-0.03952	-0.41524	37.3	-856.8
30052	2153.1	3238.1	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	57.3	165.0	0.05001	0.03360	58.8	131.1
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1 1427						
			Open 129282 GLNWD NO		138 129293 SHORE RD		138 1			-0.03952	-0.41524	37.3	-856.8
30053	2165.1	3249.9	L: 129244 GRT NECK	138	129293 SHORE RD	138	1	-243.1	-574.0	-0.15282	-0.10387	-251.6	-476.5
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1 1417						
			Open 129265 CARLE PL		138 129283 GLNWD SO		138 1			0.14047	-0.34852	60.3	-694.3
30054	2167.4	3252.2	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3	-4.3	498.0	0.23174	0.16955	0.2	367.7
			C:129270 E.G.C.	138	129310 NEWBRGE	138	1 1420						
			Open 129270 E.G.C.		138 129310 NEWBRGE		138 1			0.32541	0.19110	-13.7	400.5
30055	2172.5	3257.2	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	59.6	165.0	0.04850	0.03360	58.8	131.8
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1 1428						
			Open 129283 GLNWD SO		138 129293 SHORE RD		138 1			-0.03774	-0.39490	-22.2	-880.1
30056	2172.5	3257.2	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	59.6	165.0	0.04850	0.03360	58.8	131.8
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1 1428						
			Open 129283 GLNWD SO		138 129293 SHORE RD		138 1			-0.03774	-0.39490	-22.2	-880.1
30057	2173.5	3258.2	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	-12.2	491.0	0.23151	0.19110	-13.7	401.7
			C:129271 E.G.C.-2	138	129310 NEWBRGE	138	4 1423						
			Open 129271 E.G.C.-2		138 129310 NEWBRGE		138 4			0.31797	0.12711	4.6	280.9
30058	2177.6	3262.3	L: 129244 GRT NECK	138	129293 SHORE RD	138	1	-238.0	-574.0	-0.15432	-0.10387	-251.6	-477.8
			C:129270 E.G.C.	138	129288 ROSLYN	138	1 1419						
			Open 129270 E.G.C.		138 129288 ROSLYN		138 1			0.14129	-0.35707	96.6	-681.0
30059	2187.9	3272.4	L: 129244 GRT NECK	138	129293 SHORE RD	138	1	-236.4	-574.0	-0.15432	-0.10387	-251.6	-478.8
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1 1425						
			Open 129281 GLNWD GT		138 129282 GLNWD NO		138 1			0.14129	-0.35707	107.8	-673.4
30060	2210.6	3294.8	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3	123.2	498.0	0.16955	0.16955	0.2	375.0
			C:128842 NEPTCONV	345	128847 NWBRG	345	1 1398						
			Open 128842 NEPTCONV		345 128847 NWBRG		345 1			-0.18464	0.00000	-666.2	-666.2
30061	2210.6	3294.8	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3	-4.1	498.0	0.22713	0.16955	0.2	375.0
			C:129271 E.G.C.-2	138	129310 NEWBRGE	138	2 1422						
			Open 129271 E.G.C.-2		138 129310 NEWBRGE		138 2			0.31399	0.18337	-13.6	391.8
30064	2229.4	3313.4	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	4	4.6	288.0	0.12711			
			Base Case										
30065	2231.7	3315.7	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	-12.1	491.0	0.22541	0.18337	-13.6	395.7
			C:129271 E.G.C.-2	138	129310 NEWBRGE	138	4 1423						
			Open 129271 E.G.C.-2		138 129310 NEWBRGE		138 4			0.33073	0.12711	4.6	288.3
30066	2241.3	3325.2	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	71.9	165.0	0.04154	0.03360	58.8	134.1

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				C:129248 L SUCS	138	129543 LKE SCSS	69.0	2	1522										
				Open 129248 L SUCS		138	129543 LKE SCSS	69.0	2				0.13556	0.05858	96.6	227.9			
30067	2241.3	3325.2	L:	129244 GRT NECK	138	129537 GRT NECK	69.0	1		71.9	165.0	0.04154		0.03360	58.8	134.1			
				C:129248 L SUCS	138	129543 LKE SCSS	69.0	2	1522										
				Open 129248 L SUCS		138	129543 LKE SCSS	69.0	2				0.13556	0.05858	96.6	227.9			
30068	2247.2	3330.9	L:	129244 GRT NECK	138	129293 SHORE RD	138	1		-230.6	-574.0	-0.15282		-0.10387	-251.6	-485.0			
				C:129265 CARLE PL	138	129270 E.G.C.	138	1	1416										
				Open 129265 CARLE PL		138	129270 E.G.C.	138	1				-0.14047	0.34852	-149.6	633.6			
30069	2273.2	3356.6	L:	103166 NORHR138	138	129343 NRTHPT P	138	3		57.7	175.0	0.05162		-0.00000	33.4	33.4			
				C:BUS:SHORE_RD_345					1621										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1					0.05153	0.50089	236.0	1374.7			
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2					0.05153	0.49911	235.2	1369.8			
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					-0.00690	0.00000	1.3	1.3			
				Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1					-0.00690	-0.01299	-0.0	-29.5			
30070	2273.2	3356.6	L:	103166 NORHR138	138	129343 NRTHPT P	138	2		57.7	175.0	0.05162		-0.00000	33.4	33.4			
				C:BUS:SHORE_RD_345					1621										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1					0.05153	0.50089	236.0	1374.7			
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2					0.05153	0.49911	235.2	1369.8			
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					-0.00690	0.00000	1.3	1.3			
				Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1					-0.00690	-0.01299	-0.0	-29.5			
30071	2273.2	3356.6	L:	103166 NORHR138	138	129343 NRTHPT P	138	1		57.7	175.0	0.05162		-0.00000	33.4	33.4			
				C:BUS:SHORE_RD_345					1621										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1					0.05153	0.50089	236.0	1374.7			
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2					0.05153	0.49911	235.2	1369.8			
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					-0.00690	0.00000	1.3	1.3			
				Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1					-0.00690	-0.01299	-0.0	-29.5			
30072	2275.6	3359.0	L:	103166 NORHR138	138	129343 NRTHPT P	138	3		57.7	175.0	0.05153		-0.00000	33.4	33.4			
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363										
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					0.05153	1.00000	472.6	2748.2			
30073	2275.6	3359.0	L:	103166 NORHR138	138	129343 NRTHPT P	138	1		57.7	175.0	0.05153		-0.00000	33.4	33.4			
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363										
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					0.05153	1.00000	472.6	2748.2			
30074	2275.6	3359.0	L:	103166 NORHR138	138	129343 NRTHPT P	138	2		57.7	175.0	0.05153		-0.00000	33.4	33.4			
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363										
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					0.05153	1.00000	472.6	2748.2			
30075	2295.1	3378.2	L:	129244 GRT NECK	138	129248 L SUCS	138	1		129.4	288.0	0.06910		0.03666	133.8	217.9			
				C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1426										
				Open 129281 GLNWD GT	138	129288 ROSLYN	138	1					0.09083	0.35707	-48.0	771.5			
30076	2301.9	3384.9	L:	128830 HMP HRBR	345	147857 DVNPT NK	345	1		-847.1	-1860.0	-0.44001		0.00000	-639.2	-639.2			
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363										
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					-0.44001	1.00000	472.6	2774.5			
30077	2305.2	3388.2	L:	128830 HMP HRBR	345	147857 DVNPT NK	345	1		-846.6	-1860.0	-0.43961		0.00000	-639.2	-639.2			
				C:BUS:SHORE_RD_345					1621										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1					-0.44001	0.50089	236.0	1390.7			
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2					-0.44001	0.49911	235.2	1385.8			
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					-0.03094	0.00000	1.3	1.3			
				Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1					-0.03094	-0.01299	-0.0	-29.9			
30078	2326.7	3409.4	L:	Interface	29	ConEd-LIPA				1387.5	3684.0	0.98701		0.98701	826.5	3123.0			

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				C:128842 NEPTCONV	345	128847 NWBRG	345	1	1398										
				Open 128842 NEPTCONV		345 128847 NWBRG			345	1				-0.84208	0.00000	-666.2	-666.2		
30079	2345.2	3427.7	L:	129244 GRT NECK	138	129248 L SUCS	138	1			128.3	288.0	0.06808		0.03666	133.8	219.8		
				C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1417										
				Open 129265 CARLE PL		138 129283 GLNWD SO			138	1									
30080	2346.0	3428.4	L:	129270 E.G.C.	138	129310 NEWBRGE	138	1			17.6	491.0	0.20180		0.19110	-13.7	434.7		
				C:129234 VLY STRM	138	129271 E.G.C.-2	138	1	1410										
				Open 129234 VLY STRM		138 129271 E.G.C.-2			138	1									
30081	2356.2	3438.6	L:	129248 L SUCS	138	129293 SHORE RD	138	2			-117.4	-219.0	-0.04310		-0.06634	-193.5	-349.2		
				Base Case															
30082	2358.9	3441.2	L:	129244 GRT NECK	138	129248 L SUCS	138	1			125.0	288.0	0.06910		0.03666	133.8	220.3		
				C:129270 E.G.C.	138	129288 ROSLYN	138	1	1419										
				Open 129270 E.G.C.		138 129288 ROSLYN			138	1									
30083	2359.7	3442.0	L:	129310 NEWBRGE	138	129361 RULND RD	138	3			100.0	483.0	0.16230		0.13955	78.8	408.1		
				C:129305 LCST GRV	138	129310 NEWBRGE	138	1	1430										
				Open 129305 LCST GRV		138 129310 NEWBRGE			138	1									
30084	2365.0	3447.2	L:	129421 HOLBROOK	138	129806 HOLBRK1	69.0	1			239.5	318.0	0.03320		0.02816	205.3	271.9		
				C:129421 HOLBROOK	138	129807 HOLBRK2	69.0	2	1542										
				Open 129421 HOLBROOK		138 129807 HOLBRK2			69.0	2									
30085	2373.7	3455.8	L:	129244 GRT NECK	138	129248 L SUCS	138	1			124.0	288.0	0.06910		0.03666	133.8	220.8		
				C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1425										
				Open 129281 GLNWD GT		138 129282 GLNWD NO			138	1									
30086	2377.5	3459.6	L:	Interface 43 J-to-K							-94.9	869.0	0.40540		0.00000	-286.4	-286.4		
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363										
				Open 126266 DUNWODIE		345 128835 SHORE RD			345	1									
30087	2377.5	3459.6	L:	Interface 44 K-to-J							94.9	-869.0	-0.40540		0.00000	286.4	286.4		
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363										
				Open 126266 DUNWODIE		345 128835 SHORE RD			345	1									
30088	2378.1	3460.2	L:	Interface 44 K-to-J							95.4	-869.0	-0.40553		0.00000	286.4	286.4		
				C:BUS:SHORE_RD_345					1621										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1											
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2											
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1											
				Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1											
30089	2378.1	3460.2	L:	Interface 43 J-to-K							-95.4	869.0	0.40553		0.00000	-286.4	-286.4		
				C:BUS:SHORE_RD_345					1621										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1											
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2											
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1											
				Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1											
30090	2390.7	3472.6	L:	129248 L SUCS	138	129293 SHORE RD	138	1			-116.5	-219.0	-0.04289						
				Base Case															
30091	2414.8	3496.4	L:	129271 E.G.C.-2	138	129310 NEWBRGE	138	2			20.2	491.0	0.19496		0.18337	-13.6	429.2		
				C:129234 VLY STRM	138	129271 E.G.C.-2	138	1	1410										
				Open 129234 VLY STRM		138 129271 E.G.C.-2			138	1									
30092	2417.2	3498.7	L:	129270 E.G.C.	138	129310 NEWBRGE	138	3			1.5	498.0	0.20542		0.16955	0.2	410.0		
				C:129271 E.G.C.-2	138	129310 NEWBRGE	138	4	1423										
				Open 129271 E.G.C.-2		138 129310 NEWBRGE			138	4									

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30093	2417.2	3498.8	L: 129305 LCST GRV	138	129310 NEWBRGE	138	1	-126.9	-598.0	-0.19488	-0.13676	-127.5	-458.1
			C:129361 RULND RD	138	129421 HOLBROOK	138	1 1461						
			Open 129361 RULND RD		138 129421 HOLBROOK		138 1			-0.13407	0.43350	-4.5	1043.3
30094	2417.6	3499.1	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	29.0	491.0	0.19110	0.19110	-13.7	448.3
			C:SIN:250				1677						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00001	0.00000	-0.1	-0.1
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
30095	2417.9	3499.4	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	69.3	165.0	0.03959	0.03360	58.8	140.0
			C:129244 GRT NECK	138	129537 GRT NECK	69.0	2 1520						
			Open 129244 GRT NECK		138 129537 GRT NECK		69.0 2			0.17828	0.03360	58.8	140.0
30096	2417.9	3499.4	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	69.3	165.0	0.03959	0.03360	58.8	140.0
			C:129244 GRT NECK	138	129537 GRT NECK	69.0	1 1519						
			Open 129244 GRT NECK		138 129537 GRT NECK		69.0 1			0.17828	0.03360	58.8	140.0
30097	2418.7	3500.2	L: 129337 HAUPAGUE	138	129393 C.ISLIP	138	1	121.3	442.0	0.13260	0.00000	122.7	122.7
			C:129361 RULND RD	138	129421 HOLBROOK	138	1 1461						
			Open 129361 RULND RD		138 129421 HOLBROOK		138 1			0.30589	0.43350	-4.5	1043.9
30098	2421.3	3502.8	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	28.3	491.0	0.19110	0.19110	-13.7	449.1
			C:GEN:MILLST 3				1572						
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
30099	2421.3	3502.8	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	28.3	491.0	0.19110	0.19110	-13.7	449.1
			C:GEN:MLS3&OMS				1574						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00001	0.00000	-0.1	-0.1
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
30100	2429.2	3510.6	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	1	135.5	335.0	0.08213	0.06407	105.7	261.3
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	2 1522						
			Open 129248 L SUCS		138 129543 LKE SCSS		69.0 2			0.30834	0.05858	96.6	238.9
30101	2430.5	3511.9	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	2	96.6	239.0	0.05858			
			Base Case										
30102	2448.0	3529.1	L: 129310 NEWBRGE	138	129361 RULND RD	138	3	85.7	483.0	0.16230	0.13955	78.8	420.4
			C:129305 LCST GRV	138	129315 SYOSSET	138	1 1431						
			Open 129305 LCST GRV		138 129315 SYOSSET		138 1			0.16633	0.13676	41.4	376.2
30103	2463.4	3544.4	L: 129244 GRT NECK	138	129248 L SUCS	138	1	120.3	288.0	0.06808	0.03666	133.8	224.1
			C:129265 CARLE PL	138	129270 E.G.C.	138	1 1416						
			Open 129265 CARLE PL		138 129270 E.G.C.		138 1			0.09014	0.34852	-149.6	709.0
30104	2477.6	3558.3	*L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	17.5	491.0	0.19110	0.19110	-13.7	459.8
			C:GEN:SEABROOK				1573						
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch				
30110	2497.7	3578.2	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	1	107.2	335.0	0.09120	0.06407	105.7	265.7
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1 1428						
			Open 129283 GLNWD SO		138 129293 SHORE RD		138 1			-0.06870	-0.39490	-22.2	-1008.5
30111	2514.0	3594.3	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	1	103.2	335.0	0.09222	0.06407	105.7	266.8
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1 1427						
			Open 129282 GLNWD NO		138 129293 SHORE RD		138 1			-0.06779	-0.41524	37.3	-1006.6
30113	2520.2	3600.4	*L: 129244 GRT NECK	138	129248 L SUCS	138	1	159.1	288.0	0.05114	0.03666	133.8	226.2
			C:129244 GRT NECK	138	129537 GRT NECK	69.0	2 1520						
			Open 129244 GRT NECK		138 129537 GRT NECK		69.0 2			0.43093	0.03360	58.8	143.5
30115	2520.5	3600.7	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	28.8	491.0	0.18337	0.18337	-13.6	448.6
			C:SIN:250				1677						

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			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00001	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
30116	2521.0	3601.2	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	57.6	165.0	0.04261	0.03360	58.8	143.5
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1426					
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1			0.02523	0.35707	-48.0	852.2
30117	2521.0	3601.2	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	57.6	165.0	0.04261	0.03360	58.8	143.5
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1426					
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1			0.02523	0.35707	-48.0	852.2
30118	2524.4	3604.6	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	28.1	491.0	0.18337	0.18337	-13.6	449.3
			C:GEN:MLS3&OMS					1574					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00001	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
30119	2524.4	3604.6	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	28.1	491.0	0.18337	0.18337	-13.6	449.3
			C:GEN:MILLST 3					1572					
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
30122	2542.5	3622.4	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	57.3	165.0	0.04237	0.03360	58.8	144.2
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1417					
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1			-0.02516	-0.34852	60.3	-825.8
30123	2542.5	3622.4	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	57.3	165.0	0.04237	0.03360	58.8	144.2
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1417					
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1			-0.02516	-0.34852	60.3	-825.8
30124	2549.7	3629.5	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	56.4	165.0	0.04261	0.03360	58.8	144.5
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1419					
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1			-0.02523	-0.35707	96.6	-813.9
30125	2549.7	3629.5	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	56.4	165.0	0.04261	0.03360	58.8	144.5
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1419					
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1			-0.02523	-0.35707	96.6	-813.9
30128	2556.4	3636.1	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	56.1	165.0	0.04261	0.03360	58.8	144.7
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1425					
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1			-0.02523	-0.35707	107.8	-805.0
30129	2556.4	3636.1	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	56.1	165.0	0.04261	0.03360	58.8	144.7
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1425					
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1			-0.02523	-0.35707	107.8	-805.0
30135	2582.5	3661.9	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	17.4	491.0	0.18337	0.18337	-13.6	460.0
			C:GEN:SEAB&OMS					1575					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00001	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
30136	2582.5	3661.9	*L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	17.4	491.0	0.18337	0.18337	-13.6	460.0
			C:GEN:SEABROOK					1573					
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
30137	2584.8	3664.2	L: 129310 NEWBRGE	138	129361 RULND RD	138	3	74.2	483.0	0.15816	0.13955	78.8	439.5
			C:129310 NEWBRGE	138	129324 BETHPAGE	138	1	1432					
			Open 129310 NEWBRGE	138	129324 BETHPAGE	138	1			0.17795	0.10458	-26.0	244.3
30138	2584.9	3664.2	L: 129310 NEWBRGE	138	129361 RULND RD	138	3	74.2	483.0	0.15816	0.13955	78.8	439.5
			C:129321 BAGATELLE	138	129324 BETHPAGE	138	1	1438					
			Open 129321 BAGATELLE	138	129324 BETHPAGE	138	1			-0.17795	-0.10458	26.0	-244.3
30143	2595.5	3674.7	*L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	55.0	165.0	0.04237	0.03360	58.8	146.0
			C:129265 CARLE PL	138	129270 E.G.C.	138	1	1416					

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			Open 129265 CARLE PL	138	129270 E.G.C.	138	1				0.02516	0.34852	-149.6	755.0
30144	2595.5	3674.7	*L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	55.0	165.0	0.04237		0.03360	58.8	146.0
			C:129265 CARLE PL	138	129270 E.G.C.	138	1							
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1				0.02516	0.34852	-149.6	755.0
30152	2606.6	3685.7	*L: 129244 GRT NECK	138	129293 SHORE RD	138	1	-268.0	-574.0	-0.11740		-0.10387	-251.6	-522.3
			C:129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	1524						
			Open 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1				-0.23259	0.05817	70.5	222.1
30153	2608.0	3687.0	L: 129310 NEWBRGE	138	129361 RULND RD	138	3	70.5	483.0	0.15816		0.13955	78.8	442.8
			C:129321 BAGATELLE	138	129355 PILGRIM	138	1	1439						
			Open 129321 BAGATELLE	138	129355 PILGRIM	138	1				0.17795	0.10458	-46.6	226.2
30170	2625.6	3704.4	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3	27.9	498.0	0.17905		0.16955	0.2	445.3
			C:129234 VLY STRM	138	129271 E.G.C.-2	138	1	1410						
			Open 129234 VLY STRM	138	129271 E.G.C.-2	138	1				-0.14318	-0.06634	-193.5	-367.7
31855	2693.7	3771.6	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	2	127.2	335.0	0.07714		0.05858	96.6	254.4
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1	1521						
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	1				0.28958	0.06407	105.7	278.3
31866	2703.7	3781.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	3	105.7	483.0	0.13955		0.13955	78.8	456.1
			C:SIN:250					1677						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
31868	2706.6	3784.4	L: Interface 29 ConEd-LIPA					1012.5	3684.0	0.98701		0.98701	826.5	3498.0
			C:SIN:250					1677						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00003	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
31871	2707.7	3785.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	3	105.1	483.0	0.13955		0.13955	78.8	456.7
			C:GEN:MILLST 3					1572						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
31872	2707.7	3785.5	*L: 129310 NEWBRGE	138	129361 RULND RD	138	3	105.1	483.0	0.13955		0.13955	78.8	456.7
			C:GEN:MLS3&OMS					1574						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
31881	2711.6	3789.3	L: Interface 29 ConEd-LIPA					1007.7	3684.0	0.98701		0.98701	826.5	3502.8
			C:GEN:MLS3&OMS					1574						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00003	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
31882	2711.6	3789.3	L: Interface 29 ConEd-LIPA					1007.7	3684.0	0.98701		0.98701	826.5	3502.8
			C:GEN:MILLST 3					1572						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
31885	2712.8	3790.5	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3	38.0	498.0	0.16955		0.16955	0.2	460.1
			C:SIN:250					1677						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00001	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
31893	2716.6	3794.2	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3	37.4	498.0	0.16955		0.16955	0.2	460.8
			C:GEN:MLS3&OMS					1574						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00001	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
31894	2716.6	3794.2	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3	37.4	498.0	0.16955		0.16955	0.2	460.8
			C:GEN:MILLST 3					1572						

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				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch				
33529	2758.4	3835.5	L:	Interface 29 ConEd-LIPA				961.4	3684.0	0.98701	0.98701	826.5 3549.1
			C:	GEN:SEAB&OMS		1575						
				Open 100508 SANDB115 115 100509 SB RCTOR	115	2				-0.00003	0.00000	-0.1 -0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch				
33530	2758.4	3835.5	L:	Interface 29 ConEd-LIPA				961.4	3684.0	0.98701	0.98701	826.5 3549.1
			C:	GEN:SEABROOK		1573						
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch				
33549	2764.5	3841.5	L:	129339 KINGS HWY 138 129355 PILGRIM	138	1		-94.2	-636.0	-0.19598	0.00525	-96.3 -81.8
			C:	129361 RULND RD 138 129421 HOLBROOK	138	1	1461					
				Open 129361 RULND RD 138 129421 HOLBROOK	138	1				-0.46420	0.43350	-4.5 1193.9
33551	2765.0	3842.1	L:	129339 KINGS HWY 138 129427 HOLTS GT	138	1		94.1	636.0	0.19598	-0.00525	96.2 81.7
			C:	129361 RULND RD 138 129421 HOLBROOK	138	1	1461					
				Open 129361 RULND RD 138 129421 HOLBROOK	138	1				0.46420	0.43350	-4.5 1194.1
33561	2769.5	3846.5	L:	129271 E.G.C.-2 138 129310 NEWBRGE	138	4		1.3	483.0	0.17394	0.12711	4.6 356.6
			C:	129270 E.G.C. 138 129310 NEWBRGE	138	1	1420					
				Open 129270 E.G.C. 138 129310 NEWBRGE	138	1				0.24506	0.19110	-13.7 515.6
33564	2770.9	3847.8	L:	129271 E.G.C.-2 138 129310 NEWBRGE	138	4		1.1	483.0	0.17390	0.12711	4.6 356.8
			C:	129271 E.G.C.-2 138 129310 NEWBRGE	138	2	1422					
				Open 129271 E.G.C.-2 138 129310 NEWBRGE	138	2				0.25515	0.18337	-13.6 494.5
33565	2772.8	3849.7	*L:	129270 E.G.C. 138 129310 NEWBRGE	138	3		27.9	498.0	0.16955	0.16955	0.2 470.3
			C:	GEN:SEAB&OMS		1575						
				Open 100508 SANDB115 115 100509 SB RCTOR	115	2				-0.00001	0.00000	-0.1 -0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch				
33584	2778.7	3855.5	L:	Interface 29 ConEd-LIPA				1077.4	3684.0	0.93807	0.98701	826.5 3569.1
			C:	129027 NRTPTG4 22.0 129342 NRTHPRT2	138	1	1508					
				Open 129027 NRTPTG4 22.0 129342 NRTHPRT2	138	1				-0.77364	0.06326	-324.3 -148.6
33585	2778.7	3855.5	L:	Interface 29 ConEd-LIPA				1077.4	3684.0	0.93807	0.98701	826.5 3569.1
			C:	129026 NRTPTG3 22.0 129342 NRTHPRT2	138	1	1507					
				Open 129026 NRTPTG3 22.0 129342 NRTHPRT2	138	1				-0.77364	0.06326	-324.3 -148.6
33593	2784.6	3861.4	L:	Interface 29 ConEd-LIPA				1065.0	3684.0	0.94053	0.98701	826.5 3575.0
			C:	129025 NRTPTG2 22.0 129341 NRTHPRT1	138	1	1506					
				Open 129025 NRTPTG2 22.0 129341 NRTHPRT1	138	1				-0.73489	0.06326	-324.5 -148.4
33594	2784.8	3861.5	*L:	Interface 29 ConEd-LIPA				1064.8	3684.0	0.94052	0.98701	826.5 3575.1
			C:	129024 NRTPTG1 22.0 129346 NRTHPT3	138	1	1505					
				Open 129024 NRTPTG1 22.0 129346 NRTHPT3	138	1				-0.73493	0.06326	-324.3 -148.2
33632	2818.5	3894.8	L:	Interface 64 LIPA Export				-2246.9	-4589.0	-0.83098	-0.89423	-1922.4 -4442.8
			C:	129025 NRTPTG2 22.0 129341 NRTHPRT1	138	1	1506					
				Open 129025 NRTPTG2 22.0 129341 NRTHPRT1	138	1				1.00000	0.06326	-324.5 -146.2
33633	2818.5	3894.8	L:	Interface 28 LIPA Import				2246.9	4589.0	0.83098	0.89423	1922.4 4442.8
			C:	129025 NRTPTG2 22.0 129341 NRTHPRT1	138	1	1506					
				Open 129025 NRTPTG2 22.0 129341 NRTHPRT1	138	1				-1.00000	0.06326	-324.5 -146.2
33634	2818.7	3895.1	L:	Interface 28 LIPA Import				2246.7	4589.0	0.83098	0.89423	1922.4 4443.0
			C:	129027 NRTPTG4 22.0 129342 NRTHPRT2	138	1	1508					
				Open 129027 NRTPTG4 22.0 129342 NRTHPRT2	138	1				-1.00000	0.06326	-324.3 -146.0
33635	2818.7	3895.1	L:	Interface 64 LIPA Export				-2246.7	-4589.0	-0.83098	-0.89423	-1922.4 -4443.0
			C:	129027 NRTPTG4 22.0 129342 NRTHPRT2	138	1	1508					
				Open 129027 NRTPTG4 22.0 129342 NRTHPRT2	138	1				1.00000	0.06326	-324.3 -146.0

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33636	2818.7	3895.1	L: Interface	28	LIPA Import				2246.7	4589.0	0.83098		0.89423	1922.4	4443.0
			C:129024 NRTPTG1	22.0	129346 NRTHPT3	138	1	1505							
			Open 129024 NRTPTG1	22.0	129346 NRTHPT3	138	1					-1.00000	0.06326	-324.3	-146.0
33637	2818.7	3895.1	L: Interface	64	LIPA Export				-2246.7	-4589.0	-0.83098		-0.89423	-1922.4	-4443.0
			C:129024 NRTPTG1	22.0	129346 NRTHPT3	138	1	1505							
			Open 129024 NRTPTG1	22.0	129346 NRTHPT3	138	1					1.00000	0.06326	-324.3	-146.0
33638	2818.7	3895.1	L: Interface	28	LIPA Import				2246.7	4589.0	0.83098		0.89423	1922.4	4443.0
			C:129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1	1507							
			Open 129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1					-1.00000	0.06326	-324.3	-146.0
33639	2818.7	3895.1	L: Interface	64	LIPA Export				-2246.7	-4589.0	-0.83098		-0.89423	-1922.4	-4443.0
			C:129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1	1507							
			Open 129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1					1.00000	0.06326	-324.3	-146.0
33660	2831.6	3907.7	L: 129234 VLY STRM	138	129271 E.G.C.-2	138	1		-238.1	-426.0	-0.06634		-0.06634	-193.5	-381.4
			C:129276 FREEPORT	138	129310 NEWBRGE	138	1	1424							
			Open 129276 FREEPORT	138	129310 NEWBRGE	138	1					0.72681	0.00000	-61.4	-61.4
33672	2842.0	3918.0	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	2		98.0	335.0	0.08339		0.05858	96.6	263.1
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1428							
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1					-0.06282	-0.39490	-22.2	-1144.5
33693	2854.5	3930.4	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	2		94.3	335.0	0.08432		0.05858	96.6	263.8
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1427							
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1					-0.06198	-0.41524	37.3	-1148.0
33694	2854.9	3930.8	L: 129234 VLY STRM	138	129271 E.G.C.-2	138	1		-236.6	-426.0	-0.06634		-0.06634	-193.5	-382.9
			C:129248 L SUCS	138	129249 L SUCSPH	138	1	1413							
			Open 129248 L SUCS	138	129249 L SUCSPH	138	1					-0.26097	0.00000	165.0	165.0
33697	2857.7	3933.5	L: 129234 VLY STRM	138	129271 E.G.C.-2	138	1		-236.4	-426.0	-0.06634		-0.06634	-193.5	-383.1
			C:126455 JAMAICA	138	129249 L SUCSPH	138	1	1498							
			Open 126455 JAMAICA	138	129249 L SUCSPH	138	1					0.26097	0.00000	-164.3	-164.3
33701	2859.0	3934.8	L: 129305 LCST GRV	138	129315 SYOSSET	138	1		40.8	598.0	0.19488		0.13676	41.4	432.4
			C:129361 RULND RD	138	129421 HOLBROOK	138	1	1461							
			Open 129361 RULND RD	138	129421 HOLBROOK	138	1					0.13407	0.43350	-4.5	1234.8
33710	2864.1	3939.8	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	4		4.7	483.0	0.16701		0.12711	4.6	368.7
			C:129270 E.G.C.	138	129310 NEWBRGE	138	3	1421							
			Open 129270 E.G.C.	138	129310 NEWBRGE	138	3					0.23533	0.16955	0.2	485.8
33747	2879.9	3955.4	L: 129305 LCST GRV	138	129310 NEWBRGE	138	1		-139.8	-598.0	-0.15911		-0.13676	-127.5	-521.4
			C:129310 NEWBRGE	138	129361 RULND RD	138	2	1434							
			Open 129310 NEWBRGE	138	129361 RULND RD	138	2					-0.14851	0.15045	82.6	515.8
33748	2879.9	3955.4	L: 129305 LCST GRV	138	129310 NEWBRGE	138	1		-139.8	-598.0	-0.15911		-0.13676	-127.5	-521.4
			C:129310 NEWBRGE	138	129361 RULND RD	138	1	1433							
			Open 129310 NEWBRGE	138	129361 RULND RD	138	1					-0.14851	0.15045	82.6	515.8
33759	2882.4	3957.9	L: 126385 E179 ST	138	126730 15055 SR	138	1		420.7	533.0	0.03896		0.03896	218.5	330.8
			C:GEN:NYPA_AS					1553							
			Remove unit 1 from bus	147788	POLETGT2	18.0		160.0 MW	dispatch						
			Remove unit 1 from bus	147789	POLETSTG	18.0		180.0 MW	dispatch						
			Remove unit 1 from bus	147790	POLETGT1	18.0		160.0 MW	dispatch						
33779	2885.3	3960.8	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	1		103.5	335.0	0.08023		0.06407	105.7	290.6
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1426							
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1					0.04525	0.35707	-48.0	982.2
33986	2894.5	3969.8	L: 126581 HG TAP	138	126730 15055 SR	138	1		-420.2	-533.0	-0.03896		-0.03896	-218.0	-330.8

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			C:GEN:NYPA_AS				1553												
			Remove unit 1	from bus 147788	POLETGT2	18.0	160.0	MW	dispatch										
			Remove unit 1	from bus 147789	POLETSTG	18.0	180.0	MW	dispatch										
			Remove unit 1	from bus 147790	POLETGT1	18.0	160.0	MW	dispatch										
36846	2897.5	3972.8	L: Interface	64	LIPA Export														
			C:128910	BRTG9-12	13.8	129203	BARRETT2	138	1	1502									
			Open	128910	BRTG9-12	13.8	129203	BARRETT2	138	1					1.00000	0.02362	-144.0	-75.6	
36847	2897.5	3972.8	L: Interface	28	LIPA Import														
			C:128910	BRTG9-12	13.8	129203	BARRETT2	138	1	1502									
			Open	128910	BRTG9-12	13.8	129203	BARRETT2	138	1					-1.00000	0.02362	-144.0	-75.6	
37051	2910.0	3985.2	L: 129248	L SUCS	138	129543	LKE SCSS	69.0	1		103.0	335.0	0.07973			0.06407	105.7	292.1	
			C:129265	CARLE PL	138	129283	GLNWD SO	138	1	1417									
			Open	129265	CARLE PL	138	129283	GLNWD SO	138	1									
37062	2912.7	3987.8	L: 129248	L SUCS	138	129543	LKE SCSS	69.0	1		101.3	335.0	0.08023			0.06407	105.7	292.3	
			C:129270	E.G.C.	138	129288	ROSLYN	138	1	1419									
			Open	129270	E.G.C.	138	129288	ROSLYN	138	1									
37065	2913.0	3988.1	L: Interface	64	LIPA Export														
			C:128900	BARETG1	20.0	129202	BARRETT1	138	1	1499									
			Open	128900	BARETG1	20.0	129202	BARRETT1	138	1					1.00000	0.03374	-160.0	-61.7	
37066	2913.0	3988.1	L: Interface	28	LIPA Import														
			C:128900	BARETG1	20.0	129202	BARRETT1	138	1	1499									
			Open	128900	BARETG1	20.0	129202	BARRETT1	138	1									
37069	2913.5	3988.6	L: Interface	28	LIPA Import														
			C:129093	PTJEFG4	20.0	129449	PT JEFF2	138	1	1512									
			Open	129093	PTJEFG4	20.0	129449	PT JEFF2	138	1									
37070	2913.5	3988.6	L: Interface	64	LIPA Export														
			C:129093	PTJEFG4	20.0	129449	PT JEFF2	138	1	1512									
			Open	129093	PTJEFG4	20.0	129449	PT JEFF2	138	1									
37087	2915.1	3990.2	L: Interface	64	LIPA Export														
			C:128958	GLNWDMID	13.8	129281	GLNWD GT	138	1	1504									
			Open	128958	GLNWDMID	13.8	129281	GLNWD GT	138	1					1.00000	0.00000	-59.8	-59.8	
37088	2915.1	3990.2	L: Interface	28	LIPA Import														
			C:128958	GLNWDMID	13.8	129281	GLNWD GT	138	1	1504									
			Open	128958	GLNWDMID	13.8	129281	GLNWD GT	138	1									
37096	2916.0	3991.1	L: Interface	64	LIPA Export														
			C:129076	HOLTS1-5	13.8	129427	HOLTS GT	138	1	1510									
			Open	129076	HOLTS1-5	13.8	129427	HOLTS GT	138	1					1.00000	0.05412	-216.8	-59.0	
37097	2916.0	3991.1	L: Interface	28	LIPA Import														
			C:129076	HOLTS1-5	13.8	129427	HOLTS GT	138	1	1510									
			Open	129076	HOLTS1-5	13.8	129427	HOLTS GT	138	1									
37114	2919.0	3994.1	L: 129248	L SUCS	138	129543	LKE SCSS	69.0	1		100.8	335.0	0.08023			0.06407	105.7	292.7	
			C:129281	GLNWD GT	138	129282	GLNWD NO	138	1	1425									
			Open	129281	GLNWD GT	138	129282	GLNWD NO	138	1									
37130	2921.7	3996.7	*L: Interface	64	LIPA Export														
			C:128901	BARETG2	20.0	129203	BARRETT2	138	1	1500									
			Open	128901	BARETG2	20.0	129203	BARRETT2	138	1					1.00000	0.02249	-119.7	-54.0	
37131	2921.7	3996.7	*L: Interface	28	LIPA Import														
			C:128901	BARETG2	20.0	129203	BARRETT2	138	1	1500									

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			Open 128901 BARETG2	20.0	129203 BARRETT2	138	1				-1.00000	0.02249	-119.7	-54.0
37134	2922.6	3997.6	L: 129305 LCST GRV	138	129310 NEWBRGE	138	1	-139.0	-598.0	-0.15705		-0.13676	-127.5	-527.2
			C:129310 NEWBRGE	138	129361 RULND RD	138	3	1435						
			Open 129310 NEWBRGE	138	129361 RULND RD	138	3				-0.14539	0.13955	78.8	486.7
37147	2924.2	3999.2	L: 126452 HUDAVE E	138	126455 JAMAICA	138	2	48.9	406.0	0.12212		-0.00000	-8.6	-8.6
			C:BUS:SHORE_RD_345											1621
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.12196	0.50089	236.0	1700.8
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.12196	0.49911	235.2	1694.7
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.01233	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1				-0.01233	-0.01299	-0.0	-38.0
37148	2924.2	3999.2	L: 126452 HUDAVE E	138	126455 JAMAICA	138	1	48.9	406.0	0.12212		-0.00000	-8.6	-8.6
			C:BUS:SHORE_RD_345											1621
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.12196	0.50089	236.0	1700.8
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.12196	0.49911	235.2	1694.7
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.01233	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1				-0.01233	-0.01299	-0.0	-38.0
37176	2926.6	4001.5	L: 126452 HUDAVE E	138	126455 JAMAICA	138	1	49.1	406.0	0.12196		-0.00000	-8.6	-8.6
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.12196	1.00000	472.6	3399.2
37177	2926.6	4001.5	L: 126452 HUDAVE E	138	126455 JAMAICA	138	2	49.1	406.0	0.12196		-0.00000	-8.6	-8.6
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.12196	1.00000	472.6	3399.2
37185	2928.9	4003.8	L: 129305 LCST GRV	138	129315 SYOSSET	138	1	41.4	442.0	0.13676				
			Base Case											
38775	2941.1	4015.8	L: 129305 LCST GRV	138	129310 NEWBRGE	138	1	-121.2	-598.0	-0.16211		-0.13676	-127.5	-529.8
			C:129310 NEWBRGE	138	129324 BETHPAGE	138	1	1432						
			Open 129310 NEWBRGE	138	129324 BETHPAGE	138	1				-0.24231	0.10458	-26.0	281.6
38777	2941.1	4015.9	L: 129305 LCST GRV	138	129310 NEWBRGE	138	1	-121.2	-598.0	-0.16211		-0.13676	-127.5	-529.8
			C:129321 BAGATELLE	138	129324 BETHPAGE	138	1	1438						
			Open 129321 BAGATELLE	138	129324 BETHPAGE	138	1				0.24231	-0.10458	26.0	-281.6
38888	2960.4	4034.8	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	1	99.0	335.0	0.07973		0.06407	105.7	295.4
			C:129265 CARLE PL	138	129270 E.G.C.	138	1	1416						
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1				0.04494	0.34852	-149.6	882.1
38914	2971.8	4046.2	L: 129305 LCST GRV	138	129310 NEWBRGE	138	1	-116.3	-598.0	-0.16211		-0.13676	-127.5	-534.0
			C:129321 BAGATELLE	138	129355 PILGRIM	138	1	1439						
			Open 129321 BAGATELLE	138	129355 PILGRIM	138	1				-0.24231	0.10458	-46.6	264.2
38920	2974.0	4048.4	L: 129234 VLY STRM	138	129271 E.G.C.-2	138	1	-201.9	-426.0	-0.07535		-0.06634	-193.5	-390.8
			C:129305 LCST GRV	138	129310 NEWBRGE	138	1	1430						
			Open 129305 LCST GRV	138	129310 NEWBRGE	138	1				0.06582	-0.13676	-127.5	-534.3
42380	2985.9	4060.0	L: 129234 VLY STRM	138	129271 E.G.C.-2	138	1	-260.9	-426.0	-0.05530		-0.06634	-193.5	-391.6
			C:128910 BRTG9-12	13.8	129203 BARRETT2	138	1	1502						
			Open 128910 BRTG9-12	13.8	129203 BARRETT2	138	1				0.46787	0.02362	-144.0	-73.5

LIPA_Import(w LIPAImportMax)

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- TUE, NOV 10 2009 6:05
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
Case.File abb-v3-lipa-import-2905.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From ABCDEFG_EXP To K_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 36889 violations

Interface-1 Interface 28 LIPA Import Init.Flow= 2737.94 TDF= 0.9072

N	FCITC IntFcel L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
	C: Contingency description	Ncon	Flow	Rating	LODF	Init	Final
1	-110528.-97535.8 L: Interface 20 PJM-CENT	3364.4	-0.0	0.03044	0.02272	3312.1	800.5
	C:147834 NIAG 345 345 149000 ROCH 345 345 1 1226						
	Open 147834 NIAG 345 345 149000 ROCH 345 345 1				0.11154	468.5	-7176.3
2	-110254.-97287.4 L: Interface 20 PJM-CENT	3372.4	-0.0	0.03059	0.02272	3312.1	806.7
	C:137200 EDIC 345 137452 N.SCOT77 345 1 946						
	Open 137200 EDIC 345 137452 N.SCOT77 345 1				0.07081	850.9	-11391.7
3	-109767.-96845.1 L: Interface 20 PJM-CENT	3379.9	0.0	0.03079	0.02272	3312.1	817.8
	C:SIN:150 1669						
	Open 137200 EDIC 345 137452 N.SCOT77 345 1				0.07266	850.9	-11337.6
	Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1				0.04997	119.9	119.9
	Open 137235 PORTER 1 115 147905 ILION 115 1				-0.00015	88.8	117.2
4	-109766.-96844.9 L: Interface 20 PJM-CENT	3379.9	-0.0	0.03079	0.02272	3312.1	817.8
	C:SIN:160 1670						
	Open 137200 EDIC 345 137452 N.SCOT77 345 1				0.07266	850.9	-11337.5
	Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1				0.04999	119.9	119.9
	Open 137235 PORTER 1 115 137246 VALLEY 115 1				-0.00023	74.8	117.9
5	-107486.-94775.8 L: Interface 20 PJM-CENT	3381.5	0.0	0.03146	0.02272	3312.1	869.6
	C:137453 N.SCOT99 345 147833 MARCY T1 345 1 1012						
	Open 137453 N.SCOT99 345 147833 MARCY T1 345 1				-0.07294	-951.1	11923.0

LIPA_Import(w LIPAImportMax)

6	-106968.-94305.7	L: Interface	20	PJM-CENT	3389.4	-0.0	0.03169	0.02272	3312.1	881.4			
		C:SIN:180			1672								
		Open	137453	N.SCOT99	345	147833	MARCY T1	345	1	-0.07482	-0.11977	-951.1	11860.9
		Open	137228	INGMS-CD	115	137886	INGHAM-E	115	1	0.05092	0.00000	119.9	119.9
		Open	137235	PORTER 1	115	147905	ILION	115	1	-0.00015	-0.00026	88.8	116.5
7	-106967.-94305.5	L: Interface	20	PJM-CENT	3389.4	0.0	0.03169	0.02272	3312.1	881.4			
		C:SIN:170			1671								
		Open	137453	N.SCOT99	345	147833	MARCY T1	345	1	-0.07482	-0.11977	-951.1	11860.9
		Open	137228	INGMS-CD	115	137886	INGHAM-E	115	1	0.05094	0.00000	119.9	119.9
		Open	137235	PORTER 1	115	137246	VALLEY	115	1	-0.00023	-0.00039	74.8	116.8
8	-105999.-93427.2	L: Interface	20	PJM-CENT	3383.7	0.0	0.03192	0.02272	3312.1	903.4			
		C:130750 COOPC345	345	147833	MARCY T1	345	1	196					
		Open	130750	COOPC345	345	147833	MARCY T1	345	1	-0.09392	-0.09793	-762.2	9618.8
9	-103780.-91414.1	L: Interface	20	PJM-CENT	3512.6	0.0	0.03385	0.02272	3312.1	953.8			
		C:SIN:30			1665								
		Open	126260	BOWLINE1	345	146841	BOWL	20.0	1	NA			
		Open	126260	BOWLINE1	345	146750	WHAHV345	345	10	-0.42568	-0.02607	-470.6	2235.2
		Open	126290	LADENTWN	345	146750	WHAHV345	345	1	-0.00074	-0.03203	-172.1	3151.6
10	-100845.-88750.9	*L: Interface	20	PJM-CENT	3391.0	-0.0	0.03363	0.02272	3312.1	1020.5			
		C:BUS:N.S._77			1614								
		Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1	-0.02388	-0.01731	-227.8	1518.0
		Open	137452	N.SCOT77	345	137516	N.SCOT1	115	1	-0.02630	-0.01902	106.2	2024.8
		Open	137200	EDIC	345	137452	N.SCOT77	345	1	0.09044	0.11104	850.9	-10346.9
		Open	137450	ALPS345	345	137452	N.SCOT77	345	1	0.01438	-0.00373	-49.3	326.5
		Open	137451	LEEDS 3	345	137452	N.SCOT77	345	1	-0.50235	0.00000	-0.0	-0.0
23	-36215.4-30117.5	L: Interface	23	QFW	1123.7	0.0	0.03103	0.02016	1027.9	297.9			
		C:130754 KINTI345	345	149000	ROCH 345	345	1	205					
		Open	130754	KINTI345	345	149000	ROCH 345	345	1	0.17171	0.06332	557.9	-1735.1
24	-33562.4-27710.6	L: Interface	23	QFW	1010.4	-0.0	0.03011	0.02016	1027.9	351.4			
		C:SER:EESR/WRFL			1609								
		Open	135251	S RIPLEY	230	200654	ERIE E	230	1	0.36022	0.02154	-12.1	-734.9
		Open	135277	FALCONER	115	200579	WARREN	115	1	0.30931	0.00709	-42.4	-280.3
25	-33253.4-27430.2	L: Interface	23	QFW	1001.1	-0.0	0.03011	0.02016	1027.9	357.6			
		C:SER:ESEE/WRFL			1610								
		Open	270	ERIE SO.	230	531	ERIE SE	230	1	0.00130	-0.01186	27.5	421.9
		Open	531	ERIE SE	230	200654	ERIE E	230	1	-0.36098	-0.02154	38.1	754.2
		Open	135277	FALCONER	115	200579	WARREN	115	1	0.30906	0.00709	-42.4	-278.1
26	-32929.7-27136.6	L: Interface	23	QFW	1021.6	0.0	0.03102	0.02016	1027.9	364.2			
		C:136150 CLAY	345	149001	PANNELL3	345	1	717					
		Open	136150	CLAY	345	149001	PANNELL3	345	1	-0.14055	-0.07733	44.7	2591.0
27	-32869.8-27082.2	L: Interface	23	QFW	1021.6	-0.0	0.03108	0.02016	1027.9	365.4			
		C:136150 CLAY	345	149001	PANNELL3	345	2	718					
		Open	136150	CLAY	345	149001	PANNELL3	345	2	-0.14081	-0.07758	44.8	2594.8
28	-32629.8-26864.6	L: Interface	23	QFW	1124.9	0.0	0.03447	0.02016	1027.9	370.2			
		C:147834 NIAG	345	345	149000	ROCH 345	345	1	1226				
		Open	147834	NIAG 345	345	149000	ROCH 345	345	1	0.20702	0.06917	468.5	-1788.3
29	-20165.7-15556.9	L: Interface	60	C2PJMC	-651.4	-0.0	-0.03230	-0.03230	-570.7	80.7			
		C:GEN:9 MI PT2			1561								

LIPA_Import(w LIPAImportMax)

		Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
30	-20165.7-15556.9	L: Interface	61 PJMC2C				651.4	0.0	0.03230		0.03230	570.7	-80.7
		C:GEN:9 MI PT2			1561								
		Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
31	-20165.7-15556.9	L: Interface	47 C-PJMWest				-651.4	-0.0	-0.03230		-0.03230	-570.7	80.7
		C:GEN:9 MI PT2			1561								
		Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
32	-20165.7-15556.9	L: Interface	48 PJMWest-C				651.4	0.0	0.03230		0.03230	570.7	-80.7
		C:GEN:9 MI PT2			1561								
		Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
33	-19852.3-15272.5	L: Interface	26 ONTARIO-MICH				612.3	-0.0	0.03084		0.02016	667.1	267.0
		C:129026 NRTPTG3	22.0 129342 NRTHPRT2	138	1 1507								
		Open 129026 NRTPTG3	22.0 129342 NRTHPRT2	138	1					0.16897	0.06326	-324.3	-1580.1
34	-19852.2-15272.4	L: Interface	26 ONTARIO-MICH				612.3	0.0	0.03084		0.02016	667.1	267.0
		C:129027 NRTPTG4	22.0 129342 NRTHPRT2	138	1 1508								
		Open 129027 NRTPTG4	22.0 129342 NRTHPRT2	138	1					0.16897	0.06326	-324.3	-1580.1
35	-19798.8-15224.0	L: Interface	26 ONTARIO-MICH				612.0	-0.0	0.03091		0.02016	667.1	268.1
		C:129024 NRTPTG1	22.0 129346 NRTHPT3	138	1 1505								
		Open 129024 NRTPTG1	22.0 129346 NRTHPT3	138	1					0.17002	0.06326	-324.2	-1576.7
36	-19797.6-15222.9	L: Interface	26 ONTARIO-MICH				612.0	-0.0	0.03091		0.02016	667.1	268.1
		C:129025 NRTPTG2	22.0 129341 NRTHPRT1	138	1 1506								
		Open 129025 NRTPTG2	22.0 129341 NRTHPRT1	138	1					0.17002	0.06326	-324.4	-1576.8
37	-19784.3-15210.8	L: Interface	47 C-PJMWest				-639.1	0.0	-0.03230		-0.03230	-570.7	68.4
		C:SIN:250			1677								
		Open 100508 SANDB115	115 100509 SB RCTOR	115	2					-0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
38	-19784.3-15210.8	L: Interface	60 C2PJMC				-639.1	0.0	-0.03230		-0.03230	-570.7	68.4
		C:SIN:250			1677								
		Open 100508 SANDB115	115 100509 SB RCTOR	115	2					-0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
39	-19784.3-15210.8	L: Interface	48 PJMWest-C				639.1	-0.0	0.03230		0.03230	570.7	-68.4
		C:SIN:250			1677								
		Open 100508 SANDB115	115 100509 SB RCTOR	115	2					0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
40	-19784.3-15210.8	L: Interface	61 PJMC2C				639.1	-0.0	0.03230		0.03230	570.7	-68.4
		C:SIN:250			1677								
		Open 100508 SANDB115	115 100509 SB RCTOR	115	2					0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
41	-19781.2-15208.0	L: Interface	48 PJMWest-C				639.0	0.0	0.03230		0.03230	570.7	-68.3
		C:GEN:SEAB&OMS			1575								
		Open 100508 SANDB115	115 100509 SB RCTOR	115	2					0.00000	0.00000	-0.1	-0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
42	-19781.2-15208.0	L: Interface	60 C2PJMC				-639.0	-0.0	-0.03230		-0.03230	-570.7	68.3
		C:GEN:SEABROOK			1573								
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
43	-19781.2-15208.0	L: Interface	48 PJMWest-C				639.0	0.0	0.03230		0.03230	570.7	-68.3
		C:GEN:SEABROOK			1573								
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							

LIPA_Import(w LIPAImportMax)

44	-19781.2-15208.0	L: Interface	61 PJMC2C				639.0	0.0	0.03230		0.03230	570.7	-68.3
		C:GEN:SEAB&OMS				1575							
		Open	100508 SANDB115	115 100509 SB RCTOR	115 2					0.00000	0.00000	-0.1	-0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
45	-19781.2-15208.0	L: Interface	61 PJMC2C				639.0	0.0	0.03230		0.03230	570.7	-68.3
		C:GEN:SEABROOK				1573							
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
46	-19781.2-15208.0	L: Interface	47 C-PJMWest				-639.0	-0.0	-0.03230		-0.03230	-570.7	68.3
		C:GEN:SEAB&OMS				1575							
		Open	100508 SANDB115	115 100509 SB RCTOR	115 2					-0.00000	0.00000	-0.1	-0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
47	-19781.2-15208.0	L: Interface	47 C-PJMWest				-639.0	-0.0	-0.03230		-0.03230	-570.7	68.3
		C:GEN:SEABROOK				1573							
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
48	-19781.2-15208.0	L: Interface	60 C2PJMC				-639.0	-0.0	-0.03230		-0.03230	-570.7	68.3
		C:GEN:SEAB&OMS				1575							
		Open	100508 SANDB115	115 100509 SB RCTOR	115 2					-0.00000	0.00000	-0.1	-0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
49	-19615.2-15057.4	L: Interface	60 C2PJMC				-633.6	-0.0	-0.03230		-0.03230	-570.7	62.9
		C:GEN:MLS3&OMS				1574							
		Open	100508 SANDB115	115 100509 SB RCTOR	115 2					-0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
50	-19615.2-15057.4	L: Interface	61 PJMC2C				633.6	0.0	0.03230		0.03230	570.7	-62.9
		C:GEN:MLS3&OMS				1574							
		Open	100508 SANDB115	115 100509 SB RCTOR	115 2					0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
51	-19615.2-15057.4	L: Interface	47 C-PJMWest				-633.6	-0.0	-0.03230		-0.03230	-570.7	62.9
		C:GEN:MILLST 3				1572							
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
52	-19615.2-15057.4	L: Interface	60 C2PJMC				-633.6	-0.0	-0.03230		-0.03230	-570.7	62.9
		C:GEN:MILLST 3				1572							
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
53	-19615.2-15057.4	L: Interface	48 PJMWest-C				633.6	0.0	0.03230		0.03230	570.7	-62.9
		C:GEN:MLS3&OMS				1574							
		Open	100508 SANDB115	115 100509 SB RCTOR	115 2					0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
54	-19615.2-15057.4	L: Interface	47 C-PJMWest				-633.6	-0.0	-0.03230		-0.03230	-570.7	62.9
		C:GEN:MLS3&OMS				1574							
		Open	100508 SANDB115	115 100509 SB RCTOR	115 2					-0.00000	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
55	-19615.2-15057.4	L: Interface	48 PJMWest-C				633.6	0.0	0.03230		0.03230	570.7	-62.9
		C:GEN:MILLST 3				1572							
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
56	-19615.2-15057.4	L: Interface	61 PJMC2C				633.6	0.0	0.03230		0.03230	570.7	-62.9
		C:GEN:MILLST 3				1572							
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
57	-19550.5-14998.7	L: Interface	47 C-PJMWest				-657.2	-0.0	-0.03362		-0.03230	-570.7	60.8
		C:HQ-NY-765-New				1776							

LIPA_Import(w LIPAImportMax)

	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
	Open	147827	MARCY765	765	147833	MARCY T1	345	1		-0.02478	0.02841	625.8	70.4	
	Open	147827	MARCY765	765	147833	MARCY T1	345	2		-0.02478	0.02470	544.6	61.6	
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
	Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.02656	9.3	528.5	
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
	Open	147837	MASS230A	230	147839	MOSES E	230	1		0.05536	0.00000	18.8	18.8	
	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
	Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch					
	Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch					
58	-19550.5-14998.7	L: Interface	48 PJMWest-C				657.2	0.0	0.03362		0.03230	570.7	-60.8	
		C:HQ-NY-765-New					1776							
	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
	Open	147827	MARCY765	765	147833	MARCY T1	345	1		0.02478	0.02841	625.8	70.4	
	Open	147827	MARCY765	765	147833	MARCY T1	345	2		0.02478	0.02470	544.6	61.6	
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
	Open	147838	MASS230B	230	147839	MOSES E	230	1		0.00000	-0.02656	9.3	528.5	
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
	Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.05536	0.00000	18.8	18.8	
	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
	Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch					
	Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch					
59	-19550.5-14998.7	L: Interface	60 C2PJMC				-657.2	-0.0	-0.03362		-0.03230	-570.7	60.8	
		C:HQ-NY-765-New					1776							
	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
	Open	147827	MARCY765	765	147833	MARCY T1	345	1		-0.02478	0.02841	625.8	70.4	
	Open	147827	MARCY765	765	147833	MARCY T1	345	2		-0.02478	0.02470	544.6	61.6	
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
	Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.02656	9.3	528.5	
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
	Open	147837	MASS230A	230	147839	MOSES E	230	1		0.05536	0.00000	18.8	18.8	
	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
	Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch					
	Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					

LIPA_Import(w LIPAImportMax)

	Set	bus 181419 CHAT G4	120	load	to	357.0 MW dispatch						
60	-19550.5-14998.7	L: Interface	61 PJMC2C			657.2	0.0	0.03362		0.03230	570.7	-60.8
		C:HQ-NY-765-New				1776						
		Open 147827	MARCY765	765	147828	MASS 765	765	1		NA		
		Open 147828	MASS 765	765	180819	CHA-NY	765	1		NA		
		Open 147827	MARCY765	765	147833	MARCY T1	345	1		0.02478	0.02841	625.8 70.4
		Open 147827	MARCY765	765	147833	MARCY T1	345	2		0.02478	0.02470	544.6 61.6
		Open	156 MCY765SW	0.0	147827	MARCY765	765	1		NA		
		Open 147838	MASS230B	230	147839	MOSES E	230	1		0.00000	-0.02656	9.3 528.5
		Open 147828	MASS 765	765	147838	MASS230B	230	1		NA		
		Open 147837	MASS230A	230	147839	MOSES E	230	1		-0.05536	0.00000	18.8 18.8
		Open 147828	MASS 765	765	147837	MASS230A	230	1		NA		
		Open	158 MS765SW2	0.0	147828	MASS 765	765	1		NA		
		Open	157 MS765SW1	0.0	147828	MASS 765	765	1		NA		
		Decrease bus	180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch			
		Set	bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch			
		Decrease bus	180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch			
		Set	bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch			
61	-19518.5-14969.7	L: Interface	47 C-PJMWest			-623.7	-0.0	-0.03195		-0.03230	-570.7	59.8
		C:GEN:FITZPATR				1559						
		Open 136155	SCRIBA	345	147830	JA FITZP	345	1		0.00487	0.07164	-46.1 -1444.3
		Open 137200	EDIC	345	147830	JA FITZP	345	1		0.07711	0.00000	44.3 44.3
		Remove unit 1	from bus 147797	JAFITZ1G	24.0	886.8	MW	dispatch				
62	-19518.5-14969.7	L: Interface	60 C2PJMC			-623.7	-0.0	-0.03195		-0.03230	-570.7	59.8
		C:GEN:FITZPATR				1559						
		Open 136155	SCRIBA	345	147830	JA FITZP	345	1		0.00487	0.07164	-46.1 -1444.3
		Open 137200	EDIC	345	147830	JA FITZP	345	1		0.07711	0.00000	44.3 44.3
		Remove unit 1	from bus 147797	JAFITZ1G	24.0	886.8	MW	dispatch				
63	-19518.5-14969.7	L: Interface	48 PJMWest-C			623.7	0.0	0.03195		0.03230	570.7	-59.8
		C:GEN:FITZPATR				1559						
		Open 136155	SCRIBA	345	147830	JA FITZP	345	1		-0.00487	0.07164	-46.1 -1444.3
		Open 137200	EDIC	345	147830	JA FITZP	345	1		-0.07711	0.00000	44.3 44.3
		Remove unit 1	from bus 147797	JAFITZ1G	24.0	886.8	MW	dispatch				
64	-19518.5-14969.7	L: Interface	61 PJMC2C			623.7	0.0	0.03195		0.03230	570.7	-59.8
		C:GEN:FITZPATR				1559						
		Open 136155	SCRIBA	345	147830	JA FITZP	345	1		-0.00487	0.07164	-46.1 -1444.3
		Open 137200	EDIC	345	147830	JA FITZP	345	1		-0.07711	0.00000	44.3 44.3
		Remove unit 1	from bus 147797	JAFITZ1G	24.0	886.8	MW	dispatch				
65	-19036.0-14531.9	L: Interface	48 PJMWest-C			579.5	0.0	0.03044		0.03230	570.7	-44.2
		C:129093	PTJFEFG4	20.0	129449	PT JEFF2	138	1	1512			
		Open 129093	PTJFEFG4	20.0	129449	PT JEFF2	138	1		-0.05511	0.03374	-159.5 -801.7
66	-19036.0-14531.9	L: Interface	61 PJMC2C			579.5	0.0	0.03044		0.03230	570.7	-44.2
		C:129093	PTJFEFG4	20.0	129449	PT JEFF2	138	1	1512			
		Open 129093	PTJFEFG4	20.0	129449	PT JEFF2	138	1		-0.05511	0.03374	-159.5 -801.7
67	-19036.0-14531.9	L: Interface	47 C-PJMWest			-579.5	-0.0	-0.03044		-0.03230	-570.7	44.2
		C:129093	PTJFEFG4	20.0	129449	PT JEFF2	138	1	1512			
		Open 129093	PTJFEFG4	20.0	129449	PT JEFF2	138	1		0.05511	0.03374	-159.5 -801.7
68	-19036.0-14531.9	L: Interface	60 C2PJMC			-579.5	-0.0	-0.03044		-0.03230	-570.7	44.2

LIPA_Import(w LIPAImportMax)

	C:129093 PTJFEFG4	20.0	129449	PT JEFF2	138	1	1512												
	Open 129093 PTJFEFG4	20.0	129449	PT JEFF2	138	1				0.05511	0.03374	-159.5	-801.7						
69	-19022.1-14519.3*L:	Interface	60	C2PJMC				-577.6	0.0	-0.03036		-0.03230	-570.7	43.7					
	C:129419 CAITHNESS2	138	129460	SILLS RD	138	1	1471												
	Open 129419 CAITHNESS2	138	129460	SILLS RD	138	1				0.05511	0.03514	-125.0	-793.5						
70	-19022.1-14519.3*L:	Interface	61	PJMC2C				577.6	-0.0	0.03036		0.03230	570.7	-43.7					
	C:129419 CAITHNESS2	138	129460	SILLS RD	138	1	1471												
	Open 129419 CAITHNESS2	138	129460	SILLS RD	138	1				-0.05511	0.03514	-125.0	-793.5						
71	-19022.1-14519.3*L:	Interface	48	PJMWest-C				577.6	-0.0	0.03036		0.03230	570.7	-43.7					
	C:129419 CAITHNESS2	138	129460	SILLS RD	138	1	1471												
	Open 129419 CAITHNESS2	138	129460	SILLS RD	138	1				-0.05511	0.03514	-125.0	-793.5						
73	-19022.1-14519.3*L:	Interface	47	C-PJMWest				-577.6	0.0	-0.03036		-0.03230	-570.7	43.7					
	C:129419 CAITHNESS2	138	129460	SILLS RD	138	1	1471												
	Open 129419 CAITHNESS2	138	129460	SILLS RD	138	1				0.05511	0.03514	-125.0	-793.5						
6932	-17097.0-12772.9 L:	Interface	26	ONTARIO-MICH				611.7	-0.0	0.03578		0.02016	667.1	322.5					
	C:128880 SHMHVDCL	192	129459	SHOREHAM	138	1	1401												
	Open 128880 SHMHVDCL	192	129459	SHOREHAM	138	1				0.16835	0.09278	-329.5	-1915.7						
7009	-14235.3-10176.6 L:	Interface	63	PJMW2C				544.3	0.0	0.03824		0.06614	422.8	-518.7					
	C:ETHS/NWES/LLGD						1648												
	Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.80804	-0.01740	87.2	334.9						
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.83248	-0.00768	32.1	141.5						
	Open 130807 GOUDY115	115	200680	LAUREL L	115	1				0.85057	-0.00875	28.6	153.2						
7010	-14235.3-10176.6 L:	Interface	62	C2PJMW				-544.3	-0.0	-0.03824		-0.06614	-422.8	518.7					
	C:ETHS/NWES/LLGD						1648												
	Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.80804	-0.01740	87.2	334.9						
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.83248	-0.00768	32.1	141.5						
	Open 130807 GOUDY115	115	200680	LAUREL L	115	1				-0.85057	-0.00875	28.6	153.2						
7023	-10176.7 -6494.5 L:	Interface	63	PJMW2C				502.5	-0.0	0.04938		0.06614	422.8	-250.3					
	C:SER:ETHS/NWES						1606												
	Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.66687	-0.01740	87.2	264.3						
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.67123	-0.00768	32.1	110.3						
7024	-10176.7 -6494.5 L:	Interface	62	C2PJMW				-502.5	0.0	-0.04938		-0.06614	-422.8	250.3					
	C:SER:ETHS/NWES						1606												
	Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.66687	-0.01740	87.2	264.3						
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.67123	-0.00768	32.1	110.3						
7025	-10161.3 -6480.6 L:	Interface	63	PJMW2C				501.5	0.0	0.04936		0.06614	422.8	-249.3					
	C:SER:C398/NWES						1605												
	Open 409 GROVER	230	200675	E.TWANDA	230	1				0.00107	0.00038	-15.4	-19.3						
	Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.66845	-0.01740	87.2	264.0						
	Open 381 TOWANDA	115	200675	E.TWANDA	230	1				0.01711	-0.00151	-54.3	-39.0						
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.66681	-0.00768	32.1	110.2						
7026	-10161.3 -6480.6 L:	Interface	62	C2PJMW				-501.5	-0.0	-0.04936		-0.06614	-422.8	249.3					
	C:SER:C398/NWES						1605												
	Open 409 GROVER	230	200675	E.TWANDA	230	1				-0.00107	0.00038	-15.4	-19.3						
	Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.66845	-0.01740	87.2	264.0						
	Open 381 TOWANDA	115	200675	E.TWANDA	230	1				-0.01711	-0.00151	-54.3	-39.0						
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.66681	-0.00768	32.1	110.2						
7027	-9385.5 -5776.8 L:	Interface	62	C2PJMW				-485.7	0.0	-0.05175		-0.06614	-422.8	198.0					

LIPA_Import(w LIPAImportMax)

C:ETHS/LLGD														
1649														
	Open	130763	HILSD230	230	200675	E.TWANDA	230	1	-0.52441	-0.01740	87.2	250.5		
	Open	130807	GOUDY115	115	200680	LAUREL L	115	1	-0.60119	-0.00875	28.6	110.8		
7028	-9385.5	-5776.8	L: Interface	63	PJMW2C				485.7	-0.0	0.05175	0.06614	422.8	-198.0
C:ETHS/LLGD														
1649														
	Open	130763	HILSD230	230	200675	E.TWANDA	230	1	0.52441	-0.01740	87.2	250.5		
	Open	130807	GOUDY115	115	200680	LAUREL L	115	1	0.60119	-0.00875	28.6	110.8		
7029	-9221.3	-5627.8	L: Interface	51	G-PJMEast				276.7	0.0	0.03001	-0.00000	-0.3	-0.3
C:SIN:280														
1678														
	Open	126262	BUCHANAN N	345	126267	E VIEW 2N	345	1	0.19746	0.13293	1161.3	-64.4		
	Open	126267	E VIEW 2N	345	126298	SPRBROOK	345	1	0.02408	0.13590	959.9	-293.2		
	Open	126267	E VIEW 2N	345	126378	EASTVIEW	138	1	0.38039	0.00000	2.0	2.0		
	Open	126262	BUCHANAN N	345	126360	BUCHNTA5	138	1	0.17376	0.00280	136.8	111.0		
7030	-9221.3	-5627.8	L: Interface	52	PJMEast-G				-276.7	-0.0	-0.03001	0.00000	0.3	0.3
C:SIN:280														
1678														
	Open	126262	BUCHANAN N	345	126267	E VIEW 2N	345	1	-0.19746	0.13293	1161.3	-64.4		
	Open	126267	E VIEW 2N	345	126298	SPRBROOK	345	1	-0.02408	0.13590	959.9	-293.2		
	Open	126267	E VIEW 2N	345	126378	EASTVIEW	138	1	-0.38039	0.00000	2.0	2.0		
	Open	126262	BUCHANAN N	345	126360	BUCHNTA5	138	1	-0.17376	0.00280	136.8	111.0		
7031	-8987.8	-5416.0	L: Interface	62	C2PJMW				-594.4	-0.0	-0.06614	-0.06614	-422.8	171.7
C:GEN:9 MI PT2														
1561														
	Remove unit 2	from bus 136700 9M PT 2G		25.0	1197.5	MW	dispatch							
7032	-8987.8	-5416.0	L: Interface	63	PJMW2C				594.4	0.0	0.06614	0.06614	422.8	-171.7
C:GEN:9 MI PT2														
1561														
	Remove unit 2	from bus 136700 9M PT 2G		25.0	1197.5	MW	dispatch							
7033	-8698.6	-5153.6	L: Interface	63	PJMW2C				594.3	-0.0	0.06833	0.06614	422.8	-152.5
C:HQ-NY-765-New														
1776														
	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
	Open	147827	MARCY765	765	147833	MARCY T1	345	1	0.04116	0.02841	625.8	378.7		
	Open	147827	MARCY765	765	147833	MARCY T1	345	2	0.04116	0.02470	544.6	329.7		
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
	Open	147838	MASS230B	230	147839	MOSES E	230	1	0.00000	-0.02656	9.3	240.3		
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
	Open	147837	MASS230A	230	147839	MOSES E	230	1	-0.11557	0.00000	18.8	18.8		
	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
	Decrease bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch							
	Set bus	181319	CHAT G3	120	load to	357.0	MW dispatch							
	Decrease bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch							
	Set bus	181419	CHAT G4	120	load to	357.0	MW dispatch							
7034	-8698.6	-5153.6	L: Interface	62	C2PJMW				-594.3	0.0	-0.06833	-0.06614	-422.8	152.5
C:HQ-NY-765-New														
1776														
	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
	Open	147827	MARCY765	765	147833	MARCY T1	345	1	-0.04116	0.02841	625.8	378.7		
	Open	147827	MARCY765	765	147833	MARCY T1	345	2	-0.04116	0.02470	544.6	329.7		

LIPA_Import(w LIPAImportMax)

		Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA									
		Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.02656	9.3	240.3					
		Open	147828	MASS 765	765	147838	MASS230B	230	1	NA									
		Open	147837	MASS230A	230	147839	MOSES E	230	1		0.11557	0.00000	18.8	18.8					
		Open	147828	MASS 765	765	147837	MASS230A	230	1	NA									
		Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA									
		Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA									
		Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch									
		Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch									
		Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch									
		Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch									
7035	-8612.2	-5075.2	L: Interface	62	C2PJM						-263.8	0.0	-0.03063	-0.06614	-422.8	146.8			
			C:130753	FRASR345	345	130755	OAKDL345	345	1	200									
			Open	130753	FRASR345	345	130755	OAKDL345	345	1									
7036	-8612.2	-5075.2	L: Interface	63	PJMW2C						263.8	-0.0	0.03063	-0.06614	422.8	-146.8			
			C:130753	FRASR345	345	130755	OAKDL345	345	1	200									
			Open	130753	FRASR345	345	130755	OAKDL345	345	1									
7037	-8565.7	-5033.1	L: Interface	63	PJMW2C						522.5	0.0	0.06100	0.06614	422.8	-143.7			
			C:SER:HC-SR_37&W-F_171							1600									
			Open	135398	SW345	345	200769	HOMER CY	345	1									
			Open	135277	FALCONER	115	200579	WARREN	115	1									
7038	-8565.7	-5033.1	L: Interface	62	C2PJM						-522.5	-0.0	-0.06100	-0.06614	-422.8	143.7			
			C:SER:HC-SR_37&W-F_171							1600									
			Open	135398	SW345	345	200769	HOMER CY	345	1									
			Open	135277	FALCONER	115	200579	WARREN	115	1									
7039	-8183.8	-4686.6	L: Interface	62	C2PJM						-530.5	0.0	-0.06482	-0.06614	-422.8	118.5			
			C:GEN:FITZPATR							1559									
			Open	136155	SCRIBA	345	147830	JA FITZP	345	1									
			Open	137200	EDIC	345	147830	JA FITZP	345	1									
			Remove unit 1	from bus	147797	JAFITZ1G	24.0	886.8	MW	dispatch									
7040	-8183.8	-4686.6	L: Interface	63	PJMW2C						530.5	-0.0	0.06482	0.06614	422.8	-118.5			
			C:GEN:FITZPATR							1559									
			Open	136155	SCRIBA	345	147830	JA FITZP	345	1									
			Open	137200	EDIC	345	147830	JA FITZP	345	1									
			Remove unit 1	from bus	147797	JAFITZ1G	24.0	886.8	MW	dispatch									
7041	-8145.6	-4651.9	*L: Interface	62	C2PJM						-508.0	0.0	-0.06237	-0.06614	-422.8	116.0			
			C:135398	SW345	345	200769	HOMER CY	345	1	1380									
			Open	135398	SW345	345	200769	HOMER CY	345	1									
7042	-8145.6	-4651.9	*L: Interface	63	PJMW2C						508.0	-0.0	0.06237	0.06614	422.8	-116.0			
			C:135398	SW345	345	200769	HOMER CY	345	1	1380									
			Open	135398	SW345	345	200769	HOMER CY	345	1									
10545	-5924.7	-2637.1	L: Interface	52	PJMEast-G						253.5	0.0	0.04279	0.00000	0.3	0.3			
			C:125001	ROCK TAV	345	126297	RAMAPO	345	1	7									
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1									
10546	-5924.7	-2637.1	L: Interface	51	G-PJMEast						-253.5	-0.0	-0.04279	-0.00000	-0.3	-0.3			
			C:125001	ROCK TAV	345	126297	RAMAPO	345	1	7									
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1									
10547	-5924.7	-2637.1	L: Interface	51	G-PJMEast						-253.5	-0.0	-0.04279	-0.00000	-0.3	-0.3			

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			C:SIN:440							1683									
			Open 125001 ROCK TAV		345	126297	RAMAPO	345	1				-0.21748	0.19677	1164.5	-1.3			
10548	-5924.7	-2637.1	L: Interface 52 PJMEast-G								253.5	0.0	0.04279	0.00000	0.3	0.3			
			C:SIN:440																
			Open 125001 ROCK TAV		345	126297	RAMAPO	345	1					0.21748	0.19677	1164.5	-1.3		
10551	-5574.6	-2319.5	L: 129421 HOLBROOK		138	129448	PT JEFF1	138	1		681.8	442.0	0.04302	0.02427	385.4	250.0			
			C:129421 HOLBROOK		138	129449	PT JEFF2	138	1	1477									
			Open 129421 HOLBROOK		138	129449	PT JEFF2	138	1					0.79583	0.02356	372.5	241.2		
10552	-5501.7	-2253.3	L: 129421 HOLBROOK		138	129449	PT JEFF2	138	1		677.2	442.0	0.04275	0.02356	372.5	242.9			
			C:129421 HOLBROOK		138	129448	PT JEFF1	138	1	1476									
			Open 129421 HOLBROOK		138	129448	PT JEFF1	138	1					0.79059	0.02427	385.4	251.8		
10555	-4801.3	-1617.9	L: Interface 55 PJME-NYEnoRE								1471.0	1287.0	0.03833	0.00000	1299.4	1299.4			
			C:130753 FRASR345		345	130755	OAKDL345	345	1	200									
			Open 130753 FRASR345		345	130755	OAKDL345	345	1					-0.26853	-0.14274	-639.0	46.3		
10556	-4801.3	-1617.9	L: Interface 56 NYE-PJMENoRE								-1471.0	-1287.0	-0.03833	-0.00000	-1299.4	-1299.4			
			C:130753 FRASR345		345	130755	OAKDL345	345	1	200									
			Open 130753 FRASR345		345	130755	OAKDL345	345	1					0.26853	-0.14274	-639.0	46.3		
10557	-4340.7	-1200.1	L: Interface 52 PJMEast-G								-173.7	0.0	-0.04001	0.00000	0.3	0.3			
			C:SIN:230																
			Open 126263 BUCHANAN S		345	126290	LADENTWN	345	1					0.26592	-0.14868	-568.3	77.1		
			Open 126262 BUCHANAN N		345	126360	BUCHNTA5	138	1					-0.16670	0.00280	136.8	124.6		
10558	-4340.7	-1200.1	L: Interface 51 G-PJMEast								173.7	-0.0	0.04001	-0.00000	-0.3	-0.3			
			C:SIN:230																
			Open 126263 BUCHANAN S		345	126290	LADENTWN	345	1					-0.26592	-0.14868	-568.3	77.1		
			Open 126262 BUCHANAN N		345	126360	BUCHNTA5	138	1					0.16670	0.00280	136.8	124.6		
10559	-3814.9	-723.1	L: Interface 52 PJMEast-G								-145.2	-0.0	-0.03807	0.00000	0.3	0.3			
			C:126263 BUCHANAN S		345	126290	LADENTWN	345	1	86									
			Open 126263 BUCHANAN S		345	126290	LADENTWN	345	1					0.25603	-0.14868	-568.3	-1.1		
10560	-3814.9	-723.1	L: Interface 51 G-PJMEast								145.2	0.0	0.03807	-0.00000	-0.3	-0.3			
			C:126263 BUCHANAN S		345	126290	LADENTWN	345	1	86									
			Open 126263 BUCHANAN S		345	126290	LADENTWN	345	1					-0.25603	-0.14868	-568.3	-1.1		
10561	-758.7	2049.6	L: 126294 PLTVLLEY		345	137451	LEEDS 3	345	2		-1916.0	-1725.0	-0.25173	-0.17694	-1342.5	-1208.3			
			C:126294 PLTVLLEY		345	137455	ATHENS	345	1	121									
			Open 126294 PLTVLLEY		345	137455	ATHENS	345	1					0.44132	-0.16946	-1299.4	-1170.9		
10562	-614.3	2180.6	L: 129361 RULND RD		138	129421	HOLBROOK	138	1		898.3	678.0	0.35855	0.43350	632.1	365.8			
			C:128880 SHMHVDCL		192	129459	SHOREHAM	138	1	1401									
			Open 128880 SHMHVDCL		192	129459	SHOREHAM	138	1					-0.80781	0.09278	-329.5	-386.5		
10563	-613.6	2181.3	L: 126294 PLTVLLEY		345	137455	ATHENS	345	1		-1875.6	-1725.0	-0.24540	-0.16946	-1299.4	-1195.5			
			C:126294 PLTVLLEY		345	137451	LEEDS 3	345	2	120									
			Open 126294 PLTVLLEY		345	137451	LEEDS 3	345	2					0.42914	-0.17694	-1342.5	-1233.9		
10564	-574.1	2217.1	L: Interface 52 PJMEast-G								-25.7	0.0	-0.04480	0.00000	0.3	0.3			
			C:126266 DUNWODIE		345	126298	SPRBROOK	345	1	92									
			Open 126266 DUNWODIE		345	126298	SPRBROOK	345	1					0.07342	-0.61018	-354.0	-3.7		
10565	-574.1	2217.1	L: Interface 51 G-PJMEast								25.7	-0.0	0.04480	-0.00000	-0.3	-0.3			
			C:126266 DUNWODIE		345	126298	SPRBROOK	345	1	92									
			Open 126266 DUNWODIE		345	126298	SPRBROOK	345	1					-0.07342	-0.61018	-354.0	-3.7		
10566	-479.1	2303.3	L: Interface 52 PJMEast-G								-21.6	0.0	-0.04512	0.00000	0.3	0.3			
			C:BUS:SHORE_RD_345																

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			Open 128835 SHORE RD	345	129293 SHORE RD	138	1		-0.04512	0.50089	237.2	-2.8	
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2		-0.04512	0.49911	236.4	-2.8	
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		-0.39138	0.00000	1.3	1.3	
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1		-0.39138	0.00000	-0.0	-0.0	
10567	-479.1	2303.3	L: Interface 51 G-PJMEast					21.6	-0.0	0.04512	-0.00000	-0.3	-0.3
			C:BUS:SHORE_RD_345										1621
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1		0.04512	0.50089	237.2	-2.8	
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2		0.04512	0.49911	236.4	-2.8	
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		0.39138	0.00000	1.3	1.3	
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1		0.39138	0.00000	-0.0	-0.0	
10568	-468.9	2312.6	L: Interface 52 PJMEast-G					-21.2	-0.0	-0.04512	0.00000	0.3	0.3
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		-0.04512	1.00000	474.9	6.1	
10569	-468.9	2312.6	L: Interface 51 G-PJMEast					21.2	0.0	0.04512	-0.00000	-0.3	-0.3
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		0.04512	1.00000	474.9	6.1	
10570	-465.8	2315.3	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	849.1	678.0	0.36731	0.43350	632.1	430.2
			C:129421 HOLBROOK	138	129443 NYPAHOLT	138	1	1475					
			Open 129421 HOLBROOK	138	129443 NYPAHOLT	138	1		-0.40549	0.16324	-535.2	-611.2	
10571	-325.5	2442.6	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	805.1	678.0	0.39030	0.43350	632.1	491.0
			C:129076 HOLTS1-5	13.8	129427 HOLTS GT	138	1	1510					
			Open 129076 HOLTS1-5	13.8	129427 HOLTS GT	138	1		-0.79811	0.05412	-216.7	-234.3	
10572	-307.0	2459.4	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	632.1	499.0	0.43350			
			Base Case										
10573	-298.9	2466.7	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	792.6	678.0	0.38327	0.43350	632.1	502.5
			C:129427 HOLTS GT	138	129443 NYPAHOLT	138	1	1481					
			Open 129427 HOLTS GT	138	129443 NYPAHOLT	138	1		0.40549	-0.12388	395.8	432.8	
10574	-255.7	2505.9	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	787.8	678.0	0.42938	0.43350	632.1	521.2
			C:129339 KINGS HWY	138	129355 PILGRIM	138	1	1446					
			Open 129339 KINGS HWY	138	129355 PILGRIM	138	1		0.78507	-0.00525	198.3	199.7	
10575	-254.9	2506.7	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	787.5	678.0	0.42938	0.43350	632.1	521.6
			C:129339 KINGS HWY	138	129427 HOLTS GT	138	1	1447					
			Open 129339 KINGS HWY	138	129427 HOLTS GT	138	1		-0.78507	0.00525	-197.9	-199.2	
10576	-202.8	2554.0	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	760.4	678.0	0.40635	0.43350	632.1	544.2
			C:129093 PTJEFG4	20.0	129449 PT JEFF2	138	1	1512					
			Open 129093 PTJEFG4	20.0	129449 PT JEFF2	138	1		-0.80470	0.03374	-159.5	-166.3	
10577	-198.6	2557.8	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	764.1	678.0	0.43350	0.43350	632.1	546.0
			C:129337 HAUPAGUE	138	129356 PILGRM P	138	1	1444					
			Open 129337 HAUPAGUE	138	129356 PILGRM P	138	1		-0.68568	0.00000	-192.5	-192.5	
10578	-198.6	2557.8	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	764.1	678.0	0.43350	0.43350	632.1	546.0
			C:129355 PILGRIM	138	129356 PILGRM P	138	1	1456					
			Open 129355 PILGRIM	138	129356 PILGRM P	138	1		0.68568	0.00000	192.5	192.5	
10579	-188.3	2567.1	*L: 129361 RULND RD	138	129421 HOLBROOK	138	1	753.2	678.0	0.39944	0.43350	632.1	550.5
			C:129418 CAITHNESS1	138	129461 SILLS RD2	138	1	1470					
			Open 129418 CAITHNESS1	138	129461 SILLS RD2	138	1		-0.80752	0.04217	-150.0	-157.9	
10585	-83.7	2662.0	L: Interface 64 LIPA Export					-2737.9	-2662.0	-0.90722			
			Base Case										
10586	-83.7	2662.0	L: Interface 28 LIPA Import					2737.9	2662.0	0.90722			

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10587	-65.1	2678.9	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1342.5	-1331.0	-0.17694			
			Base Case											
10605	57.8	2790.4	L: Interface	14	Leeds-PV				2642.0	2662.0	0.34641			
			Base Case											
12286	124.1	2850.5	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1	474.9	599.0	1.00000			
			Base Case											
			LIPA import interface flow with Rate A of Dunwoodie-Shore Road 345 kV changed to 653 MVA is: 2850.5+(653-599) = 2904.5 MW											
12332	186.2	2906.8	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1299.4	-1331.0	-0.16946			
			Base Case											
12334	191.9	2912.0	L: Interface	41	I-to-K				1115.1	1307.0	1.00000			
			Base Case											
12335	191.9	2912.0	L: Interface	42	K-to-I				-1115.1	-1307.0	-1.00000			
			Base Case											
12340	212.0	2930.3	L: Interface	50	PJMCentral-C				-8.7	-0.0	0.04106	0.03384	-147.9	-140.7
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.23877	-0.03230	-570.7	-577.6
			Open 135277 FALCONER	115	200579	WARREN	115	1			-0.06963	0.00709	-42.4	-40.9
12341	212.0	2930.3	L: Interface	49	C-PJMCentral				8.7	0.0	-0.04106	-0.03384	147.9	140.7
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.23877	-0.03230	-570.7	-577.6
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.06963	0.00709	-42.4	-40.9
12344	215.3	2933.3	L: Interface	49	C-PJMCentral				8.3	-0.0	-0.03857	-0.03384	147.9	140.6
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.22587	-0.03230	-570.7	-577.7
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.33348	-0.00768	32.1	30.5
12345	215.3	2933.3	L: Interface	50	PJMCentral-C				-8.3	0.0	0.03857	0.03384	-147.9	-140.6
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.22587	-0.03230	-570.7	-577.7
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.33348	-0.00768	32.1	30.5
12349	291.2	3002.1	L: Interface	49	C-PJMCentral				12.1	0.0	-0.04153	-0.03384	147.9	138.1
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.23800	-0.03230	-570.7	-580.1
12350	291.2	3002.1	L: Interface	50	PJMCentral-C				-12.1	-0.0	0.04153	0.03384	-147.9	-138.1
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.23800	-0.03230	-570.7	-580.1
12355	337.3	3044.0	L: 129310 NEWBRGE	138	129361	RULND RD	138	2	273.2	339.0	0.19493	0.15045	210.9	261.6
			C:129310 NEWBRGE	138	129361	RULND RD	138	1	1433					
			Open 129310 NEWBRGE	138	129361	RULND RD	138	1			0.29567	0.15045	210.9	261.6
12356	337.3	3044.0	L: 129310 NEWBRGE	138	129361	RULND RD	138	1	273.2	339.0	0.19493	0.15045	210.9	261.6
			C:129310 NEWBRGE	138	129361	RULND RD	138	2	1434					
			Open 129310 NEWBRGE	138	129361	RULND RD	138	2			0.29567	0.15045	210.9	261.6
12357	345.5	3051.3	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1652.0	-1725.0	-0.21143	-0.17694	-1342.5	-1403.6
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1	3					
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1			0.32995	-0.10451	-937.9	-974.0
12358	346.4	3052.2	L: 129310 NEWBRGE	138	129361	RULND RD	138	2	210.9	263.0	0.15045			
			Base Case											
12359	346.4	3052.2	L: 129310 NEWBRGE	138	129361	RULND RD	138	1	210.9	263.0	0.15045			

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Base Case													
12360	372.8	3076.2	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-298.7	-317.0	-0.04919	-0.02714	-168.1	-178.2
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.11210	0.19677	1164.5	1237.9
12361	372.8	3076.2	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-298.7	-317.0	-0.04919	-0.02714	-168.1	-178.2
			C:SIN:440									1683	
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.11210	0.19677	1164.5	1237.9
12362	376.5	3079.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	267.2	339.0	0.19084	0.15045	210.9	267.5
			C:129310 NEWBRGE	138	129361 RULND RD	138	3 1435						
			Open 129310 NEWBRGE	138	129361 RULND RD	138	3			0.28948	0.13955	194.4	246.9
12363	376.5	3079.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	267.2	339.0	0.19084	0.15045	210.9	267.5
			C:129310 NEWBRGE	138	129361 RULND RD	138	3 1435						
			Open 129310 NEWBRGE	138	129361 RULND RD	138	3			0.28948	0.13955	194.4	246.9
12364	386.5	3088.6	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	280.9	339.0	0.15045	0.15045	210.9	269.0
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1 1451						
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1			0.15635	0.00000	447.5	447.5
12365	386.5	3088.6	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	280.9	339.0	0.15045	0.15045	210.9	269.0
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1 1451						
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1			0.15635	0.00000	447.5	447.5
12366	390.8	3092.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1639.2	-1725.0	-0.21957	-0.17694	-1342.5	-1411.7
			C:SIN:430									1682	
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18981	0.22456	1563.1	1650.9
12367	390.8	3092.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1639.2	-1725.0	-0.21957	-0.17694	-1342.5	-1411.7
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18981	0.22456	1563.1	1650.9
12368	423.3	3122.0	L: 129337 HAUPAGUE	138	129356 PILGRM P	138	1	-385.9	-442.0	-0.13261	0.00000	-192.5	-192.5
			C:129361 RULND RD	138	129421 HOLBROOK	138	1 1461						
			Open 129361 RULND RD	138	129421 HOLBROOK	138	1			-0.30591	0.43350	632.1	815.6
12369	483.7	3176.7	L: 129355 PILGRIM	138	129356 PILGRM P	138	1	385.9	450.0	0.13261	0.00000	192.5	192.5
			C:129361 RULND RD	138	129421 HOLBROOK	138	1 1461						
			Open 129361 RULND RD	138	129421 HOLBROOK	138	1			0.30591	0.43350	632.1	841.8
12370	486.7	3179.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	274.5	339.0	0.13253	0.15045	210.9	284.1
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1 1401						
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1			-0.19306	0.09278	-329.5	-284.3
12371	486.7	3179.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	274.5	339.0	0.13253	0.15045	210.9	284.1
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1 1401						
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1			-0.19306	0.09278	-329.5	-284.3
12372	488.7	3181.3	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	237.2	482.0	0.50089			
			Base Case										
12373	492.1	3184.4	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	236.4	482.0	0.49911			
			Base Case										
12374	493.4	3185.5	L: Interface 14 Leeds-PV					3245.9	3450.0	0.41371	0.34641	2642.0	2812.9
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1 3						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1			-0.64393	-0.10451	-937.9	-989.4
12375	501.6	3193.0	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	199.9	379.0	0.35707	0.35707	47.8	227.0
			C:126299 REACBUS	345	147857 DVNPT NK	345	1 133						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			0.23750	-0.00000	640.2	640.2
12376	502.4	3193.7	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	199.6	379.0	0.35707	0.35707	47.8	227.2

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				C:128830 HMP HRBR	345	147857	DVNPT NK	345	1	1373									
				Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1					-0.23750	0.00000	-639.0	-639.0		
12377	503.5	3194.7	L:	129281 GLNWD GT	138	129288	ROSLYN	138	1		199.2	379.0	0.35707		0.35707	47.8	227.6		
				C:128824 EGC DUM	345	128830	HMP HRBR	345	1	1395									
				Open 128824 EGC DUM	345	128830	HMP HRBR	345	1					-0.23750	0.00000	-637.4	-637.4		
12378	503.5	3194.7	L:	129281 GLNWD GT	138	129288	ROSLYN	138	1		199.2	379.0	0.35707		0.35707	47.8	227.6		
				C:128824 EGC DUM	345	128825	EGC PAR	345	1	1394									
				Open 128824 EGC DUM	345	128825	EGC PAR	345	1					0.23750	-0.00000	637.4	637.4		
12379	503.5	3194.7	L:	129281 GLNWD GT	138	129288	ROSLYN	138	1		199.2	379.0	0.35707		0.35707	47.8	227.6		
				C:SPRN-BRK-345						1777									
				Open 126298 SPRBROOK	345	126299	REACBUS	345	BY					0.23714	-0.00000	641.8	641.8		
				Open 126299 REACBUS	345	147857	DVNPT NK	345	1		NA								
				Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1		NA								
				Open 128824 EGC DUM	345	128830	HMP HRBR	345	1		NA								
				Open 128824 EGC DUM	345	128825	EGC PAR	345	1		NA								
				Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1					-0.00071	0.00000	-318.5	-318.5		
				Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1					-0.22784	0.00000	4.6	4.6		
12380	503.5	3194.7	L:	129281 GLNWD GT	138	129288	ROSLYN	138	1		199.2	379.0	0.35707		0.35707	47.8	227.6		
				C:BUS:EGC_345						1622									
				Open 126299 REACBUS	345	147857	DVNPT NK	345	1		NA								
				Open 126298 SPRBROOK	345	126299	REACBUS	345	BY					0.23714	-0.00000	641.8	641.8		
				Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1		NA								
				Open 128824 EGC DUM	345	128830	HMP HRBR	345	1		NA								
				Open 128824 EGC DUM	345	128825	EGC PAR	345	1		NA								
				Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1					-0.00071	0.00000	-318.5	-318.5		
				Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1					-0.22784	0.00000	4.6	4.6		
12381	525.5	3214.7	L:	129270 E.G.C.	138	129288	ROSLYN	138	1		-151.4	-339.0	-0.35707		-0.35707	0.7	-187.0		
				C:126299 REACBUS	345	147857	DVNPT NK	345	1	133									
				Open 126299 REACBUS	345	147857	DVNPT NK	345	1					-0.23750	-0.00000	640.2	640.2		
12382	526.3	3215.4	L:	129270 E.G.C.	138	129288	ROSLYN	138	1		-151.1	-339.0	-0.35707		-0.35707	0.7	-187.2		
				C:128830 HMP HRBR	345	147857	DVNPT NK	345	1	1373									
				Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1					0.23750	0.00000	-639.0	-639.0		
12383	526.4	3215.5	L:	Interface	29	ConEd-LIPA					1290.6	1817.0	1.00000						
				Base Case															
12384	527.4	3216.4	L:	129270 E.G.C.	138	129288	ROSLYN	138	1		-150.7	-339.0	-0.35707		-0.35707	0.7	-187.6		
				C:128824 EGC DUM	345	128825	EGC PAR	345	1	1394									
				Open 128824 EGC DUM	345	128825	EGC PAR	345	1					-0.23750	-0.00000	637.4	637.4		
12385	527.4	3216.4	L:	129270 E.G.C.	138	129288	ROSLYN	138	1		-150.7	-339.0	-0.35707		-0.35707	0.7	-187.6		
				C:128824 EGC DUM	345	128830	HMP HRBR	345	1	1395									
				Open 128824 EGC DUM	345	128830	HMP HRBR	345	1					0.23750	0.00000	-637.4	-637.4		
12386	527.4	3216.4	L:	129270 E.G.C.	138	129288	ROSLYN	138	1		-150.7	-339.0	-0.35707		-0.35707	0.7	-187.6		
				C:BUS:EGC_345						1622									
				Open 126299 REACBUS	345	147857	DVNPT NK	345	1		NA								
				Open 126298 SPRBROOK	345	126299	REACBUS	345	BY					-0.23714	-0.00000	641.8	641.8		
				Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1		NA								
				Open 128824 EGC DUM	345	128830	HMP HRBR	345	1		NA								
				Open 128824 EGC DUM	345	128825	EGC PAR	345	1		NA								
				Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1					0.00071	0.00000	-318.5	-318.5		

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			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.22784	0.00000	4.6	4.6
12387	527.4	3216.4	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	-150.7	-339.0	-0.35707	-0.35707	0.7	-187.6
			C:SPRN-BRK-345				1777						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.23714	-0.00000	641.8	641.8
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00071	0.00000	-318.5	-318.5
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.22784	0.00000	4.6	4.6
12388	533.1	3221.6	L: Interface 14 Leeds-PV					3221.0	3450.0	0.42959	0.34641	2642.0	2826.6
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.37043	0.22456	1563.1	1682.8
12389	533.1	3221.6	L: Interface 14 Leeds-PV					3221.0	3450.0	0.42959	0.34641	2642.0	2826.6
			C:SIN:430				1682						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.37043	0.22456	1563.1	1682.8
12390	553.5	3240.1	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	92.3	118.0	0.04639			
			Base Case										
12391	567.4	3252.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-181.3	-379.0	-0.34852	-0.34852	-32.9	-230.7
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	133					
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			-0.23170	-0.00000	640.2	640.2
12392	568.1	3253.4	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-181.0	-379.0	-0.34852	-0.34852	-32.9	-230.9
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			0.23170	0.00000	-639.0	-639.0
12393	569.2	3254.3	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-180.6	-379.0	-0.34852	-0.34852	-32.9	-231.3
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			-0.23170	-0.00000	637.4	637.4
12394	569.2	3254.3	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-180.6	-379.0	-0.34852	-0.34852	-32.9	-231.3
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			0.23170	0.00000	-637.4	-637.4
12395	569.2	3254.4	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-180.6	-379.0	-0.34852	-0.34852	-32.9	-231.3
			C:BUS:EGC_345				1622						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.23135	-0.00000	641.8	641.8
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00069	0.00000	-318.5	-318.5
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.22227	0.00000	4.6	4.6
12396	569.2	3254.4	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-180.6	-379.0	-0.34852	-0.34852	-32.9	-231.3
			C:SPRN-BRK-345				1777						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.23135	-0.00000	641.8	641.8
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00069	0.00000	-318.5	-318.5
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.22227	0.00000	4.6	4.6

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12397	571.0	3256.0	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	349.1	770.0	0.73714	0.50089	237.2	523.2
			C:128835 SHORE RD	345	129293 SHORE RD	138	2						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.47334	0.49911	236.4	521.4
12398	573.0	3257.8	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	348.4	770.0	0.73576	0.49911	236.4	522.3
			C:128835 SHORE RD	345	129293 SHORE RD	138	1						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.47245	0.50089	237.2	524.2
12399	575.7	3260.2	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	238.3	339.0	0.17491	0.15045	210.9	297.5
			C:129305 LCST GRV	138	129310 NEWBRGE	138	1						
			Open 129305 LCST GRV	138	129310 NEWBRGE	138	1			-0.17887	-0.13676	-153.3	-232.0
12400	575.7	3260.2	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	238.3	339.0	0.17491	0.15045	210.9	297.5
			C:129305 LCST GRV	138	129310 NEWBRGE	138	1						
			Open 129305 LCST GRV	138	129310 NEWBRGE	138	1			-0.17887	-0.13676	-153.3	-232.0
12401	586.4	3270.0	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	90.6	379.0	0.49181	0.35707	47.8	257.2
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1						
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1			-0.34118	-0.39490	-125.3	-356.9
12402	595.5	3278.2	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	820.5	1416.0	1.00000	1.00000	474.9	1070.4
			C:126299 REACBUS	345	147857 DVNPT NK	345	1						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			0.53986	-0.00000	640.2	640.2
12403	596.1	3278.7	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	819.9	1416.0	1.00000	1.00000	474.9	1071.0
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			-0.53986	0.00000	-639.0	-639.0
12404	596.9	3279.5	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	819.1	1416.0	1.00000	1.00000	474.9	1071.8
			C:SPRN-BRK-345										
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.53962	-0.00000	641.8	641.8
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00048	0.00000	-318.5	-318.5
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.50379	0.00000	4.6	4.6
12405	596.9	3279.5	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	819.1	1416.0	1.00000	1.00000	474.9	1071.8
			C:BUS:EGC_345										
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.53962	-0.00000	641.8	641.8
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00048	0.00000	-318.5	-318.5
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.50379	0.00000	4.6	4.6
12406	597.0	3279.5	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	819.0	1416.0	1.00000	1.00000	474.9	1071.9
			C:128824 EGC DUM	345	128825 EGC PAR	345	1						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.53986	-0.00000	637.4	637.4
12407	597.0	3279.5	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	819.0	1416.0	1.00000	1.00000	474.9	1071.9
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.53986	0.00000	-637.4	-637.4
12408	603.8	3285.7	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	-42.0	-339.0	-0.49181	-0.35707	0.7	-214.9
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1						
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1			0.34118	-0.39490	-125.3	-363.7

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12409	605.9	3287.6	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	82.8	118.0	0.05817				
			Base Case											
12410	615.1	3296.0	L: Interface	50	PJMCentral-C			-20.0	0.0	0.03245	0.03384	-147.9	-127.1	
			C:BUS:WATERCURE_345			1632								
			Open 130757 WATRC345	345	200769 HOMER CY	345	1	-0.14528	-0.03230			-570.7	-590.6	
			Open 130757 WATRC345	345	130768 WATRC230	230	1	0.20628	-0.02948			236.7	218.5	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1	-0.14928	0.00000			25.3	25.3	
12411	615.1	3296.0	L: Interface	49	C-PJMCentral			20.0	-0.0	-0.03245	-0.03384	147.9	127.1	
			C:BUS:WATERCURE_345			1632								
			Open 130757 WATRC345	345	200769 HOMER CY	345	1	0.14528	-0.03230			-570.7	-590.6	
			Open 130757 WATRC345	345	130768 WATRC230	230	1	-0.20628	-0.02948			236.7	218.5	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1	0.14928	0.00000			25.3	25.3	
12414	617.8	3298.4	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	252.5	339.0	0.14006	0.15045	210.9	303.8	
			C:129076 HOLTS1-5	13.8	129427 HOLTS GT	138	1 1510							
			Open 129076 HOLTS1-5	13.8	129427 HOLTS GT	138	1	-0.19189	0.05412			-216.7	-183.3	
12415	617.8	3298.4	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	252.5	339.0	0.14006	0.15045	210.9	303.8	
			C:129076 HOLTS1-5	13.8	129427 HOLTS GT	138	1 1510							
			Open 129076 HOLTS1-5	13.8	129427 HOLTS GT	138	1	-0.19189	0.05412			-216.7	-183.3	
12416	636.6	3315.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	247.8	339.0	0.14324	0.15045	210.9	306.7	
			C:129024 NRTPTG1	22.0	129346 NRTHPT3	138	1 1505							
			Open 129024 NRTPTG1	22.0	129346 NRTHPT3	138	1	-0.11388	0.06326			-324.2	-284.0	
12417	636.6	3315.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	247.8	339.0	0.14324	0.15045	210.9	306.7	
			C:129024 NRTPTG1	22.0	129346 NRTHPT3	138	1 1505							
			Open 129024 NRTPTG1	22.0	129346 NRTHPT3	138	1	-0.11388	0.06326			-324.2	-284.0	
12418	637.3	3316.1	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	247.7	339.0	0.14327	0.15045	210.9	306.8	
			C:129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1 1506							
			Open 129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1	-0.11347	0.06326			-324.4	-284.1	
12419	637.3	3316.1	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	247.7	339.0	0.14327	0.15045	210.9	306.8	
			C:129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1 1506							
			Open 129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1	-0.11347	0.06326			-324.4	-284.1	
12420	647.9	3325.8	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1593.9	-1725.0	-0.20228	-0.16946	-1299.4	-1409.3	
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1 3							
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1	0.31399	-0.10451			-937.9	-1005.6	
12421	649.5	3327.2	L: 129310 NEWBRGE	138	129361 RULND RD	138	3	194.4	285.0	0.13955				
			Base Case											
12422	654.8	3332.0	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	240.5	339.0	0.15045	0.15045	210.9	309.4	
			C:SIN:250			1677								
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2	-0.00000	0.00000			-0.1	-0.1	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch								
12423	654.8	3332.0	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	240.5	339.0	0.15045	0.15045	210.9	309.4	
			C:SIN:250			1677								
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2	-0.00000	0.00000			-0.1	-0.1	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch								
12424	657.2	3334.2	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	60.0	379.0	0.48540	0.35707	47.8	282.5	
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1 1417							
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1	-0.36822	-0.34852			-32.9	-262.0	
12425	657.9	3334.8	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-57.0	-379.0	-0.48945	-0.34852	-32.9	-262.2	
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1 1427							

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			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1			0.33941	-0.41524	-70.8	-344.0
12426	658.8	3335.7	*L: 129310 NEWBRGE	138	129361 RULND RD	138	2	239.9	339.0	0.15045	0.15045	210.9	310.0
			C:GEN:MLS3&OMS				1574						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
12427	658.8	3335.7	*L: 129310 NEWBRGE	138	129361 RULND RD	138	1	239.9	339.0	0.15045	0.15045	210.9	310.0
			C:GEN:MILLST 3				1572						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
12432	667.1	3343.2	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	140.8	379.0	0.35707	0.35707	47.8	286.1
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1398					
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			-0.13950	0.00000	-666.2	-666.2
12433	669.0	3344.9	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-140.1	-379.0	-0.35707	-0.35707	11.9	-227.0
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	133					
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			-0.23750	-0.00000	640.2	640.2
12434	669.7	3345.6	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-139.9	-379.0	-0.35707	-0.35707	11.9	-227.2
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			0.23750	0.00000	-639.0	-639.0
12435	670.8	3346.5	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-139.5	-379.0	-0.35707	-0.35707	11.9	-227.6
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			-0.23750	-0.00000	637.4	637.4
12436	670.8	3346.5	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-139.5	-379.0	-0.35707	-0.35707	11.9	-227.6
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			0.23750	0.00000	-637.4	-637.4
12437	670.8	3346.5	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-139.5	-379.0	-0.35707	-0.35707	11.9	-227.6
			C:BUS:EGC_345				1622						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.23714	-0.00000	641.8	641.8
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00071	0.00000	-318.5	-318.5
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.22784	0.00000	4.6	4.6
12438	670.8	3346.5	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-139.5	-379.0	-0.35707	-0.35707	11.9	-227.6
			C:SPRN-BRK-345				1777						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.23714	-0.00000	641.8	641.8
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00071	0.00000	-318.5	-318.5
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.22784	0.00000	4.6	4.6
12439	674.8	3350.2	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	-11.4	-339.0	-0.48540	-0.35707	0.7	-240.3
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1417					
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1			0.36822	-0.34852	-32.9	-268.1
12442	681.9	3356.6	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1581.8	-1725.0	-0.21003	-0.16946	-1299.4	-1415.0
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.18063	0.22456	1563.1	1716.2
12443	681.9	3356.6	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1581.8	-1725.0	-0.21003	-0.16946	-1299.4	-1415.0

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			C:SIN:430			1682										
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.18063	0.22456	1563.1	1716.2		
12444	688.1	3362.2	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1			-50.3	-379.0	-0.47775	-0.34852	-32.9	-272.8	
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1426								
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1									
12445	691.0	3364.9	L: 129270 E.G.C.	138	129288 ROSLYN	138	1			-92.2	-339.0	-0.35707	-0.35707	0.7	-246.1	
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1398								
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1									
12450	697.8	3371.0	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1			47.8	297.0	0.35707				
			Base Case													
12451	699.1	3372.2	L: 126455 JAMAICA	138	129249 L SUCSPH	138	1			226.9	428.0	0.28769		90.3	90.3	
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363								
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1									
12452	700.4	3373.4	L: 126455 JAMAICA	138	129249 L SUCSPH	138	1			226.5	428.0	0.28769		90.3	90.3	
			C:BUS:SHORE_RD_345					1621								
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1									
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2									
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1									
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1									
12457	708.0	3380.2	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1			-30.8	-379.0	-0.49181	-0.35707	11.9	-240.9	
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1428								
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1									
12458	708.0	3380.3	L: 129265 CARLE PL	138	129270 E.G.C.	138	1			92.3	339.0	0.34852		0.34852	-56.1	190.7
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	133								
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1									
12459	708.8	3380.9	L: 129265 CARLE PL	138	129270 E.G.C.	138	1			92.0	339.0	0.34852		0.34852	-56.1	190.9
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373								
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1									
12460	709.8	3381.9	L: 129265 CARLE PL	138	129270 E.G.C.	138	1			91.6	339.0	0.34852		0.34852	-56.1	191.3
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394								
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1									
12461	709.8	3381.9	L: 129265 CARLE PL	138	129270 E.G.C.	138	1			91.6	339.0	0.34852		0.34852	-56.1	191.3
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395								
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1									
12462	709.9	3381.9	L: 129265 CARLE PL	138	129270 E.G.C.	138	1			91.6	339.0	0.34852		0.34852	-56.1	191.3
			C:BUS:EGC_345					1622								
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			NA						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY									
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			NA						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			NA						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			NA						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1									
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1									
12463	709.9	3381.9	L: 129265 CARLE PL	138	129270 E.G.C.	138	1			91.6	339.0	0.34852		0.34852	-56.1	191.3
			C:SPRN-BRK-345					1777								
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY									
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			NA						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			NA						
			Open 128824 EGC DUM	345	147857 DVNPT NK	345	1			NA						

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			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA										
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA										
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1						-0.00069	0.00000	-318.5	-318.5			
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1						-0.22227	0.00000	4.6	4.6			
12464	710.9	3382.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2						-1559.5	-1725.0	-0.23280		-0.17694	-1342.5	-1468.3
			C:137451 LEEDS 3	345	137455 ATHENS	345	1	1006											
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1												
12471	718.1	3389.4	L: 128835 SHORE RD	345	129293 SHORE RD	138	1		410.3	770.0	0.50089		0.50089		237.2	596.9			
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	133											
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1						0.27041	-0.00000	640.2	640.2			
12472	718.7	3390.0	L: 128835 SHORE RD	345	129293 SHORE RD	138	1		410.0	770.0	0.50089		0.50089		237.2	597.2			
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373											
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1						-0.27041	0.00000	-639.0	-639.0			
12473	719.5	3390.7	L: 128835 SHORE RD	345	129293 SHORE RD	138	1		409.6	770.0	0.50089		0.50089		237.2	597.6			
			C:BUS:EGC_345					1622											
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1												
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY						0.27029	-0.00000	641.8	641.8			
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1												
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1												
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1												
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1												
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1						-0.00024	0.00000	-318.5	-318.5			
12474	719.5	3390.7	L: 128835 SHORE RD	345	129293 SHORE RD	138	1		409.6	770.0	0.50089		0.50089		237.2	597.6			
			C:SPRN-BRK-345					1777											
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY						0.27029	-0.00000	641.8	641.8			
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1												
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1												
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1												
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1												
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1												
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1						-0.00024	0.00000	-318.5	-318.5			
12475	719.6	3390.8	L: 128835 SHORE RD	345	129293 SHORE RD	138	1		409.6	770.0	0.50089		0.50089		237.2	597.6			
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394											
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1						0.27041	-0.00000	637.4	637.4			
12476	719.6	3390.8	L: 128835 SHORE RD	345	129293 SHORE RD	138	1		409.6	770.0	0.50089		0.50089		237.2	597.6			
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395											
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1						-0.27041	0.00000	-637.4	-637.4			
12479	723.6	3394.4	L: 128835 SHORE RD	345	129293 SHORE RD	138	2		408.9	770.0	0.49911		0.49911		236.4	597.5			
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	133											
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1						0.26945	-0.00000	640.2	640.2			
12484	724.2	3394.9	L: 128835 SHORE RD	345	129293 SHORE RD	138	2		408.6	770.0	0.49911		0.49911		236.4	597.8			
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373											
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1						-0.26945	0.00000	-639.0	-639.0			
12485	724.8	3395.5	*L: 129281 GLNWD GT	138	129288 ROSLYN	138	1		27.2	379.0	0.48540		0.35707		47.8	306.6			
			C:129265 CARLE PL	138	129270 E.G.C.	138	1	1416											
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1						0.36822	0.34852	-56.1	196.5			
12486	724.9	3395.6	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1		-32.7	-379.0	-0.47775		-0.34852		-32.9	-285.6			
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1419											

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			Open 129270 E.G.C.	138	129288 ROSLYN	138	1			0.36192	-0.35707	0.7	-258.1
12487	725.0	3395.7	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	408.1	770.0	0.49911	0.49911	236.4	598.2
			C:SPRN-BRK-345				1777						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.26933	-0.00000	641.8	641.8
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00024	0.00000	-318.5	-318.5
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.25145	0.00000	4.6	4.6
12488	725.0	3395.7	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	408.1	770.0	0.49911	0.49911	236.4	598.2
			C:BUS:EGC_345				1622						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.26933	-0.00000	641.8	641.8
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00024	0.00000	-318.5	-318.5
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.25145	0.00000	4.6	4.6
12489	725.1	3395.7	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	408.1	770.0	0.49911	0.49911	236.4	598.3
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.26945	-0.00000	637.4	637.4
12490	725.1	3395.7	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	408.1	770.0	0.49911	0.49911	236.4	598.3
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.26945	0.00000	-637.4	-637.4
12496	732.8	3402.7	*L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-123.6	-379.0	-0.34852	-0.34852	-32.9	-288.3
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1398					
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			0.13611	0.00000	-666.2	-666.2
12497	733.1	3403.0	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	682.9	1416.0	1.00000	1.00000	474.9	1208.0
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1398					
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			-0.31220	0.00000	-666.2	-666.2
12503	735.9	3405.5	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-491.8	-636.0	-0.19599	0.00525	-198.3	-194.5
			C:129361 RULND RD	138	129421 HOLBROOK	138	1	1461					
			Open 129361 RULND RD	138	129421 HOLBROOK	138	1			-0.46422	0.43350	632.1	951.1
12504	738.2	3407.6	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	491.3	636.0	0.19599	-0.00525	197.9	194.0
			C:129361 RULND RD	138	129421 HOLBROOK	138	1	1461					
			Open 129361 RULND RD	138	129421 HOLBROOK	138	1			0.46422	0.43350	632.1	952.1
12505	738.5	3407.9	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	0.7	-263.0	-0.35707			
			Base Case										
12506	742.4	3411.4	*L: 129270 E.G.C.	138	129288 ROSLYN	138	1	21.3	-339.0	-0.48540	-0.35707	0.7	-264.4
			C:129265 CARLE PL	138	129270 E.G.C.	138	1	1416					
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1			-0.36822	0.34852	-56.1	202.6
12507	744.8	3413.7	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	92.7	235.0	0.19110			
			Base Case										
12515	757.7	3425.3	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-32.9	-297.0	-0.34852			
			Base Case										
12516	758.0	3425.7	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-32.0	339.0	0.48945	0.34852	-56.1	208.1
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1427					

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			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1				-0.33941	-0.41524	-70.8	-385.6
12519	766.2	3433.0	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	649.8	1416.0	1.00000		1.00000	474.9	1241.1
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1							
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1				0.39082	0.00000	447.5	447.5
12520	774.8	3440.9	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	92.9	235.0	0.18337				
			Base Case											
12527	776.4	3442.3	L: 129248 L SUCS	138	129249 L SUCSPH	138	1	-226.6	-450.0	-0.28769		0.00000	-90.0	-90.0
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1							
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.28769	1.00000	474.9	1251.3
12528	777.8	3443.6	L: 129248 L SUCS	138	129249 L SUCSPH	138	1	-226.2	-450.0	-0.28769		0.00000	-90.0	-90.0
			C:BUS:SHORE_RD_345											
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				-0.28769	0.50089	237.2	626.8
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				-0.28769	0.49911	236.4	624.6
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.00505	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1				0.00505	0.00000	-0.0	-0.0
12531	780.4	3445.9	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-0.2	-379.0	-0.48540		-0.35707	11.9	-266.7
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1							
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1				0.36822	-0.34852	-32.9	-304.9
12542	790.7	3455.3	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-38.8	339.0	0.47775		0.34852	-56.1	219.5
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1							
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1				0.36192	0.35707	47.8	330.2
12574	821.2	3483.0	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	594.8	1416.0	1.00000		1.00000	474.9	1296.1
			C:128822 E.G.C.-1	345	128825 EGC PAR	345	1							
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.37637	0.00000	-318.5	-318.5
12575	821.2	3483.0	*L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	594.8	1416.0	1.00000		1.00000	474.9	1296.1
			C:128822 E.G.C.-1	345	129270 E.G.C.	138	1							
			Open 128822 E.G.C.-1	345	129270 E.G.C.	138	1				0.37637	0.00000	318.5	318.5
12582	827.5	3488.6	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-56.3	339.0	0.47775		0.34852	-56.1	232.3
			C:129270 E.G.C.	138	129288 ROSLYN	138	1							
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1				-0.36192	-0.35707	0.7	-294.8
12589	834.5	3495.0	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-81.0	-379.0	-0.35707		-0.35707	11.9	-286.1
			C:128842 NEPTCONV	345	128847 NWBRG	345	1							
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				0.13950	0.00000	-666.2	-666.2
12592	836.0	3496.4	*L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-60.4	339.0	0.47775		0.34852	-56.1	235.3
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1							
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1				-0.36192	-0.35707	11.9	-286.6
12721	847.9	3507.2	*L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	32.6	-379.0	-0.48540		-0.35707	11.9	-290.8
			C:129265 CARLE PL	138	129270 E.G.C.	138	1							
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1				-0.36822	0.34852	-56.1	239.4
15770	855.7	3514.3	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	341.4	770.0	0.50089		0.50089	237.2	665.8
			C:128842 NEPTCONV	345	128847 NWBRG	345	1							
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				-0.15638	0.00000	-666.2	-666.2
15771	855.9	3514.4	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	91.5	165.0	0.08584		0.05817	82.8	132.5
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1							
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1				-0.07006	-0.39490	-125.3	-463.3
15807	859.0	3517.2	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-153.7	-636.0	-0.56150		-0.39490	-125.3	-464.5
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1							
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1				0.40121	-0.41524	-70.8	-427.5

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15808	859.3	3517.5	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1546.4	-1725.0	-0.20784	-0.17694	-1342.5	-1494.6	
			C:125000 HURLEY 3	345	125002	ROSETON	345	1							
			Open 125000 HURLEY 3		345	125002	ROSETON	345	1			-0.29336	0.10530	695.1	785.5
15831	861.2	3519.2	L: 128835 SHORE RD	345	129293	SHORE RD	138	2	340.2	770.0	0.49911	0.49911	236.4	666.2	
			C:128842 NEPTCONV	345	128847	NWBRG	345	1							
			Open 128842 NEPTCONV		345	128847	NWBRG	345	1			-0.15582	0.00000	-666.2	-666.2
15861	865.1	3522.8	L: 129281 GLNWD GT	138	129282	GLNWD NO	138	1	11.9	-297.0	-0.35707				
			Base Case												
15945	884.7	3540.6	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1	-286.6	-636.0	-0.39490	-0.39490	-125.3	-474.6	
			C:126299 REACBUS	345	147857	DVNPT NK	345	1							
			Open 126299 REACBUS		345	147857	DVNPT NK	345	1			-0.25205	-0.00000	640.2	640.2
15948	885.4	3541.2	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1	-286.3	-636.0	-0.39490	-0.39490	-125.3	-474.9	
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1							
			Open 128830 HMP HRBR		345	147857	DVNPT NK	345	1			0.25205	0.00000	-639.0	-639.0
15954	886.5	3542.2	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1	-285.9	-636.0	-0.39490	-0.39490	-125.3	-475.3	
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1							
			Open 128824 EGC DUM		345	128830	HMP HRBR	345	1			0.25205	0.00000	-637.4	-637.4
15955	886.5	3542.2	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1	-285.9	-636.0	-0.39490	-0.39490	-125.3	-475.3	
			C:128824 EGC DUM	345	128825	EGC PAR	345	1							
			Open 128824 EGC DUM		345	128825	EGC PAR	345	1			-0.25205	-0.00000	637.4	637.4
15956	886.5	3542.2	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1	-285.9	-636.0	-0.39490	-0.39490	-125.3	-475.3	
			C:BUS:EGC_345												
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1							
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY				-0.25174	-0.00000	641.8	641.8
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1							
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1							
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1							
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1				0.00061	0.00000	-318.5	-318.5
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1				0.24152	0.00000	4.6	4.6
15957	886.5	3542.2	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1	-285.9	-636.0	-0.39490	-0.39490	-125.3	-475.3	
			C:SPRN-BRK-345												
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY				-0.25174	-0.00000	641.8	641.8
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1							
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1							
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1							
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1							
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1				0.00061	0.00000	-318.5	-318.5
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1				0.24152	0.00000	4.6	4.6
15964	888.8	3544.3	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	324.8	770.0	0.50089	0.50089	237.2	682.4	
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1							
			Open 129343 NRTHPT P		138	129344	NRTHPT1	138	1			0.19576	0.00000	447.5	447.5
15965	889.2	3544.6	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	-122.4	-636.0	-0.57764	-0.41524	-70.8	-440.1	
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1							
			Open 129283 GLNWD SO		138	129293	SHORE RD	138	1			0.41125	-0.39490	-125.3	-476.4
15981	894.3	3549.2	L: 128835 SHORE RD	345	129293	SHORE RD	138	2	323.7	770.0	0.49911	0.49911	236.4	682.7	
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1							
			Open 129343 NRTHPT P		138	129344	NRTHPT1	138	1			0.19506	0.00000	447.5	447.5
16007	902.2	3556.5	L: 129343 NRTHPT P	138	129344	NRTHPT1	138	1	526.0	675.0	0.16519	0.00000	447.5	447.5	

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			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363											
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.16519	1.00000	474.9	1377.2					
16013	903.8	3557.9	L: 129343 NRTHPT P	138	129344 NRTHPT1	138	1		525.7	675.0	0.16519	0.00000	447.5	447.5					
			C:BUS:SHORE_RD_345					1621											
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.16519	0.50089	237.2	689.9					
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.16519	0.49911	236.4	687.4					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.02128	0.00000	1.3	1.3					
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1				-0.02128	0.00000	-0.0	-0.0					
16055	909.2	3562.8	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3		98.8	253.0	0.16955								
			Base Case																
16085	915.5	3568.5	L: 129265 CARLE PL	138	129270 E.G.C.	138	1		-56.1	263.0	0.34852								
			Base Case																
16092	916.8	3569.7	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1		-144.2	-636.0	-0.53639		-0.39490	-125.3	-487.3				
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1426											
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1				-0.39623	0.35707	47.8	375.2					
19330	941.3	3591.9	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1		-125.3	-497.0	-0.39490								
			Base Case																
19424	943.8	3594.2	*L: 128835 SHORE RD	345	129293 SHORE RD	138	1		297.3	770.0	0.50089		0.50089	237.2	710.0				
			C:128822 E.G.C.-1	345	128825 EGC PAR	345	1	1390											
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.18852	0.00000	-318.5	-318.5					
19499	947.9	3597.9	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		96.7	165.0	0.07205		0.04639	92.3	136.3				
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1427											
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1				-0.06180	-0.41524	-70.8	-464.5					
19538	949.3	3599.2	*L: 128835 SHORE RD	345	129293 SHORE RD	138	2		296.2	770.0	0.49911		0.49911	236.4	710.2				
			C:128822 E.G.C.-1	345	128825 EGC PAR	345	1	1390											
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.18785	0.00000	-318.5	-318.5					
19561	950.1	3599.9	L: 129337 HAUPAGUE	138	129393 C.ISLIP	138	1		316.0	442.0	0.13261		0.00000	122.6	122.6				
			C:129361 RULND RD	138	129421 HOLBROOK	138	1	1461											
			Open 129361 RULND RD	138	129421 HOLBROOK	138	1				0.30591	0.43350	632.1	1044.0					
21094	952.7	3602.2	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1		-125.0	-636.0	-0.53639		-0.39490	-125.3	-501.5				
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1419											
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1				0.39623	-0.35707	0.7	-339.5					
21135	955.2	3604.5	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		-239.4	-636.0	-0.41524		-0.41524	-70.8	-467.5				
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	133											
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1				-0.26322	-0.00000	640.2	640.2					
21143	956.0	3605.2	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		-239.0	-636.0	-0.41524		-0.41524	-70.8	-467.8				
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1373											
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				0.26322	0.00000	-639.0	-639.0					
21158	957.0	3606.1	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		-238.6	-636.0	-0.41524		-0.41524	-70.8	-468.2				
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1395											
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				0.26322	0.00000	-637.4	-637.4					
21159	957.0	3606.1	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		-238.6	-636.0	-0.41524		-0.41524	-70.8	-468.2				
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1394											
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1				-0.26322	-0.00000	637.4	637.4					
21160	957.0	3606.1	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		-238.6	-636.0	-0.41524		-0.41524	-70.8	-468.2				
			C:BUS:EGC_345					1622											
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA										
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.26291	-0.00000	641.8	641.8					

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			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1		0.00062	0.00000	-318.5	-318.5		
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1		0.25222	0.00000	4.6	4.6		
21161	957.0	3606.1	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1		-238.6	-636.0	-0.41524	-0.41524	-70.8	-468.2
			C:SPRN-BRK-345												1777
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY				-0.26291	-0.00000	641.8	641.8
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1		0.00062	0.00000	-318.5	-318.5		
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1		0.25222	0.00000	4.6	4.6		
21198	961.0	3609.7	*L: 129283 GLNWD SO	138	129293	SHORE RD	138	1		-120.6	-636.0	-0.53639	-0.39490	-125.3	-504.8
			C:129281 GLNWD GT	138	129282	GLNWD NO	138	1	1425						
			Open 129281 GLNWD GT	138	129282	GLNWD NO	138	1				0.39623	-0.35707	11.9	-331.2
21307	987.7	3634.0	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1		-84.4	-636.0	-0.55851	-0.41524	-70.8	-481.0
			C:129265 CARLE PL	138	129283	GLNWD SO	138	1	1417						
			Open 129265 CARLE PL	138	129283	GLNWD SO	138	1				0.41108	-0.34852	-32.9	-377.1
22993	1008.4	3652.7	L: Interface 14 Leeds-FV							3039.9	3450.0	0.40670	0.34641	2642.0	2991.3
			C:125000 HURLEY 3	345	125002	ROSETON	345	1	1						
			Open 125000 HURLEY 3	345	125002	ROSETON	345	1				0.57252	0.10530	695.1	801.2
23026	1015.1	3658.9	L: 129282 GLNWD NO	138	129587	GLNWD NO	69.0	1		85.5	165.0	0.07835	0.05817	82.8	141.8
			C:129281 GLNWD GT	138	129288	ROSLYN	138	1	1426						
			Open 129281 GLNWD GT	138	129288	ROSLYN	138	1				0.05652	0.35707	47.8	410.3
23053	1026.3	3669.0	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1		-70.8	-497.0	-0.41524			
			Base Case												
23107	1043.0	3684.2	L: 128822 E.G.C.-1	345	128825	EGC PAR	345	1		-430.0	-675.0	-0.23486	0.00000	-318.5	-318.5
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1363						
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				-0.23486	1.00000	474.9	1517.9
23108	1043.1	3684.2	L: 128822 E.G.C.-1	345	129270	E.G.C.	138	1		430.0	675.0	0.23486	0.00000	318.5	318.5
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1363						
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				0.23486	1.00000	474.9	1518.0
23110	1044.3	3685.3	L: 128822 E.G.C.-1	345	128825	EGC PAR	345	1		-429.7	-675.0	-0.23486	0.00000	-318.5	-318.5
			C:BUS:SHORE_RD_345												1621
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1				-0.23486	0.50089	237.2	760.3
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2				-0.23486	0.49911	236.4	757.6
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				-0.01584	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266	DUNWODIE	345	1				-0.01584	0.00000	-0.0	-0.0
23111	1044.3	3685.4	L: 128822 E.G.C.-1	345	129270	E.G.C.	138	1		429.7	675.0	0.23486	0.00000	318.5	318.5
			C:BUS:SHORE_RD_345												1621
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1				0.23486	0.50089	237.2	760.3
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2				0.23486	0.49911	236.4	757.6
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				0.01584	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266	DUNWODIE	345	1				0.01584	0.00000	-0.0	-0.0
23133	1050.1	3690.7	L: 129282 GLNWD NO	138	129587	GLNWD NO	69.0	1		82.7	165.0	0.07835	0.05817	82.8	143.8
			C:129270 E.G.C.	138	129288	ROSLYN	138	1	1419						

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			Open 129270 E.G.C.	138	129288	ROSLYN	138	1				-0.05652	-0.35707	0.7	-374.3	
23146	1053.2	3693.4	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	-47.8	-636.0	-0.55851		-0.41524	-70.8	-508.2	
			C:129265 CARLE PL	138	129270	E.G.C.	138	1								
			Open 129265 CARLE PL	138	129270	E.G.C.	138	1								
23156	1055.1	3695.1	L: 128823 E.G.C.-2	345	128825	EGC PAR	345	1	-429.3	-675.0	-0.23288		-0.41108	0.34852	-56.1	311.0
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1				1363				
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1					-0.23288	1.00000	474.9	1530.0
23160	1056.0	3695.9	L: 128823 E.G.C.-2	345	129271	E.G.C.-2	138	1	429.1	675.0	0.23288			0.00000	318.5	318.5
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1				1363				
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1					0.23288	1.00000	474.9	1530.9
23163	1056.3	3696.3	L: 128823 E.G.C.-2	345	128825	EGC PAR	345	1	-429.0	-675.0	-0.23288			0.00000	-318.7	-318.7
			C:BUS:SHORE_RD_345									1621				
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1					-0.23288	0.50089	237.2	766.3
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2					-0.23288	0.49911	236.4	763.6
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1					-0.01574	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266	DUNWODIE	345	1					-0.01574	0.00000	-0.0	-0.0
23174	1057.2	3697.1	L: 128823 E.G.C.-2	345	129271	E.G.C.-2	138	1	428.8	675.0	0.23288			0.00000	318.5	318.5
			C:BUS:SHORE_RD_345									1621				
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1					0.23288	0.50089	237.2	766.8
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2					0.23288	0.49911	236.4	764.0
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1					0.01574	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266	DUNWODIE	345	1					0.01574	0.00000	-0.0	-0.0
23178	1057.6	3697.4	L: 129282 GLNWD NO	138	129587	GLNWD NO	69.0	1	96.3	165.0	0.06497			0.05817	82.8	144.3
			C:129283 GLNWD SO	138	129588	GLNWD SO	69.0	1				1525				
			Open 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1					0.14657	0.04639	92.3	141.4
23180	1058.2	3698.0	L: 129282 GLNWD NO	138	129587	GLNWD NO	69.0	1	82.1	165.0	0.07835			0.05817	82.8	144.3
			C:129281 GLNWD GT	138	129282	GLNWD NO	138	1				1425				
			Open 129281 GLNWD GT	138	129282	GLNWD NO	138	1					-0.05652	-0.35707	11.9	-366.0
26590	1090.9	3727.6	L: 146758 CHESTER	138	146773	SGRLF138	138	1	263.3	317.0	0.04919			0.02714	132.8	162.4
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1				7				
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1					0.11210	0.19677	1164.5	1379.2
26591	1090.9	3727.6	L: 146758 CHESTER	138	146773	SGRLF138	138	1	263.3	317.0	0.04919			0.02714	132.8	162.4
			C:SIN:440									1683				
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1					0.11210	0.19677	1164.5	1379.2
26601	1091.3	3728.0	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1046.1	-1207.0	-0.14747					
			Base Case													
28262	1105.7	3741.0	L: 129282 GLNWD NO	138	129587	GLNWD NO	69.0	1	84.2	165.0	0.07310			0.05817	82.8	147.1
			C:129265 CARLE PL	138	129283	GLNWD SO	138	1				1417				
			Open 129265 CARLE PL	138	129283	GLNWD SO	138	1					-0.04286	-0.34852	-32.9	-418.3
28275	1109.6	3744.6	*L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	-175.2	-636.0	-0.41524			-0.41524	-70.8	-531.6
			C:128842 NEPTCONV	345	128847	NWBRG	345	1				1398				
			Open 128842 NEPTCONV	345	128847	NWBRG	345	1					0.15670	0.00000	-666.2	-666.2
28365	1130.8	3763.8	L: 129282 GLNWD NO	138	129587	GLNWD NO	69.0	1	99.2	165.0	0.05817			0.05817	82.8	148.5
			C:126299 REACBUS	345	147857	DVNPT NK	345	1				133				
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1					0.02572	-0.00000	640.2	640.2
28377	1131.3	3764.3	L: 129282 GLNWD NO	138	129587	GLNWD NO	69.0	1	99.2	165.0	0.05817			0.05817	82.8	148.6
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1				1373				
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1					-0.02572	0.00000	-639.0	-639.0

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28391	1132.0	3764.9	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	99.2	165.0	0.05817	0.05817	82.8	148.6
			C:SPRN-BRK-345				1777						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.02577	-0.00000	641.8	641.8
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00010	0.00000	-318.5	-318.5
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.02438	0.00000	4.6	4.6
28392	1132.0	3764.9	*L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	99.2	165.0	0.05817	0.05817	82.8	148.6
			C:BUS:EGC_345				1622						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.02577	-0.00000	641.8	641.8
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00010	0.00000	-318.5	-318.5
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.02438	0.00000	4.6	4.6
29879	1134.4	3767.1	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1499.2	-1725.0	-0.19903	-0.17694	-1342.5	-1543.2
			C:130750 COOPC345	345	130753 FRASR345	345	1	192					
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.14980	-0.14747	-1046.1	-1213.4
29990	1144.0	3775.8	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	93.8	165.0	0.06222	0.04639	92.3	145.4
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1417					
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1			-0.04543	-0.34852	-32.9	-431.6
30000	1147.4	3778.9	L: 126299 REACBUS	345	147857 DVNPT NK	345	1	862.3	1399.0	0.46773	-0.00000	640.2	640.2
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.46773	1.00000	474.9	1622.3
30003	1148.7	3780.0	L: 126299 REACBUS	345	147857 DVNPT NK	345	1	861.7	1399.0	0.46773	-0.00000	640.2	640.2
			C:BUS:SHORE_RD_345				1621						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.46773	0.50089	237.2	812.6
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.46773	0.49911	236.4	809.7
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.03157	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1			0.03157	0.00000	-0.0	-0.0
30005	1149.5	3780.8	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	103.0	165.0	0.05391	0.04639	92.3	145.6
			C:129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	1524					
			Open 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1			0.12933	0.05817	82.8	149.6
30016	1153.4	3784.3	L: 128824 EGC DUM	345	128830 HMP HRBR	345	1	-859.5	-1399.0	-0.46773	0.00000	-637.4	-637.4
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.46773	1.00000	474.9	1628.3
30017	1153.4	3784.3	L: 128824 EGC DUM	345	128825 EGC PAR	345	1	859.5	1399.0	0.46773	-0.00000	637.4	637.4
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.46773	1.00000	474.9	1628.3
30020	1154.6	3785.4	L: 128824 EGC DUM	345	128825 EGC PAR	345	1	859.0	1399.0	0.46773	-0.00000	637.4	637.4
			C:BUS:SHORE_RD_345				1621						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.46773	0.50089	237.2	815.5
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.46773	0.49911	236.4	812.6
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.03157	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1			0.03157	0.00000	-0.0	-0.0

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30021	1154.6	3785.4	L: 128824 EGC DUM	345	128830 HMP HRBR	345	1	-859.0	-1399.0	-0.46773	0.00000	-637.4	-637.4
			C:BUS:SHORE_RD_345				1621						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			-0.46773	0.50089	237.2	815.5
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			-0.46773	0.49911	236.4	812.6
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.03157	0.00000	1.3	1.3
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1			-0.03157	0.00000	-0.0	-0.0
30035	1164.2	3794.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1493.5	-1725.0	-0.19886	-0.16946	-1299.4	-1496.7
			C:125000 HURLEY 3	345	125002 ROSETON	345	1						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1			-0.27917	0.10530	695.1	817.7
30069	1209.0	3834.8	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	89.8	165.0	0.06222	0.04639	92.3	148.4
			C:129265 CARLE PL	138	129270 E.G.C.	138	1						
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1			0.04543	0.34852	-56.1	365.3
30071	1211.3	3836.9	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	94.0	165.0	0.05864	0.04639	92.3	148.5
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1						
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1			0.03432	0.35707	47.8	480.4
30082	1219.7	3844.5	L: Interface 11 DUN-SOUTH OP					5036.3	6256.0	1.00000			
			Base Case										
30095	1233.1	3856.6	L: 129421 HOLBROOK	138	129806 HOLBRK1	69.0	1	277.1	318.0	0.03320	0.02816	237.5	272.2
			C:129421 HOLBROOK	138	129807 HOLBRK2	69.0	2						
			Open 129421 HOLBROOK	138	129807 HOLBRK2	69.0	2			0.39913	0.01264	99.1	114.7
30098	1239.7	3862.6	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	92.3	165.0	0.05864	0.04639	92.3	149.8
			C:129270 E.G.C.	138	129288 ROSLYN	138	1						
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1			-0.03432	-0.35707	0.7	-442.0
30102	1246.3	3868.6	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	91.9	165.0	0.05864	0.04639	92.3	150.1
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1						
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1			-0.03432	-0.35707	11.9	-433.1
30110	1257.0	3878.3	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1442.1	-1724.0	-0.22429	-0.14365	-923.2	-1103.8
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2						
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.56510	-0.14271	-918.1	-1097.5
30113	1259.3	3880.4	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	32.8	491.0	0.36388	0.19110	92.7	333.3
			C:129270 E.G.C.	138	129271 E.G.C.-2	138	1						
			Open 129270 E.G.C.	138	129271 E.G.C.-2	138	1			0.45852	0.37683	-130.7	343.9
30117	1264.1	3884.8	L: Interface 42 K-to-I					-1550.9	-2815.0	-1.00000	-1.00000	-1115.1	-2379.2
			C:128842 NEPTCONV	345	128847 NWBRG	345	1						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			0.65417	0.00000	-666.2	-666.2
30118	1264.1	3884.8	L: Interface 41 I-to-K					1550.9	2815.0	1.00000	1.00000	1115.1	2379.2
			C:128842 NEPTCONV	345	128847 NWBRG	345	1						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			-0.65417	0.00000	-666.2	-666.2
30130	1275.2	3894.9	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1438.7	-1724.0	-0.22371	-0.14271	-918.1	-1100.1
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1						
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.56390	-0.14365	-923.2	-1106.4
30131	1276.5	3896.0	L: 129310 NEWBRGE	138	129361 RULND RD	138	3	252.2	483.0	0.18081	0.13955	194.4	372.5
			C:129310 NEWBRGE	138	129361 RULND RD	138	2						
			Open 129310 NEWBRGE	138	129361 RULND RD	138	2			0.27427	0.15045	210.9	402.9
30132	1276.5	3896.0	L: 129310 NEWBRGE	138	129361 RULND RD	138	3	252.2	483.0	0.18081	0.13955	194.4	372.5
			C:129310 NEWBRGE	138	129361 RULND RD	138	1						
			Open 129310 NEWBRGE	138	129361 RULND RD	138	1			0.27427	0.15045	210.9	402.9
30134	1277.4	3896.8	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	100.4	165.0	0.05057	0.04639	92.3	151.6

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			C:129248 L SUCS	138	129543	LKE SCSS	69.0	1	1521										
			Open 129248 L SUCS		138	129543	LKE SCSS	69.0	1				0.06530	0.06407	123.7	205.5			
30151	1285.8	3904.5	L: 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1		105.4	165.0	0.04639		0.04639	92.3	152.0			
			C:126299 REACBUS	345	147857	DVNPT NK	345	1	133										
			Open 126299 REACBUS		345	147857	DVNPT NK	345	1				0.02035	-0.00000	640.2	640.2			
30153	1286.3	3904.9	*L: 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1		105.3	165.0	0.04639		0.04639	92.3	152.0			
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1	1373										
			Open 128830 HMP HRBR		345	147857	DVNPT NK	345	1				-0.02035	0.00000	-639.0	-639.0			
30190	1289.3	3907.6	L: Interface 14 Leeds-PV							2947.8	3450.0	0.38952		0.34641	2642.0	3088.6			
			C:130750 COOPC345	345	130753	FRASR345	345	1	192										
			Open 130750 COOPC345		345	130753	FRASR345	345	1				-0.29235	-0.14747	-1046.1	-1236.2			
30907	1340.6	3954.1	L: Interface 42 K-to-I							-1474.4	-2815.0	-1.00000		-1.00000	-1115.1	-2455.6			
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1	1451										
			Open 129343 NRTHPT P		138	129344	NRTHPT1	138	1				-0.80303	0.00000	447.5	447.5			
30908	1340.6	3954.1	L: Interface 41 I-to-K							1474.4	2815.0	1.00000		1.00000	1115.1	2455.6			
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1	1451										
			Open 129343 NRTHPT P		138	129344	NRTHPT1	138	1				0.80303	0.00000	447.5	447.5			
30909	1414.4	4021.1	L: Interface 43 J-to-K							349.8	869.0	0.36707		0.00000	175.5	175.5			
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1363										
			Open 126266 DUNWODIE		345	128835	SHORE RD	345	1				0.36707	1.00000	474.9	1889.3			
30910	1414.4	4021.1	L: Interface 44 K-to-J							-349.8	-869.0	-0.36707		0.00000	-175.5	-175.5			
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1363										
			Open 126266 DUNWODIE		345	128835	SHORE RD	345	1				-0.36707	1.00000	474.9	1889.3			
30911	1415.8	4022.4	L: Interface 44 K-to-J							-349.3	-869.0	-0.36707		0.00000	-175.5	-175.5			
			C:BUS:SHORE_RD_345						1621										
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1					-0.36707	0.50089	237.2	946.3			
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2					-0.36707	0.49911	236.4	943.0			
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1					0.01030	0.00000	1.3	1.3			
			Open 150 DUNWD SW	0.0	126266	DUNWODIE	345	1					0.01030	0.00000	-0.0	-0.0			
30912	1415.8	4022.4	L: Interface 43 J-to-K							349.3	869.0	0.36707		0.00000	175.5	175.5			
			C:BUS:SHORE_RD_345						1621										
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1					0.36707	0.50089	237.2	946.3			
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2					0.36707	0.49911	236.4	943.0			
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1					-0.01030	0.00000	1.3	1.3			
			Open 150 DUNWD SW	0.0	126266	DUNWODIE	345	1					-0.01030	0.00000	-0.0	-0.0			
30913	1565.5	4158.2	L: Interface 41 I-to-K							1308.6	2815.0	0.96225		1.00000	1115.1	2680.6			
			C:129027 NRTPTG4	22.0	129342	NRTHPRT2	138	1	1508										
			Open 129027 NRTPTG4		22.0	129342	NRTHPRT2	138	1				-0.59677	0.06326	-324.3	-225.3			
30914	1565.5	4158.2	L: Interface 42 K-to-I							-1308.6	-2815.0	-0.96225		-1.00000	-1115.1	-2680.6			
			C:129027 NRTPTG4	22.0	129342	NRTHPRT2	138	1	1508										
			Open 129027 NRTPTG4		22.0	129342	NRTHPRT2	138	1				0.59677	0.06326	-324.3	-225.3			
30915	1565.5	4158.2	L: Interface 41 I-to-K							1308.6	2815.0	0.96225		1.00000	1115.1	2680.6			
			C:129026 NRTPTG3	22.0	129342	NRTHPRT2	138	1	1507										
			Open 129026 NRTPTG3		22.0	129342	NRTHPRT2	138	1				-0.59677	0.06326	-324.3	-225.2			
30916	1565.5	4158.2	L: Interface 42 K-to-I							-1308.6	-2815.0	-0.96225		-1.00000	-1115.1	-2680.6			
			C:129026 NRTPTG3	22.0	129342	NRTHPRT2	138	1	1507										
			Open 129026 NRTPTG3		22.0	129342	NRTHPRT2	138	1				0.59677	0.06326	-324.3	-225.2			
30917	1570.0	4162.3	L: Interface 41 I-to-K							1245.0	2815.0	1.00000		1.00000	1115.1	2685.1			

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C:SIN:250                                1677
  Open 100508 SANDB115      115 100509 SB RCTOR      115 2                    -0.00002 0.00000  -0.1  -0.1
  Remove unit 3 from bus 103563 MILL#3       24.0 1276.0 MW dispatch
30918 1570.0 4162.3 L: Interface 42 K-to-I                    -1245.0 -2815.0 -1.00000  -1.00000 -1115.1 -2685.1
C:SIN:250                                1677
  Open 100508 SANDB115      115 100509 SB RCTOR      115 2                    0.00002 0.00000  -0.1  -0.1
  Remove unit 3 from bus 103563 MILL#3       24.0 1276.0 MW dispatch
30919 1572.6 4164.6 L: Interface 42 K-to-I                    -1242.4 -2815.0 -1.00000  -1.00000 -1115.1 -2687.7
C:GEN:MLS3&OMS                            1574
  Open 100508 SANDB115      115 100509 SB RCTOR      115 2                    0.00002 0.00000  -0.1  -0.1
  Remove unit 3 from bus 103563 MILL#3       24.0 1276.0 MW dispatch
30920 1572.6 4164.6 L: Interface 42 K-to-I                    -1242.4 -2815.0 -1.00000  -1.00000 -1115.1 -2687.7
C:GEN:MILLST 3                             1572
  Remove unit 3 from bus 103563 MILL#3       24.0 1276.0 MW dispatch
30921 1572.6 4164.6 L: Interface 41 I-to-K                    1242.4  2815.0  1.00000   1.00000  1115.1  2687.7
C:GEN:MILLST 3                             1572
  Remove unit 3 from bus 103563 MILL#3       24.0 1276.0 MW dispatch
30922 1572.6 4164.6 L: Interface 41 I-to-K                    1242.4  2815.0  1.00000   1.00000  1115.1  2687.7
C:GEN:MLS3&OMS                            1574
  Open 100508 SANDB115      115 100509 SB RCTOR      115 2                    -0.00002 0.00000  -0.1  -0.1
  Remove unit 3 from bus 103563 MILL#3       24.0 1276.0 MW dispatch
30923 1572.8 4164.8 L: Interface 42 K-to-I                    -1298.4 -2815.0 -0.96426  -1.00000 -1115.1 -2687.9
C:129025 NRTPTG2      22.0 129341 NRTHPRT1      138 1 1506
  Open 129025 NRTPTG2      22.0 129341 NRTHPRT1      138 1                    0.56494 0.06326  -324.4  -224.9
30924 1572.8 4164.8 L: Interface 41 I-to-K                    1298.4  2815.0  0.96426   1.00000  1115.1  2687.9
C:129025 NRTPTG2      22.0 129341 NRTHPRT1      138 1 1506
  Open 129025 NRTPTG2      22.0 129341 NRTHPRT1      138 1                    -0.56494 0.06326  -324.4  -224.9
30925 1572.9 4164.9 L: Interface 41 I-to-K                    1298.3  2815.0  0.96426   1.00000  1115.1  2688.0
C:129024 NRTPTG1      22.0 129346 NRTHPT3       138 1 1505
  Open 129024 NRTPTG1      22.0 129346 NRTHPT3       138 1                    -0.56497 0.06326  -324.2  -224.7
30926 1572.9 4164.9 L: Interface 42 K-to-I                    -1298.3 -2815.0 -0.96426  -1.00000 -1115.1 -2688.0
C:129024 NRTPTG1      22.0 129346 NRTHPT3       138 1 1505
  Open 129024 NRTPTG1      22.0 129346 NRTHPT3       138 1                    0.56497 0.06326  -324.2  -224.7
30927 1587.9 4178.5*L: Interface 41 I-to-K                    1317.7  2815.0  0.94295   1.00000  1115.1  2703.0
C:128880 SHMHVDCL      192 129459 SHOREHAM      138 1 1401
  Open 128880 SHMHVDCL      192 129459 SHOREHAM      138 1                    -0.61492 0.09278  -329.5  -182.2
30928 1587.9 4178.5*L: Interface 42 K-to-I                    -1317.7 -2815.0 -0.94295  -1.00000 -1115.1 -2703.0
C:128880 SHMHVDCL      192 129459 SHOREHAM      138 1 1401
  Open 128880 SHMHVDCL      192 129459 SHOREHAM      138 1                    0.61492 0.09278  -329.5  -182.2
30935 1620.9 4208.4 L: Interface 14 Leeds-PV                2868.0  3450.0  0.35905   0.34641  2642.0  3203.4
C:SIN:120                                1667
  Open 126263 BUCHANAN S     345 126291 MILLWOOD      345 1                    0.08505 0.07434  800.4  920.9
  Open 126263 BUCHANAN S     345 126291 MILLWOOD      345 2                    0.08505 0.07434  800.4  920.9
  Open 126263 BUCHANAN S     345 126290 LADENTWN      345 1                    -0.08386 0.00000   40.4  40.4
  Open 126263 BUCHANAN S     345 147832 IP3 345        345 1          NA
  Open 147798 IP#3 GEN       22.0 147832 IP3 345        345 1          NA
  Open 147798 IP#3 GEN       22.0 147832 IP3 345        345 2          NA
  Remove unit 1 from bus 147798 IP#3 GEN       22.0 1072.8 MW dispatch

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30936	1620.9	4208.4	L: Interface	14 Leeds-PV		2868.0	3450.0	0.35905		0.34641	2642.0	3203.4
			C:SIN:130									
			Open	126263 BUCHANAN S	345 126291 MILLWOOD	345 1			0.08505	0.07434	800.4	920.9
			Open	126263 BUCHANAN S	345 126291 MILLWOOD	345 2			0.08505	0.07434	800.4	920.9
			Open	126263 BUCHANAN S	345 126290 LADENTWN	345 1			-0.08386	0.00000	40.4	40.4
			Open	126263 BUCHANAN S	345 147832 IP3 345	345 1						
			Open	147798 IP#3 GEN	22.0 147832 IP3 345	345 1						
			Open	147798 IP#3 GEN	22.0 147832 IP3 345	345 2						
			Remove unit	1 from bus 147798 IP#3 GEN	22.0 1072.8 MW	dispatch						
30995	1682.6	4264.4	L: Interface	50 PJMCentral-C		-56.9	0.0	0.03384		0.03384	-147.9	-91.0
			C:GEN:9 MI PT2									
			Remove unit	2 from bus 136700 9M PT 2G	25.0 1197.5 MW	dispatch						
30996	1682.6	4264.4	L: Interface	49 C-PJMCentral		56.9	-0.0	-0.03384		-0.03384	147.9	91.0
			C:GEN:9 MI PT2									
			Remove unit	2 from bus 136700 9M PT 2G	25.0 1197.5 MW	dispatch						
32873	1810.4	4380.4	L: Interface	14 Leeds-PV		2788.2	3450.0	0.36557		0.34641	2642.0	3269.1
			C:SER:CMT34&MTR34									
			Open	130750 COOPC345	345 146754 MDTN TAP	345 1			0.18285	0.12802	909.7	1141.5
			Open	125001 ROCK TAV	345 146754 MDTN TAP	345 1			0.04449	-0.09547	-452.5	-625.3
32874	1812.2	4382.0	L: Interface	50 PJMCentral-C		-62.9	-0.0	0.03471		0.03384	-147.9	-86.6
			C:HQ-NY-765-New									
			Open	147827 MARCY765	765 147828 MASS 765	765 1						
			Open	147828 MASS 765	765 180819 CHA-NY	765 1						
			Open	147827 MARCY765	765 147833 MARCY T1	345 1			0.01638	0.02841	625.8	677.3
			Open	147827 MARCY765	765 147833 MARCY T1	345 2			0.01638	0.02470	544.6	589.3
			Open	156 MCV765SW	0.0 147827 MARCY765	765 1						
			Open	147838 MASS230B	230 147839 MOSES E	230 1			0.00000	-0.02656	9.3	-38.8
			Open	147828 MASS 765	765 147838 MASS230B	230 1						
			Open	147837 MASS230A	230 147839 MOSES E	230 1			-0.06020	0.00000	18.8	18.8
			Open	147828 MASS 765	765 147837 MASS230A	230 1						
			Open	158 MS765SW2	0.0 147828 MASS 765	765 1						
			Open	157 MS765SW1	0.0 147828 MASS 765	765 1						
			Decrease bus	180001 BEA-DLX	13.8 generation by	100.0 percent						
			Set bus	181319 CHAT G3	120 load to	357.0 MW						
			Decrease bus	180002 BEA-DL	13.8 generation by	100.0 percent						
			Set bus	181419 CHAT G4	120 load to	357.0 MW						
32875	1812.2	4382.0	L: Interface	49 C-PJMCentral		62.9	0.0	-0.03471		-0.03384	147.9	86.6
			C:HQ-NY-765-New									
			Open	147827 MARCY765	765 147828 MASS 765	765 1						
			Open	147828 MASS 765	765 180819 CHA-NY	765 1						
			Open	147827 MARCY765	765 147833 MARCY T1	345 1			-0.01638	0.02841	625.8	677.3
			Open	147827 MARCY765	765 147833 MARCY T1	345 2			-0.01638	0.02470	544.6	589.3
			Open	156 MCV765SW	0.0 147827 MARCY765	765 1						
			Open	147838 MASS230B	230 147839 MOSES E	230 1			-0.00000	-0.02656	9.3	-38.8
			Open	147828 MASS 765	765 147838 MASS230B	230 1						
			Open	147837 MASS230A	230 147839 MOSES E	230 1			0.06020	0.00000	18.8	18.8
			Open	147828 MASS 765	765 147837 MASS230A	230 1						
			Open	158 MS765SW2	0.0 147828 MASS 765	765 1						

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			Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA						
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch						
32880	1836.1	4403.7	L: Interface	29	ConEd-LIPA					1847.9	3684.0	1.00000		1.00000	1290.6	3126.6		
			C:128842	NEPTCONV	345	128847	NWBRG	345	1	1398								
			Open	128842	NEPTCONV	345	128847	NWBRG	345	1			-0.83662	0.00000	-666.2	-666.2		
32881	1907.8	4468.8	L: Interface	14	Leeds-PV					2753.2	3450.0	0.36521		0.34641	2642.0	3302.9		
			C:SIN:440							1683								
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			0.09556	0.19677	1164.5	1539.9		
32882	1938.1	4496.2	*L: Interface	14	Leeds-PV					2778.6	3450.0	0.34641		0.34641	2642.0	3313.3		
			C:GEN:IND	PT 3						1555								
			Remove	unit 1	from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch						
32884	1945.9	4503.3	L: Interface	29	ConEd-LIPA					1738.1	3684.0	1.00000		1.00000	1290.6	3236.5		
			C:129343	NRTHPT P	138	129344	NRTHPT1	138	1	1451								
			Open	129343	NRTHPT P	138	129344	NRTHPT1	138	1			1.00000	0.00000	447.5	447.5		
32915	2203.6	4737.1	L: Interface	29	ConEd-LIPA					1480.4	3684.0	1.00000		1.00000	1290.6	3494.2		
			C:SIN:250							1677								
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2			-0.00003	0.00000	-0.1	-0.1		
			Remove	unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch							
32917	2208.5	4741.6	L: Interface	29	ConEd-LIPA					1475.5	3684.0	1.00000		1.00000	1290.6	3499.1		
			C:GEN:MILLST	3						1572								
			Remove	unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch							
32918	2208.5	4741.6	L: Interface	29	ConEd-LIPA					1475.5	3684.0	1.00000		1.00000	1290.6	3499.1		
			C:GEN:MLS3&OMS							1574								
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2			-0.00003	0.00000	-0.1	-0.1		
			Remove	unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch							
32935	2254.1	4782.9	L: Interface	29	ConEd-LIPA					1539.2	3684.0	0.95150		1.00000	1290.6	3544.7		
			C:129027	NRTPTG4	22.0	129342	NRTHPRT2	138	1	1508								
			Open	129027	NRTPTG4	22.0	129342	NRTHPRT2	138	1			-0.76675	0.06326	-324.3	-181.7		
32936	2254.1	4782.9	L: Interface	29	ConEd-LIPA					1539.2	3684.0	0.95150		1.00000	1290.6	3544.7		
			C:129026	NRTPTG3	22.0	129342	NRTHPRT2	138	1	1507								
			Open	129026	NRTPTG3	22.0	129342	NRTHPRT2	138	1			-0.76675	0.06326	-324.3	-181.7		
32937	2255.8	4784.4	L: Interface	29	ConEd-LIPA					1428.2	3684.0	1.00000		1.00000	1290.6	3546.4		
			C:GEN:SEAB&OMS							1575								
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2			-0.00003	0.00000	-0.1	-0.1		
			Remove	unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch							
32938	2255.8	4784.4	L: Interface	29	ConEd-LIPA					1428.2	3684.0	1.00000		1.00000	1290.6	3546.4		
			C:GEN:SEABROOK							1573								
			Remove	unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch							
32939	2261.5	4789.6	*L: Interface	29	ConEd-LIPA					1526.5	3684.0	0.95400		1.00000	1290.6	3552.1		
			C:129025	NRTPTG2	22.0	129341	NRTHPRT1	138	1	1506								
			Open	129025	NRTPTG2	22.0	129341	NRTHPRT1	138	1			-0.72720	0.06326	-324.4	-181.4		
33840	2361.1	4880.0	L: Interface	49	C-PJMCentral					79.9	-0.0	-0.03384		-0.03384	147.9	68.0		
			C:	91	JEFFERSN	500	126250	RAMAPO 5	500	1	1351							
			Open	91	JEFFERSN	500	126250	RAMAPO 5	500	1			-0.06797	0.00000	1000.9	1000.9		
33841	2361.1	4880.0	L: Interface	50	PJMCentral-C					-79.9	0.0	0.03384		0.03384	-147.9	-68.0		

LIPA_Import(w LIPAImportMax)

			C:	91	JEFFERSN	500	126250	RAMAPO	5	500	1	1351							
			Open	91	JEFFERSN	500	126250	RAMAPO	5	500	1			0.06797	0.00000	1000.9	1000.9		
34852	2715.3	5201.3	L:	Interface	28	LIPA	Import						3062.4	5354.0	0.84396		0.90722	2737.9	5201.3
			C:	129025	NRTPTG2	22.0	129341	NRTHPRT1	138	1	1506								
			Open	129025	NRTPTG2	22.0	129341	NRTHPRT1	138	1				-1.00000	0.06326	-324.4	-152.7		
34853	2715.3	5201.3	L:	Interface	64	LIPA	Export						-3062.4	-5354.0	-0.84396		-0.90722	-2737.9	-5201.3
			C:	129025	NRTPTG2	22.0	129341	NRTHPRT1	138	1	1506								
			Open	129025	NRTPTG2	22.0	129341	NRTHPRT1	138	1				1.00000	0.06326	-324.4	-152.7		
34854	2715.5	5201.5	L:	Interface	64	LIPA	Export						-3062.2	-5354.0	-0.84396		-0.90722	-2737.9	-5201.5
			C:	129027	NRTPTG4	22.0	129342	NRTHPRT2	138	1	1508								
			Open	129027	NRTPTG4	22.0	129342	NRTHPRT2	138	1				1.00000	0.06326	-324.3	-152.5		
34855	2715.5	5201.5	L:	Interface	28	LIPA	Import						3062.2	5354.0	0.84396		0.90722	2737.9	5201.5
			C:	129027	NRTPTG4	22.0	129342	NRTHPRT2	138	1	1508								
			Open	129027	NRTPTG4	22.0	129342	NRTHPRT2	138	1				-1.00000	0.06326	-324.3	-152.5		
34856	2715.5	5201.5	L:	Interface	64	LIPA	Export						-3062.2	-5354.0	-0.84396		-0.90722	-2737.9	-5201.5
			C:	129026	NRTPTG3	22.0	129342	NRTHPRT2	138	1	1507								
			Open	129026	NRTPTG3	22.0	129342	NRTHPRT2	138	1				1.00000	0.06326	-324.3	-152.5		
34857	2715.5	5201.5	L:	Interface	28	LIPA	Import						3062.2	5354.0	0.84396		0.90722	2737.9	5201.5
			C:	129026	NRTPTG3	22.0	129342	NRTHPRT2	138	1	1507								
			Open	129026	NRTPTG3	22.0	129342	NRTHPRT2	138	1				-1.00000	0.06326	-324.3	-152.5		
34858	2715.6	5201.5	L:	Interface	64	LIPA	Export						-3062.2	-5354.0	-0.84396		-0.90722	-2737.9	-5201.5
			C:	129024	NRTPTG1	22.0	129346	NRTHPT3	138	1	1505								
			Open	129024	NRTPTG1	22.0	129346	NRTHPT3	138	1				1.00000	0.06326	-324.2	-152.5		
34859	2715.6	5201.5	L:	Interface	28	LIPA	Import						3062.2	5354.0	0.84396		0.90722	2737.9	5201.5
			C:	129024	NRTPTG1	22.0	129346	NRTHPT3	138	1	1505								
			Open	129024	NRTPTG1	22.0	129346	NRTHPT3	138	1				-1.00000	0.06326	-324.2	-152.5		
34863	2797.7	5276.1	L:	Interface	28	LIPA	Import						2881.9	5354.0	0.88361		0.90722	2737.9	5276.1
			C:	128910	BRTG9-12	13.8	129203	BARRETT2	138	1	1502								
			Open	128910	BRTG9-12	13.8	129203	BARRETT2	138	1				-1.00000	0.02362	-144.0	-77.9		
34864	2797.7	5276.1	L:	Interface	64	LIPA	Export						-2881.9	-5354.0	-0.88361		-0.90722	-2737.9	-5276.1
			C:	128910	BRTG9-12	13.8	129203	BARRETT2	138	1	1502								
			Open	128910	BRTG9-12	13.8	129203	BARRETT2	138	1				1.00000	0.02362	-144.0	-77.9		
34865	2811.8	5288.9	L:	Interface	28	LIPA	Import						2897.9	5354.0	0.87348		0.90722	2737.9	5288.9
			C:	128900	BARETG1	20.0	129202	BARRETT1	138	1	1499								
			Open	128900	BARETG1	20.0	129202	BARRETT1	138	1				-1.00000	0.03374	-160.0	-65.1		
34866	2811.8	5288.9	L:	Interface	64	LIPA	Export						-2897.9	-5354.0	-0.87348		-0.90722	-2737.9	-5288.9
			C:	128900	BARETG1	20.0	129202	BARRETT1	138	1	1499								
			Open	128900	BARETG1	20.0	129202	BARRETT1	138	1				1.00000	0.03374	-160.0	-65.1		
34867	2812.4	5289.4	L:	Interface	28	LIPA	Import						2897.4	5354.0	0.87348		0.90722	2737.9	5289.4
			C:	129093	PTJEFG4	20.0	129449	PT JEFF2	138	1	1512								
			Open	129093	PTJEFG4	20.0	129449	PT JEFF2	138	1				-1.00000	0.03374	-159.5	-64.6		
34868	2812.4	5289.4	L:	Interface	64	LIPA	Export						-2897.4	-5354.0	-0.87348		-0.90722	-2737.9	-5289.4
			C:	129093	PTJEFG4	20.0	129449	PT JEFF2	138	1	1512								
			Open	129093	PTJEFG4	20.0	129449	PT JEFF2	138	1				1.00000	0.03374	-159.5	-64.6		
34869	2812.5	5289.5	L:	Interface	28	LIPA	Import						2954.7	5354.0	0.85310		0.90722	2737.9	5289.5
			C:	129076	HOLTS1-5	13.8	129427	HOLTS GT	138	1	1510								
			Open	129076	HOLTS1-5	13.8	129427	HOLTS GT	138	1				-1.00000	0.05412	-216.7	-64.5		
34870	2812.5	5289.5	L:	Interface	64	LIPA	Export						-2954.7	-5354.0	-0.85310		-0.90722	-2737.9	-5289.5

LIPA_Import(w LIPAImportMax)

				C:129076 HOLTSL-5	13.8	129427	HOLTS	GT	138	1	1510								
				Open 129076 HOLTSL-5	13.8	129427	HOLTS	GT	138	1				1.00000	0.05412	-216.7	-64.5		
34871	2817.7	5294.2	L:	Interface	64		LIPA	Export											
				C:128958 GLNWDMDID	13.8	129281	GLNWD	GT	138	1	1504								
				Open 128958 GLNWDMDID	13.8	129281	GLNWD	GT	138	1				1.00000	0.00000	-59.8	-59.8		
34872	2817.7	5294.2	L:	Interface	28		LIPA	Import											
				C:128958 GLNWDMDID	13.8	129281	GLNWD	GT	138	1	1504								
				Open 128958 GLNWDMDID	13.8	129281	GLNWD	GT	138	1				1.00000	0.00000	-59.8	-59.8		
34873	2821.7	5297.8	*L:	Interface	28		LIPA	Import											
				C:128901 BARETG2	20.0	129203	BARRETT2		138	1	1500								
				Open 128901 BARETG2	20.0	129203	BARRETT2		138	1									
34874	2821.7	5297.8	*L:	Interface	64		LIPA	Export											
				C:128901 BARETG2	20.0	129203	BARRETT2		138	1	1500								
				Open 128901 BARETG2	20.0	129203	BARRETT2		138	1				-1.00000	0.00000	-59.8	-59.8		
34875	2834.7	5309.7	L:	Interface	50		PJM	Central-C											
				C:GEN:FITZPATR							1559								
				Open 136155 SCRIBA	345	147830	JA	FITZP	345	1									
				Open 137200 EDIC	345	147830	JA	FITZP	345	1									
				Remove unit 1 from bus 147797 JAFITZ1G	24.0				886.8	MW	dispatch								
34876	2834.7	5309.7	L:	Interface	49		C-PJM	Central											
				C:GEN:FITZPATR							1559								
				Open 136155 SCRIBA	345	147830	JA	FITZP	345	1									
				Open 137200 EDIC	345	147830	JA	FITZP	345	1									
				Remove unit 1 from bus 147797 JAFITZ1G	24.0				886.8	MW	dispatch								
36843	2948.9	5413.2	L:	Interface	49		C-PJM	Central											
				C:GEN:9 MI PT1							1560								
				Open 136150 CLAY	345	136157	9MI	PT1	345	1									
				Open 136155 SCRIBA	345	136157	9MI	PT1	345	1									
				Remove unit 1 from bus 136701 9M PT 1G	23.0				642.4	MW	dispatch								
36844	2948.9	5413.2	L:	Interface	50		PJM	Central-C											
				C:GEN:9 MI PT1							1560								
				Open 136150 CLAY	345	136157	9MI	PT1	345	1									
				Open 136155 SCRIBA	345	136157	9MI	PT1	345	1									
				Remove unit 1 from bus 136701 9M PT 1G	23.0				642.4	MW	dispatch								
36845	2950.1	5414.3	*L:	Interface	49		C-PJM	Central											
				C:GEN:GINNA							1562								
				Remove unit 1 from bus 149140 GINNA	19				605.0	MW	dispatch								
36846	2950.1	5414.3	*L:	Interface	50		PJM	Central-C											
				C:GEN:GINNA							1562								
				Remove unit 1 from bus 149140 GINNA	19				605.0	MW	dispatch								

APPENDIX E – MUST OUTPUT FOR INTER-AREA INTERFACES

Interface Details

Interface Details

```

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- WED, APR 22 2009 23:13 <IND000>X
2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
Case.File C:\Projects\NYISO\STARS\MUST_TLTG\abb-v3.sav
Subsys.File C:\Projects\NYISO\STARS\MUST_TLTG\STARS-TTL.sub
Monit.File C:\Projects\NYISO\STARS\MUST_TLTG\STARS-TTL.mon
Contin.File C:\Projects\NYISO\STARS\MUST_TLTG\STARS-TTL.con
Exclud.File C:\Projects\NYISO\STARS\MUST_TLTG\STARS.exc

```

Study transfer not defined

***** Base Case Report *****

List of 18 interfaces of total 56

```

**** Interface ****
                Limit      Limit
                Import      Export  InitFlow
17 NY-NE                -3963.0    3963.0    80.7

```

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
147852	PLAT T#3	115	100511	GRAND IS	115	1	114.6	
137885	HOOSICK	115	100522	BNNINGTN	115	1	21.3	
137917	WHITEHAL	115	100649	BLISSPAR	115	1	0.0	
137730	ROTRDM.2	230	102385	BRWAMP	230	1	5.3	
137450	ALPS345	345	102928	MANY393	345	1	348.3	
126294	PLTVLLEY	345	103117	CTNY398	345	1	-308.3	
129343	NRTHPT P	138	103166	NORHR138	138	1	-33.5	
129343	NRTHPT P	138	103166	NORHR138	138	2	-33.5	
129343	NRTHPT P	138	103166	NORHR138	138	3	-33.5	

List of 18 interfaces of total 56

```

**** Interface ****
                Limit      Limit
                Import      Export  InitFlow
18 NE-NY                -3963.0    3963.0   -80.7

```

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
100511	GRAND IS	115	147852	PLAT T#3	115	1	-114.6	
100522	BNNINGTN	115	137885	HOOSICK	115	1	-21.3	
100649	BLISSPAR	115	137917	WHITEHAL	115	1	-0.0	
102385	BRWAMP	230	137730	ROTRDM.2	230	1	-5.3	
102928	MANY393	345	137450	ALPS345	345	1	-348.3	
103117	CTNY398	345	126294	PLTVLLEY	345	1	308.3	
103166	NORHR138	138	129343	NRTHPT P	138	1	33.5	
103166	NORHR138	138	129343	NRTHPT P	138	2	33.5	

Interface Details

103166 NORHR138 138 129343 NRTHPT P 138 3 33.5

List of 18 interfaces of total 56

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
34 NY-ONT      -3788.0    3788.0    743.3
```

List of interface branches

```
**      From Bus      ** **      To Bus      ** CKT  InitFlow  ResFlow
135415 PACKARD2      230 157062 BCK2BP76    230 1    161.5
147834 NIAG 345      345 157050 BECK A      345 1    173.9
147834 NIAG 345      345 157051 BECK B      345 1    173.8
147839 MOSES E      230 155072 STLAWL33    230 1     0.3
147839 MOSES E      230 155073 STLAWL34    230 1     0.2
147842 NIAGAR2W     230 157063 BCK2PA27    230 1    233.6
```

List of 18 interfaces of total 56

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
36 ONT-NY      -3788.0    3788.0   -743.3
```

List of interface branches

```
**      From Bus      ** **      To Bus      ** CKT  InitFlow  ResFlow
157062 BCK2BP76     230 135415 PACKARD2    230 1   -161.5
157050 BECK A      345 147834 NIAG 345    345 1   -173.9
157051 BECK B      345 147834 NIAG 345    345 1   -173.8
155072 STLAWL33    230 147839 MOSES E     230 1    -0.3
155073 STLAWL34    230 147839 MOSES E     230 1    -0.2
157063 BCK2PA27    230 147842 NIAGAR2W    230 1   -233.6
```

List of 18 interfaces of total 56

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
37 ZoneA-ONT    -3090.0    3090.0    742.8
```

List of interface branches

```
**      From Bus      ** **      To Bus      ** CKT  InitFlow  ResFlow
135415 PACKARD2      230 157062 BCK2BP76    230 1    161.5
147834 NIAG 345      345 157050 BECK A      345 1    173.9
147834 NIAG 345      345 157051 BECK B      345 1    173.8
147842 NIAGAR2W     230 157063 BCK2PA27    230 1    233.6
```

Interface Details

List of 18 interfaces of total 56

```
**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
38 ONT-ZoneA    -3090.0    3090.0    -742.8
```

List of interface branches

```
**      From Bus      ** **      To Bus      ** CKT  InitFlow  ResFlow
157062 BCK2BP76      230 135415 PACKARD2    230 1    -161.5
157050 BECK A        345 147834 NIAG 345    345 1    -173.9
157051 BECK B        345 147834 NIAG 345    345 1    -173.8
157063 BCK2PA27      230 147842 NIAGAR2W    230 1    -233.6
```

List of 18 interfaces of total 56

```
**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
19 PJM-NY      -9245.0    9245.0    1498.2
```

List of interface branches

```
**      From Bus      ** **      To Bus      ** CKT  InitFlow  ResFlow
  91 JEFFERSN        500 126250 RAMAPO 5    500 1    1001.1
4989 HUDSON1        345 126278 B3402 PAR1    345 1     332.9
4996 LINDEN         230 126321 GOETHALS    230 1     334.5
5028 WALDWICK       345 146752 SMAHWAH1    345 1    -453.9
5028 WALDWICK       345 146753 SMAHWAH2    345 1    -546.8
5039 HUDSON2        345 126279 C3403 PAR2    345 1     332.9
5473 LINVFT4        345 126265 COGNTECH    345 1     298.4
9803 HCOR138        138 146761 BURNS138    138 1    -105.3
9804 SMAH138        138 146769 RAMP138     138 1    -149.8
9804 SMAH138        138 146752 SMAHWAH1    345 1    -127.2
9808 HCOR69         69.0 146812 WNYA69     69.0 1     -29.8
9809 MONTVALE       69.0 146777 BLUHILL    69.0 1      5.9
9809 MONTVALE       69.0 146777 BLUHILL    69.0 2      5.9
9809 MONTVALE       69.0 146850 L491T     69.0 1    -56.3
9810 SMAH69         69.0 146790 HILB69     69.0 1    -78.6
9811 HCOR34         34.5 146826 PEARL34    34.5 1      9.1
9814 CRESSKIL       69.0 146807 SPARKILL    69.0 1    -22.8
200769 HOMER CY     345 130757 WATRC345    345 1     543.5
200675 E.TWANDA     230 130763 HILSD230    230 1    -117.6
200680 LAUREL L     115 130807 GOUDY115    115 1    -38.0
200676 E.SAYRE      115 130836 N.WAV115    115 1    -43.0
200654 ERIE E       230 135251 S RIPLEY    230 1    -11.3
200579 WARREN       115 135277 FALCONER    115 1     35.9
200769 HOMER CY     345 135398 SW345     345 1     378.4
```

List of 18 interfaces of total 56

```
**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
```

Interface Details

35 NY-PJM -9245.0 9245.0 -1498.2

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
126250	RAMAPO 5	500		91 JEFFERSN	500	1	-1001.1	
126278	B3402 PAR1	345	4989	HUDSON1	345	1	-332.9	
126321	GOETHALS	230	4996	LINDEN	230	1	-334.5	
146752	SMAHWAH1	345	5028	WALDWICK	345	1	453.9	
146753	SMAHWAH2	345	5028	WALDWICK	345	1	546.8	
126279	C3403 PAR2	345	5039	HUDSON2	345	1	-332.9	
126265	COGNTECH	345	5473	LINVFT4	345	1	-298.4	
146761	BURNS138	138	9803	HCOR138	138	1	105.3	
146769	RAMP138	138	9804	SMAH138	138	1	149.8	
146752	SMAHWAH1	345	9804	SMAH138	138	1	127.2	
146812	WNYA69	69.0	9808	HCOR69	69.0	1	29.8	
146777	BLUHILL	69.0	9809	MONTVALE	69.0	1	-5.9	
146777	BLUHILL	69.0	9809	MONTVALE	69.0	2	-5.9	
146850	L491T	69.0	9809	MONTVALE	69.0	1	56.3	
146790	HILB69	69.0	9810	SMAH69	69.0	1	78.6	
146826	PEARL34	34.5	9811	HCOR34	34.5	1	-9.1	
146807	SPARKILL	69.0	9814	CRESSKIL	69.0	1	22.8	
130757	WATRC345	345	200769	HOMER CY	345	1	-543.5	
130763	HILSD230	230	200675	E.TWANDA	230	1	117.6	
130807	GOUDY115	115	200680	LAUREL L	115	1	38.0	
130836	N.WAV115	115	200676	E.SAYRE	115	1	43.0	
135251	S RIPLEY	230	200654	ERIE E	230	1	11.3	
135277	FALCONER	115	200579	WARREN	115	1	-35.9	
135398	SW345	345	200769	HOMER CY	345	1	-378.4	

List of 18 interfaces of total 56

****	Interface	****	Limit	Limit	InitFlow
			Import	Export	
53	PJME-NYE		-6118.0	6118.0	750.2

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
91	JEFFERSN	500	126250	RAMAPO 5	500	1	1001.1	
4989	HUDSON1	345	126278	B3402 PAR1	345	1	332.9	
4996	LINDEN	230	126321	GOETHALS	230	1	334.5	
5028	WALDWICK	345	146752	SMAHWAH1	345	1	-453.9	
5028	WALDWICK	345	146753	SMAHWAH2	345	1	-546.8	
5039	HUDSON2	345	126279	C3403 PAR2	345	1	332.9	
5473	LINVFT4	345	126265	COGNTECH	345	1	298.4	
9803	HCOR138	138	146761	BURNS138	138	1	-105.3	
9804	SMAH138	138	146769	RAMP138	138	1	-149.8	
9804	SMAH138	138	146752	SMAHWAH1	345	1	-127.2	
9808	HCOR69	69.0	146812	WNYA69	69.0	1	-29.8	
9809	MONTVALE	69.0	146777	BLUHILL	69.0	1	5.9	
9809	MONTVALE	69.0	146777	BLUHILL	69.0	2	5.9	
9809	MONTVALE	69.0	146850	L491T	69.0	1	-56.3	

Interface Details

9810 SMAH69	69.0	146790	HILB69	69.0	1	-78.6
9811 HCOR34	34.5	146826	PEARL34	34.5	1	9.1
9814 CRESSKIL	69.0	146807	SPARKILL	69.0	1	-22.8

List of 18 interfaces of total 56

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
54 NYE-PJME      -6118.0    6118.0   -750.2
```

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
126250	RAMAPO 5	500	91	JEFFERSN	500	1	-1001.1	
126278	B3402 PAR1	345	4989	HUDSON1	345	1	-332.9	
126321	GOETHALS	230	4996	LINDEN	230	1	-334.5	
146752	SMAHWAH1	345	5028	WALDWICK	345	1	453.9	
146753	SMAHWAH2	345	5028	WALDWICK	345	1	546.8	
126279	C3403 PAR2	345	5039	HUDSON2	345	1	-332.9	
126265	COGNTECH	345	5473	LINVFT4	345	1	-298.4	
146761	BURNS138	138	9803	HCOR138	138	1	105.3	
146769	RAMP138	138	9804	SMAH138	138	1	149.8	
146752	SMAHWAH1	345	9804	SMAH138	138	1	127.2	
146812	WNYA69	69.0	9808	HCOR69	69.0	1	29.8	
146777	BLUHILL	69.0	9809	MONTVALE	69.0	1	-5.9	
146777	BLUHILL	69.0	9809	MONTVALE	69.0	2	-5.9	
146850	L491T	69.0	9809	MONTVALE	69.0	1	56.3	
146790	HILB69	69.0	9810	SMAH69	69.0	1	78.6	
146826	PEARL34	34.5	9811	HCOR34	34.5	1	-9.1	
146807	SPARKILL	69.0	9814	CRESSKIL	69.0	1	22.8	

List of 18 interfaces of total 56

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
45 A-PJMWest     -1691.0    1691.0   -403.0
```

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
135251	S RIPLEY	230	200654	ERIE E	230	1	11.3	
135277	FALCONER	115	200579	WARREN	115	1	-35.9	
135398	SW345	345	200769	HOMER CY	345	1	-378.4	

List of 18 interfaces of total 56

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
46 PJMWest-A     -1691.0    1691.0    403.0
```

Interface Details

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow	ResFlow
200654	ERIE E	230	135251 S RIPLEY	230 1	-11.3	
200579	WARREN	115	135277 FALCONER	115 1	35.9	
200769	HOMER CY	345	135398 SW345	345 1	378.4	

List of 18 interfaces of total 56

**** Interface ***	Limit	Limit	InitFlow
	Import	Export	
47 C-PJMWest	-755.0	755.0	-543.5

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow	ResFlow
130757	WATRC345	345	200769 HOMER CY	345 1	-543.5	

List of 18 interfaces of total 56

**** Interface ***	Limit	Limit	InitFlow
	Import	Export	
48 PJMWest-C	-755.0	755.0	543.5

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow	ResFlow
200769	HOMER CY	345	130757 WATRC345	345 1	543.5	

List of 18 interfaces of total 56

**** Interface ***	Limit	Limit	InitFlow
	Import	Export	
49 C-PJMCentral	-681.0	681.0	198.6

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow	ResFlow
130763	HILSD230	230	200675 E.TWANDA	230 1	117.6	
130807	GOUDY115	115	200680 LAUREL L	115 1	38.0	
130836	N.WAV115	115	200676 E.SAYRE	115 1	43.0	

List of 18 interfaces of total 56

**** Interface ***	Limit	Limit	InitFlow
	Import	Export	
50 PJMCentral-C	-681.0	681.0	-198.6

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow	ResFlow
200675	E.TWANDA	230	130763 HILSD230	230 1	-117.6	

Interface Details

```

200680 LAUREL L      115 130807 GOUDY115    115 1      -38.0
200676 E.SAYRE      115 130836 N.WAV115     115 1     -43.0

```

List of 18 interfaces of total 56

```

**** Interface ****      Limit      Limit
                          Import      Export  InitFlow
53 PJME-NYE              -5618.0    5618.0    451.8

```

List of interface branches

```

**      From Bus      ** **      To Bus      ** CKT  InitFlow  ResFlow
    91 JEFFERSN      500 126250 RAMAPO 5    500 1    1001.1
 4989 HUDSON1       345 126278 B3402 PAR1    345 1     332.9
 4996 LINDEN        230 126321 GOETHALS    230 1     334.5
 5028 WALDWICK      345 146752 SMAHWAH1    345 1    -453.9
 5028 WALDWICK      345 146753 SMAHWAH2    345 1    -546.8
 5039 HUDSON2       345 126279 C3403 PAR2    345 1     332.9
 9803 HCOR138       138 146761 BURNS138    138 1    -105.3
 9804 SMAH138       138 146769 RAMP138     138 1    -149.8
 9804 SMAH138       138 146752 SMAHWAH1    345 1    -127.2
 9808 HCOR69        69.0 146812 WNYA69     69.0 1     -29.8
 9809 MONTVALE      69.0 146777 BLUHILL     69.0 1       5.9
 9809 MONTVALE      69.0 146777 BLUHILL     69.0 2       5.9
 9809 MONTVALE      69.0 146850 L491T       69.0 1    -56.3
 9810 SMAH69        69.0 146790 HILB69     69.0 1    -78.6
 9811 HCOR34        34.5 146826 PEARL34     34.5 1       9.1
 9814 CRESSKIL      69.0 146807 SPARKILL    69.0 1    -22.8

```

List of 18 interfaces of total 56

```

**** Interface ****      Limit      Limit
                          Import      Export  InitFlow
54 NYE-PJME           -5618.0    5618.0   -451.8

```

List of interface branches

```

**      From Bus      ** **      To Bus      ** CKT  InitFlow  ResFlow
126250 RAMAPO 5      500    91 JEFFERSN    500 1   -1001.1
126278 B3402 PAR1    345   4989 HUDSON1    345 1   -332.9
126321 GOETHALS     230   4996 LINDEN     230 1   -334.5
146752 SMAHWAH1     345   5028 WALDWICK    345 1    453.9
146753 SMAHWAH2     345   5028 WALDWICK    345 1    546.8
126279 C3403 PAR2    345   5039 HUDSON2    345 1  -332.9
146761 BURNS138     138   9803 HCOR138    138 1    105.3
146769 RAMP138       138   9804 SMAH138    138 1    149.8
146752 SMAHWAH1     345   9804 SMAH138    138 1    127.2
146812 WNYA69        69.0   9808 HCOR69     69.0 1     29.8
146777 BLUHILL       69.0   9809 MONTVALE    69.0 1     -5.9
146777 BLUHILL       69.0   9809 MONTVALE    69.0 2     -5.9
146850 L491T         69.0   9809 MONTVALE    69.0 1     56.3

```

Interface Details

146790 HILB69	69.0	9810 SMAH69	69.0	1	78.6
146826 PEARL34	34.5	9811 HCOR34	34.5	1	-9.1
146807 SPARKILL	69.0	9814 CRESSKIL	69.0	1	22.8

Sensitivity Case with Ramapo PARs exporting 1000 MW to PJM

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, MAY 08 2009 9:24 <IND000>X
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File C:\Projects\NYISO\STARS\MUST TLTG\abb-v3-rmp-jef-1k.sav
 Subsys.File C:\Projects\NYISO\STARS\MUST TLTG\STARS-TTL.sub
 Monit.File C:\Projects\NYISO\STARS\MUST TLTG\STARS-TTL.mon
 Contin.File C:\Projects\NYISO\STARS\MUST TLTG\STARS-TTL.con
 Exclud.File C:\Projects\NYISO\STARS\MUST TLTG\STARS.exc

Study transfer not defined

***** Base Case Report *****

List of 1 interfaces of total 56

*** Interface ***	Limit	Limit	InitFlow
	Import	Export	
54 NYE-PJME	-5618.0	5618.0	1547.9

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow	ResFlow
126250	RAMAPO 5	500	91	JEFFERSN	500	1	998.9	
126278	B3402 PAR1	345	4989	HUDSON1	345	1	-333.1	
126321	GOETHALS	230	4996	LINDEN	230	1	-334.4	
146752	SMAHWAH1	345	5028	WALDWICK	345	1	456.0	
146753	SMAHWAH2	345	5028	WALDWICK	345	1	544.8	
126279	C3403 PAR2	345	5039	HUDSON2	345	1	-333.1	
146761	BURNS138	138	9803	HCOR138	138	1	105.0	
146769	RAMP138	138	9804	SMAH138	138	1	152.9	
146752	SMAHWAH1	345	9804	SMAH138	138	1	119.8	
146812	WNYA69	69.0	9808	HCOR69	69.0	1	33.4	
146777	BLUHILL	69.0	9809	MONTVALE	69.0	1	-5.9	
146777	BLUHILL	69.0	9809	MONTVALE	69.0	2	-5.9	
146850	L491T	69.0	9809	MONTVALE	69.0	1	56.4	
146790	HILB69	69.0	9810	SMAH69	69.0	1	78.8	
146826	PEARL34	34.5	9811	HCOR34	34.5	1	-9.5	
146807	SPARKILL	69.0	9814	CRESSKIL	69.0	1	23.7	

NY-NE

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- TUE, APR 07 2009 14:51
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- TUE, APR 07 2009 14:51
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From NYCA_EXPORT To NE_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 8892 violations

Interface-1 Interface 17 NY-NE Init.Flow= 80.71 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating	LODF	Init Final
1	401.9	482.6	L: 126385 E179 ST Base Case	138	126730	15055 SR	138 1	217.1 246.0 0.07181
2	408.3	489.0	L: 126581 HG TAP Base Case	138	126730	15055 SR	138 1	-216.7 -246.0 -0.07181
3	503.3	584.0	L: 126295 RAINEY C:GEN:RAVNWD 3-New	345	126561	8E DUM	138 8	-305.2 -342.0 -0.07307 -0.07307 -203.6 -240.4
			Open 126652 RAV 3	22.0	126865	RAV3 60M	345 2	0.00000 0.00000 481.0 481.0
			Open 126652 RAV 3	22.0	126866	RAV3 60L	345 1	0.10560 0.00000 -962.0 -962.0
4	661.8	742.5	L: 126295 RAINEY Base Case	345	126561	8E DUM	138 8	-203.6 -252.0 -0.07307
5	948.0	1028.8	L: 126480 RAINEY8E C:GEN:RAVNWD 3-New	138	126506	VERNON-E	138 1	-278.0 -342.0 -0.06755 -0.06755 -179.8 -243.9
			Open 126652 RAV 3	22.0	126865	RAV3 60M	345 2	0.00000 0.00000 481.0 481.0

NY-NE

			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1			0.10200	0.00000	-962.0	-962.0
6	963.6	1044.3	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	276.9	342.0	0.06755	0.06755	178.8	243.9
			C:GEN:RAVNWD 3-New										
													1776
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2			-0.00000	0.00000	481.0	481.0
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1			-0.10200	0.00000	-962.0	-962.0
7	1047.6	1128.4	L: 126353 ASTORIA WEST	138	126475 QUENBRDG	138	4	305.4	342.0	0.03492			
			Base Case										
8	1053.6	1134.3	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-179.8	-251.0	-0.06755			
			Base Case										
9	1083.9	1164.6	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	178.8	252.0	0.06755			
			Base Case										
10	1340.9	1421.6	L: 126295 RAINEY	345	126562 8W DUM	138	8	-158.1	-256.0	-0.07304			
			Base Case										
11	1421.7	1502.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-184.0	-339.0	-0.10902	-0.07855	-147.1	-258.8
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1425					
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1			-0.35073	0.08686	105.3	228.8
12	1475.6	1556.3	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-147.1	-263.0	-0.07855			
			Base Case										
13	1491.0	1571.7	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-180.1	-339.0	-0.10660	-0.07855	-147.1	-264.2
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1419					
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1			-0.35073	0.07996	94.0	213.2
14	1582.6	1663.4	L: 126385 E179 ST	138	126730 15055 SR	138	1	419.4	533.0	0.07181	0.07181	217.1	330.8
			C:GEN:NYPA_AS										1553
			Remove unit 1 from bus 147788 POLETGT2	18.0	160.0 MW								
			Remove unit 1 from bus 147789 POLETSTG	18.0	180.0 MW								
			Remove unit 1 from bus 147790 POLETGT1	18.0	160.0 MW								
15	1589.1	1669.8	L: 126581 HG TAP	138	126730 15055 SR	138	1	-418.9	-533.0	-0.07181	-0.07181	-216.7	-330.8
			C:GEN:NYPA_AS										1553
			Remove unit 1 from bus 147788 POLETGT2	18.0	160.0 MW								
			Remove unit 1 from bus 147789 POLETSTG	18.0	180.0 MW								
			Remove unit 1 from bus 147790 POLETGT1	18.0	160.0 MW								
16	1590.0	1670.7	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-158.8	-339.0	-0.11333	-0.07855	-147.1	-272.0
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1427					
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1			-0.32861	0.10583	35.7	203.9
17	1641.5	1722.2	L: 126295 RAINEY	345	126562 8W DUM	138	8	-252.1	-372.0	-0.07304	-0.07304	-158.1	-278.0
			C:GEN:RAVNWD 3-New										1776
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2			0.00000	0.00000	481.0	481.0
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1			0.09776	0.00000	-962.0	-962.0
18	1650.7	1731.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-163.0	-339.0	-0.10660	-0.07855	-147.1	-276.8
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1426					
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1			0.35073	-0.07996	-45.5	-177.5
19	1717.7	1798.4	L: 126295 RAINEY	345	126561 8E DUM	138	8	-219.0	-342.0	-0.07158	-0.07307	-203.6	-329.2

NY-NE

				C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1371										
				Open 126600 REAC71		345 126641 MOTT HAVEN	345	3											
20	1717.7	1798.4		L: 126295 RAINY	345	126561 8E DUM	138	8											
				C:126266 DUNWODIE	345	126600 REAC71	345	SR	95										
				Open 126266 DUNWODIE		345 126600 REAC71	345	SR											
21	1719.2	1799.9		L: 126295 RAINY	345	126561 8E DUM	138	8											
				C:126266 DUNWODIE	345	126601 REAC72	345	SR	96										
				Open 126266 DUNWODIE		345 126601 REAC72	345	SR											
22	1719.2	1799.9		L: 126295 RAINY	345	126561 8E DUM	138	8											
				C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1372										
				Open 126601 REAC72		345 126641 MOTT HAVEN	345	4											
23	1752.8	1833.5		L: 126295 RAINY	345	126561 8E DUM	138	8											
				C:126298 SPRBROOK	345	126518 REACM52	345	SR	132										
				Open 126298 SPRBROOK		345 126518 REACM52	345	SR											
24	1752.8	1833.5		L: 126295 RAINY	345	126561 8E DUM	138	8											
				C:126298 SPRBROOK	345	126517 REACM51	345	SR	131										
				Open 126298 SPRBROOK		345 126517 REACM51	345	SR											
25	1753.7	1834.4		L: 126295 RAINY	345	126561 8E DUM	138	8											
				C:126304 W 49 ST	345	126518 REACM52	345	2	1367										
				Open 126304 W 49 ST		345 126518 REACM52	345	2											
26	1753.7	1834.4		L: 126295 RAINY	345	126561 8E DUM	138	8											
				C:126304 W 49 ST	345	126517 REACM51	345	1	1366										
				Open 126304 W 49 ST		345 126517 REACM51	345	1											
27	1782.3	1863.0		L: 129270 E.G.C.	138	129288 ROSLYN	138	1											
				C:129265 CARLE PL	138	129270 E.G.C.	138	1	1416										
				Open 129265 CARLE PL		138 129270 E.G.C.	138	1											
28	1803.5	1884.2		L: 126285 GOTHLS S	345	126287 GOWANUSS	345	1											
				Base Case															
29	1814.5	1895.2	*	L: 126295 RAINY	345	126561 8E DUM	138	8											
				C:SER:41&25					1599										
				Open 126436 FGT_X10	138	126464 TAP X10	138	1											
				Open 126452 HUDAVE E	138	126464 TAP X10	138	1											
				Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1											
31	1844.3	1925.0		L: 126481 RAINY8W	138	126507 VERNON-W	138	1											
				Base Case															
32	1846.2	1926.9		L: 126283 GOTHLS N	345	126286 GOWANUSN	345	1											
				Base Case															
33	1846.7	1927.4		L: 126481 RAINY8W	138	126562 8W DUM	138	1											
				Base Case															
1760	1925.5	2006.2		L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1											
				C:129265 CARLE PL	138	129270 E.G.C.	138	1	1416										
				Open 129265 CARLE PL		138 129270 E.G.C.	138	1											

NY-NE

1785	1963.5	2044.2	L: 137502 GBSH+LGE	115	137528 REY. RD.	115	1	148.9	318.0	0.08611	0.03316	131.4	196.5
			C:137450 ALPS345	345	137452 N.SCOT77	345	1 1002						
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				-0.18908	-0.28008	-92.7 -642.6
1790	2077.3	2158.0	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	114.7	339.0	0.10800	0.07996	94.0	260.1
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1 1417						
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1				0.35694	0.07855	57.8 221.0
1794	2113.4	2194.1	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	94.0	263.0	0.07996			
			Base Case										
1795	2131.1	2211.8	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-171.6	-339.0	-0.07855	-0.07855	-147.1	-314.5
			C:129234 VLY STRM	138	129235 V STRM P	138	1 1409						
			Open 129234 VLY STRM	138	129235 V STRM P	138	1				-0.20016	0.00000	122.4 122.4
1796	2132.2	2212.9	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-171.5	-339.0	-0.07855	-0.07855	-147.1	-314.6
			C:126455 JAMAICA	138	129235 V STRM P	138	1 1497						
			Open 126455 JAMAICA	138	129235 V STRM P	138	1				0.20016	0.00000	-122.0 -122.0
1797	2202.8	2283.5	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	125.9	379.0	0.11490	0.08686	105.3	296.6
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1 1417						
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1				0.35694	0.07855	57.8 230.9
1798	2207.4	2288.1	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	105.3	297.0	0.08686			
			Base Case										
1799	2217.0	2297.7	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-163.6	-339.0	-0.07913	-0.07855	-147.1	-321.2
			C:129270 E.G.C.	138	129580 E.G.C.1	69.0	1 1523						
			Open 129270 E.G.C.	138	129580 E.G.C.1	69.0	1				-0.12500	0.00461	131.8 142.1
1800	2221.6	2302.3	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-195.2	-342.0	-0.06606	-0.06755	-179.8	-329.9
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 95						
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR				-0.02214	-0.06721	695.8 546.5
1801	2221.6	2302.3	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-195.2	-342.0	-0.06606	-0.06755	-179.8	-329.9
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1371						
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3				-0.02214	-0.06721	695.8 546.5
1802	2223.2	2303.9	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-195.1	-342.0	-0.06607	-0.06755	-179.8	-330.0
			C:126266 DUNWODIE	345	126601 REAC72	345	SR 96						
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR				-0.02210	-0.06673	691.0 542.7
1803	2223.2	2303.9	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-195.1	-342.0	-0.06607	-0.06755	-179.8	-330.0
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1372						
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4				-0.02210	-0.06673	691.0 542.7
1804	2226.1	2306.8	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	-223.8	-372.0	-0.06657	-0.06657	-133.2	-281.4
			C:GEN:RAVNWD 3-New				1776						
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2				0.00000	0.00000	481.0 481.0
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1				0.09416	0.00000	-962.0 -962.0
1805	2228.5	2309.2	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	223.7	372.0	0.06657	0.06657	133.1	281.4
			C:GEN:RAVNWD 3-New				1776						
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2				-0.00000	0.00000	481.0 481.0
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1				-0.09416	0.00000	-962.0 -962.0

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1806	2237.5	2318.2	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	194.2	342.0	0.06606	0.06755	178.8	329.9
			C:126266 DUNWODIE	345	126600	REAC71	345	SR 95						
			Open 126266 DUNWODIE	345	126600	REAC71	345	SR			0.02214	-0.06721	695.8	545.4
1807	2237.5	2318.2	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	194.2	342.0	0.06606	0.06755	178.8	329.9
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3 1371						
			Open 126600 REAC71	345	126641	MOTT HAVEN	345	3			0.02214	-0.06721	695.8	545.4
1808	2239.0	2319.8	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	194.1	342.0	0.06607	0.06755	178.8	330.0
			C:126266 DUNWODIE	345	126601	REAC72	345	SR 96						
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR			0.02210	-0.06673	691.0	541.6
1809	2239.0	2319.8	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	194.1	342.0	0.06607	0.06755	178.8	330.0
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4 1372						
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4			0.02210	-0.06673	691.0	541.6
1810	2257.1	2337.8	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-192.1	-342.0	-0.06640	-0.06755	-179.8	-332.3
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 131						
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR			-0.01730	-0.06624	710.2	560.7
1811	2257.1	2337.8	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-192.1	-342.0	-0.06640	-0.06755	-179.8	-332.3
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 132						
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR			-0.01730	-0.06624	710.2	560.7
1812	2258.1	2338.8	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-192.1	-342.0	-0.06640	-0.06755	-179.8	-332.4
			C:126304 W 49 ST	345	126518	REACM52	345	2 1367						
			Open 126304 W 49 ST	345	126518	REACM52	345	2			0.01730	0.06624	-706.5	-556.9
1813	2258.1	2338.8	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-192.1	-342.0	-0.06640	-0.06755	-179.8	-332.4
			C:126304 W 49 ST	345	126517	REACM51	345	1 1366						
			Open 126304 W 49 ST	345	126517	REACM51	345	1			0.01730	0.06624	-706.5	-556.9
1814	2265.0	2345.7	L: 137502 GBSH+LGE	115	137528	REY. RD.	115	1	131.9	318.0	0.08218	0.03316	131.4	206.5
			C:BUS:N.S._77					1614						
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1			-0.00574	-0.17409	-248.0	-642.3
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1			-0.05388	0.01251	111.8	140.1
			Open 137200 EDIC	345	137452	N.SCOT77	345	1			-0.01387	0.06832	819.4	974.2
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1			-0.17728	-0.28008	-92.7	-727.1
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1			0.00943	0.00000	-0.0	-0.0
1815	2267.8	2348.5	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-165.8	-339.0	-0.07638	-0.07855	-147.1	-325.2
			C:129234 VLY STRM	138	129271	E.G.C.-2	138	1 1410						
			Open 129234 VLY STRM	138	129271	E.G.C.-2	138	1			0.10129	0.02148	-184.7	-136.0
1816	2269.1	2349.8	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	86.2	339.0	0.11143	0.07996	94.0	275.4
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1 1428						
			Open 129283 GLNWD SO	138	129293	SHORE RD	138	1			0.33058	0.09521	-23.8	192.2
1817	2272.9	2353.6	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	191.1	342.0	0.06640	0.06755	178.8	332.3
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 131						
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR			0.01730	-0.06624	710.2	559.7
1818	2272.9	2353.6	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	191.1	342.0	0.06640	0.06755	178.8	332.3
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 132						

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				Open 126298 SPRBROOK	345	126518 REACM52	345	SR		0.01730	-0.06624	710.2	559.7		
1819	2273.9	2354.6	L:	126480 RAINEY8E	138	126561 8E DUM	138	1	191.0	342.0	0.06640	0.06755	178.8	332.4	
			C:	126304 W 49 ST	345	126517 REACM51	345	1 1366							
				Open 126304 W 49 ST	345	126517 REACM51	345	1				-0.01730	0.06624	-706.5	-555.8
1820	2273.9	2354.6	L:	126480 RAINEY8E	138	126561 8E DUM	138	1	191.0	342.0	0.06640	0.06755	178.8	332.4	
			C:	126304 W 49 ST	345	126518 REACM52	345	2 1367							
				Open 126304 W 49 ST	345	126518 REACM52	345	2				-0.01730	0.06624	-706.5	-555.8
1821	2312.5	2393.2	*L:	126480 RAINEY8E	138	126506 VERNON-E	138	1	-184.9	-342.0	-0.06792	-0.06755	-179.8	-336.0	
			C:	SER:41&25				1599							
				Open 126436 FGT_X10	138	126464 TAP X10	138	1				0.01714	0.00000	-88.8	-88.8
				Open 126452 HUDAVE E	138	126464 TAP X10	138	1				-0.00549	0.00000	-0.0	-0.0
				Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1				-0.00806	0.04606	444.0	550.5
1822	2318.8	2399.5	L:	129265 CARLE PL	138	129270 E.G.C.	138	1	-155.7	-339.0	-0.07904	-0.07855	-147.1	-329.2	
			C:	129234 VLY STRM	138	129528 VLYSTRM2	69.0	2 1518							
				Open 129234 VLY STRM	138	129528 VLYSTRM2	69.0	2				-0.07036	0.00691	122.7	138.7
1823	2328.0	2408.7	*L:	126480 RAINEY8E	138	126561 8E DUM	138	1	183.9	342.0	0.06792	0.06755	178.8	336.0	
			C:	SER:41&25				1599							
				Open 126436 FGT_X10	138	126464 TAP X10	138	1				-0.01714	0.00000	-88.8	-88.8
				Open 126452 HUDAVE E	138	126464 TAP X10	138	1				0.00549	0.00000	-0.0	-0.0
				Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1				0.00806	0.04606	444.0	551.2
1824	2332.7	2413.4	*L:	129265 CARLE PL	138	129270 E.G.C.	138	1	-155.0	-339.0	-0.07887	-0.07855	-147.1	-330.3	
			C:	129310 NEWBRGE	138	129640 NEWBRGE2	69.0	1 1528							
				Open 129310 NEWBRGE	138	129640 NEWBRGE2	69.0	1				-0.10685	0.00296	74.3	81.2
1847	2379.7	2460.4	L:	129281 GLNWD GT	138	129282 GLNWD NO	138	1	97.4	379.0	0.11833	0.08686	105.3	312.0	
			C:	129283 GLNWD SO	138	129293 SHORE RD	138	1 1428							
				Open 129283 GLNWD SO	138	129293 SHORE RD	138	1				0.33058	0.09521	-23.8	202.8
6956	2458.2	2538.9	L:	137450 ALPS345	345	137454 REYNLD3	345	1	-297.0	-755.0	-0.18634	-0.06345	-256.3	-412.3	
			C:	137450 ALPS345	345	137452 N.SCOT77	345	1 1002							
				Open 137450 ALPS345	345	137452 N.SCOT77	345	1				0.43876	-0.28008	-92.7	-781.2
7034	2513.1	2593.8	L:	126353 ASTORIA WEST	138	126475 QUENBRDG	138	3	265.7	342.0	0.03035				
				Base Case											
7041	2533.5	2614.3	L:	137450 ALPS345	345	137454 REYNLD3	345	1	-296.3	-755.0	-0.18105	-0.06345	-256.3	-417.0	
			C:	BUS:N.S._77				1614							
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.01738	-0.17409	-248.0	-689.1
				Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1				0.09554	0.01251	111.8	143.5
				Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.01013	0.06832	819.4	992.5
				Open 137450 ALPS345	345	137452 N.SCOT77	345	1				0.41088	-0.28008	-92.7	-802.3
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				-0.00520	0.00000	-0.0	-0.0
7050	2592.5	2673.2	L:	103117 CTNY398	345	126294 PLTVLLEY	345	1	-275.3	-1685.0	-0.54377	-0.54377	308.3	-1101.4	
			C:	SIN:250				1677							
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00009	0.00000	-0.1	-0.1
				Remove unit 3 from bus 103563 MILL#3		24.0	1276.0	MW dispatch							

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7053	2602.1	2682.8	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-98.0	-379.0	-0.10800	-0.07996	-45.5	-253.5
			C:129265 CARLE PL	138	129270 E.G.C.	138	1 1416						
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1			0.35694	-0.07855	-147.1	-351.5
7054	2605.9	2686.6	L: 103117 CTNY398	345	126294 PLTVLLEY	345	1	146.9	-1685.0	-0.70298	-0.54377	308.3	-1108.7
			C:102928 MANY393	345	137450 ALPS345	345	1 1361						
			Open 102928 MANY393	345	137450 ALPS345	345	1			0.46344	-0.34353	-348.3	-1243.5
7055	2607.3	2688.1	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	94.8	379.0	0.10902	0.07855	57.8	262.6
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1 1425						
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1			0.35073	0.08686	105.3	331.7
7056	2608.4	2689.1	L: 103117 CTNY398	345	126294 PLTVLLEY	345	1	-266.6	-1685.0	-0.54377	-0.54377	308.3	-1110.1
			C:GEN:MLS3&OMS				1574						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00009	0.00000	-0.1	-0.1
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
7057	2608.4	2689.1	L: 103117 CTNY398	345	126294 PLTVLLEY	345	1	-266.6	-1685.0	-0.54377	-0.54377	308.3	-1110.1
			C:GEN:MILLST 3				1572						
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
7059	2611.1	2691.8	L: 103117 CTNY398	345	126294 PLTVLLEY	345	1	165.3	-1685.0	-0.70865	-0.54377	308.3	-1111.5
			C:SER:393&312				1589						
			Open 102928 MANY393	345	137450 ALPS345	345	1			0.37196	-0.34353	-348.3	-1245.2
			Open 102924 BERKSHRE	345	102928 MANY393	345	1			NA			
			Open 102924 BERKSHRE	345	102926 NRTHFLD	345	1			-0.12162	0.30503	114.5	911.0
			Open 102924 BERKSHRE	345	102952 BERKSHIR	115	1			0.37891	0.00000	1.3	1.3
7061	2619.1	2699.8	L: 103117 CTNY398	345	126294 PLTVLLEY	345	1	160.6	-1685.0	-0.70465	-0.54377	308.3	-1115.9
			C:BUS:ALPS_345				1616						
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			0.48310	-0.28008	-92.7	-826.2
			Open 137450 ALPS345	345	137454 REYNLD3	345	1			0.40307	-0.06345	-256.3	-422.5
			Open 102928 MANY393	345	137450 ALPS345	345	1			0.47546	0.00000	0.7	0.7
7077	2703.6	2784.3	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	90.8	379.0	0.10660	0.07855	57.8	270.2
			C:129270 E.G.C.	138	129288 ROSLYN	138	1 1419						
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1			0.35073	0.07996	94.0	310.2
7081	2730.5	2811.2	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	69.6	379.0	0.11333	0.07855	57.8	272.3
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1 1427						
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1			0.32861	0.10583	35.7	324.6
7083	2749.9	2830.6	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	119.1	339.0	0.07996	0.07996	94.0	313.9
			C:129234 VLY STRM	138	129235 V STRM P	138	1 1409						
			Open 129234 VLY STRM	138	129235 V STRM P	138	1			0.20508	0.00000	122.4	122.4
7084	2751.0	2831.7	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	119.0	339.0	0.07996	0.07996	94.0	314.0
			C:126455 JAMAICA	138	129235 V STRM P	138	1 1497						
			Open 126455 JAMAICA	138	129235 V STRM P	138	1			-0.20508	0.00000	-122.0	-122.0
7087	2764.6	2845.3	L: 103117 CTNY398	345	126294 PLTVLLEY	345	1	308.3	-1195.0	-0.54377			
			Base Case										
7088	2778.9	2859.6	L: 126295 RAINEY	345	126562 8W DUM	138	8	-173.1	-372.0	-0.07159	-0.07304	-158.1	-361.0

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			C:126266 DUNWODIE	345	126600 REAC71	345	SR	95											
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR												
7089	2778.9	2859.6	L: 126295 RAINNEY	345	126562 8W DUM	138	8												
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1371											
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3												
7090	2780.2	2860.9	L: 126295 RAINNEY	345	126562 8W DUM	138	8												
			C:126266 DUNWODIE	345	126601 REAC72	345	SR	96											
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR												
7091	2780.2	2860.9	L: 126295 RAINNEY	345	126562 8W DUM	138	8												
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1372											
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4												
7095	2808.3	2889.0	L: 126295 RAINNEY	345	126562 8W DUM	138	8												
			C:126298 SPRBROOK	345	126518 REACM52	345	SR	132											
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR												
7096	2808.3	2889.0	L: 126295 RAINNEY	345	126562 8W DUM	138	8												
			C:126298 SPRBROOK	345	126517 REACM51	345	SR	131											
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR												
7097	2809.2	2889.9	L: 126295 RAINNEY	345	126562 8W DUM	138	8												
			C:126304 W 49 ST	345	126517 REACM51	345	1	1366											
			Open 126304 W 49 ST	345	126517 REACM51	345	1												
7098	2809.2	2889.9	L: 126295 RAINNEY	345	126562 8W DUM	138	8												
			C:126304 W 49 ST	345	126518 REACM52	345	2	1367											
			Open 126304 W 49 ST	345	126518 REACM52	345	2												
7102	2829.7	2910.4	L: 129270 E.G.C.	138	129288 ROSLYN	138	1												
			C:129270 E.G.C.	138	129580 E.G.C.1	69.0	1	1523											
			Open 129270 E.G.C.	138	129580 E.G.C.1	69.0	1												
7103	2846.8	2927.5	*L: 126295 RAINNEY	345	126562 8W DUM	138	8												
			C:SER:41&25					1599											
			Open 126436 FGT_X10	138	126464 TAP X10	138	1												
			Open 126452 HUDAVE E	138	126464 TAP X10	138	1												
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1												
7104	2862.4	2943.2	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1												
			C:129234 VLY STRM	138	129235 V STRM P	138	1	1409											
			Open 129234 VLY STRM	138	129235 V STRM P	138	1												
7105	2863.3	2944.0	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1												
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1426											
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1												
7106	2863.5	2944.2	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1												
			C:126455 JAMAICA	138	129235 V STRM P	138	1	1497											
			Open 126455 JAMAICA	138	129235 V STRM P	138	1												
7108	2887.2	2967.9	L: 129270 E.G.C.	138	129288 ROSLYN	138	1												
			C:128958 GLNWD MID	13.8	129281 GLNWD GT	138	1	1504											

NY-NE

			Open 128958 GLNWD MID	13.8	129281 GLNWD GT	138 1				-0.17718	-0.00690	-59.8	-79.8				
7111	2897.1	2977.8	L: 129281 GLNWD GT	138	129288 ROSLYN	138 1				-66.1	-379.0	-0.10800	-0.07996	-45.5	-277.1		
			C:129265 CARLE PL	138	129283 GLNWD SO	138 1 1417											
			Open 129265 CARLE PL	138	129283 GLNWD SO	138 1											
7115	2904.8	2985.5	L: 129270 E.G.C.	138	129288 ROSLYN	138 1				113.2	339.0	0.07772	0.07996	57.8	285.4		
			C:129234 VLY STRM	138	129271 E.G.C.-2	138 1 1410											
			Open 129234 VLY STRM	138	129271 E.G.C.-2	138 1								-0.10405	0.02148	-184.7	-122.3
7124	2920.2	3000.9	L: 103117 CTNY398	345	126294 PLTVLLEY	345 1				-97.1	-1685.0	-0.54377	-0.54377	308.3	-1279.6		
			C:GEN:SEABROOK			1573											
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch											
7125	2920.2	3000.9	L: 103117 CTNY398	345	126294 PLTVLLEY	345 1				-97.1	-1685.0	-0.54377	-0.54377	308.3	-1279.6		
			C:GEN:SEAB&OMS			1575											
			Open 100508 SANDB115	115	100509 SB RCTOR	115 2				0.00009	0.00000	-0.1	-0.1				
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch											
8747	2934.3	3015.0	L: 129270 E.G.C.	138	129288 ROSLYN	138 1				102.9	339.0	0.08046	0.07996	94.0	328.6		
			C:129234 VLY STRM	138	129528 VLYSTRM2	69.0 2 1518											
			Open 129234 VLY STRM	138	129528 VLYSTRM2	69.0 2								0.07246	0.00691	122.7	143.0
8757	2935.2	3015.9	L: 129281 GLNWD GT	138	129282 GLNWD NO	138 1				122.3	379.0	0.08745	0.08686	105.3	360.2		
			C:129270 E.G.C.	138	129580 E.G.C.1	69.0 1 1523											
			Open 129270 E.G.C.	138	129580 E.G.C.1	69.0 1								0.12926	0.00461	131.8	145.4
8831	2948.7	3029.4	*L: 129270 E.G.C.	138	129288 ROSLYN	138 1				102.3	339.0	0.08029	0.07996	94.0	329.8		
			C:129310 NEWBRGE	138	129640 NEWBRGE2	69.0 1 1528											
			Open 129310 NEWBRGE	138	129640 NEWBRGE2	69.0 1								0.11095	0.00296	74.3	83.0
8843	2952.0	3032.7	L: 102385 BRWAMP	230	137730 ROTRDM.2	230 1				-60.8	-453.0	-0.13287	-0.08141	-5.3	-245.6		
			C:BUS:ALPS_345			1616											
			Open 137450 ALPS345	345	137452 N.SCOT77	345 1								0.14664	-0.28008	-92.7	-919.5
			Open 137450 ALPS345	345	137454 REYNLD3	345 1								0.16384	-0.06345	-256.3	-443.6
			Open 102928 MANY393	345	137450 ALPS345	345 1								0.13754	0.00000	0.7	0.7
8851	2959.4	3040.1	L: 102385 BRWAMP	230	137730 ROTRDM.2	230 1				-76.4	-453.0	-0.12726	-0.08141	-5.3	-246.2		
			C:SER:393&312			1589											
			Open 102928 MANY393	345	137450 ALPS345	345 1								0.24719	-0.34353	-348.3	-1364.9
			Open 102924 BERKSHRE	345	102928 MANY393	345 1			NA								
			Open 102924 BERKSHRE	345	102926 NRTHFLD	345 1								0.12807	0.30503	114.5	1017.2
			Open 102924 BERKSHRE	345	102952 BERKSHIR	115 1								0.23581	0.00000	1.3	1.3
8857	2966.1	3046.8	L: 102385 BRWAMP	230	137730 ROTRDM.2	230 1				-57.8	-453.0	-0.13323	-0.08141	-5.3	-246.7		
			C:102928 MANY393	345	137450 ALPS345	345 1 1361											
			Open 102928 MANY393	345	137450 ALPS345	345 1								0.15087	-0.34353	-348.3	-1367.2

NE-NY

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- TUE, APR 07 2009 14:51
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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Study transfer. From NE To NYCA_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 1776 violations

Interface-1 Interface 18 NE-NY Init.Flow= -80.71 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case	Flow=						
			C: Contingency description	Ncon	Flow	Rating	LODF	Init	Final						
1	967.0	886.3	L: 126266 DUNWODIE Base Case	345	128835	SHORE RD	345	1	474.0	599.0	0.12924				
2	1417.2	1336.5	L: 103166 NORHR138 C:SER:PV_LM_398	138	129343	NRTHPT P	138	2	77.0	175.0	0.06917	0.00000	33.5	33.5	
			Open 103105 LONG MTN	345	103117	CTNY398	345	1				0.14106	0.49035	308.5	1003.5
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1				-0.00156	0.00000	0.2	0.2
3	1417.2	1336.5	L: 103166 NORHR138 C:SER:PV_LM_398	138	129343	NRTHPT P	138	1	77.0	175.0	0.06917	0.00000	33.5	33.5	
			Open 103105 LONG MTN	345	103117	CTNY398	345	1				0.14106	0.49035	308.5	1003.5
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1				-0.00156	0.00000	0.2	0.2
4	1417.2	1336.5	L: 103166 NORHR138 C:SER:PV_LM_398	138	129343	NRTHPT P	138	3	77.0	175.0	0.06917	0.00000	33.5	33.5	
			Open 103105 LONG MTN	345	103117	CTNY398	345	1				0.14106	0.49035	308.5	1003.5

NE-NY

			Open 103117 CTNY398	345 126294 PLTVLLEY	345 1				-0.00156	0.00000	0.2	0.2
5	1417.7	1337.0	L: 103166 NORHR138	138 129343 NRTHPT P	138 1	76.9	175.0	0.06917	0.00000	0.00000	33.5	33.5
			C:103117 CTNY398	345 126294 PLTVLLEY	345 1 1362							
			Open 103117 CTNY398	345 126294 PLTVLLEY	345 1				0.14106	0.49035	308.3	1003.5
6	1417.7	1337.0	L: 103166 NORHR138	138 129343 NRTHPT P	138 3	76.9	175.0	0.06917	0.00000	0.00000	33.5	33.5
			C:103117 CTNY398	345 126294 PLTVLLEY	345 1 1362							
			Open 103117 CTNY398	345 126294 PLTVLLEY	345 1				0.14106	0.49035	308.3	1003.5
7	1417.7	1337.0	L: 103166 NORHR138	138 129343 NRTHPT P	138 2	76.9	175.0	0.06917	0.00000	0.00000	33.5	33.5
			C:103117 CTNY398	345 126294 PLTVLLEY	345 1 1362							
			Open 103117 CTNY398	345 126294 PLTVLLEY	345 1				0.14106	0.49035	308.3	1003.5
8	1808.3	1727.6	L: 103117 CTNY398	345 126294 PLTVLLEY	345 1	308.3	1195.0	0.49035				
			Base Case									
9	1852.0	1771.3	L: 126266 DUNWODIE	345 126600 REAC71	345 SR	695.8	783.0	0.04709				
			Base Case									
10	1852.0	1771.3	L: 126600 REAC71	345 126641 MOTT HAVEN	345 3	695.8	783.0	0.04709				
			Base Case									
11	1966.9	1886.2	L: 126266 DUNWODIE	345 126601 REAC72	345 SR	691.0	783.0	0.04676				
			Base Case									
12	1967.0	1886.2	L: 126601 REAC72	345 126641 MOTT HAVEN	345 4	691.0	783.0	0.04676				
			Base Case									
13	2141.1	2060.4	L: 129343 NRTHPT P	138 129344 NRTHPT1	138 1	230.7	675.0	0.20750	0.00000	0.00000	100.2	100.2
			C:SER:PV_LM_398		1597							
			Open 103105 LONG MTN	345 103117 CTNY398	345 1				0.42317	0.49035	308.5	1358.4
			Open 103117 CTNY398	345 126294 PLTVLLEY	345 1				-0.00468	0.00000	0.2	0.2
14	2141.5	2060.8	L: 129343 NRTHPT P	138 129344 NRTHPT1	138 1	230.6	675.0	0.20750	0.00000	0.00000	100.2	100.2
			C:103117 CTNY398	345 126294 PLTVLLEY	345 1 1362							
			Open 103117 CTNY398	345 126294 PLTVLLEY	345 1				0.42317	0.49035	308.3	1358.4
15	2262.8	2182.1	L: 103117 CTNY398	345 126294 PLTVLLEY	345 1	165.3	1685.0	0.67158	0.49035	0.49035	308.3	1417.9
			C:SER:393&312		1589							
			Open 102928 MANY393	345 137450 ALPS345	345 1				0.37196	0.37891	-348.3	509.2
			Open 102924 BERKSHRE	345 102928 MANY393	345 1	NA						
			Open 102924 BERKSHRE	345 102926 NRTHFLD	345 1				-0.12162	-0.33123	114.5	-635.0
			Open 102924 BERKSHRE	345 102952 BERKSHIR	115 1				0.37891	0.00000	1.3	1.3
16	2284.0	2203.3	L: 103117 CTNY398	345 126294 PLTVLLEY	345 1	160.6	1685.0	0.66743	0.49035	0.49035	308.3	1428.3
			C:BUS:ALPS_345		1616							
			Open 137450 ALPS345	345 137452 N.SCOT77	345 1				0.48310	0.30427	-92.7	602.3
			Open 137450 ALPS345	345 137454 REYNLD3	345 1				0.40307	0.07464	-256.3	-85.8
			Open 102928 MANY393	345 137450 ALPS345	345 1				0.47546	0.00000	0.7	0.7
17	2309.6	2228.9	L: 103117 CTNY398	345 126294 PLTVLLEY	345 1	146.9	1685.0	0.66596	0.49035	0.49035	308.3	1440.8
			C:102928 MANY393	345 137450 ALPS345	345 1 1361							
			Open 102928 MANY393	345 137450 ALPS345	345 1				0.46344	0.37891	-348.3	526.9
18	2328.2	2247.5	L: 103117 CTNY398	345 126294 PLTVLLEY	345 1	316.7	1685.0	0.58772	0.49035	0.49035	308.3	1449.9

ZoneA-ONT

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 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From A_EXPORT To ONTARIO_IMPORT. Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 5535 violations

Interface-1 Interface 37 ZoneA-ONT Init.Flow= 742.79 TDF= 0.7577

N	FCITC	IntFcel	L: Limiting constraint			PreShift	MW	TDF		PTDF	=Base Case Flow=
			C: Contingency description			Ncon	Flow Rating		LODF		Init Final
1	-1897.6	-695.1	L: Interface 23 QFW			1350.8	0.0	0.71181		0.71181	1095.5 -255.3
			C:GEN:BRUCE 6			1564					
			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5 MW	dispatch					
2	-1767.2	-596.3	L: Interface 23 QFW			1257.9	0.0	0.71181		0.71181	1095.5 -162.5
			C:GEN:NANTCK 8			1565					
			Remove unit 1 from bus 158743 NANTICG8	22.0	490.0 MW	dispatch					
3	-1761.5	-592.0	L: Interface 23 QFW			1253.9	0.0	0.71181		0.71181	1095.5 -158.4
			C:GEN:PICKER 6			1566					
			Remove unit 1 from bus 156683 PIC B G5	24.0	510.9 MW	dispatch					
4	-1676.3	-527.4	L: Interface 23 QFW			1183.0	-0.0	0.70574		0.71181	1095.5 -97.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226			
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		0.20740	-0.02924	422.3 471.3
5	-1654.7	-511.0	L: Interface 23 QFW			1177.2	-0.0	0.71143		0.71181	1095.5 -82.3

ZoneA-ONT

1775	1428.7	1825.4	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	233.6	482.0	0.17389				
			Base Case												
1776	1465.4	1853.2	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	258.5	528.0	0.18390	0.17389	233.6	488.4	
			C:147834 NIAG 345	345	147841	NIAGAR2E	230	1	1223						
			Open 147834 NIAG 345	345	147841	NIAGAR2E	230	1				-0.13471	-0.07431	-185.2	-294.1
1777	1465.4	1853.2	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	258.5	528.0	0.18390	0.17389	233.6	488.4	
			C:147834 NIAG 345	345	147841	NIAGAR2E	230	2	1224						
			Open 147834 NIAG 345	345	147841	NIAGAR2E	230	2				-0.13471	-0.07431	-185.2	-294.1
1778	1507.1	1884.8	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	265.9	528.0	0.17389	0.17389	233.6	495.6	
			C:GEN:NANTCK 8						1565						
			Remove unit 1 from bus 158743 NANTICG8	22.0	490.0	MW	dispatch								
1779	1510.2	1887.1	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	265.4	528.0	0.17389	0.17389	233.6	496.2	
			C:GEN:PICKER 6						1566						
			Remove unit 1 from bus 156683 PIC B G5	24.0	510.9	MW	dispatch								
1780	1517.1	1892.3	L: Interface 26 ONTARIO-MICH						367.5	0.0	-0.24226	-0.24226	736.0	368.5	
			C:GEN:BRUCE 6						1564						
			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5	MW	dispatch								
1781	1559.7	1924.6	*L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	254.2	528.0	0.17557	0.17389	233.6	504.8	
			C:130764 MEYER230	230	131122	WTHRS230	230	1	221						
			Open 130764 MEYER230	230	131122	WTHRS230	230	1				-0.08642	-0.01942	-238.5	-268.8
3507	1737.5	2059.4	L: Interface 26 ONTARIO-MICH						398.7	0.0	-0.22949	-0.24226	736.0	315.1	
			C:LAMBT7/LAMGEN						1646						
			Open 160050 LAMB L4D	345	B\$1020	LAMBTON T7	1.00	T7				0.06606	0.05252	-234.0	-142.7
			Open 160064 LAMB T78	220	B\$1020	LAMBTON T7	1.00	T7				0.72540	0.00000	0.3	0.3
			Set bus 160705 LAMBTNG4	24.0	generation	to			0.0	MW	dispatch				
3508	1738.1	2059.8	L: Interface 26 ONTARIO-MICH						398.9	-0.0	-0.22953	-0.24226	736.0	314.9	
			C:LAMBT8/LAMGEN						1647						
			Open 160050 LAMB L4D	345	B\$1021	LAMBTON T8	1.00	T8				0.06583	0.05212	-232.1	-141.5
			Open 160064 LAMB T78	220	B\$1021	LAMBTON T8	1.00	T8				0.72556	0.00000	0.4	0.4
			Set bus 160705 LAMBTNG4	24.0	generation	to			0.0	MW	dispatch				
3525	1779.2	2091.0	L: 135415 PACKARD2	230	157062	BCK2BP76	230	1	218.3	557.0	0.19034	0.14805	161.5	424.9	
			C:147842 NIAGAR2W	230	157063	BCK2PA27	230	1	1389						
			Open 147842 NIAGAR2W	230	157063	BCK2PA27	230	1				0.24323	0.17389	233.6	542.9
3543	1915.3	2194.1	L: Interface 26 ONTARIO-MICH						439.6	-0.0	-0.22949	-0.24226	736.0	272.0	
			C:L4D+G3						1644						
			Open 160050 LAMB L4D	345	B\$1020	LAMBTON T7	1.00	T7				0.06606	0.05252	-234.0	-133.4
			Open 160064 LAMB T78	220	B\$1020	LAMBTON T7	1.00	T7				0.72540	0.00000	0.3	0.3
			Open 160069 LAMBTPK2	220	160704	LAMBTNG3	24.0	T3				0.65716	0.01415	62.1	89.2
			Remove unit 1 from bus 160704 LAMBTNG3	24.0	490.0	MW	dispatch								
3544	1915.9	2194.6	L: Interface 26 ONTARIO-MICH						439.8	-0.0	-0.22953	-0.24226	736.0	271.9	
			C:L51D+G3						1645						
			Open 160050 LAMB L4D	345	B\$1021	LAMBTON T8	1.00	T8				0.06583	0.05212	-232.1	-132.2

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			Open 160064 LAMB T78	220	B\$1021 LAMBTON T8	1.00	T8		0.72556	0.00000	0.4	0.4
			Open 160069 LAMBTPK2	220	160704 LAMBTNG3	24.0	T3		0.65727	0.01415	62.1	89.2
			Remove unit 1 from bus 160704 LAMBTNG3 24.0 490.0 MW dispatch									
3545	1970.2	2235.7	L: 135250 DUNKIRK	230	135391 DUNKGEN4	13.8	1		-178.0	-249.0	-0.03603	
			Base Case									
3546	2007.8	2264.2	L: 135250 DUNKIRK	230	135390 DUNKGEN3	13.8	1		-177.0	-249.0	-0.03584	
			Base Case									
3547	2009.7	2265.6	L: 135415 PACKARD2	230	157062 BCK2BP76	230	1		189.4	557.0	0.18293	0.14805 161.5 459.1
			C:147834 NIAG 345	345	157050 BECK A	345	1 1385					
			Open 147834 NIAG 345	345	157050 BECK A	345	1		0.16007	0.21790	173.9	611.8
3548	2009.8	2265.7	L: 135415 PACKARD2	230	157062 BCK2BP76	230	1		189.4	557.0	0.18293	0.14805 161.5 459.1
			C:147834 NIAG 345	345	157051 BECK B	345	1 1386					
			Open 147834 NIAG 345	345	157051 BECK B	345	1		0.16007	0.21790	173.8	611.7
3549	2051.3	2297.2	L: 135414 HUNTLEY2	230	135800 HNTLY67G	13.8	1		-175.9	-249.0	-0.03562	
			Base Case									
3550	2054.6	2299.7	L: Interface 26 ONTARIO-MICH						582.1	0.0	-0.28329	-0.24226 736.0 238.2
			C:GEN:KINTIGH-New				1777					
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	1		0.00000	-0.07689	-288.5	-446.5
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	2		0.26645	-0.15400	-577.7	-894.1
3551	2070.0	2311.3	L: 135415 PACKARD2	230	157062 BCK2BP76	230	1		161.5	468.0	0.14805	
			Base Case									
3552	2076.3	2316.1	L: 135415 PACKARD2	230	157062 BCK2BP76	230	1		209.1	557.0	0.16754	0.14805 161.5 468.9
			C:147834 NIAG 345	345	147842 NIAGAR2W	230	1 1225					
			Open 147834 NIAG 345	345	147842 NIAGAR2W	230	1		-0.13223	-0.14746	-359.8	-666.0
3553	2082.2	2320.5	L: Interface 26 ONTARIO-MICH						504.4	0.0	-0.24226	-0.24226 736.0 231.6
			C:HQ-NY-765-New				1778					
			Open 147827 MARCY765	765	147828 MASS 765	765	1		NA			
			Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA			
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.13560	-0.00001	624.7	624.7
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.13560	-0.00001	543.6	543.6
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1		NA			
			Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	0.00001	10.3	10.4
			Open 147828 MASS 765	765	147838 MASS230B	230	1		NA			
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.35776	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1		NA			
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1		NA			
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1		NA			
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch					
3554	2111.6	2342.8	L: Interface 26 ONTARIO-MICH						511.5	0.0	-0.24226	-0.24226 736.0 224.5

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			Open 130815 HINMN115	115	131611 HARS115	115	1		1.00000	-0.00956	-198.4	-222.8	
3604	2622.9	2730.3	L: 135460 PACK(N)E	115	147850 NIAG115E	115	2	-218.9	-328.0	-0.04161	-0.02596	-136.5	-204.6
			C:135460 PACK(N)E	115	147850 NIAG115E	115	1	610					
			Open 135460 PACK(N)E	115	147850 NIAG115E	115	1		0.63484	-0.02466	-129.7	-194.4	
5198	2675.6	2770.2	L: 147834 NIAG 345	345	147841 NIAGAR2E	230	2	-185.2	-384.0	-0.07431			
			Base Case										
5199	2675.6	2770.2	L: 147834 NIAG 345	345	147841 NIAGAR2E	230	1	-185.2	-384.0	-0.07431			
			Base Case										
5269	2685.4	2777.6	L: 147842 NIAGAR2W	230	147850 NIAG115E	115	1	-16.2	-192.0	-0.06547			
			Base Case										
5344	2761.3	2835.1	L: 147834 NIAG 345	345	147842 NIAGAR2W	230	1	-359.8	-767.0	-0.14746			
			Base Case										
5347	2774.3	2845.0	L: 135460 PACK(N)E	115	147850 NIAG115E	115	1	-214.7	-328.0	-0.04082	-0.02466	-129.7	-198.1
			C:135460 PACK(N)E	115	147850 NIAG115E	115	2	611					
			Open 135460 PACK(N)E	115	147850 NIAG115E	115	2		0.62283	-0.02596	-136.5	-208.5	

ONT-ZoneA

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- TUE, APR 07 2009 14:51
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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Study transfer. From ONTARIO_EXPORT To A_IMPORT . Transfer level - 5000.0 MW

Violations report ordered by transfer capability. Total 12531 violations

Interface-1 Interface 38 ONT-ZoneA Init.Flow= -742.79 TDF= 0.7890

N	FCITC	IntFcel	L: Limiting constraint		PreShift	MW	TDF		PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating		LODF		Init Final
1	-108978.	-86730.8	L: Interface 20 PJM-CENT		3966.3	-0.0	0.03639		0.03639	3269.0 -697.2
			C:GEN:PEACHBTM	1568						
			Remove unit 1 from bus	34 PCHBTM 2	22.0	1060.3 MW	dispatch			
2	-107558.	-85611.1	L: Interface 20 PJM-CENT		3914.6	0.0	0.03639		0.03639	3269.0 -645.6
			C:GEN:SALEM	1567						
			Remove unit 1 from bus	36 SALEM-G1	22.0	1117.3 MW	dispatch			
3	-106732.	-84958.8	L: Interface 20 PJM-CENT		3298.4	-0.0	0.03090		0.03639	3269.0 -615.5
			C:ETHS/LLGD	1649						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1	0.19432	-0.02343 117.6 2618.6
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1	0.17004	-0.00552 38.0 627.0
4	-104074.	-82861.9	L: Interface 20 PJM-CENT		3787.8	-0.0	0.03639		0.03639	3269.0 -518.7
			C:SIN:250	1677						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2	-0.00004	0.00000 -0.1 -0.1

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		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
5	-103090.-82085.4	L:	Interface 20 PJM-CENT					3752.0	0.0	0.03639	0.03639	3269.0	-482.9	
		C:GEN:	MLS3&OMS					1574						
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1
			Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
6	-103090.-82085.4	L:	Interface 20 PJM-CENT					3752.0	0.0	0.03639	0.03639	3269.0	-482.9	
		C:GEN:	MILLST 3					1572						
			Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
7	-103018.-82028.3	L:	Interface 20 PJM-CENT					3749.3	-0.0	0.03639	0.03639	3269.0	-480.3	
		C:GEN:	SEABROOK					1573						
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
8	-103018.-82028.3	L:	Interface 20 PJM-CENT					3749.3	-0.0	0.03639	0.03639	3269.0	-480.3	
		C:GEN:	SEAB&OMS					1575						
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
9	-102212.-81392.8	L:	Interface 20 PJM-CENT					3720.0	0.0	0.03639	0.03639	3269.0	-451.0	
		C:GEN:	IND PT 3					1555						
			Remove unit 1	from bus 147798 IP#3 GEN	22.0	1072.8	MW	dispatch						
10	-102149.-81343.1	*L:	Interface 20 PJM-CENT					3717.7	0.0	0.03639	0.03639	3269.0	-448.7	
		C:GEN:	IND PT 2					1554						
			Remove unit 2	from bus 126651 IND PT 2	22.0	1053.7	MW	dispatch						
1765	-4116.4 -3990.8	L:	Interface 26 ONTARIO-MICH					732.5	-0.0	0.17795	0.21096	736.0	-132.4	
		C:SER:	EESR/WF/NWES					1611						
			Open 135251 S RIPLEY	230	200654	ERIE	E	230	1		0.31078	-0.08184	11.3	348.2
			Open 135277 FALCONER	115	200579	WARREN		115	1		0.26338	-0.02708	-35.9	75.6
			Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		0.05776	-0.00760	43.0	74.3
1766	-4089.5 -3969.5	L:	Interface 26 ONTARIO-MICH					730.1	-0.0	0.17853	0.21096	736.0	-126.7	
		C:SER:	EESR/WRFL					1609						
			Open 135251 S RIPLEY	230	200654	ERIE	E	230	1		0.30958	-0.08184	11.3	346.0
			Open 135277 FALCONER	115	200579	WARREN		115	1		0.26197	-0.02708	-35.9	74.8
1767	-4044.7 -3934.2	L:	Interface 26 ONTARIO-MICH					722.1	-0.0	0.17853	0.21096	736.0	-117.3	
		C:SER:	ESEE/WRFL					1610						
			Open 270 ERIE SO.	230	531	ERIE	SE	230	1		0.00196	0.04055	16.5	-147.5
			Open 531 ERIE SE	230	200654	ERIE	E	230	1		-0.31072	0.08184	14.7	-316.4
			Open 135277 FALCONER	115	200579	WARREN		115	1		0.26160	-0.02708	-35.9	73.6
1768	-3911.0 -3828.7	L:	Interface 26 ONTARIO-MICH					741.2	0.0	0.18951	0.21096	736.0	-89.1	
		C:SER:	EESR/NWES					1608						
			Open 135251 S RIPLEY	230	200654	ERIE	E	230	1		0.25715	-0.08184	11.3	331.4
			Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		0.05302	-0.00760	43.0	72.7
1769	-3889.2 -3811.6	L:	Interface 26 ONTARIO-MICH					738.9	0.0	0.18998	0.21096	736.0	-84.5	
		C:	135251 S RIPLEY	230	200654	ERIE	E	230	1	1378				
			Open 135251 S RIPLEY	230	200654	ERIE	E	230	1		0.25631	-0.08184	11.3	329.6

ONT-ZoneA

1770	-3739.1	-3693.1	L: Interface	26	ONTARIO-MICH				788.3	0.0	0.21084		0.21096	736.0	-52.8
			C:BUS:N.S._99												
			Open	137453	N.SCOT99	345	147831	GILB 345	345	1		0.00346	-0.00228	-310.7	-302.2
			Open	137453	N.SCOT99	345	147833	MARCY T1	345	1		-0.04494	0.00219	-916.1	-924.3
			Open	137453	N.SCOT99	345	137516	N.SCOT1	115	1		-0.00395	0.00006	118.7	118.4
			Open	137451	LEEDS 3	345	137453	N.SCOT99	345	2		-0.01445	0.00100	-858.5	-862.2
			Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1		0.20105	0.00000	1.6	1.6
1771	-3724.1	-3681.3	L: Interface	26	ONTARIO-MICH				785.2	-0.0	0.21085		0.21096	736.0	-49.6
			C:SIN:180												
			Open	137453	N.SCOT99	345	147833	MARCY T1	345	1		-0.04888	0.00219	-916.1	-924.2
			Open	137228	INGMS-CD	115	137886	INGHAM-E	115	1		0.03730	0.00000	119.9	119.9
			Open	137235	PORTER 1	115	147905	ILION	115	1		-0.00004	0.00000	88.8	88.8
1772	-3724.1	-3681.3	L: Interface	26	ONTARIO-MICH				785.2	0.0	0.21085		0.21096	736.0	-49.6
			C:SIN:170												
			Open	137453	N.SCOT99	345	147833	MARCY T1	345	1		-0.04888	0.00219	-916.1	-924.2
			Open	137228	INGMS-CD	115	137886	INGHAM-E	115	1		0.03730	0.00000	119.9	119.9
			Open	137235	PORTER 1	115	137246	VALLEY	115	1		-0.00005	0.00000	74.8	74.8
1773	-3716.7	-3675.5	L: Interface	26	ONTARIO-MICH				783.7	-0.0	0.21086		0.21096	736.0	-48.1
			C:BUS:N.S._77												
			Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1		-0.01429	-0.00103	-248.0	-244.2
			Open	137452	N.SCOT77	345	137516	N.SCOT1	115	1		-0.01757	0.00005	111.8	111.6
			Open	137200	EDIC	345	137452	N.SCOT77	345	1		0.05764	-0.00203	819.4	827.0
			Open	137450	ALPS345	345	137452	N.SCOT77	345	1		0.01190	0.00004	-92.7	-92.8
			Open	137451	LEEDS 3	345	137452	N.SCOT77	345	1		0.18720	0.00000	-0.0	-0.0
1774	-3710.0	-3670.2	*L: Interface	26	ONTARIO-MICH				782.3	-0.0	0.21085		0.21096	736.0	-46.7
			C:130750 COOPC345	345	147833	MARCY T1	345	1	196						
			Open	130750	COOPC345	345	147833	MARCY T1	345	1		-0.06260	0.00176	-739.1	-745.7
3534	635.6	-241.3	L: 135277 FALCONER	115	200579	WARREN	115	1	-94.0	-116.0	-0.03463		-0.02708	-35.9	-53.1
			C:135398 SW345	345	200769	HOMER CY	345	1	1380						
			Open	135398	SW345	345	200769	HOMER CY	345	1		0.15350	-0.04915	-378.4	-409.6
3535	1409.8	369.6	L: Interface	23	QFW				910.4	0.0	-0.64580		-0.64580	1095.5	185.0
			C:GEN:9 MI PT2												
			Remove unit 2 from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch						
3536	1422.5	379.6	L: Interface	23	QFW				918.7	0.0	-0.64580		-0.64580	1095.5	176.8
			C:HQ-NY-765-New												
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA				
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA				
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		-0.25138	0.00001	624.7	624.7
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		-0.25138	0.00000	543.6	543.6
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA				
			Open	147838	MASS230B	230	147839	MOSES E	230	1		0.00000	-0.00001	10.3	10.3
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA				

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			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.09617	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch					
3537	1456.4	406.4	L: Interface 23 QFW						940.5	-0.0	-0.64580	-0.64580	1095.5 154.9
			C:GEN:GINNA			1562							
			Remove unit 1 from bus 149140 GINNA 19	19.0	605.0	MW		dispatch					
3538	1457.3	407.1	L: Interface 23 QFW						972.3	0.0	-0.66721	-0.64580	1095.5 154.4
			C:SER:HC-SR_37&W-F_171			1600							
			Open 135398 SW345	345	200769 HOMER CY	345	1		0.30257	-0.04915	-378.4	-450.0	
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.24131	-0.02708	-35.9	-75.4	
3539	1459.7	409.0	L: Interface 23 QFW						892.6	0.0	-0.61148	-0.64580	1095.5 152.8
			C:GEN:KINTIGH-New			1777							
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	1		0.00000	0.04880	-288.5	-217.2	
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	2		0.35120	0.09773	-577.7	-435.1	
3540	1496.5	438.0	L: Interface 23 QFW						966.4	-0.0	-0.64580	-0.64580	1095.5 129.0
			C:GEN:SEAB&OMS			1575							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW		dispatch					
3541	1496.5	438.0	L: Interface 23 QFW						966.4	-0.0	-0.64580	-0.64580	1095.5 129.0
			C:GEN:SEABROOK			1573							
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW		dispatch					
3542	1501.6	442.0	L: Interface 23 QFW						969.7	-0.0	-0.64580	-0.64580	1095.5 125.8
			C:SIN:250			1677							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW		dispatch					
3543	1503.2	443.3	L: Interface 23 QFW						970.7	0.0	-0.64580	-0.64580	1095.5 124.7
			C:GEN:MILLST 3			1572							
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW		dispatch					
3544	1503.2	443.3	*L: Interface 23 QFW						970.7	0.0	-0.64580	-0.64580	1095.5 124.7
			C:GEN:MLS3&OMS			1574							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00003	0.00000	-0.1	-0.1	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW		dispatch					
3554	1571.1	496.9	L: 135277 FALCONER	115	200579 WARREN	115	1		-65.6	-116.0	-0.03209	-0.02708	-35.9 -78.5
			C:135398 SW345	345	135564 SW115	115	1 517						
			Open 135398 SW345	345	135564 SW115	115	1		-0.20297	0.02465	146.2	185.0	
3596	1672.2	576.6	L: 135277 FALCONER	115	200579 WARREN	115	1		-49.1	-116.0	-0.04000	-0.02708	-35.9 -81.2
			C:135250 DUNKIRK	230	135251 S RIPLEY	230	1 422						

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				Open 135250 DUNKIRK	230	135251 S RIPLEY	230	1				0.20334	-0.06355	-64.9	-171.2		
5303	1884.4	744.1	L:	135277 FALCONER	115	200579 WARREN	115	1				-33.6	-116.0	-0.04372	-0.02708	-35.9	-86.9
				C:135251 S RIPLEY	230	200654 ERIE E	230	1	1378								
				Open 135251 S RIPLEY	230	200654 ERIE E	230	1				0.20334	-0.08184	11.3	-142.9		
5304	1895.2	752.6	L:	135277 FALCONER	115	200579 WARREN	115	1				-32.8	-116.0	-0.04388	-0.02708	-35.9	-87.2
				C:SER:EESR/NWES					1608								
				Open 135251 S RIPLEY	230	200654 ERIE E	230	1				0.20363	-0.08184	11.3	-143.8		
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.01801	-0.00760	43.0	28.6		
5308	2704.2	1390.9	L:	135415 PACKARD2	230	135460 PACK(N)E	115	1				14.7	141.0	0.04669			
				Base Case													
5309	2740.4	1419.5	L:	135415 PACKARD2	230	135461 PACK(S)W	115	2				14.6	141.0	0.04613			
				Base Case													
5310	2852.9	1508.2	L:	147842 NIAGAR2W	230	147850 NIAG115E	115	1				-16.2	192.0	0.07297			
				Base Case													
5311	3409.9	1947.8	L:	Interface	19	PJM-NY						2394.6	3114.0	0.21096	0.21096	1498.2	2217.5
				C:GEN:SEABROOK					1573								
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch										
5312	3409.9	1947.8	L:	Interface	35	NY-PJM						-2394.6	-3114.0	-0.21096	-0.21096	-1498.2	-2217.5
				C:GEN:SEAB&OMS					1575								
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00004	0.00000	-0.1	-0.1		
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch										
5313	3409.9	1947.8	L:	Interface	19	PJM-NY						2394.6	3114.0	0.21096	0.21096	1498.2	2217.5
				C:GEN:SEAB&OMS					1575								
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00004	0.00000	-0.1	-0.1		
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch										
5314	3409.9	1947.8	L:	Interface	35	NY-PJM						-2394.6	-3114.0	-0.21096	-0.21096	-1498.2	-2217.5
				C:GEN:SEABROOK					1573								
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch										
5315	3424.5	1959.3	L:	147842 NIAGAR2W	230	157063 BCK2PA27	230	1				270.2	-528.0	-0.23308	-0.18625	233.6	-404.3
				C:147834 NIAG 345	345	157051 BECK B	345	1	1386								
				Open 147834 NIAG 345	345	157051 BECK B	345	1				0.21066	-0.22228	173.8	-587.4		
5316	3424.6	1959.3	L:	147842 NIAGAR2W	230	157063 BCK2PA27	230	1				270.2	-528.0	-0.23308	-0.18625	233.6	-404.3
				C:147834 NIAG 345	345	157050 BECK A	345	1	1385								
				Open 147834 NIAG 345	345	157050 BECK A	345	1				0.21066	-0.22228	173.9	-587.3		
5317	3430.1	1963.7	L:	Interface	35	NY-PJM						-2390.4	-3114.0	-0.21096	-0.21096	-1498.2	-2221.8
				C:SIN:250					1677								
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00004	0.00000	-0.1	-0.1		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch										
5318	3430.1	1963.7	L:	Interface	19	PJM-NY						2390.4	3114.0	0.21096	0.21096	1498.2	2221.8
				C:SIN:250					1677								
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00004	0.00000	-0.1	-0.1		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch										

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5319	3475.9	1999.9	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	281.0	-528.0	-0.23275	-0.18625	233.6	-413.8
			C:135415 PACKARD2	230	157062	BCK2BP76	230	1	1381					
			Open 135415 PACKARD2	230	157062	BCK2BP76	230	1			0.29388	-0.15822	161.5	-388.4
5320	3485.8	2007.7	L: Interface	19	PJM-NY				2378.6	3114.0	0.21096	0.21096	1498.2	2233.6
			C:GEN:MILLST 3					1572						
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
5321	3485.8	2007.7	L: Interface	35	NY-PJM				-2378.6	-3114.0	-0.21096	-0.21096	-1498.2	-2233.6
			C:GEN:MILLST 3					1572						
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
5322	3485.8	2007.7	L: Interface	19	PJM-NY				2378.6	3114.0	0.21096	0.21096	1498.2	2233.6
			C:GEN:MLS3&OMS					1574						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
5323	3485.8	2007.7	L: Interface	35	NY-PJM				-2378.6	-3114.0	-0.21096	-0.21096	-1498.2	-2233.6
			C:GEN:MLS3&OMS					1574						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00004	0.00000	-0.1	-0.1
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
5324	3503.6	2021.7	L: 147842 NIAGAR2W	230	147850	NIAG115E	115	1	-22.3	288.0	0.08858	0.07297	-16.2	239.5
			C:147842 NIAGAR2W	230	147851	NIAG115W	115	1	1241					
			Open 147842 NIAGAR2W	230	147851	NIAG115W	115	1			0.22041	0.07080	-27.9	220.1
5325	3612.7	2107.8	L: 147842 NIAGAR2W	230	147850	NIAG115E	115	1	9.1	288.0	0.07721	0.07297	-16.2	247.4
			C:SER:HC-SR_37&W-F_171					1600						
			Open 135398 SW345	345	200769	HOMER CY	345	1			-0.06263	-0.04915	-378.4	-556.0
			Open 135277 FALCONER	115	200579	WARREN	115	1			-0.04285	-0.02708	-35.9	-133.7
5326	3629.3	2120.9	L: 147842 NIAGAR2W	230	147851	NIAG115W	115	1	-27.9	229.0	0.07080			
			Base Case											
5327	3638.5	2128.2	L: 147842 NIAGAR2W	230	147850	NIAG115E	115	1	16.5	288.0	0.07461	0.07297	-16.2	249.3
			C:130815 HINMN115	115	131611	HARIS115	115	1	312					
			Open 130815 HINMN115	115	131611	HARIS115	115	1			-0.16482	-0.00995	-198.4	-234.6
5328	3659.1	2144.4	L: 147842 NIAGAR2W	230	147850	NIAG115E	115	1	14.1	288.0	0.07485	0.07297	-16.2	250.8
			C:130815 HINMN115	115	135452	LOCKPORT	115	1	313					
			Open 130815 HINMN115	115	135452	LOCKPORT	115	1			0.17739	0.01057	170.9	209.5
5329	3675.3	2157.1	L: 147842 NIAGAR2W	230	147850	NIAG115E	115	1	-13.3	288.0	0.08199	0.07297	-16.2	252.0
			C:135415 PACKARD2	230	135460	PACK(N)E	115	1	536					
			Open 135415 PACKARD2	230	135460	PACK(N)E	115	1			0.19313	0.04669	14.7	186.3
5330	3681.7	2162.2	L: 147842 NIAGAR2W	230	147850	NIAG115E	115	1	3.8	288.0	0.07720	0.07297	-16.2	252.5
			C:130766 ROBIN230	230	147841	NIAGAR2E	230	1	225					
			Open 130766 ROBIN230	230	147841	NIAGAR2E	230	1			-0.13497	-0.03131	-147.9	-263.1
5331	3683.1	2163.3	L: 147842 NIAGAR2W	230	147850	NIAG115E	115	1	-13.4	288.0	0.08183	0.07297	-16.2	252.6
			C:135415 PACKARD2	230	135461	PACK(S)W	115	2	537					
			Open 135415 PACKARD2	230	135461	PACK(S)W	115	2			0.19196	0.04613	14.6	184.5
5332	3699.3	2176.1	L: Interface	19	PJM-NY				2333.6	3114.0	0.21096	0.21096	1498.2	2278.6

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			C:HQ-NY-765-New			1778									
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833	MARCY T1	345	1		0.14597	0.00001	624.7	624.7		
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		0.14597	0.00000	543.6	543.6		
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.00001	10.3	10.3		
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839	MOSES E	230	1		-0.61013	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by		100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to		357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by		100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to		357.0	MW dispatch							
5333	3699.3	2176.1	L: Interface 35 NY-PJM							-2333.6	-3114.0	-0.21096	-0.21096	-1498.2	-2278.6
			C:HQ-NY-765-New				1778								
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833	MARCY T1	345	1		-0.14597	0.00001	624.7	624.7		
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		-0.14597	0.00000	543.6	543.6		
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839	MOSES E	230	1		0.00000	-0.00001	10.3	10.3		
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839	MOSES E	230	1		0.61013	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by		100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to		357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by		100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to		357.0	MW dispatch							
5334	3736.7	2205.6	L: 147842 NIAGAR2W	230	147850	NIAG115E	115	1		5.0	288.0	0.07573	0.07297	-16.2	256.5
			C:135398 SW345	345	200769	HOMER CY	345	1	1380						
			Open 135398 SW345	345	200769	HOMER CY	345	1		-0.05605	-0.04915	-378.4	-562.1		
5335	3756.1	2220.9	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1		196.0	-528.0	-0.19275	-0.18625	233.6	-466.0
			C:SER:HC-SR_37&W-F_171				1600								
			Open 135398 SW345	345	200769	HOMER CY	345	1		0.09245	-0.04915	-378.4	-563.0		
			Open 135277 FALCONER	115	200579	WARREN	115	1		0.07206	-0.02708	-35.9	-137.6		
5336	3790.3	2247.9	L: 147842 NIAGAR2W	230	147850	NIAG115E	115	1		6.3	288.0	0.07433	0.07297	-16.2	260.4
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226						

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			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		0.05316	0.02552	422.3	519.0	
5337	3808.6	2262.3	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	297.6	-528.0	-0.21678	-0.18625	233.6	-475.8
			C:147834 NIAG 345	345	147842 NIAGAR2W	230	1 1225						
			Open 147834 NIAG 345	345	147842 NIAGAR2W	230	1		-0.17809	0.17145	-359.8	293.1	
5338	3809.6	2263.1	L: 135415 PACKARD2	230	157062 BCK2BP76	230	1	218.3	-557.0	-0.20353	-0.15822	161.5	-441.2
			C:147842 NIAGAR2W	230	157063 BCK2PA27	230	1 1389						
			Open 147842 NIAGAR2W	230	157063 BCK2PA27	230	1		0.24323	-0.18625	233.6	-476.0	
5339	3836.5	2284.4	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	228.8	-528.0	-0.19726	-0.18625	233.6	-481.0
			C:SER:ESEE/WRFL				1610						
			Open 270 ERIE SO.	230	531 ERIE SE	230	1		0.00022	0.04055	16.5	172.1	
			Open 531 ERIE SE	230	200654 ERIE E	230	1		-0.10459	0.08184	14.7	328.6	
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.09060	-0.02708	-35.9	-139.8	
5340	3841.0	2287.9	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	202.8	-528.0	-0.19025	-0.18625	233.6	-481.8
			C:135398 SW345	345	200769 HOMER CY	345	1 1380						
			Open 135398 SW345	345	200769 HOMER CY	345	1		0.08139	-0.04915	-378.4	-567.2	
5341	3841.9	2288.6	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	233.6	-482.0	-0.18625			
			Base Case										
5342	3845.6	2291.5	*L: 147842 NIAGAR2W	230	147850 NIAG115E	115	1	-10.7	288.0	0.07767	0.07297	-16.2	264.4
			C:130846 ROBIN115	115	130853 A.LUD TP	115	1 354						
			Open 130846 ROBIN115	115	130853 A.LUD TP	115	1		0.16482	0.02850	33.3	142.9	
5343	3850.2	2295.2	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	231.5	-528.0	-0.19726	-0.18625	233.6	-483.6
			C:SER:EESR/WRFL				1609						
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1		0.10446	-0.08184	11.3	-303.8	
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.09064	-0.02708	-35.9	-140.2	
5344	3850.4	2295.3	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	231.8	-528.0	-0.19734	-0.18625	233.6	-483.6
			C:SER:EESR/WF/NWES				1611						
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1		0.10464	-0.08184	11.3	-303.8	
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.09085	-0.02708	-35.9	-140.2	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.00848	-0.00760	43.0	13.7	
5345	3851.1	2295.9	L: 135415 PACKARD2	230	157062 BCK2BP76	230	1	189.4	-557.0	-0.19381	-0.15822	161.5	-447.8
			C:147834 NIAG 345	345	157051 BECK B	345	1 1386						
			Open 147834 NIAG 345	345	157051 BECK B	345	1		0.16007	-0.22228	173.8	-682.2	
5346	3851.2	2295.9	L: 135415 PACKARD2	230	157062 BCK2BP76	230	1	189.4	-557.0	-0.19381	-0.15822	161.5	-447.8
			C:147834 NIAG 345	345	157050 BECK A	345	1 1385						
			Open 147834 NIAG 345	345	157050 BECK A	345	1		0.16007	-0.22228	173.9	-682.1	
5352	3943.1	2368.5	*L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	228.0	-528.0	-0.19172	-0.18625	233.6	-500.9
			C:135250 DUNKIRK	230	135251 S RIPLEY	230	1 422						
			Open 135250 DUNKIRK	230	135251 S RIPLEY	230	1		0.08603	-0.06355	-64.9	-315.5	
5361	3978.8	2396.6	L: 135415 PACKARD2	230	157062 BCK2BP76	230	1	161.5	-468.0	-0.15822			
			Base Case										
5370	4000.8	2414.0	L: 135415 PACKARD2	230	135460 PACK(N)E	115	1	9.4	250.0	0.06013	0.04669	14.7	201.5
			C:147842 NIAGAR2W	230	147851 NIAG115W	115	1 1241						

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			Open 147842 NIAGAR2W	230 147851 NIAG115W	115 1				0.18981	0.07080	-27.9	255.3
5372	4012.0	2422.8	L: Interface	35 NY-PJM								
			C:GEN:IND PT 3		1555							
			Remove unit 1	from bus 147798 IP#3 GEN	22.0 1072.8	MW	dispatch					
5373	4012.0	2422.8	L: Interface	19 PJM-NY								
			C:GEN:IND PT 3		1555							
			Remove unit 1	from bus 147798 IP#3 GEN	22.0 1072.8	MW	dispatch					
5399	4046.8	2450.3	L: 135415 PACKARD2	230 135461 PACK(S)W	115 2			9.3 250.0	0.05948		0.04613	14.6 201.3
			C:147842 NIAGAR2W	230 147851 NIAG115W	115 1 1241							
			Open 147842 NIAGAR2W	230 147851 NIAG115W	115 1							
5417	4060.0	2460.7	L: Interface	19 PJM-NY								
			C:GEN:IND PT 2		1554							
			Remove unit 2	from bus 126651 IND PT 2	22.0 1053.7	MW	dispatch					
5418	4060.0	2460.7	L: Interface	35 NY-PJM								
			C:GEN:IND PT 2		1554							
			Remove unit 2	from bus 126651 IND PT 2	22.0 1053.7	MW	dispatch					
5421	4061.0	2461.5	L: 135415 PACKARD2	230 135460 PACK(N)E	115 1			12.1 250.0	0.05858		0.04669	14.7 204.4
			C:147842 NIAGAR2W	230 147850 NIAG115E	115 1 1240							
			Open 147842 NIAGAR2W	230 147850 NIAG115E	115 1							
6893	4090.3	2484.6	L: Interface	19 PJM-NY								
			C:GEN:9 MI PT2		1561							
			Remove unit 2	from bus 136700 9M PT 2G	25.0 1197.5	MW	dispatch					
6894	4090.3	2484.6	L: Interface	35 NY-PJM								
			C:GEN:9 MI PT2		1561							
			Remove unit 2	from bus 136700 9M PT 2G	25.0 1197.5	MW	dispatch					
7103	4105.3	2496.5	L: 135415 PACKARD2	230 157062 BCK2BP76	230 1			121.2 -557.0	-0.16520		-0.15822	161.5 -488.0
			C:SER:HC-SR_37&W-F_171		1600							
			Open 135398 SW345	345 200769 HOMER CY	345 1							
			Open 135277 FALCONER	115 200579 WARREN	115 1							
7129	4115.6	2504.6	L: 135415 PACKARD2	230 135461 PACK(S)W	115 2			12.0 250.0	0.05783		0.04613	14.6 204.4
			C:147842 NIAGAR2W	230 147850 NIAG115E	115 1 1240							
			Open 147842 NIAGAR2W	230 147850 NIAG115E	115 1							
7130	4117.6	2506.2	*L: Interface	19 PJM-NY								
			C:GEN:IND PT 3-New		1775							
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1							
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2							
7131	4117.6	2506.2	*L: Interface	35 NY-PJM								
			C:GEN:IND PT 3-New		1775							
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1							
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2							
7203	4149.2	2531.1	L: 135415 PACKARD2	230 135460 PACK(N)E	115 1			17.7 250.0	0.05599		0.04669	14.7 208.5
			C:135415 PACKARD2	230 135461 PACK(S)W	115 2 537							

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			Open 135415 PACKARD2	230	135461 PACK(S)W	115	2			0.20161	0.04613	14.6	206.0
8788	4184.7	2559.1	L: 135415 PACKARD2	230	157062 BCK2BP76	230	1	156.3	-557.0	-0.17045	-0.15822	161.5	-500.6
			C:SER:ESEE/WRFL									1610	
			Open 270 ERIE SO.	230	531 ERIE SE	230	1			0.00018	0.04055	16.5	186.2
			Open 531 ERIE SE	230	200654 ERIE E	230	1			-0.11656	0.08184	14.7	357.1
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.09935	-0.02708	-35.9	-149.2
8805	4192.4	2565.2	L: 135415 PACKARD2	230	135461 PACK(S)W	115	2	17.5	250.0	0.05545	0.04613	14.6	208.0
			C:135415 PACKARD2	230	135460 PACK(N)E	115	1	536					
			Open 135415 PACKARD2	230	135460 PACK(N)E	115	1			0.19959	0.04669	14.7	210.5
8823	4202.4	2573.1	L: 135415 PACKARD2	230	157062 BCK2BP76	230	1	159.3	-557.0	-0.17045	-0.15822	161.5	-503.4
			C:SER:EESR/WRFL									1609	
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			0.11646	-0.08184	11.3	-332.6
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.09939	-0.02708	-35.9	-149.7
8824	4202.4	2573.1	L: 135415 PACKARD2	230	157062 BCK2BP76	230	1	159.6	-557.0	-0.17052	-0.15822	161.5	-503.4
			C:SER:EESR/WF/NWES									1611	
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			0.11660	-0.08184	11.3	-332.6
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.09956	-0.02708	-35.9	-149.7
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.00700	-0.00760	43.0	11.1
8844	4218.3	2585.6	L: 135415 PACKARD2	230	157062 BCK2BP76	230	1	128.5	-557.0	-0.16251	-0.15822	161.5	-505.9
			C:135398 SW345	345	200769 HOMER CY	345	1	1380					
			Open 135398 SW345	345	200769 HOMER CY	345	1			0.08725	-0.04915	-378.4	-585.7
8866	4235.2	2598.9	L: 135415 PACKARD2	230	157062 BCK2BP76	230	1	209.1	-557.0	-0.18089	-0.15822	161.5	-508.6
			C:147834 NIAG 345	345	147842 NIAGAR2W	230	1	1225					
			Open 147834 NIAG 345	345	147842 NIAGAR2W	230	1			-0.13223	0.17145	-359.8	366.3
8889	4332.5	2675.7	*L: 135415 PACKARD2	230	157062 BCK2BP76	230	1	162.6	-557.0	-0.16610	-0.15822	161.5	-524.0
			C:135251 S RIPLEY	230	200654 ERIE E	230	1	1378					
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			0.09625	-0.08184	11.3	-343.3
8892	4355.2	2693.6	L: 135415 PACKARD2	230	135460 PACK(N)E	115	1	33.2	250.0	0.04978	0.04669	14.7	218.1
			C:SER:HC-SR_37&W-F_171									1600	
			Open 135398 SW345	345	200769 HOMER CY	345	1			-0.04590	-0.04915	-378.4	-592.5
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.03068	-0.02708	-35.9	-153.9
8897	4416.2	2741.8	L: 135415 PACKARD2	230	135461 PACK(S)W	115	2	32.8	250.0	0.04918	0.04613	14.6	218.3
			C:SER:HC-SR_37&W-F_171									1600	
			Open 135398 SW345	345	200769 HOMER CY	345	1			-0.04530	-0.04915	-378.4	-595.5
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.03028	-0.02708	-35.9	-155.5
8933	4509.3	2815.2	L: 135415 PACKARD2	230	135460 PACK(N)E	115	1	30.3	250.0	0.04872	0.04669	14.7	225.3
			C:135398 SW345	345	200769 HOMER CY	345	1	1380					
			Open 135398 SW345	345	200769 HOMER CY	345	1			-0.04119	-0.04915	-378.4	-600.0
8955	4523.2	2826.2	L: 147842 NIAGAR2W	230	147851 NIAG115W	115	1	-31.4	359.0	0.08631	0.07080	-27.9	292.3
			C:147842 NIAGAR2W	230	147850 NIAG115E	115	1	1240					
			Open 147842 NIAGAR2W	230	147850 NIAG115E	115	1			0.21254	0.07297	-16.2	313.9
10615	4571.6	2864.3	L: 135415 PACKARD2	230	135461 PACK(S)W	115	2	30.0	250.0	0.04813	0.04613	14.6	225.5

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			C:135398 SW345	345	200769 HOMER CY	345	1	1380												
			Open 135398 SW345	345	200769 HOMER CY	345	1													
10628	4589.1	2878.2	L: 135415 PACKARD2	230	135460 PACK(N)E	115	1		31.8	250.0	0.04755									
			C:130815 HINMN115	115	131611 HARIS115	115	1	312												
			Open 130815 HINMN115	115	131611 HARIS115	115	1													
10639	4598.2	2885.4	L: 135415 PACKARD2	230	135460 PACK(N)E	115	1		25.2	250.0	0.04890									
			C:130766 ROBIN230	230	147841 NIAGAR2E	230	1	225												
			Open 130766 ROBIN230	230	147841 NIAGAR2E	230	1													
10641	4603.4	2889.5	L: 135415 PACKARD2	230	135460 PACK(N)E	115	1		30.6	250.0	0.04767									
			C:130815 HINMN115	115	135452 LOCKPORT	115	1	313												
			Open 130815 HINMN115	115	135452 LOCKPORT	115	1													
10655	4653.6	2929.1	L: 135415 PACKARD2	230	135461 PACK(S)W	115	2		31.4	250.0	0.04698									
			C:130815 HINMN115	115	131611 HARIS115	115	1	312												
			Open 130815 HINMN115	115	131611 HARIS115	115	1													
10656	4660.7	2934.7	L: 135415 PACKARD2	230	135461 PACK(S)W	115	2		24.8	250.0	0.04831									
			C:130766 ROBIN230	230	147841 NIAGAR2E	230	1	225												
			Open 130766 ROBIN230	230	147841 NIAGAR2E	230	1													
10657	4667.7	2940.2	L: 135415 PACKARD2	230	135461 PACK(S)W	115	2		30.2	250.0	0.04710									
			C:130815 HINMN115	115	135452 LOCKPORT	115	1	313												
			Open 130815 HINMN115	115	135452 LOCKPORT	115	1													
10658	4702.2	2967.4	L: 135415 PACKARD2	230	135460 PACK(N)E	115	1		27.0	250.0	0.04743									
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226												
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1													
10660	4729.0	2988.6	*L: 135415 PACKARD2	230	135460 PACK(N)E	115	1		17.6	250.0	0.04914									
			C:130846 ROBIN115	115	130853 A.LUD TP	115	1	354												
			Open 130846 ROBIN115	115	130853 A.LUD TP	115	1													
10662	4741.8	2998.7	L: 147842 NIAGAR2W	230	147851 NIAG115W	115	1		-24.7	359.0	0.08093									
			C:135415 PACKARD2	230	135460 PACK(N)E	115	1	536												
			Open 135415 PACKARD2	230	135460 PACK(N)E	115	1													
10664	4747.5	3003.2	L: 147842 NIAGAR2W	230	147851 NIAG115W	115	1		-24.8	359.0	0.08084									
			C:135415 PACKARD2	230	135461 PACK(S)W	115	2	537												
			Open 135415 PACKARD2	230	135461 PACK(S)W	115	2													
10666	4766.3	3018.0	L: 135415 PACKARD2	230	135461 PACK(S)W	115	2		26.6	250.0	0.04686									
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226												
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1													
10671	4791.0	3037.5	*L: 135415 PACKARD2	230	135461 PACK(S)W	115	2		17.4	250.0	0.04855									
			C:130846 ROBIN115	115	130853 A.LUD TP	115	1	354												
			Open 130846 ROBIN115	115	130853 A.LUD TP	115	1													
10674	4811.6	3053.8	L: 147842 NIAGAR2W	230	147851 NIAG115W	115	1		-2.4	359.0	0.07510									
			C:SER:HC-SR_37&W-F_171					1600												
			Open 135398 SW345	345	200769 HOMER CY	345	1													
			Open 135277 FALCONER	115	200579 WARREN	115	1													

ONT-ZoneA

10675	4812.9	3054.8	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	-114.5	-637.0	-0.10856	-0.08184	11.3	-382.6
			C:SER:HC-SR_37&W-F_171					1600						
			Open 135398 SW345	345	200769	HOMER CY	345	1			0.28847	-0.04915	-378.4	-615.0
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.46324	-0.02708	-35.9	-166.2
10694	4857.5	3090.0	L: Interface	38	ONT-ZoneA				-742.8	3090.0	0.78904			
			Base Case											
10695	4857.5	3090.0	L: Interface	22	ON-NIAG				-742.8	3090.0	0.78904			
			Base Case											
10696	4857.5	3090.0	L: Interface	37	ZoneA-ONT				742.8	-3090.0	-0.78904			
			Base Case											
10718	4943.9	3158.2	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	-190.7	-637.0	-0.09027	-0.06355	-64.9	-379.1
			C:SER:HC-SR_37&W-F_171					1600						
			Open 135398 SW345	345	200769	HOMER CY	345	1			0.28847	-0.04915	-378.4	-621.4
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.46324	-0.02708	-35.9	-169.8
10727	4966.1	3175.7	L: 147842 NIAGAR2W	230	147851	NIAG115W	115	1	-6.5	359.0	0.07359	0.07080	-27.9	323.6
			C:135398 SW345	345	200769	HOMER CY	345	1	1380					
			Open 135398 SW345	345	200769	HOMER CY	345	1			-0.05680	-0.04915	-378.4	-622.5

ZoneA-PJMWest

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 17 2009 15:08
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 17 2009 15:09
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From A_EXPORT To PENELEC_IMPORT. Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 10629 violations

Interface-1 Interface 45 A-PJMWest Init.Flow= -403.00 TDF= 0.4801

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating	LODF	Init Final
1	-92260.5	-44693.4	L: Interface 20 PJM-CENT C:KEY-SHELOCTA/BLAIRSVL-SOCIAL	1650	3222.4	0.0	0.03493	-0.02672 3269.0 5734.1
			Open 505 SHELOCTA 230 521 KEYSTONE	230 1			-0.36573	-0.14260 50.1 13206.5
			Open 473 BLAIRSVL 138 235253 01SOCIAL	138 1			-0.28310	-0.03353 100.2 3193.4
2	-6281.7	-3418.6	L: Interface 49 C-PJMCentral C:LKWANA-OXBW	1651	309.4	-0.0	0.04926	0.12974 198.6 -616.4
			Open 417 OXBOW 230 3070 LACKAWNA	230 1			-0.92585	0.08693 -119.7 -665.8
3	-6281.7	-3418.6	L: Interface 50 PJMCentral-C C:LKWANA-OXBW	1651	-309.4	0.0	-0.04926	-0.12974 -198.6 616.4
			Open 417 OXBOW 230 3070 LACKAWNA	230 1			0.92585	0.08693 -119.7 -665.8
4	-4999.1	-2802.8	L: Interface 23 QFW C:GEN:BRUCE 6	1564	1350.8	0.0	0.27020	0.27020 1095.5 -255.3
			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5 MW	dispatch		

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5	-4655.5	-2637.9	L: Interface	23	QFW			1257.9	-0.0	0.27020		0.27020	1095.5	-162.5
			C:GEN:NANTCK	8			1565							
			Remove unit 1	from bus	158743 NANTICG8	22.0	490.0 MW	dispatch						
6	-4640.5	-2630.7	L: Interface	23	QFW			1253.9	-0.0	0.27020		0.27020	1095.5	-158.4
			C:GEN:PICKER	6			1566							
			Remove unit 1	from bus	156683 PIC B G5	24.0	510.9 MW	dispatch						
7	-4398.5	-2514.5	L: Interface	23	QFW			1177.1	0.0	0.26762		0.27020	1095.5	-93.0
			C:LAMBT7/LAMGEN				1646							
			Open 160050	LAMB L4D	345 B\$1020 LAMBTON T7	1.00	T7				0.04391	-0.05881	-234.0	24.7
			Open 160064	LAMB T78	220 B\$1020 LAMBTON T7	1.00	T7				-0.17807	0.00000	0.3	0.3
			Set bus 160705	LAMBTNG4	24.0 generation to			0.0 MW	dispatch					
8	-4398.2	-2514.4	L: Interface	23	QFW			1177.2	-0.0	0.26765		0.27020	1095.5	-93.0
			C:LAMBT8/LAMGEN				1647							
			Open 160050	LAMB L4D	345 B\$1021 LAMBTON T8	1.00	T8				0.04376	-0.05836	-232.1	24.6
			Open 160064	LAMB T78	220 B\$1021 LAMBTON T8	1.00	T8				-0.17796	0.00000	0.4	0.4
			Set bus 160705	LAMBTNG4	24.0 generation to			0.0 MW	dispatch					
9	-4370.0	-2500.8	L: Interface	23	QFW			1109.1	-0.0	0.25379		0.27020	1095.5	-85.3
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL				1650							
			Open 505	SHELOCTA	230 521 KEYSTONE	230	1				0.09424	-0.14260	50.1	673.3
			Open 473	BLAIRSVL	138 235253 01SOCIAL	138	1				0.08864	-0.03353	100.2	246.7
10	-4354.9	-2493.6	L: Interface	23	QFW			1165.5	-0.0	0.26762		0.27020	1095.5	-81.2
			C:L4D+G3				1644							
			Open 160050	LAMB L4D	345 B\$1020 LAMBTON T7	1.00	T7				0.04391	-0.05881	-234.0	22.1
			Open 160064	LAMB T78	220 B\$1020 LAMBTON T7	1.00	T7				-0.17807	0.00000	0.3	0.3
			Open 160069	LAMBTPK2	220 160704 LAMBTNG3	24.0	T3				-0.18772	0.00000	62.1	62.1
			Remove unit 1	from bus	160704 LAMBTNG3	24.0	490.0 MW	dispatch						
11	-4354.7	-2493.5	L: Interface	23	QFW			1165.5	0.0	0.26765		0.27020	1095.5	-81.2
			C:L51D+G3				1645							
			Open 160050	LAMB L4D	345 B\$1021 LAMBTON T8	1.00	T8				0.04376	-0.05836	-232.1	22.1
			Open 160064	LAMB T78	220 B\$1021 LAMBTON T8	1.00	T8				-0.17796	0.00000	0.4	0.4
			Open 160069	LAMBTPK2	220 160704 LAMBTNG3	24.0	T3				-0.18765	0.00000	62.1	62.1
			Remove unit 1	from bus	160704 LAMBTNG3	24.0	490.0 MW	dispatch						
12	-4199.5	-2419.0	L: Interface	23	QFW			1183.0	0.0	0.28171		0.27020	1095.5	-39.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834	NIAG 345	345 149000 ROCH 345	345	1				0.20740	0.05550	422.3	189.2
13	-4197.7	-2418.1	*L: Interface	23	QFW			1122.6	-0.0	0.26743		0.27020	1095.5	-38.8
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753	FRASR345	345 130755 OAKDL345	345	1				-0.04694	0.05911	-577.5	-825.7
1769	-2941.5	-1815.1	L: Interface	26	ONTARIO-MICH			749.2	-0.0	0.25472		0.27020	736.0	-58.8
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL				1650							
			Open 505	SHELOCTA	230 521 KEYSTONE	230	1				0.08784	-0.14260	50.1	469.5
			Open 473	BLAIRSVL	138 235253 01SOCIAL	138	1				0.08830	-0.03353	100.2	198.9

ZoneA-PJMWest

1770	-2910.2	-1800.1	L: Interface	26	ONTARIO-MICH				788.3	0.0	0.27089		0.27020	736.0	-50.3
			C:BUS:N.S._99												
			Open 137453	N.SCOT99	345	147831	GILB	345	345	1		0.00346	0.01302	-310.7	-348.6
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	345	1		-0.04494	-0.01250	-916.1	-879.7
			Open 137453	N.SCOT99	345	137516	N.SCOT1	115	115	1		-0.00395	-0.00034	118.7	119.6
			Open 137451	LEEDS 3	345	137453	N.SCOT99	345	345	2		-0.01445	-0.00569	-858.5	-841.9
			Open 137452	N.SCOT77	345	137453	N.SCOT99	345	345	1		0.20105	0.00000	1.6	1.6
1771	-2899.6	-1795.0	L: Interface	26	ONTARIO-MICH				785.2	-0.0	0.27081		0.27020	736.0	-47.5
			C:SIN:180												
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	345	1		-0.04888	-0.01250	-916.1	-879.8
			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	115	1		0.03730	0.00000	119.9	119.9
			Open 137235	PORTER 1	115	147905	ILION	115	115	1		-0.00004	-0.00000	88.8	88.8
1772	-2899.6	-1795.0	L: Interface	26	ONTARIO-MICH				785.2	0.0	0.27081		0.27020	736.0	-47.5
			C:SIN:170												
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	345	1		-0.04888	-0.01250	-916.1	-879.8
			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	115	1		0.03730	0.00000	119.9	119.9
			Open 137235	PORTER 1	115	137246	VALLEY	115	115	1		-0.00005	-0.00000	74.8	74.9
1773	-2895.4	-1793.0	L: Interface	26	ONTARIO-MICH				762.5	0.0	0.26334		0.27020	736.0	-46.4
			C:W44LC												
			Open 160062	LONGWOOD	220	160074	COWALJ44	220	220	1		-0.16056	0.02285	189.2	123.0
			Open 160074	COWALJ44	220	160134	BUCHJW44	220	220	1		0.16303	-0.01953	334.4	391.0
			Open 160054	BUCHANAN	220	160134	BUCHJW44	220	220	1		-0.00035	0.01953	-256.1	-312.7
			Open 160055	CHATHAM	220	160074	COWALJ44	220	220	1		0.71981	0.00000	3.1	3.1
1774	-2895.2	-1792.9	L: Interface	26	ONTARIO-MICH				762.5	-0.0	0.26335		0.27020	736.0	-46.3
			C:W45LC												
			Open 160062	LONGWOOD	220	160075	COWALJ45	220	220	1		-0.16050	0.02282	189.2	123.1
			Open 160075	COWALJ45	220	160135	BUCHJW45	220	220	1		0.16297	-0.01952	334.3	390.8
			Open 160054	BUCHANAN	220	160135	BUCHJW45	220	220	1		-0.00035	0.01952	-262.5	-319.0
			Open 160055	CHATHAM	220	160075	COWALJ45	220	220	1		0.71977	0.00000	3.1	3.1
1775	-2894.2	-1792.4	L: Interface	26	ONTARIO-MICH				783.7	-0.0	0.27079		0.27020	736.0	-46.0
			C:BUS:N.S._77												
			Open 137452	N.SCOT77	345	137453	N.SCOT99	345	345	1		-0.01429	0.00588	-248.0	-265.0
			Open 137452	N.SCOT77	345	137516	N.SCOT1	115	115	1		-0.01757	-0.00030	111.8	112.7
			Open 137200	EDIC	345	137452	N.SCOT77	345	345	1		0.05764	0.01160	819.4	785.8
			Open 137450	ALPS345	345	137452	N.SCOT77	345	345	1		0.01190	-0.00024	-92.7	-92.0
			Open 137451	LEEDS 3	345	137452	N.SCOT77	345	345	1		0.18720	0.00000	-0.0	-0.0
1776	-2888.4	-1789.6	L: Interface	26	ONTARIO-MICH				782.3	0.0	0.27083		0.27020	736.0	-44.4
			C:130750	COOPC345	345	147833	MARCY T1	345	345	1	196				
			Open 130750	COOPC345	345	147833	MARCY T1	345	345	1		-0.06260	-0.01007	-739.1	-710.1
1777	-2883.4	-1787.2	L: Interface	26	ONTARIO-MICH				778.9	0.0	0.27015		0.27020	736.0	-43.1
			C:125001	ROCK TAV	345	126297	RAMAPO	345	345	1	7				
			Open 125001	ROCK TAV	345	126297	RAMAPO	345	345	1		0.03851	-0.00141	1114.8	1118.9

ZoneA-PJMWest

1778	-2883.4	-1787.2	*L: Interface	26	ONTARIO-MICH				778.9	0.0	0.27015		0.27020	736.0	-43.1	
			C:SIN:440												1683	
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			0.03851	-0.00141	1114.8	1118.9
3509	-2326.3	-1519.7	L: Interface	49	C-PJMCentral				282.0	0.0	0.12121		0.12974	198.6	-103.2	
			C:130753	FRASR345		345	130755	OAKDL345	345	1	200					
			Open	130753	FRASR345	345	130755	OAKDL345	345	1			-0.14438	0.05911	-577.5	-715.0
3510	-2326.3	-1519.7	L: Interface	50	PJMCentral-C				-282.0	-0.0	-0.12121		-0.12974	-198.6	103.2	
			C:130753	FRASR345		345	130755	OAKDL345	345	1	200					
			Open	130753	FRASR345	345	130755	OAKDL345	345	1			0.14438	0.05911	-577.5	-715.0
3528	-2081.8	-1402.4	L: Interface	50	PJMCentral-C				-267.9	-0.0	-0.12866		-0.12974	-198.6	71.5	
			C:130750	COOPC345		345	130753	FRASR345	345	1	192					
			Open	130750	COOPC345	345	130753	FRASR345	345	1			0.06948	0.01556	-997.1	-1029.5
3529	-2081.8	-1402.4	L: Interface	49	C-PJMCentral				267.9	0.0	0.12866		0.12974	198.6	-71.5	
			C:130750	COOPC345		345	130753	FRASR345	345	1	192					
			Open	130750	COOPC345	345	130753	FRASR345	345	1			-0.06948	0.01556	-997.1	-1029.5
3536	-1958.2	-1343.0	L: Interface	50	PJMCentral-C				-229.8	0.0	-0.11735		-0.12974	-198.6	55.5	
			C:130755	OAKDL345		345	130757	WATRC345	345	1	206					
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			0.11844	0.10463	-263.5	-468.4
3537	-1958.2	-1343.0	L: Interface	49	C-PJMCentral				229.8	-0.0	0.11735		0.12974	198.6	-55.5	
			C:130755	OAKDL345		345	130757	WATRC345	345	1	206					
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			-0.11844	0.10463	-263.5	-468.4
3542	-1890.8	-1310.7	L: Interface	49	C-PJMCentral				245.2	0.0	0.12968		0.12974	198.6	-46.7	
			C:125001	ROCK TAV		345	126297	RAMAPO	345	1	7					
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			0.04182	-0.00141	1114.8	1117.5
3543	-1890.8	-1310.7	L: Interface	50	PJMCentral-C				-245.2	-0.0	-0.12968		-0.12974	-198.6	46.7	
			C:SIN:440												1683	
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			-0.04182	-0.00141	1114.8	1117.5
3544	-1890.8	-1310.7	L: Interface	50	PJMCentral-C				-245.2	-0.0	-0.12968		-0.12974	-198.6	46.7	
			C:125001	ROCK TAV		345	126297	RAMAPO	345	1	7					
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			-0.04182	-0.00141	1114.8	1117.5
3545	-1890.8	-1310.7	L: Interface	49	C-PJMCentral				245.2	0.0	0.12968		0.12974	198.6	-46.7	
			C:SIN:440												1683	
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			0.04182	-0.00141	1114.8	1117.5
3547	-1817.7	-1275.6	L: Interface	50	PJMCentral-C				-236.3	0.0	-0.12998		-0.12974	-198.6	37.2	
			C:BUS:N.S._99												1615	
			Open	137453	N.SCOT99	345	147831	GILB	345	1			0.01348	0.01302	-310.7	-334.4
			Open	137453	N.SCOT99	345	147833	MARCY T1	345	1			0.02908	-0.01250	-916.1	-893.4
			Open	137453	N.SCOT99	345	137516	N.SCOT1	115	1			0.00172	-0.00034	118.7	119.3
			Open	137451	LEEDS 3	345	137453	N.SCOT99	345	2			0.00812	-0.00569	-858.5	-848.1
			Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1			-0.04931	0.00000	1.6	1.6
3548	-1817.7	-1275.6	L: Interface	49	C-PJMCentral				236.3	-0.0	0.12998		0.12974	198.6	-37.2	
			C:BUS:N.S._99												1615	

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			Open 137453 N.SCOT99	345	147831 GILB	345	345	1		-0.01348	0.01302	-310.7	-334.4
			Open 137453 N.SCOT99	345	147833 MARCY T1		345	1		-0.02908	-0.01250	-916.1	-893.4
			Open 137453 N.SCOT99	345	137516 N.SCOT1		115	1		-0.00172	-0.00034	118.7	119.3
			Open 137451 LEEDS 3	345	137453 N.SCOT99		345	2		-0.00812	-0.00569	-858.5	-848.1
			Open 137452 N.SCOT77	345	137453 N.SCOT99		345	1		0.04931	0.00000	1.6	1.6
3549	-1812.6	-1273.2	L: Interface	49	C-PJMCentral		235.2	-0.0	0.12974		0.12974	198.6	-36.6
			C:GEN:SALEM										
			Remove unit 1	from bus	36 SALEM-G1	22.0	1117.3	MW	dispatch				
3550	-1812.6	-1273.2	L: Interface	50	PJMCentral-C		-235.2	0.0	-0.12974		-0.12974	-198.6	36.6
			C:GEN:SALEM										
			Remove unit 1	from bus	36 SALEM-G1	22.0	1117.3	MW	dispatch				
3551	-1803.2	-1268.6	L: Interface	50	PJMCentral-C		-233.8	-0.0	-0.12965		-0.12974	-198.6	35.4
			C:SER:CMT34&MTR34										
			Open 130750 COOPC345	345	146754 MDTN TAP		345	1		-0.04979	-0.00281	874.1	879.1
			Open 125001 ROCK TAV	345	146754 MDTN TAP		345	1		-0.01956	0.00245	-425.4	-429.8
3552	-1803.2	-1268.6	L: Interface	49	C-PJMCentral		233.8	0.0	0.12965		0.12974	198.6	-35.4
			C:SER:CMT34&MTR34										
			Open 130750 COOPC345	345	146754 MDTN TAP		345	1		0.04979	-0.00281	874.1	879.1
			Open 125001 ROCK TAV	345	146754 MDTN TAP		345	1		0.01956	0.00245	-425.4	-429.8
3553	-1799.8	-1267.0	*L: Interface	49	C-PJMCentral		233.5	0.0	0.12974		0.12974	198.6	-34.9
			C:GEN:MARTN CK										
			Remove unit 4	from bus	3151 MTN CK 4	24.0	704.3	MW	dispatch				
3554	-1799.8	-1267.0	*L: Interface	50	PJMCentral-C		-233.5	-0.0	-0.12974		-0.12974	-198.6	34.9
			C:GEN:MARTN CK										
			Remove unit 4	from bus	3151 MTN CK 4	24.0	704.3	MW	dispatch				
6573	-1524.9	-1135.0	L: Interface	52	PJMEast-G		-76.3	0.0	-0.05001		-0.00000	0.4	0.4
			C:ETHS/NWES/LLGD										
			Open 130763 HILSD230	230	200675 E.TWANDA		230	1		-0.37609	0.07791	117.6	-1.2
			Open 130836 N.WAV115	115	200676 E.SAYRE		115	1		-0.38778	0.02981	43.0	-2.5
			Open 130807 GOUDY115	115	200680 LAUREL L		115	1		-0.41556	0.02202	38.0	4.4
6574	-1524.9	-1135.0	L: Interface	51	G-PJMEast		76.3	-0.0	0.05001		0.00000	-0.4	-0.4
			C:ETHS/NWES/LLGD										
			Open 130763 HILSD230	230	200675 E.TWANDA		230	1		0.37609	0.07791	117.6	-1.2
			Open 130836 N.WAV115	115	200676 E.SAYRE		115	1		0.38778	0.02981	43.0	-2.5
			Open 130807 GOUDY115	115	200680 LAUREL L		115	1		0.41556	0.02202	38.0	4.4
6919	-1478.2	-1112.6	L: Interface	51	G-PJMEast		49.0	-0.0	0.03315		0.00000	-0.4	-0.4
			C:SER:ETHS/NWES										
			Open 130763 HILSD230	230	200675 E.TWANDA		230	1		0.30717	0.07791	117.6	2.5
			Open 130836 N.WAV115	115	200676 E.SAYRE		115	1		0.30905	0.02981	43.0	-1.1
6920	-1478.2	-1112.6	L: Interface	52	PJMEast-G		-49.0	0.0	-0.03315		-0.00000	0.4	0.4
			C:SER:ETHS/NWES										
			Open 130763 HILSD230	230	200675 E.TWANDA		230	1		-0.30717	0.07791	117.6	2.5

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			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.30905	0.02981	43.0	-1.1
6965	-1451.1	-1099.6	L: Interface 51 G-PJMEast						48.0	0.0	0.03306		0.00000	-0.4	-0.4
			C:SER:C398/NWES					1605							
			Open 409 GROVER	230	200675	E.TWANDA	230	1				0.02734	-0.00355	-15.6	-10.4
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.30865	0.07791	117.6	4.6
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1				0.01228	-0.00092	-52.1	-50.8
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.30588	0.02981	43.0	-0.3
6966	-1451.1	-1099.6	L: Interface 52 PJMEast-G						-48.0	-0.0	-0.03306		-0.00000	0.4	0.4
			C:SER:C398/NWES					1605							
			Open 409 GROVER	230	200675	E.TWANDA	230	1				-0.02734	-0.00355	-15.6	-10.4
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.30865	0.07791	117.6	4.6
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1				-0.01228	-0.00092	-52.1	-50.8
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.30588	0.02981	43.0	-0.3
7082	-210.4	-504.0	L: Interface 51 G-PJMEast						7.2	0.0	0.03433		0.00000	-0.4	-0.4
			C:SER:EESR/NWES					1608							
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				0.14130	0.21329	11.3	-33.6
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.14072	0.02981	43.0	36.7
7083	-210.4	-504.0	L: Interface 52 PJMEast-G						-7.2	-0.0	-0.03433		-0.00000	0.4	0.4
			C:SER:EESR/NWES					1608							
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				-0.14130	0.21329	11.3	-33.6
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.14072	0.02981	43.0	36.7
7084	-35.6	-420.1	L: Interface 51 G-PJMEast						2.0	-0.0	0.05692		0.00000	-0.4	-0.4
			C:SER:EESR/WF/NWES					1611							
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				0.17354	0.21329	11.3	3.7
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.15831	0.09866	-35.9	-39.4
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.14357	0.02981	43.0	41.9
7085	-35.6	-420.1	L: Interface 52 PJMEast-G						-2.0	0.0	-0.05692		-0.00000	0.4	0.4
			C:SER:EESR/WF/NWES					1611							
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				-0.17354	0.21329	11.3	3.7
			Open 135277 FALCONER	115	200579	WARREN	115	1				-0.15831	0.09866	-35.9	-39.4
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.14357	0.02981	43.0	41.9
7086	78.4	-365.3	L: Interface 52 PJMEast-G						4.1	0.0	-0.05165		-0.00000	0.4	0.4
			C:SER:EESR/WRFL					1609							
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				-0.17056	0.21329	11.3	28.0
			Open 135277 FALCONER	115	200579	WARREN	115	1				-0.15483	0.09866	-35.9	-28.2
7087	78.4	-365.3	L: Interface 51 G-PJMEast						-4.1	-0.0	0.05165		0.00000	-0.4	-0.4
			C:SER:EESR/WRFL					1609							
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				0.17056	0.21329	11.3	28.0
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.15483	0.09866	-35.9	-28.2
7088	164.2	-324.2	L: Interface 51 G-PJMEast						-8.5	0.0	0.05168		0.00000	-0.4	-0.4
			C:SER:ESEE/WRFL					1610							
			Open 270 ERIE SO.	230	531	ERIE SE	230	1				-0.00053	-0.15991	16.5	-9.8

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			Open	531	ERIE SE	230	200654	ERIE E	230	1		-0.17025	-0.21329	14.7	-20.4	
			Open	135277	FALCONER	115	200579	WARREN	115	1		0.15493	0.09866	-35.9	-19.7	
7089	164.2	-324.2	L: Interface	52	PJMEast-G						8.5	-0.0	-0.05168	-0.00000	0.4	0.4
			C:SER:ESEE/WRFL							1610						
			Open	270	ERIE SO.	230	531	ERIE SE	230	1		0.00053	-0.15991	16.5	-9.8	
			Open	531	ERIE SE	230	200654	ERIE E	230	1		0.17025	-0.21329	14.7	-20.4	
			Open	135277	FALCONER	115	200579	WARREN	115	1		-0.15493	0.09866	-35.9	-19.7	
7090	1043.5	97.9	L: 135277	FALCONER	115	200579	WARREN	115	1		-32.8	116.0	0.14263	0.09866	-35.9	67.0
			C:SER:EESR/NWES							1608						
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1		0.20363	0.21329	11.3	233.9	
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.01801	0.02981	43.0	74.1	
7091	1053.3	102.7	L: 135277	FALCONER	115	200579	WARREN	115	1		-33.6	116.0	0.14204	0.09866	-35.9	68.0
			C:135251	S RIPLEY	230	200654	ERIE E	230	1	1378						
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1		0.20334	0.21329	11.3	236.0	
7092	1189.0	167.8	L: 135277	FALCONER	115	200579	WARREN	115	1		-49.1	116.0	0.13886	0.09866	-35.9	81.4
			C:135250	DUNKIRK	230	135251	S RIPLEY	230	1	422						
			Open	135250	DUNKIRK	230	135251	S RIPLEY	230	1		0.20334	0.19767	-64.9	170.1	
7093	1390.3	264.4	L: Interface	51	G-PJMEast						-45.9	-0.0	0.03304	0.00000	-0.4	-0.4
			C:LKWANA-OXBW							1651						
			Open	417	OXBOW	230	3070	LACKAWNA	230	1		0.38004	0.08693	-119.7	1.1	
7094	1390.3	264.4	L: Interface	52	PJMEast-G						45.9	0.0	-0.03304	-0.00000	0.4	0.4
			C:LKWANA-OXBW							1651						
			Open	417	OXBOW	230	3070	LACKAWNA	230	1		-0.38004	0.08693	-119.7	1.1	
7095	1416.7	277.1	L: 135277	FALCONER	115	200579	WARREN	115	1		-29.6	116.0	0.10279	0.09866	-35.9	103.9
			C:ETHS/NWES/LLGD							1648						
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.03212	0.07791	117.6	228.0	
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.03366	0.02981	43.0	85.2	
			Open	130807	GOUDY115	115	200680	LAUREL L	115	1		0.02797	0.02202	38.0	69.2	
7096	1419.7	278.6	L: 135277	FALCONER	115	200579	WARREN	115	1		-26.8	116.0	0.10058	0.09866	-35.9	104.2
			C:130764	MEYER230	230	131122	WTHRS230	230	1	221						
			Open	130764	MEYER230	230	131122	WTHRS230	230	1		-0.03821	-0.05007	-238.5	-309.6	
7097	1423.5	280.4	L: 135277	FALCONER	115	200579	WARREN	115	1		-27.2	116.0	0.10058	0.09866	-35.9	104.5
			C:130770	SHLDN230	230	131122	WTHRS230	230	1	228						
			Open	130770	SHLDN230	230	131122	WTHRS230	230	1		0.03821	0.05007	228.6	299.9	
7098	1427.4	282.3	L: 135277	FALCONER	115	200579	WARREN	115	1		-27.6	116.0	0.10058	0.09866	-35.9	104.9
			C:130767	STOLE230	230	130770	SHLDN230	230	1	226						
			Open	130767	STOLE230	230	130770	SHLDN230	230	1		0.03821	0.05007	218.2	289.7	
7099	1444.6	290.5	L: 135277	FALCONER	115	200579	WARREN	115	1		-30.9	116.0	0.10172	0.09866	-35.9	106.6
			C:SER:C398/NWES							1605						
			Open	409	GROVER	230	200675	E.TWANDA	230	1		-0.02475	-0.00355	-15.6	-20.7	
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.02688	0.07791	117.6	230.2	
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1		-0.00306	-0.00092	-52.1	-53.5	

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			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.02915	0.02981	43.0	86.0
7100	1450.6	293.4	L: 135277 FALCONER	115	200579 WARREN	115	1	-31.5	116.0	0.10165		0.09866	-35.9	107.2
			C:SER:ETHS/NWES											1606
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.02748	0.07791	117.6	230.7
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.02836	0.02981	43.0	86.2
7101	1468.1	301.8	*L: 135277 FALCONER	115	200579 WARREN	115	1	-30.4	116.0	0.09973		0.09866	-35.9	108.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1							205
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.01049	0.10129	524.7	673.4
8822	1633.6	381.2	L: Interface 51 G-PJMEast					-59.4	0.0	0.03637		0.00000	-0.4	-0.4
			C:SER:HC-SR_37&W-F_171											1600
			Open 135398 SW345	345	200769 HOMER CY	345	1				0.14426	0.16810	-378.4	-103.8
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.12286	0.09866	-35.9	125.3
8823	1633.6	381.2	L: Interface 52 PJMEast-G					59.4	-0.0	-0.03637		-0.00000	0.4	0.4
			C:SER:HC-SR_37&W-F_171											1600
			Open 135398 SW345	345	200769 HOMER CY	345	1				-0.14426	0.16810	-378.4	-103.8
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.12286	0.09866	-35.9	125.3
8855	1760.2	442.0	L: 135461 PACK(S)W	115	147851 NIAG115W	115	3	-253.0	-328.0	-0.04260		-0.03012	-178.9	-231.9
			C:135461 PACK(S)W	115	147851 NIAG115W	115	2							616
			Open 135461 PACK(S)W	115	147851 NIAG115W	115	2				0.46443	-0.02686	-159.6	-206.8
8856	1760.2	442.0	L: 135461 PACK(S)W	115	147851 NIAG115W	115	3	-253.0	-328.0	-0.04260		-0.03012	-178.9	-231.9
			C:135461 PACK(S)W	115	147851 NIAG115W	115	1							615
			Open 135461 PACK(S)W	115	147851 NIAG115W	115	1				0.46443	-0.02686	-159.6	-206.8
8858	1846.8	483.6	L: 130814 HILSD115	115	131162 CHEMU115	115	1	105.5	179.0	0.03983		0.01560	68.3	97.2
			C:ETHS/LLGD											1649
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.27902	0.07791	117.6	261.5
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1				0.11275	0.02202	38.0	78.6
8859	1925.6	521.4	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	-102.3	-179.0	-0.03983		-0.01560	-65.2	-95.3
			C:ETHS/LLGD											1649
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				-0.27902	0.07791	117.6	267.7
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1				-0.11275	0.02202	38.0	80.4
8860	1970.2	542.8	L: 135250 DUNKIRK	230	135391 DUNKGEN4	13.8	1	-178.0	-249.0	-0.03603				
			Base Case											
8861	2007.8	560.8	L: 135250 DUNKIRK	230	135390 DUNKGEN3	13.8	1	-177.0	-249.0	-0.03584				
			Base Case											
8862	2051.3	581.8	L: 135414 HUNTLEY2	230	135800 HNTLY67G	13.8	1	-175.9	-249.0	-0.03562				
			Base Case											
8863	2125.2	617.2	L: 130830 MONTR115	115	130845 RIDGT115	115	1	68.5	133.0	0.03033		0.01952	48.5	90.0
			C:130830 MONTR115	115	130844 RIDGR115	115	1							333
			Open 130830 MONTR115	115	130844 RIDGR115	115	1				0.57182	0.01891	35.0	75.2
8864	2177.4	642.3	L: 130814 HILSD115	115	131162 CHEMU115	115	1	99.7	179.0	0.03640		0.01560	68.3	102.3
			C:130763 HILSD230	230	200675 E.TWANDA	230	1							1375
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.26691	0.07791	117.6	287.3

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8865	2237.4	671.1	L: 135414 HUNTLEY2	230	135801 HNTLY68G	13.8	1	-171.4	-249.0	-0.03469				
			Base Case											
8866	2260.9	682.4	L: 135461 PACK(S)W	115	147851 NIAG115W	115	1	-237.6	-328.0	-0.04000	-0.02686	-159.6	-220.3	
			C:135461 PACK(S)W	115	147851 NIAG115W	115	3 617							
			Open 135461 PACK(S)W	115	147851 NIAG115W	115	3				0.43605	-0.03012	-178.9	-247.0
8867	2260.9	682.4	L: 135461 PACK(S)W	115	147851 NIAG115W	115	2	-237.6	-328.0	-0.04000	-0.02686	-159.6	-220.3	
			C:135461 PACK(S)W	115	147851 NIAG115W	115	3 617							
			Open 135461 PACK(S)W	115	147851 NIAG115W	115	3				0.43605	-0.03012	-178.9	-247.0
8868	2263.6	683.7	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	-96.6	-179.0	-0.03640	-0.01560	-65.2	-100.5	
			C:130763 HILSD230	230	200675 E.TWANDA	230	1 1375							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				-0.26691	0.07791	117.6	294.0
8869	2286.5	694.7	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	11.3	499.0	0.21329				
			Base Case											
8870	2293.3	697.9	L: 135461 PACK(S)W	115	147851 NIAG115W	115	3	-178.9	-248.0	-0.03012				
			Base Case											
8871	2312.7	707.2	L: 135460 PACK(N)E	115	147850 NIAG115E	115	2	-218.9	-328.0	-0.04719	-0.02944	-136.5	-204.6	
			C:135460 PACK(N)E	115	147850 NIAG115E	115	1 610							
			Open 135460 PACK(N)E	115	147850 NIAG115E	115	1				0.63484	-0.02796	-129.7	-194.4
8872	2326.9	714.1	L: 130853 A.LUD TP	115	131611 HARIS115	115	1	-174.8	-275.0	-0.04306	-0.02239	23.6	-28.5	
			C:130815 HINMN115	115	131611 HARIS115	115	1 312							
			Open 130815 HINMN115	115	131611 HARIS115	115	1				1.00000	-0.02067	-198.4	-246.5
8873	2443.9	770.2	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-114.5	637.0	0.30749	0.21329	11.3	532.6	
			C:SER:HC-SR_37&W-F_171				1600							
			Open 135398 SW345	345	200769 HOMER CY	345	1				0.28847	0.16810	-378.4	32.4
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.46324	0.09866	-35.9	205.2
8874	2446.3	771.3	L: 135460 PACK(N)E	115	147850 NIAG115E	115	1	-214.7	-328.0	-0.04630	-0.02796	-129.7	-198.1	
			C:135460 PACK(N)E	115	147850 NIAG115E	115	2 611							
			Open 135460 PACK(N)E	115	147850 NIAG115E	115	2				0.62283	-0.02944	-136.5	-208.5
8875	2489.3	792.0	L: 130815 HINMN115	115	131611 HARIS115	115	1	-222.3	-306.0	-0.03364	-0.02067	-198.4	-249.8	
			C:130766 ROBIN230	230	130767 STOLE230	230	1 224							
			Open 130766 ROBIN230	230	130767 STOLE230	230	1				-0.26115	0.04964	91.5	215.0
8876	2492.4	793.5	L: 135277 FALCONER	115	200579 WARREN	115	1	-35.9	210.0	0.09866				
			Base Case											
8877	2494.9	794.7	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	195.5	280.0	0.03389	0.02054	170.9	222.1	
			C:130766 ROBIN230	230	130767 STOLE230	230	1 224							
			Open 130766 ROBIN230	230	130767 STOLE230	230	1				0.26884	0.04964	91.5	215.3
8878	2538.2	815.5	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-2.8	637.0	0.25208	0.21329	11.3	552.7	
			C:135277 FALCONER	115	200579 WARREN	115	1 1379							
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.39308	0.09866	-35.9	214.5
8879	2553.3	822.7	L: 130846 ROBIN115	115	130853 A.LUD TP	115	1	-165.1	-275.0	-0.04306	-0.02239	33.3	-23.8	
			C:130815 HINMN115	115	131611 HARIS115	115	1 312							
			Open 130815 HINMN115	115	131611 HARIS115	115	1				1.00000	-0.02067	-198.4	-251.2

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8880	2614.8	852.2	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	-49.3	637.0	0.26248	0.21329	11.3	569.0
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.08545	0.12000	-543.5	-229.8
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.39454	0.09866	-35.9	222.1
8881	2618.9	854.2	L: 135451 PARADISE	115	135497	ZRMN-133	115	1	-86.1	-168.0	-0.03127			
			Base Case											
8882	2647.5	868.0	L: 135451 PARADISE	115	135497	ZRMN-133	115	1	-104.4	-206.0	-0.03837	-0.03127	-86.1	-168.9
			C:135451 PARADISE	115	135498	ZRMN-130	115	1	589					
			Open 135451 PARADISE	115	135498	ZRMN-130	115	1			0.28696	-0.02476	-63.7	-129.3
8883	2695.2	890.8	L: 135461 PACK(S)W	115	147851	NIAG115W	115	1	-225.6	-328.0	-0.03798	-0.02686	-159.6	-231.9
			C:135461 PACK(S)W	115	147851	NIAG115W	115	2	616					
			Open 135461 PACK(S)W	115	147851	NIAG115W	115	2			0.41411	-0.02686	-159.6	-231.9
8884	2695.2	890.8	L: 135461 PACK(S)W	115	147851	NIAG115W	115	2	-225.6	-328.0	-0.03798	-0.02686	-159.6	-231.9
			C:135461 PACK(S)W	115	147851	NIAG115W	115	1	615					
			Open 135461 PACK(S)W	115	147851	NIAG115W	115	1			0.41411	-0.02686	-159.6	-231.9
8885	2703.2	894.7	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	42.6	637.0	0.21987	0.21329	11.3	587.9
			C:130764 MEYER230	230	131122	WTHRS230	230	1	221					
			Open 130764 MEYER230	230	131122	WTHRS230	230	1			-0.13140	-0.05007	-238.5	-373.9
8886	2709.1	897.5	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	41.3	637.0	0.21987	0.21329	11.3	589.1
			C:130770 SHLDN230	230	131122	WTHRS230	230	1	228					
			Open 130770 SHLDN230	230	131122	WTHRS230	230	1			0.13140	0.05007	228.6	364.2
8887	2715.3	900.5	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	40.0	637.0	0.21987	0.21329	11.3	590.5
			C:130767 STOLE230	230	130770	SHLDN230	230	1	226					
			Open 130767 STOLE230	230	130770	SHLDN230	230	1			0.13140	0.05007	218.2	354.2
8888	2742.2	913.4	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	297.6	528.0	0.08401	0.07048	233.6	426.8
			C:147834 NIAG 345	345	147842	NIAGAR2W	230	1	1225					
			Open 147834 NIAG 345	345	147842	NIAGAR2W	230	1			-0.17809	-0.07596	-359.8	-568.1
8889	2759.1	921.5	L: 135451 PARADISE	115	135497	ZRMN-133	115	1	-100.8	-206.0	-0.03814	-0.03127	-86.1	-172.4
			C:135460 PACK(N)E	115	135461	PACK(S)W	115	1	608					
			Open 135460 PACK(N)E	115	135461	PACK(S)W	115	1			0.24398	-0.02816	-60.1	-137.8
8890	2759.5	921.7	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	24.5	637.0	0.22195	0.21329	11.3	599.9
			C:ETHS/NWES/LLGD					1648						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.06808	0.07791	117.6	332.6
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.06848	0.02981	43.0	125.2
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.05961	0.02202	38.0	98.7
8891	2763.7	923.7	L: 135275 EDNK-162	115	135286	MOON-162	115	1	15.3	108.0	0.03354	0.01963	14.4	68.6
			C:SER:EESR/NWES					1608						
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1			0.06466	0.21329	11.3	600.8
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.00402	0.02981	43.0	125.4
8892	2766.8	925.2	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	-64.9	482.0	0.19767			
			Base Case											
8893	2779.9	931.5	L: 135275 EDNK-162	115	135286	MOON-162	115	1	15.1	108.0	0.03341	0.01963	14.4	69.0

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				C:135251 S RIPLEY	230	200654 ERIE E	230	1	1378										
				Open 135251 S RIPLEY	230	200654 ERIE E	230	1				0.06460	0.21329	11.3	604.2				
8894	2805.7	943.9	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		29.0	637.0	0.21671	0.21329	11.3	609.7				
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03369	0.10129	524.7	808.9				
8895	2806.0	944.1	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		20.9	637.0	0.21957	0.21329	11.3	609.8				
				C:SER:C398/NWES					1605										
				Open 409 GROVER	230	200675 E.TWANDA	230	1				-0.01506	-0.00355	-15.6	-25.5				
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.05790	0.07791	117.6	336.3				
				Open 381 TOWANDA	115	200675 E.TWANDA	230	1				-0.00101	-0.00092	-52.1	-54.7				
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.05745	0.02981	43.0	126.6				
8896	2807.8	944.9	*L:	135251 S RIPLEY	230	200654 ERIE E	230	1		20.6	637.0	0.21953	0.21329	11.3	610.2				
				C:SER:ETHS/NWES					1606										
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.05819	0.07791	117.6	336.4				
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.05719	0.02981	43.0	126.7				
8904	2835.9	958.4	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1		-190.7	637.0	0.29187	0.19767	-64.9	495.7				
				C:SER:HC-SR_37&W-F_171					1600										
				Open 135398 SW345	345	200769 HOMER CY	345	1				0.28847	0.16810	-378.4	98.3				
				Open 135277 FALCONER	115	200579 WARREN	115	1				0.46324	0.09866	-35.9	243.9				
8928	2867.9	973.8	L:	130795 DEPEW115	115	135439 TUNGSTEN	115	1		-20.1	-120.0	-0.03485	-0.01426	-7.3	-48.2				
				C:135437 CLSP-181	115	135495 YNG-181	115	1	556										
				Open 135437 CLSP-181	115	135495 YNG-181	115	1				0.55616	-0.03702	-23.0	-129.2				
8940	2877.7	978.5	L:	135274 EDNK-161	115	135277 FALCONER	115	1		10.4	108.0	0.03390	0.01983	9.5	66.6				
				C:SER:EESR/NWES					1608										
				Open 135251 S RIPLEY	230	200654 ERIE E	230	1				0.06538	0.21329	11.3	625.1				
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00406	0.02981	43.0	128.8				
8954	2894.4	986.5	L:	135274 EDNK-161	115	135277 FALCONER	115	1		10.3	108.0	0.03376	0.01983	9.5	66.9				
				C:135251 S RIPLEY	230	200654 ERIE E	230	1	1378										
				Open 135251 S RIPLEY	230	200654 ERIE E	230	1				0.06532	0.21329	11.3	628.7				
8968	2902.4	990.3	L:	147842 NIAGAR2W	230	157063 BCK2PA27	230	1		281.0	528.0	0.08509	0.07048	233.6	438.1				
				C:135415 PACKARD2	230	157062 BCK2BP76	230	1	1381										
				Open 135415 PACKARD2	230	157062 BCK2BP76	230	1				0.29388	0.04972	161.5	305.9				
8970	2903.1	990.7	L:	147842 NIAGAR2W	230	157063 BCK2PA27	230	1		231.8	528.0	0.10201	0.07048	233.6	438.2				
				C:SER:EESR/WF/NWES					1611										
				Open 135251 S RIPLEY	230	200654 ERIE E	230	1				0.10464	0.21329	11.3	630.5				
				Open 135277 FALCONER	115	200579 WARREN	115	1				0.09085	0.09866	-35.9	250.5				
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00848	0.02981	43.0	129.5				
8974	2906.3	992.2	L:	135451 PARADISE	115	135497 ZRMN-133	115	1		-102.9	-206.0	-0.03549	-0.03127	-86.1	-177.0				
				C:135451 PARADISE	115	135460 PACK(N)E	115	1	585										
				Open 135451 PARADISE	115	135460 PACK(N)E	115	1				0.17361	-0.02434	-96.4	-167.1				
9016	2915.5	996.6	L:	147842 NIAGAR2W	230	157063 BCK2PA27	230	1		231.5	528.0	0.10170	0.07048	233.6	439.0				
				C:SER:EESR/WRFL					1609										

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			Open 135251 S RIPLEY	230	200654	ERIE E	230	1			0.10446	0.21329	11.3	633.2
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.09064	0.09866	-35.9	251.8
9030	2918.3	997.9	L: 135451 PARADISE	115	135497	ZRMN-133	115	1	-114.2	-206.0	-0.03144	-0.03127	-86.1	-177.4
			C:135487 S78-133	115	135497	ZRMN-133	115	1						640
			Open 135487 S78-133	115	135497	ZRMN-133	115	1			0.82700	-0.00021	-34.0	-34.6
10512	2942.5	1009.6	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	228.8	528.0	0.10169	0.07048	233.6	440.9
			C:SER:ESEE/WRFL											1610
			Open 270 ERIE SO.	230	531	ERIE SE	230	1			0.00022	-0.15991	16.5	-454.0
			Open 531 ERIE SE	230	200654	ERIE E	230	1			-0.10459	-0.21329	14.7	-613.0
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.09060	0.09866	-35.9	254.4
10585	2959.7	1017.8	L: 135451 PARADISE	115	135497	ZRMN-133	115	1	-103.0	-206.0	-0.03481	-0.03127	-86.1	-178.7
			C:135460 PACK(N)E	115	135538	LONG-182	115	1						609
			Open 135460 PACK(N)E	115	135538	LONG-182	115	1			-0.16937	0.02090	99.6	161.4
10590	2961.5	1018.7	L: 135451 PARADISE	115	135497	ZRMN-133	115	1	-102.9	-206.0	-0.03481	-0.03127	-86.1	-178.7
			C:135449 GR.I-182	115	135538	LONG-182	115	1						570
			Open 135449 GR.I-182	115	135538	LONG-182	115	1			0.16937	-0.02090	-99.2	-161.1
10598	2967.1	1021.4	L: 130795 DEPEW115	115	135439	TUNGSTEN	115	1	-24.6	-120.0	-0.03217	-0.01426	-7.3	-49.6
			C:135442 ECWA-181	115	135495	YNG-181	115	1						561
			Open 135442 ECWA-181	115	135495	YNG-181	115	1			-0.48644	0.03681	35.6	144.8
10613	2988.2	1031.5	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	270.2	528.0	0.08628	0.07048	233.6	444.2
			C:147834 NIAG 345	345	157050	BECK A	345	1						1385
			Open 147834 NIAG 345	345	157050	BECK A	345	1			0.21066	0.07500	173.9	398.0
10614	2988.4	1031.6	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	270.2	528.0	0.08628	0.07048	233.6	444.2
			C:147834 NIAG 345	345	157051	BECK B	345	1						1386
			Open 147834 NIAG 345	345	157051	BECK B	345	1			0.21066	0.07500	173.8	397.9

ZoneA-PJMWest-fw-os

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 17 2009 15:46
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-fw-os.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 17 2009 15:46
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-fw-os.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From A_EXPORT To PENELEC_IMPORT. Transfer level - 3000.0 MW
Falconer-Warren 115 out of service

Violations report ordered by transfer capability. Total 9091 violations

Interface-1 Interface 45 A-PJMWest Init.Flow= -392.11 TDF= 0.4473

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=		
			C: Contingency description	Ncon	Flow	Rating	LODF	Init	Final	
1	-94993.7	-42883.5	L: Interface 20 PJM-CENT		3222.7	-0.0	0.03393	-0.02566	3268.7	5706.6
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL	1649						
			Open 505 SHELOCTA 230 521 KEYSTONE	230	1		-0.36634	-0.13730	48.1	13091.1
			Open 473 BLAIRSVL 138 235253 01SOCIAL	138	1		-0.28363	-0.03275	100.0	3211.5
2	-5666.9	-2926.9	L: Interface 49 C-PJMCentral		308.0	-0.0	0.05435	0.14051	195.4	-600.8
			C:LKWANA-OXBW	1650						
			Open 417 OXBOW 230 3070 LACKAWNA	230	1		-0.92538	0.09311	-121.6	-649.3
3	-5666.9	-2926.9	L: Interface 50 PJMCentral-C		-308.0	0.0	-0.05435	-0.14051	-195.4	600.8
			C:LKWANA-OXBW	1650						
			Open 417 OXBOW 230 3070 LACKAWNA	230	1		0.92538	0.09311	-121.6	-649.3
4	-4653.5	-2473.7	L: Interface 23 QFW		1342.0	0.0	0.28838	0.28838	1089.3	-252.7
			C:GEN:BRUCE 6	1563						
			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5	MW	dispatch			

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5	-4334.9	-2331.1	L: Interface	23	QFW			1250.1	-0.0	0.28838		0.28838	1089.3	-160.8
			C:GEN:NANTCK	8			1564							
			Remove unit 1	from bus	158743 NANTICG8	22.0	490.0 MW	dispatch						
6	-4320.7	-2324.8	L: Interface	23	QFW			1246.0	0.0	0.28838		0.28838	1089.3	-156.7
			C:GEN:PICKER	6			1565							
			Remove unit 1	from bus	156683 PIC B G5	24.0	510.9 MW	dispatch						
7	-4097.2	-2224.8	L: Interface	23	QFW			1170.4	-0.0	0.28566		0.28838	1089.3	-92.3
			C:LAMBT7/LAMBG				1645							
			Open 160050	LAMB L4D	345 B\$1020 LAMBT	1.00	T7				0.04335	-0.06276	-232.6	24.5
			Open 160064	LAMB T78	220 B\$1020 LAMBT	1.00	T7				-0.17600	0.00000	0.3	0.3
			Set bus 160705	LAMBTNG4	24.0 generation	to	0.0 MW	dispatch						
8	-4097.0	-2224.7	L: Interface	23	QFW			1170.5	0.0	0.28569		0.28838	1089.3	-92.2
			C:LAMBT8/LAMBG				1646							
			Open 160050	LAMB L4D	345 B\$1021 LAMBT	1.00	T8				0.04320	-0.06228	-230.7	24.4
			Open 160064	LAMB T78	220 B\$1021 LAMBT	1.00	T8				-0.17590	0.00000	0.4	0.4
			Set bus 160705	LAMBTNG4	24.0 generation	to	0.0 MW	dispatch						
9	-4056.7	-2206.7	L: Interface	23	QFW			1158.8	0.0	0.28566		0.28838	1089.3	-80.6
			C:L4D+G3				1643							
			Open 160050	LAMB L4D	345 B\$1020 LAMBT	1.00	T7				0.04335	-0.06276	-232.6	22.0
			Open 160064	LAMB T78	220 B\$1020 LAMBT	1.00	T7				-0.17600	0.00000	0.3	0.3
			Open 160069	LAMBTPK2	220 160704 LAMBT	24.0	T3				-0.18622	0.00000	62.1	62.1
			Remove unit 1	from bus	160704 LAMBTNG3	24.0	490.0 MW	dispatch						
10	-4056.5	-2206.6	L: Interface	23	QFW			1158.9	0.0	0.28569		0.28838	1089.3	-80.5
			C:L51D+G3				1644							
			Open 160050	LAMB L4D	345 B\$1021 LAMBT	1.00	T8				0.04320	-0.06228	-230.7	21.9
			Open 160064	LAMB T78	220 B\$1021 LAMBT	1.00	T8				-0.17590	0.00000	0.4	0.4
			Open 160069	LAMBTPK2	220 160704 LAMBT	24.0	T3				-0.18614	0.00000	62.1	62.1
			Remove unit 1	from bus	160704 LAMBTNG3	24.0	490.0 MW	dispatch						
11	-4050.4	-2203.9	L: Interface	23	QFW			1102.9	0.0	0.27229		0.28838	1089.3	-78.8
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL				1649							
			Open 505	SHELOCTA	230 521 KEYSTONE	230	1				0.09572	-0.13730	48.1	604.2
			Open 473	BLAIRSVL	138 235253 01SOCIAL	138	1				0.08992	-0.03275	100.0	232.6
12	-3915.8	-2143.7	L: Interface	23	QFW			1177.6	0.0	0.30072		0.28838	1089.3	-40.0
			C:147834 NIAG	345	345 149000 ROCH	345	1 1226							
			Open 147834	NIAG 345	345 149000 ROCH	345	1				0.20966	0.05886	421.0	190.6
13	-3912.4	-2142.1	*L: Interface	23	QFW			1116.7	-0.0	0.28544		0.28838	1089.3	-39.0
			C:130753 FRASR	345	345 130755 OAKDL	345	1 200							
			Open 130753	FRASR345	345 130755 OAKDL	345	1				-0.04746	0.06199	-578.4	-820.9
1772	-2718.2	-1608.0	L: Interface	26	ONTARIO-MICH			742.7	-0.0	0.27322		0.28838	729.4	-54.4
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL				1649							
			Open 505	SHELOCTA	230 521 KEYSTONE	230	1				0.08908	-0.13730	48.1	421.3
			Open 473	BLAIRSVL	138 235253 01SOCIAL	138	1				0.08938	-0.03275	100.0	189.0

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1773	-2707.0	-1603.0	L: Interface	26	ONTARIO-MICH			782.6	0.0	0.28912	0.28838	729.4	-51.2	
			C:BUS:N.S._99									1614		
			Open	137453	N.SCOT99	345	147831 GILB 345	345	1		0.00348	0.01366	-310.9	-347.9
			Open	137453	N.SCOT99	345	147833 MARCY T1	345	1		-0.04568	-0.01312	-915.8	-880.3
			Open	137453	N.SCOT99	345	137516 N.SCOT1	115	1		-0.00400	-0.00035	118.7	119.6
			Open	137451	LEEDS 3	345	137453 N.SCOT99	345	2		-0.01467	-0.00597	-858.3	-842.2
			Open	137452	N.SCOT77	345	137453 N.SCOT99	345	1		0.20293	0.00000	1.6	1.6
1774	-2696.9	-1598.4	L: Interface	26	ONTARIO-MICH			779.5	0.0	0.28903	0.28838	729.4	-48.3	
			C:SIN:180									1671		
			Open	137453	N.SCOT99	345	147833 MARCY T1	345	1		-0.04968	-0.01312	-915.8	-880.4
			Open	137228	INGMS-CD	115	137886 INGHAM-E	115	1		0.03789	0.00000	119.9	119.9
			Open	137235	PORTER 1	115	147905 ILION	115	1		-0.00004	-0.00000	88.8	88.8
1775	-2696.9	-1598.4	L: Interface	26	ONTARIO-MICH			779.5	0.0	0.28903	0.28838	729.4	-48.3	
			C:SIN:170									1670		
			Open	137453	N.SCOT99	345	147833 MARCY T1	345	1		-0.04968	-0.01312	-915.8	-880.4
			Open	137228	INGMS-CD	115	137886 INGHAM-E	115	1		0.03789	0.00000	119.9	119.9
			Open	137235	PORTER 1	115	137246 VALLEY	115	1		-0.00006	-0.00000	74.8	74.8
1776	-2691.8	-1596.2	L: Interface	26	ONTARIO-MICH			777.9	0.0	0.28901	0.28838	729.4	-46.8	
			C:BUS:N.S._77									1613		
			Open	137452	N.SCOT77	345	137453 N.SCOT99	345	1		-0.01453	0.00616	-248.1	-264.7
			Open	137452	N.SCOT77	345	137516 N.SCOT1	115	1		-0.01783	-0.00032	111.8	112.6
			Open	137200	EDIC	345	137452 N.SCOT77	345	1		0.05859	0.01217	819.2	786.4
			Open	137450	ALPS345	345	137452 N.SCOT77	345	1		0.01204	-0.00026	-92.6	-91.9
			Open	137451	LEEDS 3	345	137452 N.SCOT77	345	1		0.18887	0.00000	0.0	0.0
1777	-2689.1	-1595.0	L: Interface	26	ONTARIO-MICH			755.9	-0.0	0.28111	0.28838	729.4	-46.0	
			C:W44LC									1641		
			Open	160062	LONGWOOD	220	160074 COWALJ44	220	1		-0.15945	0.02439	188.6	123.1
			Open	160074	COWALJ44	220	160134 BUCHJW44	220	1		0.16186	-0.02085	334.9	391.0
			Open	160054	BUCHANAN	220	160134 BUCHJW44	220	1		-0.00035	0.02085	-256.6	-312.7
			Open	160055	CHATHAM	220	160074 COWALJ44	220	1		0.72155	0.00000	3.2	3.2
1778	-2688.9	-1594.9	L: Interface	26	ONTARIO-MICH			755.9	-0.0	0.28112	0.28838	729.4	-46.0	
			C:W45LC									1642		
			Open	160062	LONGWOOD	220	160075 COWALJ45	220	1		-0.15939	0.02436	188.7	123.2
			Open	160075	COWALJ45	220	160135 BUCHJW45	220	1		0.16181	-0.02083	334.8	390.8
			Open	160054	BUCHANAN	220	160135 BUCHJW45	220	1		-0.00035	0.02083	-262.9	-318.9
			Open	160055	CHATHAM	220	160075 COWALJ45	220	1		0.72151	0.00000	3.1	3.1
1779	-2686.2	-1593.7	L: Interface	26	ONTARIO-MICH			776.4	0.0	0.28905	0.28838	729.4	-45.2	
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196						
			Open	130750	COOPC345	345	147833 MARCY T1	345	1		-0.06360	-0.01056	-739.0	-710.6
1780	-2681.4	-1591.5	L: Interface	26	ONTARIO-MICH			773.1	-0.0	0.28832	0.28838	729.4	-43.8	
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7						
			Open	125001	ROCK TAV	345	126297 RAMAPO	345	1		0.03916	-0.00148	1114.8	1118.8

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1781	-2681.4	-1591.5	*L: Interface	26	ONTARIO-MICH			773.1	-0.0	0.28832		0.28838	729.4	-43.8	
			C:SIN:440												
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		0.03916	-0.00148	1114.8	1118.8
3513	-2121.4	-1341.0	L: Interface	49	C-PJMCentral			279.1	0.0	0.13155		0.14051	195.4	-102.6	
			C:130753	FRASR345		345	130755	OAKDL345	345	1	200				
			Open	130753	FRASR345	345	130755	OAKDL345	345	1		-0.14458	0.06199	-578.4	-709.9
3514	-2121.4	-1341.0	L: Interface	50	PJMCentral-C			-279.1	-0.0	-0.13155		-0.14051	-195.4	102.6	
			C:130753	FRASR345		345	130755	OAKDL345	345	1	200				
			Open	130753	FRASR345	345	130755	OAKDL345	345	1		0.14458	0.06199	-578.4	-709.9
3529	-1901.7	-1242.8	L: Interface	50	PJMCentral-C			-265.0	-0.0	-0.13937		-0.14051	-195.4	71.8	
			C:130750	COOPC345		345	130753	FRASR345	345	1	192				
			Open	130750	COOPC345	345	130753	FRASR345	345	1		0.06979	0.01633	-997.3	-1028.3
3530	-1901.7	-1242.8	L: Interface	49	C-PJMCentral			265.0	0.0	0.13937		0.14051	195.4	-71.8	
			C:130750	COOPC345		345	130753	FRASR345	345	1	192				
			Open	130750	COOPC345	345	130753	FRASR345	345	1		-0.06979	0.01633	-997.3	-1028.3
3536	-1777.0	-1187.0	L: Interface	50	PJMCentral-C			-226.8	-0.0	-0.12762		-0.14051	-195.4	54.2	
			C:130755	OAKDL345		345	130757	WATRC345	345	1	206				
			Open	130755	OAKDL345	345	130757	WATRC345	345	1		0.11824	0.10907	-264.9	-458.7
3537	-1777.0	-1187.0	L: Interface	49	C-PJMCentral			226.8	0.0	0.12762		0.14051	195.4	-54.2	
			C:130755	OAKDL345		345	130757	WATRC345	345	1	206				
			Open	130755	OAKDL345	345	130757	WATRC345	345	1		-0.11824	0.10907	-264.9	-458.7
3540	-1725.9	-1164.1	L: Interface	49	C-PJMCentral			242.4	0.0	0.14045		0.14051	195.4	-47.1	
			C:125001	ROCK TAV		345	126297	RAMAPO	345	1	7				
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		0.04213	-0.00148	1114.8	1117.4
3541	-1725.9	-1164.1	L: Interface	49	C-PJMCentral			242.4	0.0	0.14045		0.14051	195.4	-47.1	
			C:SIN:440												
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		0.04213	-0.00148	1114.8	1117.4
3542	-1725.9	-1164.1	L: Interface	50	PJMCentral-C			-242.4	-0.0	-0.14045		-0.14051	-195.4	47.1	
			C:SIN:440												
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		-0.04213	-0.00148	1114.8	1117.4
3543	-1725.9	-1164.1	L: Interface	50	PJMCentral-C			-242.4	-0.0	-0.14045		-0.14051	-195.4	47.1	
			C:125001	ROCK TAV		345	126297	RAMAPO	345	1	7				
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		-0.04213	-0.00148	1114.8	1117.4
3545	-1658.9	-1134.2	L: Interface	50	PJMCentral-C			-233.5	0.0	-0.14076		-0.14051	-195.4	37.7	
			C:BUS:N.S._99												
			Open	137453	N.SCOT99	345	147831	GILB	345	1		0.01348	0.01366	-310.9	-333.6
			Open	137453	N.SCOT99	345	147833	MARCY T1	345	1		0.02942	-0.01312	-915.8	-894.0
			Open	137453	N.SCOT99	345	137516	N.SCOT1	115	1		0.00175	-0.00035	118.7	119.3
			Open	137451	LEEDS 3	345	137453	N.SCOT99	345	2		0.00823	-0.00597	-858.3	-848.4
			Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1		-0.05020	0.00000	1.6	1.6
3546	-1658.9	-1134.2	L: Interface	49	C-PJMCentral			233.5	-0.0	0.14076		0.14051	195.4	-37.7	
			C:BUS:N.S._99												

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			Open 137453 N.SCOT99	345	147831	GILB	345	345	1		-0.01348	0.01366	-310.9	-333.6
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	345	1		-0.02942	-0.01312	-915.8	-894.0
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	115	1		-0.00175	-0.00035	118.7	119.3
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	345	2		-0.00823	-0.00597	-858.3	-848.4
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	345	1		0.05020	0.00000	1.6	1.6
3547	-1652.5	-1131.3	L: Interface	49	C-PJMCentral			232.2	-0.0	0.14051		0.14051	195.4	-36.8
			C:GEN:SALEM					1566						
			Remove unit 1	from bus	36 SALEM-G1	22.0	1117.3	MW	dispatch					
3548	-1652.5	-1131.3	L: Interface	50	PJMCentral-C			-232.2	0.0	-0.14051		-0.14051	-195.4	36.8
			C:GEN:SALEM					1566						
			Remove unit 1	from bus	36 SALEM-G1	22.0	1117.3	MW	dispatch					
3549	-1644.3	-1127.6	L: Interface	50	PJMCentral-C			-230.9	-0.0	-0.14042		-0.14051	-195.4	35.6
			C:SER:CMT34&MTR34					1592						
			Open 130750 COOPC345	345	146754	MDTN TAP	345	345	1		-0.05013	-0.00295	874.1	878.9
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	345	1		-0.01970	0.00257	-425.3	-429.6
3550	-1644.3	-1127.6	L: Interface	49	C-PJMCentral			230.9	0.0	0.14042		0.14051	195.4	-35.6
			C:SER:CMT34&MTR34					1592						
			Open 130750 COOPC345	345	146754	MDTN TAP	345	345	1		0.05013	-0.00295	874.1	878.9
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	345	1		0.01970	0.00257	-425.3	-429.6
3551	-1639.9	-1125.6	*L: Interface	50	PJMCentral-C			-230.4	-0.0	-0.14051		-0.14051	-195.4	35.0
			C:GEN:MARTN CK					1568						
			Remove unit 4	from bus	3151 MTN CK 4	24.0	704.3	MW	dispatch					
3552	-1639.9	-1125.6	*L: Interface	49	C-PJMCentral			230.4	0.0	0.14051		0.14051	195.4	-35.0
			C:GEN:MARTN CK					1568						
			Remove unit 4	from bus	3151 MTN CK 4	24.0	704.3	MW	dispatch					
6393	-1389.1	-1013.5	L: Interface	52	PJMEast-G			-75.9	0.0	-0.05465		-0.00000	0.3	0.3
			C:ETHS/NWES/LLGD					1647						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	230	1		-0.37969	0.08467	115.8	-1.8
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	115	1		-0.39156	0.03234	42.1	-2.8
			Open 130807 GOUDY115	115	200680	LAUREL L	115	115	1		-0.41868	0.02350	37.5	4.9
6394	-1389.1	-1013.5	L: Interface	51	G-PJMEast			75.9	-0.0	0.05465		0.00000	-0.3	-0.3
			C:ETHS/NWES/LLGD					1647						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	230	1		0.37969	0.08467	115.8	-1.8
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	115	1		0.39156	0.03234	42.1	-2.8
			Open 130807 GOUDY115	115	200680	LAUREL L	115	115	1		0.41868	0.02350	37.5	4.9
6915	-1342.5	-992.6	L: Interface	51	G-PJMEast			48.8	-0.0	0.03634		0.00000	-0.3	-0.3
			C:SER:ETHS/NWES					1605						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	230	1		0.31005	0.08467	115.8	2.1
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	115	1		0.31203	0.03234	42.1	-1.3
6916	-1342.5	-992.6	L: Interface	52	PJMEast-G			-48.8	0.0	-0.03634		-0.00000	0.3	0.3
			C:SER:ETHS/NWES					1605						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	230	1		-0.31005	0.08467	115.8	2.1

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			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.31203	0.03234	42.1	-1.3
6961	-1319.5	-982.3	L: Interface 51 G-PJMEast						47.8	0.0	0.03624	0.00000	-0.3	-0.3
			C:SER:C398/NWES					1604						
			Open 409 GROVER	230	200675	E.TWANDA	230	1			0.02472	-0.00411	-15.4	-10.0
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.31146	0.08467	115.8	4.1
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1			0.01195	-0.00153	-52.0	-50.0
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.30893	0.03234	42.1	-0.6
6962	-1319.5	-982.3	L: Interface 52 PJMEast-G						-47.8	-0.0	-0.03624	-0.00000	0.3	0.3
			C:SER:C398/NWES					1604						
			Open 409 GROVER	230	200675	E.TWANDA	230	1			-0.02472	-0.00411	-15.4	-10.0
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.31146	0.08467	115.8	4.1
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1			-0.01195	-0.00153	-52.0	-50.0
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.30893	0.03234	42.1	-0.6
7078	-104.4	-438.8	L: Interface 52 PJMEast-G						-5.1	-0.0	-0.04870	-0.00000	0.3	0.3
			C:SER:EESR/NWES					1607						
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1			-0.17353	0.25390	-4.0	-30.6
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.14355	0.03234	42.1	38.7
7079	-104.4	-438.8	L: Interface 51 G-PJMEast						5.1	0.0	0.04870	0.00000	-0.3	-0.3
			C:SER:EESR/NWES					1607						
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1			0.17353	0.25390	-4.0	-30.6
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.14355	0.03234	42.1	38.7
7080	-104.4	-438.8	L: Interface 52 PJMEast-G						-5.1	-0.0	-0.04870	-0.00000	0.3	0.3
			C:SER:EESR/WF/NWES					1610						
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1			-0.17353	0.25390	-4.0	-30.6
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.14355	0.03234	42.1	38.7
7081	-104.4	-438.8	L: Interface 51 G-PJMEast						5.1	0.0	0.04870	0.00000	-0.3	-0.3
			C:SER:EESR/WF/NWES					1610						
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1			0.17353	0.25390	-4.0	-30.6
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.14355	0.03234	42.1	38.7
7082	21.8	-382.4	L: Interface 52 PJMEast-G						0.9	-0.0	-0.04330	-0.00000	0.3	0.3
			C:135251 S RIPLEY	230	200654	ERIE E	230	1	1378					
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1			-0.17055	0.25390	-4.0	1.5
7083	21.8	-382.4	L: Interface 51 G-PJMEast						-0.9	0.0	0.04330	0.00000	-0.3	-0.3
			C:SER:EESR/WRFL					1608						
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1			0.17055	0.25390	-4.0	1.5
7084	21.8	-382.4	L: Interface 52 PJMEast-G						0.9	-0.0	-0.04330	-0.00000	0.3	0.3
			C:SER:EESR/WRFL					1608						
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1			-0.17055	0.25390	-4.0	1.5
7085	21.8	-382.4	L: Interface 51 G-PJMEast						-0.9	0.0	0.04330	0.00000	-0.3	-0.3
			C:135251 S RIPLEY	230	200654	ERIE E	230	1	1378					
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1			0.17055	0.25390	-4.0	1.5
7086	124.2	-336.6	L: Interface 51 G-PJMEast						-5.4	-0.0	0.04333	0.00000	-0.3	-0.3

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				C:SER:ESEE/WRFL						1609													
				Open	270	ERIE SO.	230	531	ERIE SE	230	1						-0.00053	-0.20226	32.3	7.2			
				Open	531	ERIE SE	230	200654	ERIE E	230	1							-0.17024	-0.25390	30.0	-1.5		
7087	124.2	-336.6		L: Interface	52	PJMEast-G						5.4	0.0	-0.04333				-0.00000	0.3	0.3			
				C:SER:ESEE/WRFL																	1609		
				Open	270	ERIE SO.	230	531	ERIE SE	230	1									0.00053	-0.20226	32.3	7.2
				Open	531	ERIE SE	230	200654	ERIE E	230	1									0.17024	-0.25390	30.0	-1.5
7088	343.1	-238.6		L: Interface	51	G-PJMEast						-13.9	-0.0	0.04064					0.00000	-0.3	-0.3		
				C:135250 DUNKIRK			230	135251	S RIPLEY	230	1	422											
				Open	135250	DUNKIRK	230	135251	S RIPLEY	230	1									0.17055	0.23828	-80.3	1.5
7089	343.1	-238.6		L: Interface	52	PJMEast-G						13.9	0.0	-0.04064					-0.00000	0.3	0.3		
				C:135250 DUNKIRK			230	135251	S RIPLEY	230	1	422											
				Open	135250	DUNKIRK	230	135251	S RIPLEY	230	1									-0.17055	0.23828	-80.3	1.5
7090	1313.4	195.4	*	L: Interface	51	G-PJMEast						-46.6	-0.0	0.03547					0.00000	-0.3	-0.3		
				C:LKWANA-OXBW																		1650	
				Open	417	OXBOW	230	3070	LACKAWNA	230	1									0.38099	0.09311	-121.6	0.7
7091	1313.4	195.4	*	L: Interface	52	PJMEast-G						46.6	0.0	-0.03547					-0.00000	0.3	0.3		
				C:LKWANA-OXBW																		1650	
				Open	417	OXBOW	230	3070	LACKAWNA	230	1									-0.38099	0.09311	-121.6	0.7
7092	1481.4	270.5		L: 130836	N.WAV115		115	200676	E.SAYRE	115	1	42.1	90.0	0.03234									
				Base Case																			
7093	1724.8	379.4		L: 130814	HILSD115		115	131162	CHEMU115	115	1	104.1	179.0	0.04343					0.01710	67.5	97.0		
				C:ETHS/LLGD																		1648	
				Open	130763	HILSD230	230	200675	E.TWANDA	230	1									0.27954	0.08467	115.8	261.9
				Open	130807	GOUDY115	115	200680	LAUREL L	115	1									0.11321	0.02350	37.5	78.1
7094	1796.5	411.5		L: 130836	N.WAV115		115	131162	CHEMU115	115	1	-101.0	-179.0	-0.04343					-0.01710	-64.4	-95.1		
				C:ETHS/LLGD																		1648	
				Open	130763	HILSD230	230	200675	E.TWANDA	230	1									-0.27954	0.08467	115.8	267.9
				Open	130807	GOUDY115	115	200680	LAUREL L	115	1									-0.11321	0.02350	37.5	79.7
7095	1807.2	416.3		L: 135461	PACK(S)W		115	147851	NIAG115W	115	3	-253.4	-328.0	-0.04126					-0.02918	-179.2	-231.9		
				C:135461	PACK(S)W		115	147851	NIAG115W	115	2	616											
				Open	135461	PACK(S)W	115	147851	NIAG115W	115	2									0.46445	-0.02602	-159.8	-206.8
7096	1807.2	416.3		L: 135461	PACK(S)W		115	147851	NIAG115W	115	3	-253.4	-328.0	-0.04126					-0.02918	-179.2	-231.9		
				C:135461	PACK(S)W		115	147851	NIAG115W	115	1	615											
				Open	135461	PACK(S)W	115	147851	NIAG115W	115	1									0.46445	-0.02602	-159.8	-206.8
7097	1969.5	488.9		L: 135250	DUNKIRK		230	135391	DUNGEN4	13.8	1	-178.0	-249.0	-0.03603									
				Base Case																			
7098	1981.2	494.1		L: 135251	S RIPLEY		230	200654	ERIE E	230	1	-4.0	499.0	0.25390									
				Base Case																			
7099	2007.7	506.0		L: 135250	DUNKIRK		230	135390	DUNGEN3	13.8	1	-177.0	-249.0	-0.03584									
				Base Case																			
7100	2015.9	509.6		L: 130830	MONTR115		115	130845	RIDGT115	115	1	68.1	133.0	0.03221					0.02073	48.2	90.0		

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				C:130830 MONTR115	115	130844 RIDGR115	115	1	333										
				Open 130830 MONTR115	115	130844 RIDGR115	115	1				0.57189	0.02009	34.7	75.2				
7101	2027.5	514.8	L:	130814 HILSD115	115	131162 CHEMU115	115	1		98.4	179.0	0.03974		0.01710	67.5	102.1			
				C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375										
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.26736	0.08467	115.8	287.5				
7102	2051.3	525.5	L:	135414 HUNTLEY2	230	135800 HNTLY67G	13.8	1		-175.9	-249.0	-0.03562							
				Base Case															
7103	2105.9	549.9	L:	130836 N.WAV115	115	131162 CHEMU115	115	1		-95.3	-179.0	-0.03974		-0.01710	-64.4	-100.4			
				C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375										
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1				-0.26736	0.08467	115.8	294.1				
7104	2237.4	608.7	L:	135414 HUNTLEY2	230	135801 HNTLY68G	13.8	1		-171.4	-249.0	-0.03469							
				Base Case															
7105	2314.1	643.0	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		30.7	637.0	0.26200		0.25390	-4.0	583.5			
				C:130764 MEYER230	230	131122 WTHRS230	230	1	221										
				Open 130764 MEYER230	230	131122 WTHRS230	230	1				-0.14672	-0.05515	-236.9	-364.6				
7106	2319.7	645.5	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		29.3	637.0	0.26200		0.25390	-4.0	584.9			
				C:130770 SHLDN230	230	131122 WTHRS230	230	1	228										
				Open 130770 SHLDN230	230	131122 WTHRS230	230	1				0.14672	0.05515	227.0	354.9				
7107	2324.2	647.5	L:	135461 PACK(S)W	115	147851 NIAG115W	115	2		-238.0	-328.0	-0.03874		-0.02602	-159.8	-220.3			
				C:135461 PACK(S)W	115	147851 NIAG115W	115	3	617										
				Open 135461 PACK(S)W	115	147851 NIAG115W	115	3				0.43607	-0.02918	-179.2	-247.0				
7108	2324.2	647.5	L:	135461 PACK(S)W	115	147851 NIAG115W	115	1		-238.0	-328.0	-0.03874		-0.02602	-159.8	-220.3			
				C:135461 PACK(S)W	115	147851 NIAG115W	115	3	617										
				Open 135461 PACK(S)W	115	147851 NIAG115W	115	3				0.43607	-0.02918	-179.2	-247.0				
7109	2325.5	648.1	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		27.7	637.0	0.26200		0.25390	-4.0	586.4			
				C:130767 STOLE230	230	130770 SHLDN230	230	1	226										
				Open 130767 STOLE230	230	130770 SHLDN230	230	1				0.14672	0.05515	216.6	344.8				
7110	2326.9	648.7	L:	130853 A.LUD TP	115	131611 HARIS115	115	1		-174.8	-275.0	-0.04306		-0.02299	23.7	-29.8			
				C:130815 HINMN115	115	131611 HARIS115	115	1	312										
				Open 130815 HINMN115	115	131611 HARIS115	115	1				1.00000	-0.02007	-198.5	-245.2				
7111	2359.7	663.4	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1		-80.3	482.0	0.23828							
				Base Case															
7112	2360.1	663.6	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		11.4	637.0	0.26506		0.25390	-4.0	595.2			
				C:ETHS/NWES/LLGD					1647										
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.08087	0.08467	115.8	315.7				
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.08190	0.03234	42.1	118.4				
				Open 130807 GOUDY115	115	200680 LAUREL L	115	1				0.07076	0.02350	37.5	93.0				
7113	2386.6	675.4	L:	135460 PACK(N)E	115	147850 NIAG115E	115	2		-219.4	-328.0	-0.04550		-0.02838	-136.9	-204.6			
				C:135460 PACK(N)E	115	147850 NIAG115E	115	1	610										
				Open 135460 PACK(N)E	115	147850 NIAG115E	115	1				0.63487	-0.02696	-130.1	-194.4				
7114	2403.0	682.7	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		7.3	637.0	0.26205		0.25390	-4.0	606.1			
				C:SER:C398/NWES					1604										

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			Open	409	GROVER	230	200675	E.TWANDA	230	1			-0.02489	-0.00411	-15.4	-25.3
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.06859	0.08467	115.8	319.3
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1			-0.00223	-0.00153	-52.0	-55.7
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.06904	0.03234	42.1	119.8
7115	2405.5	683.9	L:	135251	S RIPLEY	230	200654	ERIE E	230	1	6.8	637.0	0.26197	0.25390	-4.0	606.7
			C:	SER:ETHS/NWES						1605						
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.06910	0.08467	115.8	319.5
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.06846	0.03234	42.1	119.9
7116	2409.5	685.7	L:	135251	S RIPLEY	230	200654	ERIE E	230	1	15.8	637.0	0.25782	0.25390	-4.0	607.7
			C:	130754	KINTI345	345	149000	ROCH 345	345	1 205						
			Open	130754	KINTI345	345	149000	ROCH 345	345	1			0.03783	0.10359	523.8	773.4
7117	2411.4	686.6	L:	135251	S RIPLEY	230	200654	ERIE E	230	1	10.3	637.0	0.25987	0.25390	-4.0	608.2
			C:	SER:MEYER_HILLS_68						1603						
			Open	130761	AVOCA230	230	131154	STONY RIDGE	230	1			0.10774	0.05539	133.2	266.8
			Open	130751	CNDGUA_T	230	130761	AVOCA230	230	1			0.16023	0.00000	0.1	0.1
7118	2411.5	686.6	L:	135251	S RIPLEY	230	200654	ERIE E	230	1	10.3	637.0	0.25987	0.25390	-4.0	608.2
			C:	130751	CNDGUA_T	230	130761	AVOCA230	230	1 197						
			Open	130751	CNDGUA_T	230	130761	AVOCA230	230	1			0.10774	0.05539	133.4	266.9
7119	2411.5	686.6	*L:	135251	S RIPLEY	230	200654	ERIE E	230	1	10.3	637.0	0.25987	0.25390	-4.0	608.3
			C:	130761	AVOCA230	230	131154	STONY RIDGE	230	1 216						
			Open	130761	AVOCA230	230	131154	STONY RIDGE	230	1			0.10774	0.05539	133.2	266.8
8497	2525.1	737.4	L:	135460	PACK(N)E	115	147850	NIAG115E	115	1	-215.3	-328.0	-0.04463	-0.02696	-130.1	-198.1
			C:	135460	PACK(N)E	115	147850	NIAG115E	115	2 611						
			Open	135460	PACK(N)E	115	147850	NIAG115E	115	2			0.62286	-0.02838	-136.9	-208.5
8809	2553.3	750.0	L:	130846	ROBIN115	115	130853	A.LUD TP	115	1	-165.1	-275.0	-0.04306	-0.02299	33.5	-25.2
			C:	130815	HINMN115	115	131611	HARIS115	115	1 312						
			Open	130815	HINMN115	115	131611	HARIS115	115	1			1.00000	-0.02007	-198.5	-249.8
8817	2566.7	756.0	L:	130815	HINMN115	115	131611	HARIS115	115	1	-222.6	-306.0	-0.03248	-0.02007	-198.5	-250.0
			C:	130766	ROBIN230	230	130767	STOLE230	230	1 224						
			Open	130766	ROBIN230	230	130767	STOLE230	230	1			-0.26124	0.04752	92.3	214.3
8823	2574.3	759.4	L:	130815	HINMN115	115	135452	LOCKPORT	115	1	195.8	280.0	0.03270	0.01992	171.0	222.3
			C:	130766	ROBIN230	230	130767	STOLE230	230	1 224						
			Open	130766	ROBIN230	230	130767	STOLE230	230	1			0.26894	0.04752	92.3	214.6
8824	2576.8	760.5	L:	147842	NIAGAR2W	230	157063	BCK2PA27	230	1	295.6	528.0	0.09019	0.07542	231.8	426.2
			C:	147834	NIAG 345	345	147842	NIAGAR2W	230	1 1225						
			Open	147834	NIAG 345	345	147842	NIAGAR2W	230	1			-0.17835	-0.08281	-357.4	-570.8
8858	2652.3	794.3	L:	130830	MONTR115	115	130844	RIDGR115	115	1	61.4	145.0	0.03154	0.02009	34.7	88.0
			C:	130830	MONTR115	115	130845	RIDGT115	115	1 334						
			Open	130830	MONTR115	115	130845	RIDGT115	115	1			0.55247	0.02073	48.2	103.2
8867	2720.4	824.7	L:	147842	NIAGAR2W	230	157063	BCK2PA27	230	1	278.8	528.0	0.09159	0.07542	231.8	437.0
			C:	135415	PACKARD2	230	157062	BCK2BP76	230	1 1380						
			Open	135415	PACKARD2	230	157062	BCK2BP76	230	1			0.29431	0.05493	159.7	309.1

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8873	2770.2	847.0	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-45.5	637.0	0.24637	0.23828	-80.3	579.8
			C:130764 MEYER230	230	131122 WTHRS230	230	1 221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				-0.14672	-0.05515	-236.9 -389.7
8874	2772.5	848.1	L: 135461 PACK(S)W	115	147851 NIAG115W	115	1	-226.0	-328.0	-0.03679	-0.02602	-159.8	-231.9
			C:135461 PACK(S)W	115	147851 NIAG115W	115	2 616						
			Open 135461 PACK(S)W	115	147851 NIAG115W	115	2				0.41412	-0.02602	-159.8 -231.9
8875	2772.5	848.1	L: 135461 PACK(S)W	115	147851 NIAG115W	115	2	-226.0	-328.0	-0.03679	-0.02602	-159.8	-231.9
			C:135461 PACK(S)W	115	147851 NIAG115W	115	1 615						
			Open 135461 PACK(S)W	115	147851 NIAG115W	115	1				0.41412	-0.02602	-159.8 -231.9
8876	2776.1	849.7	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-47.0	637.0	0.24637	0.23828	-80.3	581.2
			C:130770 SHLDN230	230	131122 WTHRS230	230	1 228						
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				0.14672	0.05515	227.0 380.1
8877	2781.3	852.0	L: 135451 PARADISE	115	135497 ZRMN-133	115	1	-105.0	-206.0	-0.03631	-0.02966	-86.6	-169.1
			C:135451 PARADISE	115	135498 ZRMN-130	115	1 589						
			Open 135451 PARADISE	115	135498 ZRMN-130	115	1				0.28707	-0.02313	-64.2 -128.6
8878	2782.3	852.4	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-48.5	637.0	0.24637	0.23828	-80.3	582.7
			C:130767 STOLE230	230	130770 SHLDN230	230	1 226						
			Open 130767 STOLE230	230	130770 SHLDN230	230	1				0.14672	0.05515	216.6 370.0
8879	2813.5	866.4	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-64.8	637.0	0.24944	0.23828	-80.3	590.1
			C:ETHS/NWES/LLGD				1647						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.08087	0.08467	115.8 354.1
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.08190	0.03234	42.1 133.1
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1				0.07076	0.02350	37.5 103.6
8881	2819.7	869.2	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-192.2	637.0	0.29407	0.23828	-80.3	591.6
			C:SER:HC-SR_37&W-F_171				1599						
			Open 135398 SW345	345	200769 HOMER CY	345	1				0.28848	0.19340	-388.1 157.3
8882	2819.7	869.2	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-192.2	637.0	0.29407	0.23828	-80.3	591.6
			C:135398 SW345	345	200769 HOMER CY	345	1 1379						
			Open 135398 SW345	345	200769 HOMER CY	345	1				0.28848	0.19340	-388.1 157.3
8883	2821.4	869.9	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-51.7	637.0	0.24411	0.23828	-80.3	592.0
			C:135278 NORCNSTA	115	135279 NORCNGEN	115	1 473						
			Open 135278 NORCNSTA	115	135279 NORCNGEN	115	1				-0.37303	-0.01562	-76.5 -120.6
8884	2821.4	869.9	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	268.2	528.0	0.09208	0.07542	231.8	444.6
			C:147834 NIAG 345	345	157050 BECK A	345	1 1384						
			Open 147834 NIAG 345	345	157050 BECK A	345	1				0.21077	0.07902	172.6 395.5
8885	2821.6	870.0	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	268.2	528.0	0.09208	0.07542	231.8	444.7
			C:147834 NIAG 345	345	157051 BECK B	345	1 1385						
			Open 147834 NIAG 345	345	157051 BECK B	345	1				0.21077	0.07902	172.5 395.4
8886	2821.8	870.1	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-51.8	637.0	0.24411	0.23828	-80.3	592.1
			C:135251 S RIPLEY	230	135279 NORCNGEN	115	1 427						
			Open 135251 S RIPLEY	230	135279 NORCNGEN	115	1				-0.37303	-0.01562	-76.2 -120.3
8890	2864.6	889.2	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-68.9	637.0	0.24643	0.23828	-80.3	602.3

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		C:SER:C398/NWES						1604												
		Open	409 GROVER	230	200675 E.TWANDA	230	1				-0.02489	-0.00411	-15.4	-27.2						
		Open	130763 HILSD230	230	200675 E.TWANDA	230	1				0.06859	0.08467	115.8	358.4						
		Open	381 TOWANDA	115	200675 E.TWANDA	230	1				-0.00223	-0.00153	-52.0	-56.4						
		Open	130836 N.WAV115	115	200676 E.SAYRE	115	1				0.06904	0.03234	42.1	134.7						
8891	2867.4	890.5*L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1				-69.4	637.0	0.24635			0.23828	-80.3	603.0		
		C:SER:ETHS/NWES						1605												
		Open	130763 HILSD230	230	200675 E.TWANDA	230	1													
		Open	130836 N.WAV115	115	200676 E.SAYRE	115	1													
8898	2887.9	899.7 L:	135451 PARADISE	115	135497 ZRMN-133	115	1				-101.4	-206.0	-0.03623				-0.02966	-86.6	-172.3	
		C:135460 PACK(N)E	115	135461 PACK(S)W	115	1	608													
		Open	135460 PACK(N)E	115	135461 PACK(S)W	115	1													
8899	2896.6	903.6 L:	147842 NIAGAR2W	230	157063 BCK2PA27	230	1				231.8	528.0	0.10227				0.07542	231.8	450.3	
		C:SER:EESR/NWES						1607												
		Open	135251 S RIPLEY	230	200654 ERIE E	230	1													
		Open	130836 N.WAV115	115	200676 E.SAYRE	115	1													
8900	2896.6	903.6 L:	147842 NIAGAR2W	230	157063 BCK2PA27	230	1				231.8	528.0	0.10227				0.07542	231.8	450.3	
		C:SER:EESR/WF/NWES						1610												
		Open	135251 S RIPLEY	230	200654 ERIE E	230	1													
		Open	130836 N.WAV115	115	200676 E.SAYRE	115	1													
8902	2909.2	909.2 L:	147842 NIAGAR2W	230	157063 BCK2PA27	230	1				231.4	528.0	0.10195				0.07542	231.8	451.3	
		C:SER:EESR/WRFL						1608												
		Open	135251 S RIPLEY	230	200654 ERIE E	230	1													
8903	2909.2	909.2 L:	147842 NIAGAR2W	230	157063 BCK2PA27	230	1				231.4	528.0	0.10195				0.07542	231.8	451.3	
		C:135251 S RIPLEY	230	200654 ERIE E	230	1	1378													
		Open	135251 S RIPLEY	230	200654 ERIE E	230	1													
8919	2936.1	921.2 L:	147842 NIAGAR2W	230	157063 BCK2PA27	230	1				228.7	528.0	0.10193				0.07542	231.8	453.3	
		C:SER:ESEE/WRFL						1609												
		Open	270 ERIE SO.	230	531 ERIE SE	230	1													
		Open	531 ERIE SE	230	200654 ERIE E	230	1													
8945	2976.8	939.4 L:	130795 DEPEW115	115	135439 TUNGSTEN	115	1				-20.7	-120.0	-0.03336				-0.01400	-7.5	-49.2	
		C:135437 CLSP-181	115	135495 YNG-181	115	1	556													
		Open	135437 CLSP-181	115	135495 YNG-181	115	1													

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, MAY 07 2009 21:54
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-pjm-ny-fw-recond.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From A_EXPORT To PENELEC_IMPORT. Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 15934 violations

Interface-1 Interface 45 A-PJMWest Init.Flow= -403.00 TDF= 0.4801

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating	LODF	Init Final
1	-92260.5	-44693.4	L: Interface 20 PJM-CENT C:KEY-SHELOCTA/BLAIRSVL-SOCIAL	1650	3222.4	0.0	0.03493	-0.02672 3269.0 5734.1
			Open 505 SHELOCTA 230 521 KEYSTONE	230			-0.36573	-0.14260 50.1 13206.5
			Open 473 BLAIRSVL 138 235253 01SOCIAL	138			-0.28310	-0.03353 100.2 3193.4
2	-6281.7	-3418.6	L: Interface 49 C-PJMCentral C:LKWANA-OXBW	1651	309.4	-0.0	0.04926	0.12974 198.6 -616.4
			Open 417 OXBOW 230 3070 LACKAWNA	230			-0.92585	0.08693 -119.7 -665.8
3	-6281.7	-3418.6	L: Interface 50 PJMCentral-C C:LKWANA-OXBW	1651	-309.4	0.0	-0.04926	-0.12974 -198.6 616.4
			Open 417 OXBOW 230 3070 LACKAWNA	230			0.92585	0.08693 -119.7 -665.8
4	-4999.1	-2802.8	L: Interface 23 QFW C:GEN:BRUCE 6	1564	1350.8	0.0	0.27020	0.27020 1095.5 -255.3
			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5	MW	dispatch	

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5	-4655.5	-2637.9	L: Interface	23	QFW			1257.9	-0.0	0.27020		0.27020	1095.5	-162.5	
			C:GEN:NANTCK	8				1565							
			Remove unit 1	from bus	158743	NANTICG8	22.0	490.0	MW	dispatch					
6	-4640.5	-2630.7	L: Interface	23	QFW			1253.9	-0.0	0.27020		0.27020	1095.5	-158.4	
			C:GEN:PICKER	6				1566							
			Remove unit 1	from bus	156683	PIC B G5	24.0	510.9	MW	dispatch					
7	-4398.5	-2514.5	L: Interface	23	QFW			1177.1	0.0	0.26762		0.27020	1095.5	-93.0	
			C:LAMBT7/LAMBG					1646							
			Open 160050	LAMB L4D	345	B\$1020	LAMBT	T7	1.00	T7		0.04391	-0.05881	-234.0	24.7
			Open 160064	LAMB T78	220	B\$1020	LAMBT	T7	1.00	T7		-0.17807	0.00000	0.3	0.3
			Set bus 160705	LAMBTNG4	24.0	generation	to	0.0	MW	dispatch					
8	-4398.2	-2514.4	L: Interface	23	QFW			1177.2	-0.0	0.26765		0.27020	1095.5	-93.0	
			C:LAMBT8/LAMBG					1647							
			Open 160050	LAMB L4D	345	B\$1021	LAMBT	T8	1.00	T8		0.04376	-0.05836	-232.1	24.6
			Open 160064	LAMB T78	220	B\$1021	LAMBT	T8	1.00	T8		-0.17796	0.00000	0.4	0.4
			Set bus 160705	LAMBTNG4	24.0	generation	to	0.0	MW	dispatch					
9	-4370.0	-2500.8	L: Interface	23	QFW			1109.1	-0.0	0.25379		0.27020	1095.5	-85.3	
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL					1650							
			Open 505	SHELOCTA	230	521	KEYSTONE	230	1		0.09424	-0.14260	50.1	673.3	
			Open 473	BLAIRSVL	138	235253	01SOCIAL	138	1		0.08864	-0.03353	100.2	246.7	
10	-4354.9	-2493.6	L: Interface	23	QFW			1165.5	-0.0	0.26762		0.27020	1095.5	-81.2	
			C:L4D+G3					1644							
			Open 160050	LAMB L4D	345	B\$1020	LAMBT	T7	1.00	T7		0.04391	-0.05881	-234.0	22.1
			Open 160064	LAMB T78	220	B\$1020	LAMBT	T7	1.00	T7		-0.17807	0.00000	0.3	0.3
			Open 160069	LAMBTPK2	220	160704	LAMBTNG3	24.0	T3		-0.18772	0.00000	62.1	62.1	
			Remove unit 1	from bus	160704	LAMBTNG3	24.0	490.0	MW	dispatch					
11	-4354.7	-2493.5	L: Interface	23	QFW			1165.5	0.0	0.26765		0.27020	1095.5	-81.2	
			C:L51D+G3					1645							
			Open 160050	LAMB L4D	345	B\$1021	LAMBT	T8	1.00	T8		0.04376	-0.05836	-232.1	22.1
			Open 160064	LAMB T78	220	B\$1021	LAMBT	T8	1.00	T8		-0.17796	0.00000	0.4	0.4
			Open 160069	LAMBTPK2	220	160704	LAMBTNG3	24.0	T3		-0.18765	0.00000	62.1	62.1	
			Remove unit 1	from bus	160704	LAMBTNG3	24.0	490.0	MW	dispatch					
12	-4199.5	-2419.0	L: Interface	23	QFW			1183.0	0.0	0.28171		0.27020	1095.5	-39.2	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1226						
			Open 147834	NIAG 345	345	149000	ROCH 345	345	1		0.20740	0.05550	422.3	189.2	
13	-4197.7	-2418.1	*L: Interface	23	QFW			1122.6	-0.0	0.26743		0.27020	1095.5	-38.8	
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200						
			Open 130753	FRASR345	345	130755	OAKDL345	345	1		-0.04694	0.05911	-577.5	-825.7	
1767	-2941.5	-1815.1	L: Interface	26	ONTARIO-MICH			749.2	-0.0	0.25472		0.27020	736.0	-58.8	
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL					1650							
			Open 505	SHELOCTA	230	521	KEYSTONE	230	1		0.08784	-0.14260	50.1	469.5	
			Open 473	BLAIRSVL	138	235253	01SOCIAL	138	1		0.08830	-0.03353	100.2	198.9	

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1768	-2910.2	-1800.1	L: Interface	26	ONTARIO-MICH			788.3	0.0	0.27089	0.27020	736.0	-50.3	
			C:BUS:N.S._99									1615		
			Open	137453	N.SCOT99	345	147831 GILB 345	345	1		0.00346	0.01302	-310.7	-348.6
			Open	137453	N.SCOT99	345	147833 MARCY T1	345	1		-0.04494	-0.01250	-916.1	-879.7
			Open	137453	N.SCOT99	345	137516 N.SCOT1	115	1		-0.00395	-0.00034	118.7	119.6
			Open	137451	LEEDS 3	345	137453 N.SCOT99	345	2		-0.01445	-0.00569	-858.5	-841.9
			Open	137452	N.SCOT77	345	137453 N.SCOT99	345	1		0.20105	0.00000	1.6	1.6
1769	-2899.6	-1795.0	L: Interface	26	ONTARIO-MICH			785.2	-0.0	0.27081	0.27020	736.0	-47.5	
			C:SIN:180									1672		
			Open	137453	N.SCOT99	345	147833 MARCY T1	345	1		-0.04888	-0.01250	-916.1	-879.8
			Open	137228	INGMS-CD	115	137886 INGHAM-E	115	1		0.03730	0.00000	119.9	119.9
			Open	137235	PORTER 1	115	147905 ILION	115	1		-0.00004	-0.00000	88.8	88.8
1770	-2899.6	-1795.0	L: Interface	26	ONTARIO-MICH			785.2	0.0	0.27081	0.27020	736.0	-47.5	
			C:SIN:170									1671		
			Open	137453	N.SCOT99	345	147833 MARCY T1	345	1		-0.04888	-0.01250	-916.1	-879.8
			Open	137228	INGMS-CD	115	137886 INGHAM-E	115	1		0.03730	0.00000	119.9	119.9
			Open	137235	PORTER 1	115	137246 VALLEY	115	1		-0.00005	-0.00000	74.8	74.9
1771	-2895.4	-1793.0	L: Interface	26	ONTARIO-MICH			762.5	0.0	0.26334	0.27020	736.0	-46.4	
			C:W44LC									1642		
			Open	160062	LONGWOOD	220	160074 COWALJ44	220	1		-0.16056	0.02285	189.2	123.0
			Open	160074	COWALJ44	220	160134 BUCHJW44	220	1		0.16303	-0.01953	334.4	391.0
			Open	160054	BUCHANAN	220	160134 BUCHJW44	220	1		-0.00035	0.01953	-256.1	-312.7
			Open	160055	CHATHAM	220	160074 COWALJ44	220	1		0.71981	0.00000	3.1	3.1
1772	-2895.2	-1792.9	L: Interface	26	ONTARIO-MICH			762.5	-0.0	0.26335	0.27020	736.0	-46.3	
			C:W45LC									1643		
			Open	160062	LONGWOOD	220	160075 COWALJ45	220	1		-0.16050	0.02282	189.2	123.1
			Open	160075	COWALJ45	220	160135 BUCHJW45	220	1		0.16297	-0.01952	334.3	390.8
			Open	160054	BUCHANAN	220	160135 BUCHJW45	220	1		-0.00035	0.01952	-262.5	-319.0
			Open	160055	CHATHAM	220	160075 COWALJ45	220	1		0.71977	0.00000	3.1	3.1
1773	-2894.2	-1792.4	L: Interface	26	ONTARIO-MICH			783.7	-0.0	0.27079	0.27020	736.0	-46.0	
			C:BUS:N.S._77									1614		
			Open	137452	N.SCOT77	345	137453 N.SCOT99	345	1		-0.01429	0.00588	-248.0	-265.0
			Open	137452	N.SCOT77	345	137516 N.SCOT1	115	1		-0.01757	-0.00030	111.8	112.7
			Open	137200	EDIC	345	137452 N.SCOT77	345	1		0.05764	0.01160	819.4	785.8
			Open	137450	ALPS345	345	137452 N.SCOT77	345	1		0.01190	-0.00024	-92.7	-92.0
			Open	137451	LEEDS 3	345	137452 N.SCOT77	345	1		0.18720	0.00000	-0.0	-0.0
1774	-2888.4	-1789.6	L: Interface	26	ONTARIO-MICH			782.3	0.0	0.27083	0.27020	736.0	-44.4	
			C:130750 COOPC345			345	147833 MARCY T1	345	1	196				
			Open	130750	COOPC345	345	147833 MARCY T1	345	1		-0.06260	-0.01007	-739.1	-710.1
1775	-2883.4	-1787.2	L: Interface	26	ONTARIO-MICH			778.9	0.0	0.27015	0.27020	736.0	-43.1	
			C:SIN:440									1683		
			Open	125001	ROCK TAV	345	126297 RAMAPO	345	1		0.03851	-0.00141	1114.8	1118.9

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1776	-2883.4	-1787.2	*L: Interface	26	ONTARIO-MICH				778.9	0.0	0.27015		0.27020	736.0	-43.1	
			C:125001	ROCK TAV	345	126297	RAMAPO	345	1	7						
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			0.03851	-0.00141	1114.8	1118.9
3505	-2326.3	-1519.7	L: Interface	50	PJMCentral-C				-282.0	-0.0	-0.12121		-0.12974	-198.6	103.2	
			C:130753	FRASR345	345	130755	OAKDL345	345	1	200						
			Open	130753	FRASR345	345	130755	OAKDL345	345	1			0.14438	0.05911	-577.5	-715.0
3506	-2326.3	-1519.7	L: Interface	49	C-PJMCentral				282.0	0.0	0.12121		0.12974	198.6	-103.2	
			C:130753	FRASR345	345	130755	OAKDL345	345	1	200						
			Open	130753	FRASR345	345	130755	OAKDL345	345	1			-0.14438	0.05911	-577.5	-715.0
3524	-2081.8	-1402.4	L: Interface	50	PJMCentral-C				-267.9	-0.0	-0.12866		-0.12974	-198.6	71.5	
			C:130750	COOPC345	345	130753	FRASR345	345	1	192						
			Open	130750	COOPC345	345	130753	FRASR345	345	1			0.06948	0.01556	-997.1	-1029.5
3525	-2081.8	-1402.4	L: Interface	49	C-PJMCentral				267.9	0.0	0.12866		0.12974	198.6	-71.5	
			C:130750	COOPC345	345	130753	FRASR345	345	1	192						
			Open	130750	COOPC345	345	130753	FRASR345	345	1			-0.06948	0.01556	-997.1	-1029.5
3532	-1958.2	-1343.0	L: Interface	49	C-PJMCentral				229.8	-0.0	0.11735		0.12974	198.6	-55.5	
			C:130755	OAKDL345	345	130757	WATRC345	345	1	206						
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			-0.11844	0.10463	-263.5	-468.4
3533	-1958.2	-1343.0	L: Interface	50	PJMCentral-C				-229.8	0.0	-0.11735		-0.12974	-198.6	55.5	
			C:130755	OAKDL345	345	130757	WATRC345	345	1	206						
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			0.11844	0.10463	-263.5	-468.4
3538	-1890.8	-1310.7	L: Interface	49	C-PJMCentral				245.2	0.0	0.12968		0.12974	198.6	-46.7	
			C:125001	ROCK TAV	345	126297	RAMAPO	345	1	7						
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			0.04182	-0.00141	1114.8	1117.5
3539	-1890.8	-1310.7	L: Interface	50	PJMCentral-C				-245.2	-0.0	-0.12968		-0.12974	-198.6	46.7	
			C:SIN:440												1683	
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			-0.04182	-0.00141	1114.8	1117.5
3540	-1890.8	-1310.7	L: Interface	50	PJMCentral-C				-245.2	-0.0	-0.12968		-0.12974	-198.6	46.7	
			C:125001	ROCK TAV	345	126297	RAMAPO	345	1	7						
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			-0.04182	-0.00141	1114.8	1117.5
3541	-1890.8	-1310.7	L: Interface	49	C-PJMCentral				245.2	0.0	0.12968		0.12974	198.6	-46.7	
			C:SIN:440												1683	
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			0.04182	-0.00141	1114.8	1117.5
3543	-1817.7	-1275.6	L: Interface	50	PJMCentral-C				-236.3	0.0	-0.12998		-0.12974	-198.6	37.2	
			C:BUS:N.S._99												1615	
			Open	137453	N.SCOT99	345	147831	GILB	345	1			0.01348	0.01302	-310.7	-334.4
			Open	137453	N.SCOT99	345	147833	MARCY T1	345	1			0.02908	-0.01250	-916.1	-893.4
			Open	137453	N.SCOT99	345	137516	N.SCOT1	115	1			0.00172	-0.00034	118.7	119.3
			Open	137451	LEEDS 3	345	137453	N.SCOT99	345	2			0.00812	-0.00569	-858.5	-848.1
			Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1			-0.04931	0.00000	1.6	1.6
3544	-1817.7	-1275.6	L: Interface	49	C-PJMCentral				236.3	-0.0	0.12998		0.12974	198.6	-37.2	
			C:BUS:N.S._99												1615	

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			Open 137453 N.SCOT99	345	147831	GILB	345	345	1		-0.01348	0.01302	-310.7	-334.4
			Open 137453 N.SCOT99	345	147833	MARCY	T1	345	1		-0.02908	-0.01250	-916.1	-893.4
			Open 137453 N.SCOT99	345	137516	N.SCOT1		115	1		-0.00172	-0.00034	118.7	119.3
			Open 137451 LEEDS 3	345	137453	N.SCOT99		345	2		-0.00812	-0.00569	-858.5	-848.1
			Open 137452 N.SCOT77	345	137453	N.SCOT99		345	1		0.04931	0.00000	1.6	1.6
3545	-1812.6	-1273.2	L: Interface	49	C-PJMCentral			235.2	-0.0	0.12974		0.12974	198.6	-36.6
			C:GEN:SALEM					1567						
			Remove unit 1	from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch				
3546	-1812.6	-1273.2	L: Interface	50	PJMCentral-C			-235.2	0.0	-0.12974		-0.12974	-198.6	36.6
			C:GEN:SALEM					1567						
			Remove unit 1	from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch				
3547	-1803.2	-1268.6	L: Interface	50	PJMCentral-C			-233.8	-0.0	-0.12965		-0.12974	-198.6	35.4
			C:SER:CMT34&MTR34					1593						
			Open 130750 COOPC345	345	146754	MDTN	TAP	345	1		-0.04979	-0.00281	874.1	879.1
			Open 125001 ROCK TAV	345	146754	MDTN	TAP	345	1		-0.01956	0.00245	-425.4	-429.8
3548	-1803.2	-1268.6	L: Interface	49	C-PJMCentral			233.8	0.0	0.12965		0.12974	198.6	-35.4
			C:SER:CMT34&MTR34					1593						
			Open 130750 COOPC345	345	146754	MDTN	TAP	345	1		0.04979	-0.00281	874.1	879.1
			Open 125001 ROCK TAV	345	146754	MDTN	TAP	345	1		0.01956	0.00245	-425.4	-429.8
3549	-1799.8	-1267.0	*L: Interface	49	C-PJMCentral			233.5	0.0	0.12974		0.12974	198.6	-34.9
			C:GEN:MARTN CK					1569						
			Remove unit 4	from bus	3151	MTN CK 4	24.0	704.3	MW	dispatch				
3550	-1799.8	-1267.0	*L: Interface	50	PJMCentral-C			-233.5	-0.0	-0.12974		-0.12974	-198.6	34.9
			C:GEN:MARTN CK					1569						
			Remove unit 4	from bus	3151	MTN CK 4	24.0	704.3	MW	dispatch				
6567	-1524.9	-1135.0	L: Interface	52	PJMEast-G			-76.3	0.0	-0.05001		-0.00000	0.4	0.4
			C:ETHS/NWES/LLGD					1648						
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1		-0.37609	0.07791	117.6	-1.2
			Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		-0.38778	0.02981	43.0	-2.5
			Open 130807 GOUDY115	115	200680	LAUREL L		115	1		-0.41556	0.02202	38.0	4.4
6568	-1524.9	-1135.0	L: Interface	51	G-PJMEast			76.3	-0.0	0.05001		0.00000	-0.4	-0.4
			C:ETHS/NWES/LLGD					1648						
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1		0.37609	0.07791	117.6	-1.2
			Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		0.38778	0.02981	43.0	-2.5
			Open 130807 GOUDY115	115	200680	LAUREL L		115	1		0.41556	0.02202	38.0	4.4
6911	-1478.2	-1112.6	L: Interface	51	G-PJMEast			49.0	-0.0	0.03315		0.00000	-0.4	-0.4
			C:SER:ETHS/NWES					1606						
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1		0.30717	0.07791	117.6	2.5
			Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		0.30905	0.02981	43.0	-1.1
6912	-1478.2	-1112.6	L: Interface	52	PJMEast-G			-49.0	0.0	-0.03315		-0.00000	0.4	0.4
			C:SER:ETHS/NWES					1606						
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1		-0.30717	0.07791	117.6	2.5

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			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.30905	0.02981	43.0	-1.1
6957	-1451.1	-1099.6	L: Interface 52 PJMEast-G					-48.0	-0.0	-0.03306	-0.00000	0.4	0.4
			C:SER:C398/NWES				1605						
			Open 409 GROVER	230	200675 E.TWANDA	230	1			-0.02734	-0.00355	-15.6	-10.4
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.30865	0.07791	117.6	4.6
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			-0.01228	-0.00092	-52.1	-50.8
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.30588	0.02981	43.0	-0.3
6958	-1451.1	-1099.6	L: Interface 51 G-PJMEast					48.0	0.0	0.03306	0.00000	-0.4	-0.4
			C:SER:C398/NWES				1605						
			Open 409 GROVER	230	200675 E.TWANDA	230	1			0.02734	-0.00355	-15.6	-10.4
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.30865	0.07791	117.6	4.6
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			0.01228	-0.00092	-52.1	-50.8
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.30588	0.02981	43.0	-0.3
7067	-465.5	-626.4	L: Interface 62 C2PJM					70.0	-0.0	0.15031	0.24974	-345.0	-461.2
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.85505	0.12000	-543.5	-599.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.20645	-0.01537	257.6	264.7
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.14892	0.00000	22.4	22.4
7069	-465.5	-626.4	L: Interface 63 PJMW2C					-70.0	0.0	-0.15031	-0.24974	345.0	461.2
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.85505	0.12000	-543.5	-599.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.20645	-0.01537	257.6	264.7
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.14892	0.00000	22.4	22.4
7070	-438.4	-613.4	L: Interface 63 PJMW2C					-69.4	0.0	-0.15827	-0.24974	345.0	454.4
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.76229	0.12000	-543.5	-596.1
7071	-438.4	-613.4	L: Interface 62 C2PJM					69.4	-0.0	0.15827	0.24974	-345.0	-454.4
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.76229	0.12000	-543.5	-596.1
7074	-419.6	-604.4	L: Interface 63 PJMW2C					-61.6	0.0	-0.14687	-0.24974	345.0	449.7
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.77441	0.12000	-543.5	-593.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.33367	0.02981	43.0	30.5
7075	-419.6	-604.4	L: Interface 62 C2PJM					61.6	-0.0	0.14687	0.24974	-345.0	-449.7
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.77441	0.12000	-543.5	-593.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.33367	0.02981	43.0	30.5
7078	-402.3	-596.1	L: Interface 63 PJMW2C					-66.5	0.0	-0.16522	-0.24974	345.0	445.4
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.76153	0.12000	-543.5	-591.8
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.06952	0.09866	-35.9	-75.6
7079	-402.3	-596.1	L: Interface 62 C2PJM					66.5	-0.0	0.16522	0.24974	-345.0	-445.4

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				C:SER:HC-WC_30&W-F_171				1601												
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.76153	0.12000	-543.5	-591.8				
				Open 135277 FALCONER	115	200579	WARREN	115	1				0.06952	0.09866	-35.9	-75.6				
7082	-210.4	-504.0	L: Interface	52 PJMEast-G									-7.2	-0.0	-0.03433	-0.00000	0.4	0.4		
				C:SER:EESR/NWES					1608											
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1								-0.14130	0.21329	11.3	-33.6
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1								-0.14072	0.02981	43.0	36.7
7083	-210.4	-504.0	L: Interface	51 G-PJMEast									7.2	0.0	0.03433	0.00000	-0.4	-0.4		
				C:SER:EESR/NWES					1608											
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1								0.14130	0.21329	11.3	-33.6
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1								0.14072	0.02981	43.0	36.7
7084	-35.6	-420.1	L: Interface	52 PJMEast-G									-2.0	0.0	-0.05692	-0.00000	0.4	0.4		
				C:SER:EESR/WF/NWES					1611											
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1								-0.17354	0.21329	11.3	3.7
				Open 135277 FALCONER	115	200579	WARREN	115	1								-0.15831	0.09866	-35.9	-39.4
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1								-0.14357	0.02981	43.0	41.9
7085	-35.6	-420.1	L: Interface	51 G-PJMEast									2.0	-0.0	0.05692	0.00000	-0.4	-0.4		
				C:SER:EESR/WF/NWES					1611											
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1								0.17354	0.21329	11.3	3.7
				Open 135277 FALCONER	115	200579	WARREN	115	1								0.15831	0.09866	-35.9	-39.4
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1								0.14357	0.02981	43.0	41.9
7086	78.4	-365.3	L: Interface	51 G-PJMEast									-4.1	-0.0	0.05165	0.00000	-0.4	-0.4		
				C:SER:EESR/WRFL					1609											
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1								0.17056	0.21329	11.3	28.0
				Open 135277 FALCONER	115	200579	WARREN	115	1								0.15483	0.09866	-35.9	-28.2
7087	78.4	-365.3	L: Interface	52 PJMEast-G									4.1	0.0	-0.05165	-0.00000	0.4	0.4		
				C:SER:EESR/WRFL					1609											
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1								-0.17056	0.21329	11.3	28.0
				Open 135277 FALCONER	115	200579	WARREN	115	1								-0.15483	0.09866	-35.9	-28.2
7088	164.2	-324.2	L: Interface	52 PJMEast-G									8.5	-0.0	-0.05168	-0.00000	0.4	0.4		
				C:SER:ESEE/WRFL					1610											
				Open 270 ERIE SO.	230	531	ERIE SE	230	1								0.00053	-0.15991	16.5	-9.8
				Open 531 ERIE SE	230	200654	ERIE E	230	1								0.17025	-0.21329	14.7	-20.4
				Open 135277 FALCONER	115	200579	WARREN	115	1								-0.15493	0.09866	-35.9	-19.7
7089	164.2	-324.2	L: Interface	51 G-PJMEast									-8.5	0.0	0.05168	0.00000	-0.4	-0.4		
				C:SER:ESEE/WRFL					1610											
				Open 270 ERIE SO.	230	531	ERIE SE	230	1								-0.00053	-0.15991	16.5	-9.8
				Open 531 ERIE SE	230	200654	ERIE E	230	1								-0.17025	-0.21329	14.7	-20.4
				Open 135277 FALCONER	115	200579	WARREN	115	1								0.15493	0.09866	-35.9	-19.7
7090	855.9	7.9	L: Interface	62 C2PJM									-201.1	0.0	0.23502	0.24974	-345.0	-131.2		
				C:130753 FRASR345	345	130755	OAKDL345	345	1	200										
				Open 130753 FRASR345	345	130755	OAKDL345	345	1								-0.24901	0.05911	-577.5	-526.9

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7091	855.9	7.9	L: Interface 63 PJMW2C		201.1	-0.0	-0.23502		-0.24974	345.0	131.2
			C:130753 FRASR345 345 130755 OAKDL345 345 1 200								
			Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.24901	0.05911	-577.5	-526.9
7092	948.7	52.4	L: Interface 63 PJMW2C		235.3	-0.0	-0.24803		-0.24974	345.0	108.0
			C:130750 COOPC345 345 130753 FRASR345 345 1 192								
			Open 130750 COOPC345 345 130753 FRASR345 345 1					0.10997	0.01556	-997.1	-982.3
7093	948.7	52.4	L: Interface 62 C2PJM		-235.3	0.0	0.24803		0.24974	-345.0	-108.0
			C:130750 COOPC345 345 130753 FRASR345 345 1 192								
			Open 130750 COOPC345 345 130753 FRASR345 345 1					-0.10997	0.01556	-997.1	-982.3
7094	1104.8	127.4	L: Interface 63 PJMW2C		275.8	0.0	-0.24965		-0.24974	345.0	69.0
			C:SIN:440 1683								
			Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					-0.06202	-0.00141	1114.8	1113.3
7095	1104.8	127.4	L: Interface 62 C2PJM		-275.8	-0.0	0.24965		0.24974	-345.0	-69.0
			C:125001 ROCK TAV 345 126297 RAMAPO 345 1 7								
			Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					0.06202	-0.00141	1114.8	1113.3
7096	1104.8	127.4	L: Interface 63 PJMW2C		275.8	0.0	-0.24965		-0.24974	345.0	69.0
			C:125001 ROCK TAV 345 126297 RAMAPO 345 1 7								
			Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					-0.06202	-0.00141	1114.8	1113.3
7097	1104.8	127.4	L: Interface 62 C2PJM		-275.8	-0.0	0.24965		0.24974	-345.0	-69.0
			C:SIN:440 1683								
			Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					0.06202	-0.00141	1114.8	1113.3
7098	1161.7	154.7	L: Interface 63 PJMW2C		348.4	0.0	-0.29991		-0.24974	345.0	54.8
			C:SER:EESR/WRFL 1609								
			Open 135251 S RIPLEY 230 200654 ERIE E 230 1					-0.16670	0.21329	11.3	259.1
			Open 135277 FALCONER 115 200579 WARREN 115 1					-0.14807	0.09866	-35.9	78.7
7099	1161.7	154.7	L: Interface 62 C2PJM		-348.4	-0.0	0.29991		0.24974	-345.0	-54.8
			C:SER:EESR/WRFL 1609								
			Open 135251 S RIPLEY 230 200654 ERIE E 230 1					0.16670	0.21329	11.3	259.1
			Open 135277 FALCONER 115 200579 WARREN 115 1					0.14807	0.09866	-35.9	78.7
7100	1169.7	158.5	*L: Interface 62 C2PJM		-292.0	0.0	0.24960		0.24974	-345.0	-52.8
			C:SER:CMT34&MTR34 1593								
			Open 130750 COOPC345 345 146754 MDTN TAP 345 1					0.07475	-0.00281	874.1	870.8
			Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					0.02900	0.00245	-425.4	-422.5
7101	1169.7	158.5	*L: Interface 63 PJMW2C		292.0	-0.0	-0.24960		-0.24974	345.0	52.8
			C:SER:CMT34&MTR34 1593								
			Open 130750 COOPC345 345 146754 MDTN TAP 345 1					-0.07475	-0.00281	874.1	870.8
			Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					-0.02900	0.00245	-425.4	-422.5
10222	1390.3	264.4	L: Interface 52 PJMEast-G		45.9	0.0	-0.03304		-0.00000	0.4	0.4
			C:LKWANA-OXBW 1651								
			Open 417 OXBOW 230 3070 LACKAWNA 230 1					-0.38004	0.08693	-119.7	1.1
10223	1390.3	264.4	L: Interface 51 G-PJMEast		-45.9	-0.0	0.03304		0.00000	-0.4	-0.4
			C:LKWANA-OXBW 1651								

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			Open	417	OXBOW	230	3070	LACKAWNA	230	1				0.38004	0.08693	-119.7	1.1
10556	1633.6	381.2	L: Interface	52	PJMEast-G						59.4	-0.0	-0.03637		-0.00000	0.4	0.4
			C:SER:HC-SR_37&W-F_171							1600							
			Open	135398	SW345	345	200769	HOMER CY	345	1				-0.14426	0.16810	-378.4	-103.8
			Open	135277	FALCONER	115	200579	WARREN	115	1				-0.12286	0.09866	-35.9	125.3
10557	1633.6	381.2	L: Interface	51	G-PJMEast						-59.4	0.0	0.03637		0.00000	-0.4	-0.4
			C:SER:HC-SR_37&W-F_171							1600							
			Open	135398	SW345	345	200769	HOMER CY	345	1				0.14426	0.16810	-378.4	-103.8
			Open	135277	FALCONER	115	200579	WARREN	115	1				0.12286	0.09866	-35.9	125.3
10580	1760.2	442.0	L: 135461	PACK(S)W	115	147851	NIAG115W	115	3		-253.0	-328.0	-0.04260		-0.03012	-178.9	-231.9
			C:135461	PACK(S)W	115	147851	NIAG115W	115	1	615							
			Open	135461	PACK(S)W	115	147851	NIAG115W	115	1				0.46443	-0.02686	-159.6	-206.8
10581	1760.2	442.0	L: 135461	PACK(S)W	115	147851	NIAG115W	115	3		-253.0	-328.0	-0.04260		-0.03012	-178.9	-231.9
			C:135461	PACK(S)W	115	147851	NIAG115W	115	2	616							
			Open	135461	PACK(S)W	115	147851	NIAG115W	115	2				0.46443	-0.02686	-159.6	-206.8
10604	1846.8	483.6	L: 130814	HILSD115	115	131162	CHEMU115	115	1		105.5	179.0	0.03983		0.01560	68.3	97.2
			C:ETHS/LLGD							1649							
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1				0.27902	0.07791	117.6	261.5
			Open	130807	GOUDY115	115	200680	LAUREL L	115	1				0.11275	0.02202	38.0	78.6
10609	1925.6	521.4	L: 130836	N.WAV115	115	131162	CHEMU115	115	1		-102.3	-179.0	-0.03983		-0.01560	-65.2	-95.3
			C:ETHS/LLGD							1649							
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1				-0.27902	0.07791	117.6	267.7
			Open	130807	GOUDY115	115	200680	LAUREL L	115	1				-0.11275	0.02202	38.0	80.4
10612	1970.2	542.8	L: 135250	DUNKIRK	230	135391	DUNKGEN4	13.8	1		-178.0	-249.0	-0.03603				
			Base Case														
10613	2007.8	560.8	L: 135250	DUNKIRK	230	135390	DUNKGEN3	13.8	1		-177.0	-249.0	-0.03584				
			Base Case														
10614	2051.3	581.8	L: 135414	HUNTLEY2	230	135800	HNTLY67G	13.8	1		-175.9	-249.0	-0.03562				
			Base Case														
10619	2125.2	617.2	L: 130830	MONTR115	115	130845	RIDGT115	115	1		68.5	133.0	0.03033		0.01952	48.5	90.0
			C:130830	MONTR115	115	130844	RIDGR115	115	1	333							
			Open	130830	MONTR115	115	130844	RIDGR115	115	1				0.57182	0.01891	35.0	75.2
10620	2177.4	642.3	L: 130814	HILSD115	115	131162	CHEMU115	115	1		99.7	179.0	0.03640		0.01560	68.3	102.3
			C:130763	HILSD230	230	200675	E.TWANDA	230	1	1375							
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1				0.26691	0.07791	117.6	287.3
10621	2193.3	649.9	L: 135277	FALCONER	115	200579	WARREN	115	1		-32.8	280.0	0.14263		0.09866	-35.9	180.5
			C:SER:EESR/NWES							1608							
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1				0.20363	0.21329	11.3	479.1
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1				0.01801	0.02981	43.0	108.4
10624	2208.0	657.0	L: 135277	FALCONER	115	200579	WARREN	115	1		-33.6	280.0	0.14204		0.09866	-35.9	181.9
			C:135251	S RIPLEY	230	200654	ERIE E	230	1	1378							
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1				0.20334	0.21329	11.3	482.2

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10625	2237.4	671.1	L: 135414 HUNTLEY2	230	135801 HNTLY68G	13.8	1	-171.4	-249.0	-0.03469			
			Base Case										
10626	2260.9	682.4	L: 135461 PACK(S)W	115	147851 NIAG115W	115	2	-237.6	-328.0	-0.04000	-0.02686	-159.6	-220.3
			C:135461 PACK(S)W	115	147851 NIAG115W	115	3 617						
			Open 135461 PACK(S)W	115	147851 NIAG115W	115	3				0.43605	-0.03012	-178.9 -247.0
10627	2260.9	682.4	L: 135461 PACK(S)W	115	147851 NIAG115W	115	1	-237.6	-328.0	-0.04000	-0.02686	-159.6	-220.3
			C:135461 PACK(S)W	115	147851 NIAG115W	115	3 617						
			Open 135461 PACK(S)W	115	147851 NIAG115W	115	3				0.43605	-0.03012	-178.9 -247.0
10628	2263.6	683.7	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	-96.6	-179.0	-0.03640	-0.01560	-65.2	-100.5
			C:130763 HILSD230	230	200675 E.TWANDA	230	1 1375						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				-0.26691	0.07791	117.6 294.0
10629	2286.5	694.7	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	11.3	499.0	0.21329			
			Base Case										
10630	2293.3	697.9	L: 135461 PACK(S)W	115	147851 NIAG115W	115	3	-178.9	-248.0	-0.03012			
			Base Case										
10631	2312.7	707.2	L: 135460 PACK(N)E	115	147850 NIAG115E	115	2	-218.9	-328.0	-0.04719	-0.02944	-136.5	-204.6
			C:135460 PACK(N)E	115	147850 NIAG115E	115	1 610						
			Open 135460 PACK(N)E	115	147850 NIAG115E	115	1				0.63484	-0.02796	-129.7 -194.4
10632	2326.9	714.1	L: 130853 A.LUD TP	115	131611 HARIS115	115	1	-174.8	-275.0	-0.04306	-0.02239	23.6	-28.5
			C:130815 HINMN115	115	131611 HARIS115	115	1 312						
			Open 130815 HINMN115	115	131611 HARIS115	115	1				1.00000	-0.02067	-198.4 -246.5
10633	2370.1	734.8	L: 135277 FALCONER	115	200579 WARREN	115	1	-49.1	280.0	0.13886	0.09866	-35.9	197.9
			C:135250 DUNKIRK	230	135251 S RIPLEY	230	1 422						
			Open 135250 DUNKIRK	230	135251 S RIPLEY	230	1				0.20334	0.19767	-64.9 403.6
10634	2443.9	770.2	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-114.5	637.0	0.30749	0.21329	11.3	532.6
			C:SER:HC-SR_37&W-F_171				1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1				0.28847	0.16810	-378.4 32.4
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.46324	0.09866	-35.9 205.2
10635	2446.3	771.3	L: 135460 PACK(N)E	115	147850 NIAG115E	115	1	-214.7	-328.0	-0.04630	-0.02796	-129.7	-198.1
			C:135460 PACK(N)E	115	147850 NIAG115E	115	2 611						
			Open 135460 PACK(N)E	115	147850 NIAG115E	115	2				0.62283	-0.02944	-136.5 -208.5
10636	2489.3	792.0	L: 130815 HINMN115	115	131611 HARIS115	115	1	-222.3	-306.0	-0.03364	-0.02067	-198.4	-249.8
			C:130766 ROBIN230	230	130767 STOLE230	230	1 224						
			Open 130766 ROBIN230	230	130767 STOLE230	230	1				-0.26115	0.04964	91.5 215.0
10637	2494.9	794.7	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	195.5	280.0	0.03389	0.02054	170.9	222.1
			C:130766 ROBIN230	230	130767 STOLE230	230	1 224						
			Open 130766 ROBIN230	230	130767 STOLE230	230	1				0.26884	0.04964	91.5 215.3
10638	2538.2	815.5	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-2.8	637.0	0.25208	0.21329	11.3	552.7
			C:135277 FALCONER	115	200579 WARREN	115	1 1379						
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.39308	0.09866	-35.9 214.5
10643	2553.3	822.7	L: 130846 ROBIN115	115	130853 A.LUD TP	115	1	-165.1	-275.0	-0.04306	-0.02239	33.3	-23.8
			C:130815 HINMN115	115	131611 HARIS115	115	1 312						

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			Open 130815 HINMN115	115	131611 HARRIS115	115	1		1.00000	-0.02067	-198.4	-251.2	
10644	2593.7	842.1	L: 135277 FALCONER	115	200579 WARREN	115	1	-35.9	220.0	0.09866			
			Base Case										
10645	2614.8	852.2	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-49.3	637.0	0.26248	0.21329	11.3	569.0
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.08545	0.12000	-543.5	-229.8
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.39454	0.09866	-35.9	222.1
10646	2618.9	854.2	L: 135451 PARADISE	115	135497 ZRMN-133	115	1	-86.1	-168.0	-0.03127			
			Base Case										
10647	2647.5	868.0	L: 135451 PARADISE	115	135497 ZRMN-133	115	1	-104.4	-206.0	-0.03837	-0.03127	-86.1	-168.9
			C:135451 PARADISE	115	135498 ZRMN-130	115	1	589					
			Open 135451 PARADISE	115	135498 ZRMN-130	115	1			0.28696	-0.02476	-63.7	-129.3
10648	2695.2	890.8	L: 135461 PACK(S)W	115	147851 NIAG115W	115	1	-225.6	-328.0	-0.03798	-0.02686	-159.6	-231.9
			C:135461 PACK(S)W	115	147851 NIAG115W	115	2	616					
			Open 135461 PACK(S)W	115	147851 NIAG115W	115	2			0.41411	-0.02686	-159.6	-231.9
10649	2695.2	890.8	L: 135461 PACK(S)W	115	147851 NIAG115W	115	2	-225.6	-328.0	-0.03798	-0.02686	-159.6	-231.9
			C:135461 PACK(S)W	115	147851 NIAG115W	115	1	615					
			Open 135461 PACK(S)W	115	147851 NIAG115W	115	1			0.41411	-0.02686	-159.6	-231.9
10650	2703.2	894.7	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	42.6	637.0	0.21987	0.21329	11.3	587.9
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221					
			Open 130764 MEYER230	230	131122 WTHRS230	230	1			-0.13140	-0.05007	-238.5	-373.9
10651	2709.1	897.5	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	41.3	637.0	0.21987	0.21329	11.3	589.1
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228					
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1			0.13140	0.05007	228.6	364.2
10652	2715.3	900.5	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	40.0	637.0	0.21987	0.21329	11.3	590.5
			C:130767 STOLE230	230	130770 SHLDN230	230	1	226					
			Open 130767 STOLE230	230	130770 SHLDN230	230	1			0.13140	0.05007	218.2	354.2
10653	2742.2	913.4	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	297.6	528.0	0.08401	0.07048	233.6	426.8
			C:147834 NIAG 345	345	147842 NIAGAR2W	230	1	1225					
			Open 147834 NIAG 345	345	147842 NIAGAR2W	230	1			-0.17809	-0.07596	-359.8	-568.1
10654	2759.1	921.5	L: 135451 PARADISE	115	135497 ZRMN-133	115	1	-100.8	-206.0	-0.03814	-0.03127	-86.1	-172.4
			C:135460 PACK(N)E	115	135461 PACK(S)W	115	1	608					
			Open 135460 PACK(N)E	115	135461 PACK(S)W	115	1			0.24398	-0.02816	-60.1	-137.8
10655	2759.5	921.7	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	24.5	637.0	0.22195	0.21329	11.3	599.9
			C:ETHS/NWES/LLGD				1648						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.06808	0.07791	117.6	332.6
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.06848	0.02981	43.0	125.2
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.05961	0.02202	38.0	98.7
10656	2763.7	923.7	L: 135275 EDNK-162	115	135286 MOON-162	115	1	15.3	108.0	0.03354	0.01963	14.4	68.6
			C:SER:EESR/NWES				1608						
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			0.06466	0.21329	11.3	600.8
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.00402	0.02981	43.0	125.4

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10657	2766.8	925.2	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-64.9	482.0	0.19767				
			Base Case											
10658	2779.9	931.5	L: 135275 EDNK-162	115	135286 MOON-162	115	1	15.1	108.0	0.03341	0.01963	14.4	69.0	
			C:135251 S RIPLEY	230	200654 ERIE E	230	1 1378							
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			0.06460	0.21329	11.3	604.2	
10659	2805.7	943.9	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	29.0	637.0	0.21671	0.21329	11.3	609.7	
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205							
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03369	0.10129	524.7	808.9	
10660	2806.0	944.1	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	20.9	637.0	0.21957	0.21329	11.3	609.8	
			C:SER:C398/NWES				1605							
			Open 409 GROVER	230	200675 E.TWANDA	230	1			-0.01506	-0.00355	-15.6	-25.5	
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.05790	0.07791	117.6	336.3	
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			-0.00101	-0.00092	-52.1	-54.7	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.05745	0.02981	43.0	126.6	
10661	2807.8	944.9	*L: 135251 S RIPLEY	230	200654 ERIE E	230	1	20.6	637.0	0.21953	0.21329	11.3	610.2	
			C:SER:ETHS/NWES				1606							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.05819	0.07791	117.6	336.4	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.05719	0.02981	43.0	126.7	
10669	2835.9	958.4	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-190.7	637.0	0.29187	0.19767	-64.9	495.7	
			C:SER:HC-SR_37&W-F_171				1600							
			Open 135398 SW345	345	200769 HOMER CY	345	1			0.28847	0.16810	-378.4	98.3	
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.46324	0.09866	-35.9	243.9	
10693	2867.9	973.8	L: 130795 DEPEW115	115	135439 TUNGSTEN	115	1	-20.1	-120.0	-0.03485	-0.01426	-7.3	-48.2	
			C:135437 CLSP-181	115	135495 YNG-181	115	1 556							
			Open 135437 CLSP-181	115	135495 YNG-181	115	1			0.55616	-0.03702	-23.0	-129.2	
10705	2877.7	978.5	L: 135274 EDNK-161	115	135277 FALCONER	115	1	10.4	108.0	0.03390	0.01983	9.5	66.6	
			C:SER:EESR/NWES				1608							
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			0.06538	0.21329	11.3	625.1	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.00406	0.02981	43.0	128.8	
10719	2894.4	986.5	L: 135274 EDNK-161	115	135277 FALCONER	115	1	10.3	108.0	0.03376	0.01983	9.5	66.9	
			C:135251 S RIPLEY	230	200654 ERIE E	230	1 1378							
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			0.06532	0.21329	11.3	628.7	
10733	2902.4	990.3	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	281.0	528.0	0.08509	0.07048	233.6	438.1	
			C:135415 PACKARD2	230	157062 BCK2BP76	230	1 1381							
			Open 135415 PACKARD2	230	157062 BCK2BP76	230	1			0.29388	0.04972	161.5	305.9	
10735	2903.1	990.7	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	231.8	528.0	0.10201	0.07048	233.6	438.2	
			C:SER:EESR/WF/NWES				1611							
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			0.10464	0.21329	11.3	630.5	
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.09085	0.09866	-35.9	250.5	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.00848	0.02981	43.0	129.5	
10739	2906.3	992.2	L: 135451 PARADISE	115	135497 ZRMN-133	115	1	-102.9	-206.0	-0.03549	-0.03127	-86.1	-177.0	
			C:135451 PARADISE	115	135460 PACK(N)E	115	1 585							

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			Open 135451 PARADISE	115	135460	PACK(N)E	115	1				0.17361	-0.02434	-96.4	-167.1
10781	2915.5	996.6	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	231.5	528.0	0.10170		0.07048	233.6	439.0
			C:SER:EESR/WRFL												1609
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				0.10446	0.21329	11.3	633.2
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.09064	0.09866	-35.9	251.8
10795	2918.3	997.9	L: 135451 PARADISE	115	135497	ZRMN-133	115	1	-114.2	-206.0	-0.03144		-0.03127	-86.1	-177.4
			C:135487 S78-133	115	135497	ZRMN-133	115	1	640						
			Open 135487 S78-133	115	135497	ZRMN-133	115	1				0.82700	-0.00021	-34.0	-34.6
12275	2942.5	1009.6	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	228.8	528.0	0.10169		0.07048	233.6	440.9
			C:SER:ESEE/WRFL												1610
			Open 270 ERIE SO.	230	531	ERIE SE	230	1				0.00022	-0.15991	16.5	-454.0
			Open 531 ERIE SE	230	200654	ERIE E	230	1				-0.10459	-0.21329	14.7	-613.0
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.09060	0.09866	-35.9	254.4
12348	2959.7	1017.8	L: 135451 PARADISE	115	135497	ZRMN-133	115	1	-103.0	-206.0	-0.03481		-0.03127	-86.1	-178.7
			C:135460 PACK(N)E	115	135538	LONG-182	115	1	609						
			Open 135460 PACK(N)E	115	135538	LONG-182	115	1				-0.16937	0.02090	99.6	161.4
12353	2961.5	1018.7	L: 135451 PARADISE	115	135497	ZRMN-133	115	1	-102.9	-206.0	-0.03481		-0.03127	-86.1	-178.7
			C:135449 GR.I-182	115	135538	LONG-182	115	1	570						
			Open 135449 GR.I-182	115	135538	LONG-182	115	1				0.16937	-0.02090	-99.2	-161.1
12361	2967.1	1021.4	L: 130795 DEPEW115	115	135439	TUNGSTEN	115	1	-24.6	-120.0	-0.03217		-0.01426	-7.3	-49.6
			C:135442 ECWA-181	115	135495	YNG-181	115	1	561						
			Open 135442 ECWA-181	115	135495	YNG-181	115	1				-0.48644	0.03681	35.6	144.8
12376	2988.2	1031.5	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	270.2	528.0	0.08628		0.07048	233.6	444.2
			C:147834 NIAG 345	345	157050	BECK A	345	1	1385						
			Open 147834 NIAG 345	345	157050	BECK A	345	1				0.21066	0.07500	173.9	398.0
12377	2988.4	1031.6	L: 147842 NIAGAR2W	230	157063	BCK2PA27	230	1	270.2	528.0	0.08628		0.07048	233.6	444.2
			C:147834 NIAG 345	345	157051	BECK B	345	1	1386						
			Open 147834 NIAG 345	345	157051	BECK B	345	1				0.21066	0.07500	173.8	397.9

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 17 2009 15:08
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
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 Exclud.File STARS.exc

Study transfer. From PENELEC_EXPORT To A_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 26946 violations

Interface-1 Interface 46 PJMWest-A Init.Flow= 403.00 TDF= 0.4743

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating	LODF	Init Final
1	-164775.	-77753.1	L: Interface 21 PJM-WEST	5137.9	-0.0	0.03118	0.03675	5112.7 -942.6
			C:130764 MEYER230 230 131122 WTHRS230 230 1 221					
			Open 130764 MEYER230 230 131122 WTHRS230 230 1				-0.10563	0.05271 -238.5 -8923.2
2	-164741.	-77737.1	L: Interface 21 PJM-WEST	5136.8	-0.0	0.03118	0.03675	5112.7 -941.3
			C:130770 SHLDN230 230 131122 WTHRS230 230 1 228					
			Open 130770 SHLDN230 230 131122 WTHRS230 230 1				0.10563	-0.05271 228.6 8911.5
3	-164706.	-77720.5	L: Interface 21 PJM-WEST	5135.7	0.0	0.03118	0.03675	5112.7 -940.1
			C:130767 STOLE230 230 130770 SHLDN230 230 1 226					
			Open 130767 STOLE230 230 130770 SHLDN230 230 1				0.10563	-0.05271 218.2 8899.3
4	-162982.	-76902.9	L: Interface 21 PJM-WEST	5143.4	0.0	0.03156	0.03675	5112.7 -876.7
			C:GEN:KINTIGH-New 1777					
			Open 130754 KINTI345 345 130873 KINTIG24 24.0 1				0.00000	0.04880 -288.5 -8241.6
			Open 130754 KINTI345 345 130873 KINTIG24 24.0 2				-0.05311	0.09773 -577.7-16506.5

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5	-161179.-76047.6	L: Interface	21	PJM-WEST						5043.3	0.0	0.03129		0.03675	5112.7	-810.4
		C:MULT04													1656	
		Open	9	JUNIATA	500	21	SUNBURY	500	1				-0.13383	0.04007	524.7	-5933.9
		Open	21	SUNBURY	500	3084	SUNBURY	230	24				-0.00698	0.01372	-121.6	-2333.8
6	-159675.-75334.3	L: Interface	21	PJM-WEST						5140.8	0.0	0.03220		0.03675	5112.7	-755.2
		C:130754 KINTI345	345	149000	ROCH	345	345	1	205							
		Open	130754	KINTI345	345	149000	ROCH	345	345	1			0.05361	-0.08493	524.7	14086.4
7	-158075.-74575.4	L: Interface	21	PJM-WEST						5140.0	-0.0	0.03252		0.03675	5112.7	-696.4
		C:147834 NIAG 345	345	149000	ROCH	345	345	1	1226							
		Open	147834	NIAG 345	345	149000	ROCH	345	345	1			0.06463	-0.06549	422.3	10775.4
8	-156563.-73858.2	L: Interface	21	PJM-WEST						5122.9	0.0	0.03272		0.03675	5112.7	-640.8
		C:130751 CNDGUA_T	230	130761	AVOCA230	230	1	197								
		Open	130751	CNDGUA_T	230	130761	AVOCA230	230	1				0.07636	-0.05274	134.7	8391.5
9	-156563.-73858.0	L: Interface	21	PJM-WEST						5122.9	-0.0	0.03272		0.03675	5112.7	-640.8
		C:130761 AVOCA230	230	131154	STONY RIDGE	230	1	216								
		Open	130761	AVOCA230	230	131154	STONY RIDGE	230	1				0.07636	-0.05274	134.5	8391.4
10	-156562.-73857.9	*L: Interface	21	PJM-WEST						5122.9	0.0	0.03272		0.03675	5112.7	-640.8
		C:SER:MEYER_HILLSD_68													1604	
		Open	130761	AVOCA230	230	131154	STONY RIDGE	230	1				0.07636	-0.05274	134.5	8391.4
		Open	130751	CNDGUA_T	230	130761	AVOCA230	230	1				-0.09424	0.00000	0.1	0.1
1752	-75911.2-35603.2	L: Interface	20	PJM-CENT						3334.8	0.0	0.04393		0.01403	3269.0	2204.0
		C:135398 SW345	345	200769	HOMER CY	345	1	1380								
		Open	135398	SW345	345	200769	HOMER CY	345	1				-0.17370	-0.17213	-378.4	12688.3
1761	-64247.9-30071.0	L: Interface	20	PJM-CENT						3281.5	-0.0	0.05108		0.01403	3269.0	2367.6
		C:135250 DUNKIRK	230	135251	S RIPLEY	230	1	422								
		Open	135250	DUNKIRK	230	135251	S RIPLEY	230	1				-0.19217	-0.19278	-64.9	12320.6
1762	-62677.3-29326.1	L: Interface	20	PJM-CENT						3270.0	-0.0	0.05217		0.01403	3269.0	2389.7
		C:SER:EESR/NWES													1608	
		Open	135251	S RIPLEY	230	200654	ERIE E	230	1				-0.19103	-0.21107	11.3	13240.6
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1				0.07221	-0.03017	43.0	1933.8
1763	-59842.2-27981.3	L: Interface	20	PJM-CENT						3266.9	-0.0	0.05459		0.01403	3269.0	2429.4
		C:135251 S RIPLEY	230	200654	ERIE E	230	1	1378								
		Open	135251	S RIPLEY	230	200654	ERIE E	230	1				-0.19217	-0.21107	11.3	12642.2
1764	-59573.8-27854.0	L: Interface	20	PJM-CENT						3344.5	0.0	0.05614		0.01403	3269.0	2433.2
		C:SER:HC-SR_37&W-F_171													1600	
		Open	135398	SW345	345	200769	HOMER CY	345	1				-0.18965	-0.17213	-378.4	9876.2
		Open	135277	FALCONER	115	200579	WARREN	115	1				-0.10389	-0.09112	-35.9	5392.3
1765	-57092.3-26677.0	L: Interface	20	PJM-CENT						3496.9	0.0	0.06125		0.01403	3269.0	2468.0
		C:SER:HCWC/NWES													1607	
		Open	130757	WATRC345	345	200769	HOMER CY	345	1				-0.41470	-0.11809	-543.5	6198.3
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1				0.05801	-0.03017	43.0	1765.3
1766	-55266.9-25811.2	L: Interface	20	PJM-CENT						3495.6	0.0	0.06325		0.01403	3269.0	2493.6

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		C:130757 WATRC345	345	200769 HOMER CY	345	1	1374												
		Open 130757 WATRC345	345	200769 HOMER CY	345	1													
1767	-54897.9-25636.2	L: Interface	20	PJM-CENT				3485.0	0.0	0.06348									
		C:BUS:WATERCURE_345					1632												
		Open 130757 WATRC345	345	200769 HOMER CY	345	1													
		Open 130757 WATRC345	345	130768 WATRC230	230	1													
		Open 130755 OAKDL345	345	130757 WATRC345	345	1													
1768	-50518.7-23559.0	L: Interface	20	PJM-CENT				3498.3	0.0	0.06925									
		C:SER:HC-WC_30&W-F_171					1601												
		Open 130757 WATRC345	345	200769 HOMER CY	345	1													
		Open 135277 FALCONER	115	200579 WARREN	115	1													
1769	-45831.0-21335.5	*L: Interface	20	PJM-CENT				3274.7	0.0	0.07145									
		C:SER:EESR/WF/NWES					1611												
		Open 135251 S RIPLEY	230	200654 ERIE E	230	1													
		Open 135277 FALCONER	115	200579 WARREN	115	1													
		Open 130836 N.WAV115	115	200676 E.SAYRE	115	1													
1772	-5411.4 -2163.7	L: Interface	48	PJMWest-C				596.0	0.0	0.11015									
		C:130755 OAKDL345	345	131128 LAPEER	345	1	209												
		Open 130755 OAKDL345	345	131128 LAPEER	345	1													
1773	-5411.4 -2163.7	L: Interface	47	C-PJMWest				-596.0	-0.0	-0.11015									
		C:130755 OAKDL345	345	131128 LAPEER	345	1	209												
		Open 130755 OAKDL345	345	131128 LAPEER	345	1													
1774	-5356.1 -2137.5	L: Interface	47	C-PJMWest				-597.3	0.0	-0.11151									
		C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392												
		Open 131128 LAPEER	345	136153 LAFAYTTE	345	1													
1775	-5356.1 -2137.5	L: Interface	48	PJMWest-C				597.3	-0.0	0.11151									
		C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392												
		Open 131128 LAPEER	345	136153 LAFAYTTE	345	1													
1776	-5333.5 -2126.8	L: Interface	48	PJMWest-C				629.8	0.0	0.11809									
		C:HQ-NY-765-New					1778												
		Open 147827 MARCY765	765	147828 MASS 765	765	1													
		Open 147828 MASS 765	765	180819 CHA-NY	765	1													
		Open 147827 MARCY765	765	147833 MARCY T1	345	1													
		Open 147827 MARCY765	765	147833 MARCY T1	345	2													
		Open 156 MCY765SW	0.0	147827 MARCY765	765	1													
		Open 147838 MASS230B	230	147839 MOSES E	230	1													
		Open 147828 MASS 765	765	147838 MASS230B	230	1													
		Open 147837 MASS230A	230	147839 MOSES E	230	1													
		Open 147828 MASS 765	765	147837 MASS230A	230	1													
		Open 158 MS765SW2	0.0	147828 MASS 765	765	1													
		Open 157 MS765SW1	0.0	147828 MASS 765	765	1													
		Decrease bus 180001 BEA-DLX		13.8 generation by															

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			Set	bus 181319	CHAT G3	120	load	to	357.0 MW dispatch						
			Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0 percent dispatch						
			Set	bus 181419	CHAT G4	120	load	to	357.0 MW dispatch						
1777	-5333.5	-2126.8	L:	Interface	47 C-PJMWest					-629.8	-0.0	-0.11809	-0.11809	-543.5	86.3
			C:	HQ-NY-765-New											
			Open	147827	MARCY765	765	147828	MASS 765	765 1	NA					
			Open	147828	MASS 765	765	180819	CHA-NY	765 1	NA					
			Open	147827	MARCY765	765	147833	MARCY T1	345 1		-0.02483	0.00008		624.7	624.3
			Open	147827	MARCY765	765	147833	MARCY T1	345 2		-0.02483	0.00007		543.6	543.2
			Open	156	MCY765SW	0.0	147827	MARCY765	765 1	NA					
			Open	147838	MASS230B	230	147839	MOSES E	230 1		0.00000	-0.00007		10.3	10.7
			Open	147828	MASS 765	765	147838	MASS230B	230 1	NA					
			Open	147837	MASS230A	230	147839	MOSES E	230 1		0.05514	0.00000		18.8	18.8
			Open	147828	MASS 765	765	147837	MASS230A	230 1	NA					
			Open	158	MS765SW2	0.0	147828	MASS 765	765 1	NA					
			Open	157	MS765SW1	0.0	147828	MASS 765	765 1	NA					
			Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0 percent dispatch						
			Set	bus 181319	CHAT G3	120	load	to	357.0 MW dispatch						
			Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0 percent dispatch						
			Set	bus 181419	CHAT G4	120	load	to	357.0 MW dispatch						
1778	-5284.8	-2103.7	L:	Interface	48 PJMWest-C					624.1	0.0	0.11809	0.11809	543.5	-80.5
			C:	GEN:9 MI PT2											
			Remove	unit 2	from bus 136700	9M PT 2G	25.0	1197.5 MW	dispatch						
1779	-5284.8	-2103.7	L:	Interface	47 C-PJMWest					-624.1	-0.0	-0.11809	-0.11809	-543.5	80.5
			C:	GEN:9 MI PT2											
			Remove	unit 2	from bus 136700	9M PT 2G	25.0	1197.5 MW	dispatch						
1780	-5179.7	-2053.8	L:	Interface	48 PJMWest-C					611.7	0.0	0.11809	0.11809	543.5	-68.1
			C:	SIN:250											
			Open	100508	SANDB115	115	100509	SB RCTOR	115 2		0.00000	0.00000		-0.1	-0.1
			Remove	unit 3	from bus 103563	MILL#3	24.0	1276.0 MW	dispatch						
1781	-5179.7	-2053.8	L:	Interface	47 C-PJMWest					-611.7	-0.0	-0.11809	-0.11809	-543.5	68.1
			C:	SIN:250											
			Open	100508	SANDB115	115	100509	SB RCTOR	115 2		-0.00000	0.00000		-0.1	-0.1
			Remove	unit 3	from bus 103563	MILL#3	24.0	1276.0 MW	dispatch						
1782	-5179.1	-2053.5	L:	Interface	48 PJMWest-C					611.6	0.0	0.11809	0.11809	543.5	-68.0
			C:	GEN:SEAB&OMS											
			Open	100508	SANDB115	115	100509	SB RCTOR	115 2		0.00000	0.00000		-0.1	-0.1
			Remove	unit 1	from bus 102869	SBRK G1	25.0	1318.0 MW	dispatch						
1783	-5179.1	-2053.5	L:	Interface	47 C-PJMWest					-611.6	-0.0	-0.11809	-0.11809	-543.5	68.0
			C:	GEN:SEABROOK											
			Remove	unit 1	from bus 102869	SBRK G1	25.0	1318.0 MW	dispatch						
1784	-5179.1	-2053.5	L:	Interface	48 PJMWest-C					611.6	0.0	0.11809	0.11809	543.5	-68.0

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			C:GEN:SEABROOK			1573							
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
1785	-5179.1	-2053.5	L: Interface 47 C-PJMWest					-611.6	-0.0	-0.11809	-0.11809	-543.5	68.0
			C:GEN:SEAB&OMS			1575							
			Open 100508 SANDB115 115 100509 SB RCTOR	115	2					-0.00000	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
1786	-5177.7	-2052.9	L: Interface 47 C-PJMWest					-477.5	-0.0	-0.09223	-0.11809	-543.5	67.9
			C:130755 OAKDL345 345 130757 WATRC345	345	1	206							
			Open 130755 OAKDL345 345 130757 WATRC345	345	1					-0.25044	-0.10325	-263.5	271.1
1787	-5177.7	-2052.9	L: Interface 48 PJMWest-C					477.5	0.0	0.09223	0.11809	543.5	-67.9
			C:130755 OAKDL345 345 130757 WATRC345	345	1	206							
			Open 130755 OAKDL345 345 130757 WATRC345	345	1					0.25044	-0.10325	-263.5	271.1
1788	-5159.1	-2044.1	L: Interface 47 C-PJMWest					-574.2	-0.0	-0.11130	-0.11809	-543.5	65.7
			C:130764 MEYER230 230 131122 WTHRS230	230	1	221							
			Open 130764 MEYER230 230 131122 WTHRS230	230	1					0.12869	0.05271	-238.5	-510.5
1789	-5159.1	-2044.1	L: Interface 48 PJMWest-C					574.2	0.0	0.11130	0.11809	543.5	-65.7
			C:130764 MEYER230 230 131122 WTHRS230	230	1	221							
			Open 130764 MEYER230 230 131122 WTHRS230	230	1					-0.12869	0.05271	-238.5	-510.5
1790	-5147.6	-2038.6	*L: Interface 47 C-PJMWest					-573.0	0.0	-0.11130	-0.11809	-543.5	64.3
			C:130770 SHLDN230 230 131122 WTHRS230	230	1	228							
			Open 130770 SHLDN230 230 131122 WTHRS230	230	1					-0.12869	-0.05271	228.6	499.9
1791	-5147.6	-2038.6	*L: Interface 48 PJMWest-C					573.0	-0.0	0.11130	0.11809	543.5	-64.3
			C:130770 SHLDN230 230 131122 WTHRS230	230	1	228							
			Open 130770 SHLDN230 230 131122 WTHRS230	230	1					0.12869	-0.05271	228.6	499.9
5300	-3789.5	-1394.5	L: Interface 52 PJMEast-G					123.5	-0.0	0.03259	0.00000	0.4	0.4
			C:SER:HCWC/NWES			1607							
			Open 130757 WATRC345 345 200769 HOMER CY	345	1					-0.23819	-0.11809	-543.5	-96.0
			Open 130836 N.WAV115 115 200676 E.SAYRE	115	1					-0.14809	-0.03017	43.0	157.3
5301	-3789.5	-1394.5	L: Interface 51 G-PJMEast					-123.5	0.0	-0.03259	-0.00000	-0.4	-0.4
			C:SER:HCWC/NWES			1607							
			Open 130757 WATRC345 345 200769 HOMER CY	345	1					0.23819	-0.11809	-543.5	-96.0
			Open 130836 N.WAV115 115 200676 E.SAYRE	115	1					0.14809	-0.03017	43.0	157.3
5302	-3636.1	-1321.7	L: Interface 52 PJMEast-G					130.8	0.0	0.03597	0.00000	0.4	0.4
			C:SER:HC-WC_30&W-F_171			1601							
			Open 130757 WATRC345 345 200769 HOMER CY	345	1					-0.23382	-0.11809	-543.5	-114.2
			Open 135277 FALCONER 115 200579 WARREN	115	1					-0.09178	-0.09112	-35.9	295.4
5303	-3636.1	-1321.7	L: Interface 51 G-PJMEast					-130.8	-0.0	-0.03597	-0.00000	-0.4	-0.4
			C:SER:HC-WC_30&W-F_171			1601							
			Open 130757 WATRC345 345 200769 HOMER CY	345	1					0.23382	-0.11809	-543.5	-114.2
			Open 135277 FALCONER 115 200579 WARREN	115	1					0.09178	-0.09112	-35.9	295.4
5304	-3613.9	-1311.2	L: Interface 51 G-PJMEast					-118.3	-0.0	-0.03273	-0.00000	-0.4	-0.4
			C:BUS:WATERCURE_345			1632							

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			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.29437	-0.11809	-543.5	-116.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.13699	0.01483	257.6	204.0
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.30557	0.00000	22.4	22.4
5305	-3613.9	-1311.2	L: Interface 52 PJMEast-G					118.3	0.0	0.03273	0.00000	0.4	0.4
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.29437	-0.11809	-543.5	-116.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.13699	0.01483	257.6	204.0
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.30557	0.00000	22.4	22.4
5308	-1649.3	-379.3	L: Interface 51 G-PJMEast					-59.4	-0.0	-0.03603	-0.00000	-0.4	-0.4
			C:SER:HC-SR_37&W-F_171				1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1			0.14426	-0.17213	-378.4	-94.5
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.12286	-0.09112	-35.9	114.4
5309	-1649.3	-379.3	L: Interface 52 PJMEast-G					59.4	0.0	0.03603	0.00000	0.4	0.4
			C:SER:HC-SR_37&W-F_171				1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1			-0.14426	-0.17213	-378.4	-94.5
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.12286	-0.09112	-35.9	114.4
5310	-1364.8	-244.3	L: Interface 52 PJMEast-G					45.9	0.0	0.03365	0.00000	0.4	0.4
			C:LKWANA-OXBW				1651						
			Open 417 OXBOW	230	3070 LACKAWNA	230	1			-0.38004	-0.08855	-119.7	1.1
5311	-1364.8	-244.3	L: Interface 51 G-PJMEast					-45.9	-0.0	-0.03365	-0.00000	-0.4	-0.4
			C:LKWANA-OXBW				1651						
			Open 417 OXBOW	230	3070 LACKAWNA	230	1			0.38004	-0.08855	-119.7	1.1
5312	-169.3	322.7	L: Interface 52 PJMEast-G					8.5	0.0	0.05013	0.00000	0.4	0.4
			C:SER:ESEE/WRFL				1610						
			Open 270 ERIE SO.	230	531 ERIE SE	230	1			0.00053	0.14648	16.5	-8.3
			Open 531 ERIE SE	230	200654 ERIE E	230	1			0.17025	0.21107	14.7	-21.1
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.15493	-0.09112	-35.9	-20.5
5313	-169.3	322.7	L: Interface 51 G-PJMEast					-8.5	-0.0	-0.05013	-0.00000	-0.4	-0.4
			C:SER:ESEE/WRFL				1610						
			Open 270 ERIE SO.	230	531 ERIE SE	230	1			-0.00053	0.14648	16.5	-8.3
			Open 531 ERIE SE	230	200654 ERIE E	230	1			-0.17025	0.21107	14.7	-21.1
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.15493	-0.09112	-35.9	-20.5
5314	-80.9	364.6	L: Interface 51 G-PJMEast					-4.1	0.0	-0.05011	-0.00000	-0.4	-0.4
			C:SER:EESR/WRFL				1609						
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			0.17056	-0.21107	11.3	28.4
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.15483	-0.09112	-35.9	-28.5
5315	-80.9	364.6	L: Interface 52 PJMEast-G					4.1	-0.0	0.05011	0.00000	0.4	0.4
			C:SER:EESR/WRFL				1609						
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			-0.17056	-0.21107	11.3	28.4
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.15483	-0.09112	-35.9	-28.5
5316	36.6	420.4	L: Interface 51 G-PJMEast					2.0	0.0	-0.05539	-0.00000	-0.4	-0.4
			C:SER:EESR/WF/NWES				1611						

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				Open 135251 S RIPLEY	230	200654	ERIE E	230	1		0.17354	-0.21107	11.3	3.6	
				Open 135277 FALCONER	115	200579	WARREN	115	1		0.15831	-0.09112	-35.9	-39.2	
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.14357	-0.03017	43.0	41.9	
5317	36.6	420.4	L:	Interface 52 PJMEast-G						-2.0	-0.0	0.05539	0.00000	0.4	0.4
			C:	SER:EESR/WF/NWES					1611						
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1		-0.17354	-0.21107	11.3	3.6	
				Open 135277 FALCONER	115	200579	WARREN	115	1		-0.15831	-0.09112	-35.9	-39.2	
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.14357	-0.03017	43.0	41.9	
5318	187.2	491.8	L:	135277 FALCONER	115	200579	WARREN	115	1	-94.0	-116.0	-0.11754	-0.09112	-35.9	-53.0
			C:	135398 SW345	345	200769	HOMER CY	345	1 1380						
				Open 135398 SW345	345	200769	HOMER CY	345	1		0.15350	-0.17213	-378.4	-410.6	
5319	212.1	503.6	L:	Interface 51 G-PJMEast						7.2	-0.0	-0.03407	-0.00000	-0.4	-0.4
			C:	SER:EESR/NWES					1608						
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1		0.14130	-0.21107	11.3	-33.5	
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.14072	-0.03017	43.0	36.6	
5320	212.1	503.6	L:	Interface 52 PJMEast-G						-7.2	0.0	0.03407	0.00000	0.4	0.4
			C:	SER:EESR/NWES					1608						
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1		-0.14130	-0.21107	11.3	-33.5	
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.14072	-0.03017	43.0	36.6	
5321	398.7	592.1	L:	Interface 50 PJMCentral-C						-66.5	0.0	0.16672	0.13222	-198.6	-145.9
			C:	SER:HC-WC_30&W-F_171					1601						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.23847	-0.11809	-543.5	-590.6	
				Open 135277 FALCONER	115	200579	WARREN	115	1		-0.06952	-0.09112	-35.9	-72.2	
5322	398.7	592.1	L:	Interface 49 C-PJMCentral						66.5	-0.0	-0.16672	-0.13222	198.6	145.9
			C:	SER:HC-WC_30&W-F_171					1601						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.23847	-0.11809	-543.5	-590.6	
				Open 135277 FALCONER	115	200579	WARREN	115	1		0.06952	-0.09112	-35.9	-72.2	
5323	414.1	599.4	L:	Interface 50 PJMCentral-C						-61.6	0.0	0.14880	0.13222	-198.6	-143.8
			C:	SER:HCWC/NWES					1607						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.22559	-0.11809	-543.5	-592.4	
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.33367	-0.03017	43.0	30.5	
5324	414.1	599.4	L:	Interface 49 C-PJMCentral						61.6	-0.0	-0.14880	-0.13222	198.6	143.8
			C:	SER:HCWC/NWES					1607						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.22559	-0.11809	-543.5	-592.4	
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.33367	-0.03017	43.0	30.5	
5325	432.8	608.3	L:	Interface 50 PJMCentral-C						-69.4	0.0	0.16029	0.13222	-198.6	-141.4
			C:	130757 WATRC345	345	200769	HOMER CY	345	1 1374						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.23771	-0.11809	-543.5	-594.6	
5326	432.8	608.3	L:	Interface 49 C-PJMCentral						69.4	-0.0	-0.16029	-0.13222	198.6	141.4
			C:	130757 WATRC345	345	200769	HOMER CY	345	1 1374						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.23771	-0.11809	-543.5	-594.6	
5327	459.1	620.7	L:	Interface 49 C-PJMCentral						70.0	-0.0	-0.15240	-0.13222	198.6	137.9

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5335	708.4	739.0	L: 135277 FALCONER	115	200579	WARREN	115	1	-51.5	-116.0	-0.09112	-0.09112	-35.9	-100.5
			C:GEN:BRUCE 6					1564						
			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5	MW	dispatch							
5336	711.8	740.6	L: 135277 FALCONER	115	200579	WARREN	115	1	-53.2	-116.0	-0.08819	-0.09112	-35.9	-100.8
			C:GEN:KINTIGH-New					1777						
			Open 130754 KINTI345	345	130873	KINTIG24	24.0	1			0.00000	0.04880	-288.5	-253.7
			Open 130754 KINTI345	345	130873	KINTIG24	24.0	2			0.02998	0.09773	-577.7	-508.2
5337	716.4	742.8	*L: 135277 FALCONER	115	200579	WARREN	115	1	-50.7	-116.0	-0.09112	-0.09112	-35.9	-101.2
			C:GEN:GINNA					1562						
			Remove unit 1 from bus 149140 GINNA 19	19.0	605.0	MW	dispatch							
5362	815.7	789.9	L: Interface 49 C-PJMCentral						107.9	-0.0	-0.13222	-0.13222	198.6	90.7
			C:GEN:9 MI PT2					1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch							
5363	815.7	789.9	L: Interface 50 PJMCentral-C						-107.9	0.0	0.13222	0.13222	-198.6	-90.7
			C:GEN:9 MI PT2					1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch							
5407	861.8	811.8	L: Interface 49 C-PJMCentral						114.0	-0.0	-0.13223	-0.13222	198.6	84.6
			C:HQ-NY-765-New					1778						
			Open 147827 MARCY765	765	147828	MASS 765	765	1						
			Open 147828 MASS 765	765	180819	CHA-NY	765	1						
			Open 147827 MARCY765	765	147833	MARCY T1	345	1			-0.01633	0.00008	624.7	624.8
			Open 147827 MARCY765	765	147833	MARCY T1	345	2			-0.01633	0.00007	543.6	543.7
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1						
			Open 147838 MASS230B	230	147839	MOSES E	230	1			-0.00000	-0.00007	10.3	10.3
			Open 147828 MASS 765	765	147838	MASS230B	230	1						
			Open 147837 MASS230A	230	147839	MOSES E	230	1			0.05989	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837	MASS230A	230	1						
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1						
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1						
			Decrease bus 180001 BEA-DLX	13.8	generation by		100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to		357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by		100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to		357.0	MW dispatch						
5408	861.8	811.8	L: Interface 50 PJMCentral-C						-114.0	0.0	0.13223	0.13222	-198.6	-84.6
			C:HQ-NY-765-New					1778						
			Open 147827 MARCY765	765	147828	MASS 765	765	1						
			Open 147828 MASS 765	765	180819	CHA-NY	765	1						
			Open 147827 MARCY765	765	147833	MARCY T1	345	1			0.01633	0.00008	624.7	624.8
			Open 147827 MARCY765	765	147833	MARCY T1	345	2			0.01633	0.00007	543.6	543.7
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1						
			Open 147838 MASS230B	230	147839	MOSES E	230	1			0.00000	-0.00007	10.3	10.3
			Open 147828 MASS 765	765	147838	MASS230B	230	1						

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			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.05989	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch					
7092	987.8	871.5	L: Interface 50 PJMCentral-C							-130.6	0.0	0.13222	0.13222 -198.6 -68.0
			C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78					
			Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1			0.06789	0.00000	1001.1	1001.1
7093	987.8	871.5	L: Interface 49 C-PJMCentral							130.6	-0.0	-0.13222	-0.13222 198.6 68.0
			C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78					
			Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1			-0.06789	0.00000	1001.1	1001.1
7094	987.8	871.5	L: Interface 50 PJMCentral-C							-130.6	-0.0	0.13222	0.13222 -198.6 -68.0
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351					
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1			0.06789	0.00000	1001.1	1001.1
7095	987.8	871.5	L: Interface 49 C-PJMCentral							130.6	0.0	-0.13222	-0.13222 198.6 68.0
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351					
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1			-0.06789	0.00000	1001.1	1001.1
7096	992.7	873.9	L: Interface 19 PJM-NY							2394.6	3114.0	0.72463	0.72463 1498.2 2217.5
			C:GEN:SEABROOK					1573					
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW		dispatch					
7097	992.7	873.9	L: Interface 19 PJM-NY							2394.6	3114.0	0.72463	0.72463 1498.2 2217.5
			C:GEN:SEAB&OMS					1575					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW		dispatch					
7098	992.7	873.9	L: Interface 35 NY-PJM							-2394.6	-3114.0	-0.72463	-0.72463 -1498.2 -2217.5
			C:GEN:SEAB&OMS					1575					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00004	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW		dispatch					
7099	992.7	873.9	L: Interface 35 NY-PJM							-2394.6	-3114.0	-0.72463	-0.72463 -1498.2 -2217.5
			C:GEN:SEABROOK					1573					
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW		dispatch					
7100	998.6	876.7	L: Interface 19 PJM-NY							2390.4	3114.0	0.72463	0.72463 1498.2 2221.8
			C:SIN:250					1677					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW		dispatch					
7101	998.6	876.7	L: Interface 35 NY-PJM							-2390.4	-3114.0	-0.72463	-0.72463 -1498.2 -2221.8
			C:SIN:250					1677					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00004	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW		dispatch					

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7102	1012.2	883.1	L: Interface	50	PJMCentral-C			-137.4	-0.0	0.13575	0.13222	-198.6	-64.7	
			C:130757 WATRC345	345	130768 WATRC230	230	1	213						
			Open	130757 WATRC345	345	130768 WATRC230	230	1			0.23750	0.01483	257.6	272.6
7103	1012.2	883.1	L: Interface	49	C-PJMCentral			137.4	0.0	-0.13575	-0.13222	198.6	64.7	
			C:130757 WATRC345	345	130768 WATRC230	230	1	213						
			Open	130757 WATRC345	345	130768 WATRC230	230	1			-0.23750	0.01483	257.6	272.6
7106	1014.8	884.3	L: Interface	35	NY-PJM			-2378.6	-3114.0	-0.72463	-0.72463	-1498.2	-2233.6	
			C:GEN:MILLST 3					1572						
			Remove unit 3	from bus	103563 MILL#3	24.0	1276.0	MW	dispatch					
7107	1014.8	884.3	L: Interface	19	PJM-NY			2378.6	3114.0	0.72463	0.72463	1498.2	2233.6	
			C:GEN:MLS3&OMS					1574						
			Open	100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1
			Remove unit 3	from bus	103563 MILL#3	24.0	1276.0	MW	dispatch					
7108	1014.8	884.3	L: Interface	19	PJM-NY			2378.6	3114.0	0.72463	0.72463	1498.2	2233.6	
			C:GEN:MILLST 3					1572						
			Remove unit 3	from bus	103563 MILL#3	24.0	1276.0	MW	dispatch					
7109	1014.8	884.3	L: Interface	35	NY-PJM			-2378.6	-3114.0	-0.72463	-0.72463	-1498.2	-2233.6	
			C:GEN:MLS3&OMS					1574						
			Open	100508 SANDB115	115	100509 SB RCTOR	115	2			0.00004	0.00000	-0.1	-0.1
			Remove unit 3	from bus	103563 MILL#3	24.0	1276.0	MW	dispatch					
7110	1029.4	891.2	*L: Interface	50	PJMCentral-C			-136.3	0.0	0.13244	0.13222	-198.6	-62.5	
			C:BUS:WATERCURE_230					1633						
			Open	130768 WATRC230	230	130772 SHRED230	230	1			-0.25406	0.01738	71.0	88.9
			Open	130757 WATRC345	345	130768 WATRC230	230	1			0.31246	0.01483	257.6	272.8
			Open	130763 HILSD230	230	130768 WATRC230	230	1			-0.40235	0.00000	0.5	0.5
7111	1029.4	891.2	*L: Interface	49	C-PJMCentral			136.3	-0.0	-0.13244	-0.13222	198.6	62.5	
			C:BUS:WATERCURE_230					1633						
			Open	130768 WATRC230	230	130772 SHRED230	230	1			0.25406	0.01738	71.0	88.9
			Open	130757 WATRC345	345	130768 WATRC230	230	1			-0.31246	0.01483	257.6	272.8
			Open	130763 HILSD230	230	130768 WATRC230	230	1			0.40235	0.00000	0.5	0.5
7112	1077.0	913.8	L: Interface	19	PJM-NY			2333.6	3114.0	0.72465	0.72463	1498.2	2278.6	
			C:HQ-NY-765-New					1778						
			Open	147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open	147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open	147827 MARCY765	765	147833 MARCY T1	345	1			0.14597	0.00008	624.7	624.8
			Open	147827 MARCY765	765	147833 MARCY T1	345	2			0.14597	0.00007	543.6	543.7
			Open	156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open	147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	-0.00007	10.3	10.3
			Open	147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open	147837 MASS230A	230	147839 MOSES E	230	1			-0.61013	0.00000	18.8	18.8
			Open	147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open	158 MS765SW2	0.0	147828 MASS 765	765	1	NA					

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			Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA					
			Decrease bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch						
7113	1077.0	913.8	L: Interface	35	NY-PJM				-2333.6	-3114.0	-0.72465		-0.72463	-1498.2	-2278.6		
			C:HQ-NY-765-New						1778								
			Open	147827	MARCY765	765	147828	MASS	765	765	1	NA					
			Open	147828	MASS 765	765	180819	CHA-NY	765	765	1	NA					
			Open	147827	MARCY765	765	147833	MARCY T1	345	1			-0.14597	0.00008	624.7	624.8	
			Open	147827	MARCY765	765	147833	MARCY T1	345	2			-0.14597	0.00007	543.6	543.7	
			Open	156	MCY765SW	0.0	147827	MARCY765	765	765	1	NA					
			Open	147838	MASS230B	230	147839	MOSES E	230	1			0.00000	-0.00007	10.3	10.3	
			Open	147828	MASS 765	765	147838	MASS230B	230	1		NA					
			Open	147837	MASS230A	230	147839	MOSES E	230	1			0.61013	0.00000	18.8	18.8	
			Open	147828	MASS 765	765	147837	MASS230A	230	1		NA					
			Open	158	MS765SW2	0.0	147828	MASS 765	765	765	1	NA					
			Open	157	MS765SW1	0.0	147828	MASS 765	765	765	1	NA					
			Decrease bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch						
7128	1168.0	957.0	L: Interface	19	PJM-NY				2267.6	3114.0	0.72463		0.72463	1498.2	2344.6		
			C:GEN:IND PT 3						1555								
			Remove unit 1	from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch						
7129	1168.0	957.0	L: Interface	35	NY-PJM				-2267.6	-3114.0	-0.72463		-0.72463	-1498.2	-2344.6		
			C:GEN:IND PT 3						1555								
			Remove unit 1	from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch						
7130	1182.0	963.6	L: Interface	19	PJM-NY				2257.5	3114.0	0.72463		0.72463	1498.2	2354.7		
			C:GEN:IND PT 2						1554								
			Remove unit 2	from bus	126651	IND PT 2	22.0	1053.7	MW	dispatch							
7131	1182.0	963.6	L: Interface	35	NY-PJM				-2257.5	-3114.0	-0.72463		-0.72463	-1498.2	-2354.7		
			C:GEN:IND PT 2						1554								
			Remove unit 2	from bus	126651	IND PT 2	22.0	1053.7	MW	dispatch							
7134	1190.8	967.8	L: Interface	35	NY-PJM				-2251.1	-3114.0	-0.72463		-0.72463	-1498.2	-2361.1		
			C:GEN:9 MI PT2						1561								
			Remove unit 2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch							
7135	1190.8	967.8	L: Interface	19	PJM-NY				2251.1	3114.0	0.72463		0.72463	1498.2	2361.1		
			C:GEN:9 MI PT2						1561								
			Remove unit 2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch							
7140	1198.7	971.6	*L: Interface	35	NY-PJM				-2245.4	-3114.0	-0.72463		-0.72463	-1498.2	-2366.8		
			C:GEN:IND PT 3-New						1775								

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				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1		0.00000	0.00000	522.5	522.5	
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2		0.71720	0.00000	-1041.8	-1041.8	
7141	1198.7	971.6	*L:	Interface	19	PJM-NY					2245.4	3114.0	0.72463	0.72463	1498.2	2366.8
				C:GEN:IND PT 3-New						1775						
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1		0.00000	0.00000	522.5	522.5	
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2		-0.71720	0.00000	-1041.8	-1041.8	
7144	1203.0	973.6	L:	130801 PAVMT115	115	130857	STOLE115	115	115	1	-100.4	-179.0	-0.06533	-0.04668	-76.0	-132.2
				C:130857 STOLE115	115	130858	GIRD115	115	115	1	367					
				Open 130857 STOLE115	115	130858	GIRD115	115	115	1		-0.37783	0.04937	64.6	124.0	
7185	1334.7	1036.1	L:	Interface	26	ONTARIO-MICH					367.5	0.0	-0.27537	-0.27537	736.0	368.5
				C:GEN:BRUCE 6						1564						
				Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5	MW	dispatch								
7196	1389.6	1062.1	L:	130801 PAVMT115	115	130857	STOLE115	115	115	1	-101.8	-179.0	-0.05559	-0.04668	-76.0	-140.9
				C:135398 SW345	345	135564	SW115	115	115	1	517					
				Open 135398 SW345	345	135564	SW115	115	115	1		-0.17605	0.05061	146.2	216.6	
7209	1408.4	1071.0	L:	130799 ERIE 115	115	130801	PAVMT115	115	115	1	-88.1	-179.0	-0.06455	-0.04630	-64.2	-129.4
				C:130857 STOLE115	115	130858	GIRD115	115	115	1	367					
				Open 130857 STOLE115	115	130858	GIRD115	115	115	1		-0.36975	0.04937	64.6	134.1	
7226	1423.7	1078.3	L:	130801 PAVMT115	115	130857	STOLE115	115	115	1	-88.5	-179.0	-0.06355	-0.04668	-76.0	-142.5
				C:130806 GARDV115	115	130858	GIRD115	115	115	1	295					
				Open 130806 GARDV115	115	130858	GIRD115	115	115	1		0.36205	-0.04660	-34.6	-100.9	
7227	1424.7	1078.8	*L:	Interface	52	PJMEast-G					-48.0	0.0	0.03367	0.00000	0.4	0.4
				C:SER:C398/NWES						1605						
				Open 409 GROVER	230	200675	E.TWANDA	230	230	1		-0.02734	0.00346	-15.6	-10.6	
				Open 130763 HILSD230	230	200675	E.TWANDA	230	230	1		-0.30865	-0.07952	117.6	4.3	
				Open 381 TOWANDA	115	200675	E.TWANDA	230	230	1		-0.01228	0.00075	-52.1	-51.1	
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	115	1		-0.30588	-0.03017	43.0	0.0	
7228	1424.7	1078.8	*L:	Interface	51	G-PJMEast					48.0	-0.0	-0.03367	-0.00000	-0.4	-0.4
				C:SER:C398/NWES						1605						
				Open 409 GROVER	230	200675	E.TWANDA	230	230	1		0.02734	0.00346	-15.6	-10.6	
				Open 130763 HILSD230	230	200675	E.TWANDA	230	230	1		0.30865	-0.07952	117.6	4.3	
				Open 381 TOWANDA	115	200675	E.TWANDA	230	230	1		0.01228	0.00075	-52.1	-51.1	
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	115	1		0.30588	-0.03017	43.0	0.0	
7321	1469.1	1099.8	L:	Interface	26	ONTARIO-MICH					398.7	-0.0	-0.27141	-0.27537	736.0	331.4
				C:LAMBT7/LAMBGEN						1646						
				Open 160050 LAMB L4D	345	B\$1020	LAMBTON T7	1.00	T7			0.06606	0.05993	-234.0	-145.9	
				Open 160064 LAMB T78	220	B\$1020	LAMBTON T7	1.00	T7			0.72540	0.00000	0.3	0.3	
				Set bus 160705 LAMBTNG4	24.0	generation	to				0.0	MW	dispatch			
7324	1469.6	1100.1	L:	Interface	26	ONTARIO-MICH					398.9	-0.0	-0.27145	-0.27537	736.0	331.3
				C:LAMBT8/LAMBGEN						1647						
				Open 160050 LAMB L4D	345	B\$1021	LAMBTON T8	1.00	T8			0.06583	0.05948	-232.1	-144.7	
				Open 160064 LAMB T78	220	B\$1021	LAMBTON T8	1.00	T8			0.72556	0.00000	0.4	0.4	

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			Set	bus 160705	LAMBTNG4	24.0	generation to	0.0	MW dispatch							
10503	1551.6	1139.0	L:	130801	PAVMT115	115	130857	STOLE115	115	1	-98.6	-179.0	-0.05183	-0.04668	-76.0	-148.4
			C:	SER:HCWC/NWES						1607						
			Open	130757	WATRC345	345	200769	HOMER CY	345	1		0.04202	-0.11809		-543.5	-726.8
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.00621	-0.03017		43.0	-3.8
10508	1555.2	1140.7	L:	130801	PAVMT115	115	130857	STOLE115	115	1	-98.7	-179.0	-0.05161	-0.04668	-76.0	-148.6
			C:	130757	WATRC345	345	200769	HOMER CY	345	1	1374					
			Open	130757	WATRC345	345	200769	HOMER CY	345	1		0.04180	-0.11809		-543.5	-727.2
10521	1561.0	1143.4	L:	130801	PAVMT115	115	130857	STOLE115	115	1	-98.4	-179.0	-0.05163	-0.04668	-76.0	-148.9
			C:	BUS:WATERCURE_345						1632						
			Open	130757	WATRC345	345	200769	HOMER CY	345	1		0.04197	-0.11809		-543.5	-727.9
			Open	130757	WATRC345	345	130768	WATRC230	230	1		0.00038	0.01483		257.6	280.7
			Open	130755	OAKDL345	345	130757	WATRC345	345	1		0.01405	0.00000		22.4	22.4
10538	1567.9	1146.7	L:	135250	DUNKIRK	230	135251	S RIPLEY	230	1	-190.7	-637.0	-0.28464	-0.19278	-64.9	-367.2
			C:	SER:HC-SR_37&W-F_171						1600						
			Open	135398	SW345	345	200769	HOMER CY	345	1		0.28847	-0.17213		-378.4	-648.3
			Open	135277	FALCONER	115	200579	WARREN	115	1		0.46324	-0.09112		-35.9	-178.8
10543	1571.0	1148.2	L:	130757	WATRC345	345	130768	WATRC230	230	1	455.1	600.0	0.09223	0.01483	257.6	280.9
			C:	130755	OAKDL345	345	130757	WATRC345	345	1	206					
			Open	130755	OAKDL345	345	130757	WATRC345	345	1		-0.74956	-0.10325		-263.5	-425.7
10582	1612.3	1167.7	L:	130799	ERIE 115	115	130801	PAVMT115	115	1	-90.0	-179.0	-0.05522	-0.04630	-64.2	-138.9
			C:	135398	SW345	345	135564	SW115	115	1	517					
			Open	135398	SW345	345	135564	SW115	115	1		-0.17620	0.05061		146.2	227.8
10593	1615.0	1169.0	L:	130799	ERIE 115	115	130801	PAVMT115	115	1	-76.8	-179.0	-0.06328	-0.04630	-64.2	-139.0
			C:	130806	GARDV115	115	130858	GIRD115	115	1	295					
			Open	130806	GARDV115	115	130858	GIRD115	115	1		0.36437	-0.04660		-34.6	-109.8
10602	1619.5	1171.2	L:	Interface	26 ONTARIO-MICH						439.6	0.0	-0.27141	-0.27537	736.0	290.0
			C:	L4D+G3						1644						
			Open	160050	LAMB L4D	345	B\$1020	LAMBTON T7	1.00	T7		0.06606	0.05993		-234.0	-136.9
			Open	160064	LAMB T78	220	B\$1020	LAMBTON T7	1.00	T7		0.72540	0.00000		0.3	0.3
			Open	160069	LAMBTPK2	220	160704	LAMBTNG3	24.0	T3		0.65716	0.00000		62.1	62.1
			Remove unit 1	from bus 160704	LAMBTNG3	24.0	490.0	MW	dispatch							
10607	1620.0	1171.4	L:	Interface	26 ONTARIO-MICH						439.8	0.0	-0.27145	-0.27537	736.0	289.9
			C:	L51D+G3						1645						
			Open	160050	LAMB L4D	345	B\$1021	LAMBTON T8	1.00	T8		0.06583	0.05948		-232.1	-135.7
			Open	160064	LAMB T78	220	B\$1021	LAMBTON T8	1.00	T8		0.72556	0.00000		0.4	0.4
			Open	160069	LAMBTPK2	220	160704	LAMBTNG3	24.0	T3		0.65727	0.00000		62.1	62.1
			Remove unit 1	from bus 160704	LAMBTNG3	24.0	490.0	MW	dispatch							
10622	1649.2	1185.3	L:	130801	PAVMT115	115	130857	STOLE115	115	1	-97.7	-179.0	-0.04930	-0.04668	-76.0	-153.0
			C:	SER:HC-WC_30&W-F_171						1601						
			Open	130757	WATRC345	345	200769	HOMER CY	345	1		0.04152	-0.11809		-543.5	-738.3
			Open	135277	FALCONER	115	200579	WARREN	115	1		-0.02497	-0.09112		-35.9	-186.2

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10623	1649.4	1185.3	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-89.5	-179.0	-0.05424	-0.04668	-76.0	-153.0
			C:130806 GARDV115	115	135450 GRDNVL1	115	1 297						
			Open 130806 GARDV115	115	135450 GRDNVL1	115	1			-0.12156	0.06224	111.2	213.9
10654	1724.8	1221.1	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-114.5	-637.0	-0.30293	-0.21107	11.3	-352.8
			C:SER:HC-SR_37&W-F_171				1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1			0.28847	-0.17213	-378.4	-675.3
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.46324	-0.09112	-35.9	-193.1
10667	1754.0	1235.0	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-87.3	-179.0	-0.05228	-0.04668	-76.0	-157.9
			C:130857 STOLE115	115	131466 DAVIS115	115	1 368						
			Open 130857 STOLE115	115	131466 DAVIS115	115	1			-0.28642	0.01958	39.4	73.7
10684	1790.8	1252.4	L: 130757 WATRC345	345	200769 HOMER CY	345	1	-543.5	-755.0	-0.11809			
			Base Case										
10685	1790.8	1252.4	L: Interface 48 PJMWest-C					543.5	755.0	0.11809			
			Base Case										
10686	1790.8	1252.4	L: Interface 47 C-PJMWest					-543.5	-755.0	-0.11809			
			Base Case										
10687	1792.2	1253.1	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-86.8	-179.0	-0.05145	-0.04630	-64.2	-147.2
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04204	-0.11809	-543.5	-755.2
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.00621	-0.03017	43.0	-11.1
10688	1796.9	1255.3	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-86.9	-179.0	-0.05124	-0.04630	-64.2	-147.4
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04181	-0.11809	-543.5	-755.7
10689	1802.6	1258.0	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-86.6	-179.0	-0.05125	-0.04630	-64.2	-147.7
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04198	-0.11809	-543.5	-756.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.00037	0.01483	257.6	284.3
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.01405	0.00000	22.4	22.4
10690	1831.9	1271.9	L: Interface 26 ONTARIO-MICH					504.4	0.0	-0.27535	-0.27537	736.0	231.5
			C:HQ-NY-765-New				1778						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.13560	0.00008	624.7	624.8
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.13560	0.00007	543.6	543.7
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	-0.00007	10.3	10.2
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.35776	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						

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			Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch						
10697	1857.7	1284.1	L:	Interface	26	ONTARIO-MICH			511.5	-0.0	-0.27537	-0.27537	736.0	224.5			
			C:GEN:	9	MI	PT2			1561								
				Remove	unit 2	from	bus 136700	9M	PT 2G	25.0	1197.5	MW	dispatch				
10708	1873.4	1291.6	L:	130799	ERIE	115	115	130801	PAVMT115	115	1	-77.9	-179.0	-0.05396	-0.04630	-64.2	-150.9
			C:	130806	GARDV115	115	135450	GRDNVL1	115	1	297						
				Open	130806	GARDV115	115	135450	GRDNVL1	115	1	-0.12315	0.06224	111.2	227.8		
10709	1877.0	1293.3	*L:	130801	PAVMT115	115	130857	STOLE115	115	1	-87.3	-179.0	-0.04886	-0.04668	-76.0	-163.6	
			C:	130847	ROLL	115	115	130857	STOLE115	115	1	355					
				Open	130847	ROLL	115	115	130857	STOLE115	115	1	0.53214	-0.00411	-21.2	-28.9	
10710	1888.5	1298.8	L:	Interface	26	ONTARIO-MICH			520.0	-0.0	-0.27537	-0.27537	736.0	216.0			
			C:GEN:	NANTCK	8				1565								
				Remove	unit 1	from	bus 158743	NANTICG8	22.0	490.0	MW	dispatch					
10711	1890.8	1299.9	L:	Interface	26	ONTARIO-MICH			520.7	-0.0	-0.27537	-0.27537	736.0	215.3			
			C:GEN:	PICKER	6				1566								
				Remove	unit 1	from	bus 156683	PIC B G5	24.0	510.9	MW	dispatch					
10712	1903.0	1305.6	L:	130799	ERIE	115	115	130801	PAVMT115	115	1	-85.9	-179.0	-0.04893	-0.04630	-64.2	-152.3
			C:	SER:	HC-WC_30&W-F_171				1601								
				Open	130757	WATRC345	345	200769	HOMER	CY	345	1	0.04154	-0.11809	-543.5	-768.2	
				Open	135277	FALCONER	115	200579	WARREN	115	1	-0.02496	-0.09112	-35.9	-209.3		
10713	1906.1	1307.1	*L:	Interface	26	ONTARIO-MICH			638.1	-0.0	-0.33476	-0.27537	736.0	211.1			
			C:	SER:	HC-SR_37&W-F_171				1600								
				Open	135398	SW345	345	200769	HOMER	CY	345	1	0.23990	-0.17213	-378.4	-706.5	
				Open	135277	FALCONER	115	200579	WARREN	115	1	0.19862	-0.09112	-35.9	-209.6		
10716	1910.6	1309.3	L:	135277	FALCONER	115	200579	WARREN	115	1	-35.9	-210.0	-0.09112				
				Base	Case												
10725	1944.6	1325.3	L:	135276	ELLECTVL	115	135564	SW115	115	1	-76.6	-160.0	-0.04291	-0.02438	-42.3	-89.8	
			C:	130756	STOLE345	345	135398	SW345	345	1	212						
				Open	130756	STOLE345	345	135398	SW345	345	1	0.15245	-0.12152	-224.5	-460.8		
10726	1948.5	1327.2	L:	135276	ELLECTVL	115	135564	SW115	115	1	-76.4	-160.0	-0.04291	-0.02438	-42.3	-89.9	
			C:	SER:	STOLLE345/115				1595								
				Open	130756	STOLE345	345	130857	STOLE115	115	1	-0.15245	0.06100	112.2	231.1		
				Open	130756	STOLE345	345	130857	STOLE115	115	2	-0.15245	0.06052	111.2	229.1		
10739	1994.4	1349.0	L:	130799	ERIE	115	115	130801	PAVMT115	115	1	-75.5	-179.0	-0.05190	-0.04630	-64.2	-156.5
			C:	130857	STOLE115	115	131466	DAVIS115	115	1	368						
				Open	130857	STOLE115	115	131466	DAVIS115	115	1	-0.28630	0.01958	39.4	78.4		
10743	2005.3	1354.1	L:	130857	STOLE115	115	130858	GIRD115	115	1	98.4	239.0	0.07013	0.04937	64.6	163.6	
			C:	130801	PAVMT115	115	130857	STOLE115	115	1	289						
				Open	130801	PAVMT115	115	130857	STOLE115	115	1	-0.44474	-0.04668	-76.0	-169.6		
10750	2023.2	1362.6	L:	135284	MCHS-151	115	135564	SW115	115	1	-76.2	-160.0	-0.04140	-0.02395	-44.0	-92.5	

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				C:130756 STOLE345	345	135398 SW345	345	1	212										
				Open 130756 STOLE345	345	135398 SW345	345	1				0.14358	-0.12152	-224.5	-470.3				
10752	2027.1	1364.5	L:	135284 MCHS-151	115	135564 SW115	115	1		-76.1	-160.0	-0.04140	-0.02395	-44.0	-92.6				
				C:SER:STOLLE345/115					1595										
				Open 130756 STOLE345	345	130857 STOLE115	115	1				-0.14358	0.06100	112.2	235.8				
				Open 130756 STOLE345	345	130857 STOLE115	115	2				-0.14358	0.06052	111.2	233.8				
10780	2069.2	1384.5	L:	135276 ELLICTVL	115	135285 MCHS-152	115	1		72.8	160.0	0.04212	0.02360	38.6	87.4				
				C:130756 STOLE345	345	135398 SW345	345	1	212										
				Open 130756 STOLE345	345	135398 SW345	345	1				-0.15245	-0.12152	-224.5	-475.9				
10783	2073.3	1386.4	L:	135276 ELLICTVL	115	135285 MCHS-152	115	1		72.7	160.0	0.04212	0.02360	38.6	87.5				
				C:SER:STOLLE345/115					1595										
				Open 130756 STOLE345	345	130857 STOLE115	115	1				0.15245	0.06100	112.2	238.7				
				Open 130756 STOLE345	345	130857 STOLE115	115	2				0.15245	0.06052	111.2	236.6				
10809	2127.9	1412.3	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1		-147.2	-637.0	-0.23019	-0.19278	-64.9	-475.1				
				C:135398 SW345	345	200769 HOMER CY	345	1	1380										
				Open 135398 SW345	345	200769 HOMER CY	345	1				0.21737	-0.17213	-378.4	-744.7				
10830	2141.7	1418.8	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1		-125.5	-637.0	-0.23882	-0.19278	-64.9	-477.8				
				C:SER:HC-WC_30&W-F_171					1601										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.08545	-0.11809	-543.5	-796.4				
				Open 135277 FALCONER	115	200579 WARREN	115	1				0.39454	-0.09112	-35.9	-231.1				
10831	2142.1	1419.1	L:	130801 PAVMT115	115	130857 STOLE115	115	1		-76.0	-176.0	-0.04668							
				Base Case															
10842	2147.9	1421.8	*L:	130799 ERIE 115	115	130801 PAVMT115	115	1		-66.3	-179.0	-0.05247	-0.04630	-64.2	-163.7				
				C:135250 DUNKIRK	230	135251 S RIPLEY	230	1	422										
				Open 135250 DUNKIRK	230	135251 S RIPLEY	230	1				0.03204	-0.19278	-64.9	-479.0				
10893	2163.6	1429.2	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1		-64.9	-482.0	-0.19278							
				Base Case															
10938	2175.1	1434.7	L:	130756 STOLE345	345	130857 STOLE115	115	1		192.4	420.0	0.10465	0.06100	112.2	244.9				
				C:130756 STOLE345	345	130857 STOLE115	115	2	211										
				Open 130756 STOLE345	345	130857 STOLE115	115	2				0.72128	0.06052	111.2	242.8				
10975	2184.3	1439.1	L:	130756 STOLE345	345	130857 STOLE115	115	2		191.9	420.0	0.10442	0.06052	111.2	243.4				
				C:130756 STOLE345	345	130857 STOLE115	115	1	210										
				Open 130756 STOLE345	345	130857 STOLE115	115	1				0.71968	0.06100	112.2	245.4				
11217	2204.1	1448.4	L:	130857 STOLE115	115	130858 GIRD115	115	1		89.9	239.0	0.06765	0.04937	64.6	173.4				
				C:130799 ERIE 115	115	130801 PAVMT115	115	1	282										
				Open 130799 ERIE 115	115	130801 PAVMT115	115	1				-0.39469	-0.04630	-64.2	-166.3				
12854	2228.0	1459.8	L:	130857 STOLE115	115	130858 GIRD115	115	1		100.9	239.0	0.06197	0.04937	64.6	174.6				
				C:135398 SW345	345	135564 SW115	115	1	517										
				Open 135398 SW345	345	135564 SW115	115	1				0.24880	0.05061	146.2	259.0				
15913	2278.0	1483.5	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		-70.9	-637.0	-0.24849	-0.21107	11.3	-469.5				
				C:135398 SW345	345	200769 HOMER CY	345	1	1380										
				Open 135398 SW345	345	200769 HOMER CY	345	1				0.21737	-0.17213	-378.4	-770.5				

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15937	2285.8	1487.2	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	-49.3	-637.0	-0.25711	-0.21107	11.3	-471.2
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.08545	-0.11809	-543.5	-813.5
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.39454	-0.09112	-35.9	-244.2
15981	2339.1	1512.5	L: 135284 MCHS-151	115	135401	GERNATT	115	1	65.1	160.0	0.04056	0.02377	34.1	89.7
			C:130756 STOLE345	345	135398	SW345	345	1 212						
			Open 130756 STOLE345	345	135398	SW345	345	1			-0.13813	-0.12152	-224.5	-508.7
15987	2342.9	1514.3	L: 135284 MCHS-151	115	135401	GERNATT	115	1	65.0	160.0	0.04056	0.02377	34.1	89.8
			C:SER:STOLLE345/115					1595						
			Open 130756 STOLE345	345	130857	STOLE115	115	1			0.13813	0.06100	112.2	255.1
			Open 130756 STOLE345	345	130857	STOLE115	115	2			0.13813	0.06052	111.2	253.0
15995	2371.1	1527.7	L: 135401 GERNATT	115	147875	ARCADE	115	1	63.8	160.0	0.04056	0.02377	32.8	89.2
			C:130756 STOLE345	345	135398	SW345	345	1 212						
			Open 130756 STOLE345	345	135398	SW345	345	1			-0.13813	-0.12152	-224.5	-512.6
15996	2374.9	1529.5	L: 135401 GERNATT	115	147875	ARCADE	115	1	63.7	160.0	0.04056	0.02377	32.8	89.3
			C:SER:STOLLE345/115					1595						
			Open 130756 STOLE345	345	130857	STOLE115	115	1			0.13813	0.06100	112.2	257.1
			Open 130756 STOLE345	345	130857	STOLE115	115	2			0.13813	0.06052	111.2	254.9
16002	2384.7	1534.1	L: 135285 MCHS-152	115	135295	SPVL-152	115	1	60.9	160.0	0.04154	0.02342	27.5	83.3
			C:130756 STOLE345	345	135398	SW345	345	1 212						
			Open 130756 STOLE345	345	135398	SW345	345	1			-0.14912	-0.12152	-224.5	-514.3
16005	2388.7	1536.0	L: 135285 MCHS-152	115	135295	SPVL-152	115	1	60.8	160.0	0.04154	0.02342	27.5	83.4
			C:SER:STOLLE345/115					1595						
			Open 130756 STOLE345	345	130857	STOLE115	115	1			0.14912	0.06100	112.2	257.9
			Open 130756 STOLE345	345	130857	STOLE115	115	2			0.14912	0.06052	111.2	255.7
16025	2414.6	1548.3	L: 130799 ERIE 115	115	130801	PAVMT115	115	1	-64.2	-176.0	-0.04630			
			Base Case											
16030	2417.7	1549.8	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	11.3	-499.0	-0.21107			
			Base Case											
16080	2440.9	1560.8	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	-79.0	-637.0	-0.22859	-0.19278	-64.9	-535.5
			C:135277 FALCONER	115	200579	WARREN	115	1 1379						
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.39308	-0.09112	-35.9	-258.3
17696	2510.3	1593.7	L: Interface 45 A-PJMWest						-550.0	-1827.0	-0.50872	-0.47432	-403.0	-1593.7
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.27535	-0.11809	-543.5	-840.0
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.06259	-0.03017	43.0	-32.7
17697	2510.3	1593.7	L: Interface 46 PJMWest-A						550.0	1827.0	0.50872	0.47432	403.0	1593.7
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.27535	-0.11809	-543.5	-840.0
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.06259	-0.03017	43.0	-32.7
17710	2518.1	1597.4	L: Interface 45 A-PJMWest						-551.4	-1827.0	-0.50657	-0.47432	-403.0	-1597.4
			C:130757 WATRC345	345	200769	HOMER CY	345	1 1374						

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				Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.27308	-0.11809	-543.5	-840.9	
17711	2518.1	1597.4	L:	Interface 46 PJMWest-A					551.4	1827.0	0.50657	0.47432	403.0	1597.4
				C:130757 WATRC345	345	200769 HOMER CY	345	1	1374					
				Open 130757 WATRC345	345	200769 HOMER CY	345	1						
17721	2525.6	1600.9	L:	Interface 46 PJMWest-A					548.5	1827.0	0.50623	0.47432	403.0	1600.9
				C:BUS:WATERCURE_345				1632						
				Open 130757 WATRC345	345	200769 HOMER CY	345	1						
				Open 130757 WATRC345	345	130768 WATRC230	230	1						
				Open 130755 OAKDL345	345	130757 WATRC345	345	1						
17722	2525.6	1600.9	L:	Interface 45 A-PJMWest					-548.5	-1827.0	-0.50623	-0.47432	-403.0	-1600.9
				C:BUS:WATERCURE_345				1632						
				Open 130757 WATRC345	345	200769 HOMER CY	345	1						
				Open 130757 WATRC345	345	130768 WATRC230	230	1						
				Open 130755 OAKDL345	345	130757 WATRC345	345	1						
17740	2546.6	1610.9	L:	130786 COBHL115	115	135295 SPVL-152	115	1	-54.4	-160.0	-0.04145	-0.02329	-20.9	-80.2
				C:130756 STOLE345	345	135398 SW345	345	1	212					
				Open 130756 STOLE345	345	135398 SW345	345	1						
17743	2550.6	1612.8	L:	130786 COBHL115	115	135295 SPVL-152	115	1	-54.3	-160.0	-0.04145	-0.02329	-20.9	-80.3
				C:SER:STOLLE345/115				1595						
				Open 130756 STOLE345	345	130857 STOLE115	115	1						
				Open 130756 STOLE345	345	130857 STOLE115	115	2						
17759	2568.7	1621.4	L:	135251 S RIPLEY	230	200654 ERIE E	230	1	-2.8	-637.0	-0.24689	-0.21107	11.3	-530.9
				C:135277 FALCONER	115	200579 WARREN	115	1	1379					
				Open 135277 FALCONER	115	200579 WARREN	115	1						
17784	2599.9	1636.2	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1	-108.3	-637.0	-0.20333	-0.19278	-64.9	-566.1
				C:SER:HCWC/NWES				1607						
				Open 130757 WATRC345	345	200769 HOMER CY	345	1						
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1						
17790	2603.6	1637.9	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1	-94.0	-637.0	-0.20854	-0.19278	-64.9	-566.8
				C:130756 STOLE345	345	135398 SW345	345	1	212					
				Open 130756 STOLE345	345	135398 SW345	345	1						
17791	2604.3	1638.3	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1	-93.9	-637.0	-0.20854	-0.19278	-64.9	-567.0
				C:SER:STOLLE345/115				1595						
				Open 130756 STOLE345	345	130857 STOLE115	115	1						
				Open 130756 STOLE345	345	130857 STOLE115	115	2						
17795	2608.9	1640.4	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1	-134.1	-637.0	-0.19278	-0.19278	-64.9	-567.8
				C:GEN:9 MI PT2				1561						
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
17796	2609.2	1640.6	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1	-109.0	-637.0	-0.20236	-0.19278	-64.9	-567.9
				C:130757 WATRC345	345	200769 HOMER CY	345	1	1374					
				Open 130757 WATRC345	345	200769 HOMER CY	345	1						
17798	2616.9	1644.2	*L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1	-132.5	-637.0	-0.19278	-0.19278	-64.9	-569.4

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C:HQ-NY-765-New			1778																
			Open	147827	MARCY765	765	147828	MASS 765	765	1		NA							
			Open	147828	MASS 765	765	180819	CHA-NY	765	1		NA							
			Open	147827	MARCY765	765	147833	MARCY T1	345	1			0.00734	0.00008	624.7	624.9			
			Open	147827	MARCY765	765	147833	MARCY T1	345	2			0.00734	0.00007	543.6	543.8			
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1		NA							
			Open	147838	MASS230B	230	147839	MOSES E	230	1			0.00000	-0.00007	10.3	10.1			
			Open	147828	MASS 765	765	147838	MASS230B	230	1		NA							
			Open	147837	MASS230A	230	147839	MOSES E	230	1			0.07105	0.00000	18.8	18.8			
			Open	147828	MASS 765	765	147837	MASS230A	230	1		NA							
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1		NA							
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1		NA							
				Decrease	bus 180001	BEA-DLX	13.8	generation by	100.0	percent dispatch									
				Set	bus 181319	CHAT G3	120	load to	357.0	MW dispatch									
				Decrease	bus 180002	BEA-DL	13.8	generation by	100.0	percent dispatch									
				Set	bus 181419	CHAT G4	120	load to	357.0	MW dispatch									
17817	2632.1	1651.5	L:	130857	STOLE115	115	130858	GIRD115	115	1		92.4	239.0	0.05571		0.04937	64.6	194.5	
				C:	SER:HCWC/NWES	1607													
				Open	130757	WATRC345	345	200769	HOMER CY	345	1			-0.05176	-0.11809	-543.5	-854.4		
				Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			-0.00730	-0.03017	43.0	-36.4		
17835	2641.0	1655.7	L:	130857	STOLE115	115	130858	GIRD115	115	1		92.5	239.0	0.05545		0.04937	64.6	195.0	
				C:	130757	WATRC345	345	200769	HOMER CY	345	1	1374							
				Open	130757	WATRC345	345	200769	HOMER CY	345	1			-0.05149	-0.11809	-543.5	-855.4		
17856	2650.1	1660.0	L:	130857	STOLE115	115	130858	GIRD115	115	1		92.2	239.0	0.05539		0.04937	64.6	195.4	
				C:	BUS:WATERCURE_345	1632													
				Open	130757	WATRC345	345	200769	HOMER CY	345	1			-0.05073	-0.11809	-543.5	-856.5		
				Open	130757	WATRC345	345	130768	WATRC230	230	1			0.00170	0.01483	257.6	296.9		
				Open	130755	OAKDL345	345	130757	WATRC345	345	1			-0.01580	0.00000	22.4	22.4		
17894	2662.1	1665.7	L:	135398	SW345	345	200769	HOMER CY	345	1		-394.2	-1074.0	-0.25535		-0.17213	-378.4	-836.6	
				C:	SER:ESEE/WRFL	1610													
				Open	270	ERIE SO.	230	531	ERIE SE	230	1			0.00037	0.14648	16.5	406.4		
				Open	531	ERIE SE	230	200654	ERIE E	230	1			-0.24758	0.21107	14.7	576.6		
				Open	135277	FALCONER	115	200579	WARREN	115	1			0.34036	-0.09112	-35.9	-278.5		
19277	2682.0	1675.1	L:	135398	SW345	345	200769	HOMER CY	345	1		-386.9	-1074.0	-0.25621		-0.17213	-378.4	-840.1	
				C:	SER:EESR/WF/NWES	1611													
				Open	135251	S RIPLEY	230	200654	ERIE E	230	1			0.24784	-0.21107	11.3	-554.8		
				Open	135277	FALCONER	115	200579	WARREN	115	1			0.34099	-0.09112	-35.9	-280.3		
				Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.02294	-0.03017	43.0	-37.9		
19340	2687.1	1677.5	L:	135398	SW345	345	200769	HOMER CY	345	1		-387.8	-1074.0	-0.25536		-0.17213	-378.4	-840.9	
				C:	SER:EESR/WRFL	1609													
				Open	135251	S RIPLEY	230	200654	ERIE E	230	1			0.24737	-0.21107	11.3	-555.9		
				Open	135277	FALCONER	115	200579	WARREN	115	1			0.34043	-0.09112	-35.9	-280.7		

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19372	2692.8	1680.2	L: 130806 GARDV115	115	130858 GIRD115	115	1	-64.3	-239.0	-0.06487	-0.04660	-34.6	-160.0
			C:130801 PAVMT115	115	130857 STOLE115	115	1 289						
			Open 130801 PAVMT115	115	130857 STOLE115	115	1			0.39142	-0.04668	-76.0	-201.7
19436	2713.8	1690.2	L: 135398 SW345	345	200769 HOMER CY	345	1	-487.1	-1074.0	-0.21627	-0.17213	-378.4	-845.5
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.18369	-0.11809	-543.5	-864.0
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.24634	-0.09112	-35.9	-283.2
19439	2715.5	1691.0	L: Interface	45	A-PJMWest			-403.0	-1691.0	-0.47432			
			Base Case										
19440	2715.5	1691.0	L: Interface	46	PJMWest-A			403.0	1691.0	0.47432			
			Base Case										
19451	2726.4	1696.2	L: Interface	46	PJMWest-A			536.4	1827.0	0.47338	0.47432	403.0	1696.2
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.26914	-0.11809	-543.5	-865.5
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.35912	-0.09112	-35.9	-284.3
19452	2726.4	1696.2	L: Interface	45	A-PJMWest			-536.4	-1827.0	-0.47338	-0.47432	-403.0	-1696.2
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.26914	-0.11809	-543.5	-865.5
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.35912	-0.09112	-35.9	-284.3
19462	2729.2	1697.5	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-32.1	-637.0	-0.22163	-0.21107	11.3	-564.8
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.08215	-0.11809	-543.5	-865.8
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.02839	-0.03017	43.0	-39.3
19463	2729.6	1697.7	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-17.8	-637.0	-0.22684	-0.21107	11.3	-564.8
			C:130756 STOLE345	345	135398 SW345	345	1 212						
			Open 130756 STOLE345	345	135398 SW345	345	1			0.12974	-0.12152	-224.5	-556.2
19465	2730.3	1698.0	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-17.7	-637.0	-0.22684	-0.21107	11.3	-565.0
			C:SER:STOLLE345/115				1595						
			Open 130756 STOLE345	345	130857 STOLE115	115	1			-0.12974	0.06100	112.2	278.7
			Open 130756 STOLE345	345	130857 STOLE115	115	2			-0.12974	0.06052	111.2	276.4
19469	2730.7	1698.2	L: Interface	45	A-PJMWest			-531.8	-1827.0	-0.47432	-0.47432	-403.0	-1698.2
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW			dispatch					
19470	2730.7	1698.2	L: Interface	46	PJMWest-A			531.8	1827.0	0.47432	0.47432	403.0	1698.2
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW			dispatch					
19478	2734.4	1700.0	L: 130857 STOLE115	115	130858 GIRD115	115	1	81.3	239.0	0.05768	0.04937	64.6	199.6
			C:130857 STOLE115	115	131466 DAVIS115	115	1 368						
			Open 130857 STOLE115	115	131466 DAVIS115	115	1			0.42434	0.01958	39.4	92.9
19481	2738.3	1701.8	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-32.8	-637.0	-0.22065	-0.21107	11.3	-566.7
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.08112	-0.11809	-543.5	-866.9

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19486	2742.6	1703.9	L: Interface	46	PJMWest-A	526.1	1827.0	0.47432	0.47432	403.0	1703.9				
			C:HQ-NY-765-New												
											1778				
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA				
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA				
			Open	147827	MARCY765	765	147833	MARCY T1	345	1	-0.02154 0.00008 624.7 624.9				
			Open	147827	MARCY765	765	147833	MARCY T1	345	2	-0.02154 0.00007 543.6 543.8				
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA				
			Open	147838	MASS230B	230	147839	MOSES E	230	1	-0.00000 -0.00007 10.3 10.1				
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA				
			Open	147837	MASS230A	230	147839	MOSES E	230	1	-0.13796 0.00000 18.8 18.8				
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA				
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA				
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA				
			Decrease bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus	181319	CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus	181419	CHAT G4	120	load to	357.0	MW dispatch						
19487	2742.6	1703.9	L: Interface	45	A-PJMWest	-526.1	-1827.0	-0.47432	-0.47432	-403.0	-1703.9				
			C:HQ-NY-765-New												
											1778				
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA				
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA				
			Open	147827	MARCY765	765	147833	MARCY T1	345	1	0.02154 0.00008 624.7 624.9				
			Open	147827	MARCY765	765	147833	MARCY T1	345	2	0.02154 0.00007 543.6 543.8				
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA				
			Open	147838	MASS230B	230	147839	MOSES E	230	1	0.00000 -0.00007 10.3 10.1				
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA				
			Open	147837	MASS230A	230	147839	MOSES E	230	1	0.13796 0.00000 18.8 18.8				
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA				
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA				
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA				
			Decrease bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus	181319	CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus	181419	CHAT G4	120	load to	357.0	MW dispatch						
19488	2744.3	1704.7	L: 135251 S	RIPLEY	230	200654	ERIE E	230	1	-57.8	-637.0	-0.21107	-0.21107	11.3	-567.9
			C:GEN:9 MI	PT2											
			Remove unit 2	from bus	136700	9M	PT 2G	25.0	1197.5	MW	dispatch				
19491	2747.6	1706.3	*L: 135251 S	RIPLEY	230	200654	ERIE E	230	1	-31.3	-637.0	-0.22044	-0.21107	11.3	-568.6
			C:BUS:WATERCURE_345												
															1632
			Open	130757	WATRC345	345	200769	HOMER CY	345	1	0.07869	-0.11809	-543.5	-868.0	
			Open	130757	WATRC345	345	130768	WATRC230	230	1	-0.00540	0.01483	257.6	298.3	
			Open	130755	OAKDL345	345	130757	WATRC345	345	1	0.06958	0.00000	22.4	22.4	

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19504	2772.2	1717.9	L: 130857 STOLE115	115	130858 GIRD115	115	1	91.5	239.0	0.05320	0.04937	64.6	201.4
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.05122	-0.11809	-543.5	-870.9
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.02441	-0.09112	-35.9	-288.5
19508	2775.9	1719.7	L: Interface	46	PJMWest-A			510.3	1827.0	0.47432	0.47432	403.0	1719.7
			C:GEN:BRUCE 6				1564						
			Remove unit 1	from bus	159617 BRUCEBG5	24.0	815.5 MW	dispatch					
19509	2775.9	1719.7	L: Interface	45	A-PJMWest			-510.3	-1827.0	-0.47432	-0.47432	-403.0	-1719.7
			C:GEN:BRUCE 6				1564						
			Remove unit 1	from bus	159617 BRUCEBG5	24.0	815.5 MW	dispatch					
19512	2782.5	1722.8	L: Interface	23	QFW			972.3	0.0	-0.34944	-0.27537	1095.5	329.3
			C:SER:HC-SR_37&W-F_171				1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1			0.30257	-0.17213	-378.4	-857.3
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.24131	-0.09112	-35.9	-289.4
19513	2789.2	1726.0	L: Interface	46	PJMWest-A			504.0	1827.0	0.47432	0.47432	403.0	1726.0
			C:GEN:GINNA				1562						
			Remove unit 1	from bus	149140 GINNA 19	19.0	605.0 MW	dispatch					
19514	2789.2	1726.0	L: Interface	45	A-PJMWest			-504.0	-1827.0	-0.47432	-0.47432	-403.0	-1726.0
			C:GEN:GINNA				1562						
			Remove unit 1	from bus	149140 GINNA 19	19.0	605.0 MW	dispatch					
19522	2803.9	1733.0	L: 130857 STOLE115	115	130858 GIRD115	115	1	64.6	203.0	0.04937			
			Base Case										
19525	2811.3	1736.5	L: 130857 STOLE115	115	130858 GIRD115	115	1	68.4	239.0	0.06069	0.04937	64.6	203.4
			C:135250 DUNKIRK	230	135251 S RIPLEY	230	1	422					
			Open 135250 DUNKIRK	230	135251 S RIPLEY	230	1			-0.05872	-0.19278	-64.9	-606.9
19531	2826.7	1743.7	*L: 130857 STOLE115	115	130858 GIRD115	115	1	65.3	239.0	0.06144	0.04937	64.6	204.1
			C:SER:ESEE/WRFL				1610						
			Open 270 ERIE SO.	230	531 ERIE SE	230	1			-0.00010	0.14648	16.5	430.5
			Open 531 ERIE SE	230	200654 ERIE E	230	1			0.05829	0.21107	14.7	611.3
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.00242	-0.09112	-35.9	-293.5
19535	2830.5	1745.6	L: Interface	45	A-PJMWest			-422.0	-1827.0	-0.49639	-0.47432	-403.0	-1745.6
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL				1650						
			Open 505 SHELOCTA	230	521 KEYSTONE	230	1			-0.14238	0.12774	50.1	411.7
			Open 473 BLAIRSVL	138	235253 01SOCIAL	138	1			-0.11805	0.03289	100.2	193.3
19536	2830.5	1745.6	L: Interface	46	PJMWest-A			422.0	1827.0	0.49639	0.47432	403.0	1745.6
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL				1650						
			Open 505 SHELOCTA	230	521 KEYSTONE	230	1			0.14238	0.12774	50.1	411.7
			Open 473 BLAIRSVL	138	235253 01SOCIAL	138	1			0.11805	0.03289	100.2	193.3
19541	2834.8	1747.6	*L: Interface	45	A-PJMWest			-482.4	-1827.0	-0.47432	-0.47432	-403.0	-1747.6
			C:GEN:SEAB&OMS				1575						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00001	0.00000	-0.1	-0.1
			Remove unit 1	from bus	102869 SBRK G1	25.0	1318.0 MW	dispatch					

PJMWest-ZoneA

19542	2834.8	1747.6	*L: Interface	46	PJMWest-A			482.4	1827.0	0.47432		0.47432	403.0	1747.6	
			C:GEN:SEAB&OMS												
			Open	100508	SANDB115	115	100509 SB RCTOR	115	2		0.00001	0.00000	-0.1	-0.1	
			Remove unit 1		from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch				
19556	2843.2	1751.6	L: Interface	23	QFW			1079.1	-0.0	-0.37954		-0.27537	1095.5	312.5	
			C:SER:ESEE/WRFL												
			Open	270	ERIE SO.	230	531 ERIE SE	230	1		0.00129	0.14648	16.5	433.0	
			Open	531	ERIE SE	230	200654 ERIE E	230	1		-0.36099	0.21107	14.7	614.8	
			Open	135277	FALCONER	115	200579 WARREN	115	1		0.30908	-0.09112	-35.9	-295.0	
19579	2859.3	1759.2	L: Interface	23	QFW			1090.5	0.0	-0.38137		-0.27537	1095.5	308.1	
			C:SER:EESR/WF/NWES												
			Open	135251	S RIPLEY	230	200654 ERIE E	230	1		0.36124	-0.21107	11.3	-592.2	
			Open	135277	FALCONER	115	200579 WARREN	115	1		0.31051	-0.09112	-35.9	-296.4	
			Open	130836	N.WAV115	115	200676 E.SAYRE	115	1		0.04852	-0.03017	43.0	-43.3	
19581	2867.4	1763.0	L: Interface	23	QFW			1088.4	-0.0	-0.37959		-0.27537	1095.5	305.9	
			C:SER:EESR/WRFL												
			Open	135251	S RIPLEY	230	200654 ERIE E	230	1		0.36023	-0.21107	11.3	-593.9	
			Open	135277	FALCONER	115	200579 WARREN	115	1		0.30933	-0.09112	-35.9	-297.2	
19589	2874.6	1766.5	L: 130806	GARDV115	115	130858 GIRD115	115	1		-57.5	-239.0	-0.06314	-0.04660	-34.6	-168.5
			C:130799	ERIE 115	115	130801 PAVMT115	115	1	282						
			Open	130799	ERIE 115	115	130801 PAVMT115	115	1		0.35724	-0.04630	-64.2	-197.3	
19598	2895.1	1776.2	L: 130806	GARDV115	115	130858 GIRD115	115	1		-69.3	-239.0	-0.05862	-0.04660	-34.6	-169.5
			C:135398	SW345	345	135564 SW115	115	1	517						
			Open	135398	SW345	345	135564 SW115	115	1		-0.23747	0.05061	146.2	292.8	
19663	2929.5	1792.5	L: 135294	SPVL-151	115	147875 ARCADE	115	1		-47.2	-160.0	-0.03851	-0.02173	-16.2	-79.8
			C:130756	STOLE345	345	135398 SW345	345	1	212						
			Open	130756	STOLE345	345	135398 SW345	345	1		0.13813	-0.12152	-224.5	-580.5	
19671	2933.5	1794.4	L: 135294	SPVL-151	115	147875 ARCADE	115	1		-47.0	-160.0	-0.03851	-0.02173	-16.2	-79.9
			C:SER:STOLLE345/115												
			Open	130756	STOLE345	345	130857 STOLE115	115	1		-0.13813	0.06100	112.2	291.1	
			Open	130756	STOLE345	345	130857 STOLE115	115	2		-0.13813	0.06052	111.2	288.7	

PJMWest-ZoneA-fw-os

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 17 2009 15:53
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-fw-os.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 17 2009 15:53
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-fw-os.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From PENELEC_EXPORT To A_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 26582 violations

Interface-1 Interface 46 PJMWest-A Init.Flow= 392.11 TDF= 0.4441

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
			C: Contingency description	Ncon	Flow	Rating	LODF	Init	Final
1	-169150.	-74723.0	L: Interface 21 PJM-WEST C:GEN:KINTIGH-New	5143.4	0.0	0.03041	0.03569	5112.2	-924.1
			Open 130754 KINTI345 345 130873 KINTIG24 24.0 1				0.00000	0.04880	-288.5 -8542.5
			Open 130754 KINTI345 345 130873 KINTIG24 24.0 2				-0.05401	0.09773	-577.7-17109.2
2	-165567.	-73132.1	L: Interface 21 PJM-WEST C:130754 KINTI345 345 149000 ROCH 345 345 1 205	5140.2	0.0	0.03105	0.03569	5112.2	-796.3
			Open 130754 KINTI345 345 149000 ROCH 345 345 1				0.05331	-0.08705	523.8 14936.3
3	-164317.	-72577.1	L: Interface 21 PJM-WEST C:147834 NIAG 345 345 149000 ROCH 345 345 1 1226	5139.3	0.0	0.03128	0.03569	5112.2	-751.7
			Open 147834 NIAG 345 345 149000 ROCH 345 345 1				0.06429	-0.06860	421.0 11692.7
4	-163104.	-72038.3	L: Interface 21 PJM-WEST C:130751 CNDGUA_T 230 130761 AVOCA230 230 1 197	5122.3	0.0	0.03141	0.03569	5112.2	-708.4
			Open 130751 CNDGUA_T 230 130761 AVOCA230 230 1				0.07559	-0.05664	133.4 9371.8

PJMWest-ZoneA-fw-os

5	-163104.-72038.1	L: Interface	21	PJM-WEST	5122.3	-0.0	0.03141	0.03569	5112.2	-708.4
		C:130761	AVOCA230	230 131154 STONY RIDGE 230 1 216						
		Open	130761	AVOCA230 230 131154 STONY RIDGE 230 1				0.07559	-0.05664	133.2 9371.7
6	-163103.-72037.9	L: Interface	21	PJM-WEST	5122.3	-0.0	0.03141	0.03569	5112.2	-708.4
		C:SER:MEYER_HILLS	SD_68	1603						
		Open	130761	AVOCA230 230 131154 STONY RIDGE 230 1				0.07559	-0.05664	133.2 9371.6
		Open	130751	CNDGUA_T 230 130761 AVOCA230 230 1				-0.09533	0.00000	0.1 0.1
7	-163102.-72037.5	L: Interface	21	PJM-WEST	5122.3	0.0	0.03141	0.03569	5112.2	-708.3
		C:130763	HILSD230	230 131154 STONY RIDGE 230 1 220						
		Open	130763	HILSD230 230 131154 STONY RIDGE 230 1				-0.07559	0.05664	-132.6 -9371.0
8	-163078.-72026.9	L: Interface	21	PJM-WEST	5121.5	-0.0	0.03141	0.03569	5112.2	-707.5
		C:130751	CNDGUA_T	230 130764 MEYER230 230 1 198						
		Open	130751	CNDGUA_T 230 130764 MEYER230 230 1				-0.07559	0.05664	-122.8 -9359.8
9	-159502.-70438.6	L: Interface	21	PJM-WEST	5107.8	-0.0	0.03202	0.03569	5112.2	-579.8
		C:136150	CLAY	345 149001 PANNELL3 345 2 718						
		Open	136150	CLAY 345 149001 PANNELL3 345 2				-0.04974	0.07365	90.0-11657.7
10	-159409.-70397.6	*L: Interface	21	PJM-WEST	5107.8	0.0	0.03204	0.03569	5112.2	-576.5
		C:136150	CLAY	345 149001 PANNELL3 345 1 717						
		Open	136150	CLAY 345 149001 PANNELL3 345 1				-0.04965	0.07341	89.7-11613.0
1755	-66668.7-29213.7	L: Interface	20	PJM-CENT	3342.3	0.0	0.05013	0.01306	3268.7	2398.1
		C:135398	SW345	345 200769 HOMER CY 345 1 1379						
		Open	135398	SW345 345 200769 HOMER CY 345 1				-0.18964	-0.19550	-388.1 12645.7
1756	-66668.7-29213.7	L: Interface	20	PJM-CENT	3342.3	0.0	0.05013	0.01306	3268.7	2398.1
		C:SER:HC-SR_37&W-F_171		1599						
		Open	135398	SW345 345 200769 HOMER CY 345 1				-0.18964	-0.19550	-388.1 12645.7
1757	-56669.8-24773.5	L: Interface	20	PJM-CENT	3497.3	-0.0	0.06171	0.01306	3268.7	2528.7
		C:SER:HCWC/NWES		1606						
		Open	130757	WATRC345 345 200769 HOMER CY 345 1				-0.41542	-0.12160	-544.7 6346.3
		Open	130836	N.WAV115 115 200676 E.SAYRE 115 1				0.05715	-0.03250	42.1 1883.9
1758	-54775.4-23932.2	L: Interface	20	PJM-CENT	3496.1	-0.0	0.06383	0.01306	3268.7	2553.4
		C:SER:HC-WC_30&W-F_171		1600						
		Open	130757	WATRC345 345 200769 HOMER CY 345 1				-0.41750	-0.12160	-544.7 6116.0
1759	-54775.4-23932.2	L: Interface	20	PJM-CENT	3496.1	-0.0	0.06383	0.01306	3268.7	2553.4
		C:130757	WATRC345	345 200769 HOMER CY 345 1 1374						
		Open	130757	WATRC345 345 200769 HOMER CY 345 1				-0.41750	-0.12160	-544.7 6116.0
1760	-54398.6-23764.9	L: Interface	20	PJM-CENT	3485.4	-0.0	0.06407	0.01306	3268.7	2558.4
		C:BUS:WATERCURE_345		1631						
		Open	130757	WATRC345 345 200769 HOMER CY 345 1				-0.42025	-0.12160	-544.7 6070.1
		Open	130757	WATRC345 345 130768 WATRC230 230 1				-0.00611	0.01425	257.2 -517.7
		Open	130755	OAKDL345 345 130757 WATRC345 345 1				-0.46854	0.00000	22.5 22.5
1761	-51277.0-22378.7	L: Interface	20	PJM-CENT	3286.4	-0.0	0.06409	0.01306	3268.7	2599.1
		C:135250	DUNKIRK	230 135251 S RIPLEY 230 1 422						

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		Open 135250 DUNKIRK	230	135251 S RIPLEY	230	1				-0.22162	-0.23028	-80.3	11727.8
1762	-49943.6-21786.5	L: Interface	20	PJM-CENT			3272.5	0.0	0.06552		0.01306	3268.7	2616.5
		C:SER:EESR/NWES											1607
		Open 135251 S RIPLEY	230	200654 ERIE E	230	1				-0.22017	-0.24857	-4.0	12410.6
		Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.06964	-0.03250	42.1	1665.3
1763	-49943.6-21786.5	L: Interface	20	PJM-CENT			3272.5	0.0	0.06552		0.01306	3268.7	2616.5
		C:SER:EESR/WF/NWES											1610
		Open 135251 S RIPLEY	230	200654 ERIE E	230	1				-0.22017	-0.24857	-4.0	12410.6
		Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.06964	-0.03250	42.1	1665.3
1764	-48272.8-21044.6	*L: Interface	20	PJM-CENT			3275.2	-0.0	0.06785		0.01306	3268.7	2638.3
		C:SER:ESEE/WRFL											1609
		Open 270 ERIE SO.	230	531 ERIE SE	230	1				-0.00724	0.18559	32.3	-8926.4
		Open 531 ERIE SE	230	200654 ERIE E	230	1				0.22582	0.24857	30.0	-11969.3
1767	-5269.0 -1947.7	L: Interface	48	PJMWest-C			597.0	0.0	0.11330		0.12160	544.7	-96.0
		C:130755 OAKDL345	345	131128 LAPEER	345	1	209						
		Open 130755 OAKDL345	345	131128 LAPEER	345	1				-0.09109	0.09106	-574.5	-1054.3
1768	-5269.0 -1947.7	L: Interface	47	C-PJMWest			-597.0	-0.0	-0.11330		-0.12160	-544.7	96.0
		C:130755 OAKDL345	345	131128 LAPEER	345	1	209						
		Open 130755 OAKDL345	345	131128 LAPEER	345	1				0.09109	0.09106	-574.5	-1054.3
1769	-5214.3 -1923.4	L: Interface	48	PJMWest-C			598.2	0.0	0.11473		0.12160	544.7	-89.4
		C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392						
		Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				-0.08224	0.08352	-651.4	-1086.9
1770	-5214.3 -1923.4	L: Interface	47	C-PJMWest			-598.2	-0.0	-0.11473		-0.12160	-544.7	89.4
		C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392						
		Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				0.08224	0.08352	-651.4	-1086.9
1771	-5191.4 -1913.3	L: Interface	48	PJMWest-C			631.3	0.0	0.12160		0.12160	544.7	-86.6
		C:HQ-NY-765-New											1777
		Open 147827 MARCY765	765	147828 MASS 765	765	1							NA
		Open 147828 MASS 765	765	180819 CHA-NY	765	1							NA
		Open 147827 MARCY765	765	147833 MARCY T1	345	1				0.02478	0.00008	624.7	624.3
		Open 147827 MARCY765	765	147833 MARCY T1	345	2				0.02478	0.00007	543.6	543.2
		Open 156 MCY765SW	0.0	147827 MARCY765	765	1							NA
		Open 147838 MASS230B	230	147839 MOSES E	230	1				-0.00000	-0.00008	10.4	10.8
		Open 147828 MASS 765	765	147838 MASS230B	230	1							NA
		Open 147837 MASS230A	230	147839 MOSES E	230	1				-0.05548	0.00000	18.8	18.8
		Open 147828 MASS 765	765	147837 MASS230A	230	1							NA
		Open 158 MS765SW2	0.0	147828 MASS 765	765	1							NA
		Open 157 MS765SW1	0.0	147828 MASS 765	765	1							NA
		Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
		Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
		Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
		Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							

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1772	-5191.4	-1913.3	L: Interface	47	C-PJMWest				-631.3	-0.0	-0.12160		-0.12160	-544.7	86.6
			C:HQ-NY-765-New												
															1777
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA				
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA				
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		-0.02478	0.00008	624.7	624.3
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		-0.02478	0.00007	543.6	543.2
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA				
			Open	147838	MASS230B	230	147839	MOSES E	230	1		0.00000	-0.00008	10.4	10.8
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA				
			Open	147837	MASS230A	230	147839	MOSES E	230	1		0.05548	0.00000	18.8	18.8
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA				
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA				
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA				
			Decrease bus	180001	BEA-DLX	13.8	generation by		100.0	percent dispatch					
			Set bus	181319	CHAT G3	120	load to		357.0	MW dispatch					
			Decrease bus	180002	BEA-DL	13.8	generation by		100.0	percent dispatch					
			Set bus	181419	CHAT G4	120	load to		357.0	MW dispatch					
1773	-5144.2	-1892.3	L: Interface	48	PJMWest-C				625.5	-0.0	0.12160		0.12160	544.7	-80.9
			C:GEN:9 MI PT2												1560
			Remove unit 2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch					
1774	-5144.2	-1892.3	L: Interface	47	C-PJMWest				-625.5	0.0	-0.12160		-0.12160	-544.7	80.9
			C:GEN:9 MI PT2												1560
			Remove unit 2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch					
1775	-5050.0	-1850.5	L: Interface	48	PJMWest-C				478.3	0.0	0.09472		0.12160	544.7	-69.4
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open	130755	OAKDL345	345	130757	WATRC345	345	1		0.25039	-0.10735	-264.9	277.2
1776	-5050.0	-1850.5	L: Interface	47	C-PJMWest				-478.3	-0.0	-0.09472		-0.12160	-544.7	69.4
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open	130755	OAKDL345	345	130757	WATRC345	345	1		-0.25039	-0.10735	-264.9	277.2
1777	-5041.1	-1846.5	L: Interface	47	C-PJMWest				-613.0	-0.0	-0.12160		-0.12160	-544.7	68.3
			C:SIN:250												1676
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2		-0.00000	0.00000	-0.1	-0.1
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
1778	-5041.1	-1846.5	L: Interface	48	PJMWest-C				613.0	0.0	0.12160		0.12160	544.7	-68.3
			C:SIN:250												1676
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
1779	-5040.5	-1846.3	L: Interface	48	PJMWest-C				612.9	-0.0	0.12160		0.12160	544.7	-68.3
			C:GEN:SEAB&OMS												1574
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1
			Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch					
1780	-5040.5	-1846.3	L: Interface	47	C-PJMWest				-612.9	0.0	-0.12160		-0.12160	-544.7	68.3

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			C:GEN:SEABROOK			1572							
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
1781	-5040.5	-1846.3	L: Interface 47 C-PJMWest					-612.9	0.0	-0.12160	-0.12160	-544.7	68.3
			C:GEN:SEAB&OMS			1574							
			Open 100508 SANDB115 115 100509 SB RCTOR		115	2				-0.00000	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
1782	-5040.5	-1846.3	L: Interface 48 PJMWest-C					612.9	-0.0	0.12160	0.12160	544.7	-68.3
			C:GEN:SEABROOK			1572							
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
1783	-5034.1	-1843.4	L: Interface 47 C-PJMWest					-575.1	-0.0	-0.11423	-0.12160	-544.7	67.5
			C:130764 MEYER230 230 131122 WTHRS230	230	1	221							
			Open 130764 MEYER230 230 131122 WTHRS230	230	1					0.12830	0.05740	-236.9	-525.9
1784	-5034.1	-1843.4	L: Interface 48 PJMWest-C					575.1	0.0	0.11423	0.12160	544.7	-67.5
			C:130764 MEYER230 230 131122 WTHRS230	230	1	221							
			Open 130764 MEYER230 230 131122 WTHRS230	230	1					-0.12830	0.05740	-236.9	-525.9
1785	-5022.9	-1838.4	*L: Interface 48 PJMWest-C					573.8	-0.0	0.11423	0.12160	544.7	-66.1
			C:130770 SHLDN230 230 131122 WTHRS230	230	1	228							
			Open 130770 SHLDN230 230 131122 WTHRS230	230	1					0.12830	-0.05740	227.0	515.3
1786	-5022.9	-1838.4	*L: Interface 47 C-PJMWest					-573.8	0.0	-0.11423	-0.12160	-544.7	66.1
			C:130770 SHLDN230 230 131122 WTHRS230	230	1	228							
			Open 130770 SHLDN230 230 131122 WTHRS230	230	1					-0.12830	-0.05740	227.0	515.3
5293	-3661.1	-1233.7	L: Interface 51 G-PJMEast					-124.3	0.0	-0.03395	-0.00000	-0.3	-0.3
			C:SER:HCWC/NWES			1606							
			Open 130757 WATRC345 345 200769 HOMER CY	345	1					0.23925	-0.12160	-544.7	-99.5
			Open 130836 N.WAV115 115 200676 E.SAYRE	115	1					0.14935	-0.03250	42.1	161.1
5294	-3661.1	-1233.7	L: Interface 52 PJMEast-G					124.3	-0.0	0.03395	0.00000	0.3	0.3
			C:SER:HCWC/NWES			1606							
			Open 130757 WATRC345 345 200769 HOMER CY	345	1					-0.23925	-0.12160	-544.7	-99.5
			Open 130836 N.WAV115 115 200676 E.SAYRE	115	1					-0.14935	-0.03250	42.1	161.1
5295	-3502.9	-1163.4	L: Interface 52 PJMEast-G					119.0	-0.0	0.03396	0.00000	0.3	0.3
			C:BUS:WATERCURE_345			1631							
			Open 130757 WATRC345 345 200769 HOMER CY	345	1					-0.29537	-0.12160	-544.7	-118.7
			Open 130757 WATRC345 345 130768 WATRC230	230	1					-0.13702	0.01425	257.2	207.3
			Open 130755 OAKDL345 345 130757 WATRC345	345	1					-0.30715	0.00000	22.5	22.5
5296	-3502.9	-1163.4	L: Interface 51 G-PJMEast					-119.0	0.0	-0.03396	-0.00000	-0.3	-0.3
			C:BUS:WATERCURE_345			1631							
			Open 130757 WATRC345 345 200769 HOMER CY	345	1					0.29537	-0.12160	-544.7	-118.7
			Open 130757 WATRC345 345 130768 WATRC230	230	1					0.13702	0.01425	257.2	207.3
			Open 130755 OAKDL345 345 130757 WATRC345	345	1					0.30715	0.00000	22.5	22.5
5299	-1297.4	-184.0	L: Interface 52 PJMEast-G					46.6	0.0	0.03591	0.00000	0.3	0.3
			C:LKWANA-OXBW			1650							
			Open 417 OXBOW 230 3070 LACKAWNA	230	1					-0.38099	-0.09426	-121.6	0.7

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5300	-1297.4	-184.0	L: Interface 51 G-PJMEast									-46.6	-0.0	-0.03591		-0.00000		-0.3	-0.3
			C:LKWANA-OXBW																
			Open 417 OXBOW	230	3070	LACKAWNA	230	1								0.38099	-0.09426	-121.6	0.7
5301	-355.0	234.4	L: Interface 52 PJMEast-G									13.9	0.0	0.03927		0.00000		0.3	0.3
			C:135250 DUNKIRK	230	135251	S RIPLEY	230	1	422										
			Open 135250 DUNKIRK	230	135251	S RIPLEY	230	1								-0.17055	-0.23028	-80.3	1.5
5302	-355.0	234.4	L: Interface 51 G-PJMEast									-13.9	-0.0	-0.03927		-0.00000		-0.3	-0.3
			C:135250 DUNKIRK	230	135251	S RIPLEY	230	1	422										
			Open 135250 DUNKIRK	230	135251	S RIPLEY	230	1								0.17055	-0.23028	-80.3	1.5
5303	-126.8	335.8	L: Interface 52 PJMEast-G									5.4	0.0	0.04241		0.00000		0.3	0.3
			C:SER:ESEE/WRFL																
			Open 270 ERIE SO.	230	531	ERIE SE	230	1								0.00053	0.18559	32.3	8.8
			Open 531 ERIE SE	230	200654	ERIE E	230	1								0.17024	0.24857	30.0	-1.5
5304	-126.8	335.8	L: Interface 51 G-PJMEast									-5.4	-0.0	-0.04241		-0.00000		-0.3	-0.3
			C:SER:ESEE/WRFL																
			Open 270 ERIE SO.	230	531	ERIE SE	230	1								-0.00053	0.18559	32.3	8.8
			Open 531 ERIE SE	230	200654	ERIE E	230	1								-0.17024	0.24857	30.0	-1.5
5305	-22.3	382.2	L: Interface 51 G-PJMEast									-0.9	0.0	-0.04239		-0.00000		-0.3	-0.3
			C:SER:EESR/WRFL																
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1								0.17055	-0.24857	-4.0	1.5
5306	-22.3	382.2	L: Interface 51 G-PJMEast									-0.9	0.0	-0.04239		-0.00000		-0.3	-0.3
			C:135251 S RIPLEY	230	200654	ERIE E	230	1	1378										
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1								0.17055	-0.24857	-4.0	1.5
5307	-22.3	382.2	L: Interface 52 PJMEast-G									0.9	-0.0	0.04239		0.00000		0.3	0.3
			C:135251 S RIPLEY	230	200654	ERIE E	230	1	1378										
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1								-0.17055	-0.24857	-4.0	1.5
5308	-22.3	382.2	L: Interface 52 PJMEast-G									0.9	-0.0	0.04239		0.00000		0.3	0.3
			C:SER:EESR/WRFL																
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1								-0.17055	-0.24857	-4.0	1.5
5309	106.4	439.4	L: Interface 51 G-PJMEast									5.1	0.0	-0.04780		-0.00000		-0.3	-0.3
			C:SER:EESR/NWES																
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1								0.17353	-0.24857	-4.0	-30.5
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1								0.14355	-0.03250	42.1	38.6
5310	106.4	439.4	L: Interface 51 G-PJMEast									5.1	0.0	-0.04780		-0.00000		-0.3	-0.3
			C:SER:EESR/WF/NWES																
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1								0.17353	-0.24857	-4.0	-30.5
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1								0.14355	-0.03250	42.1	38.6
5311	106.4	439.4	L: Interface 52 PJMEast-G									-5.1	-0.0	0.04780		0.00000		0.3	0.3
			C:SER:EESR/NWES																
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1								-0.17353	-0.24857	-4.0	-30.5
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1								-0.14355	-0.03250	42.1	38.6
5312	106.4	439.4	L: Interface 52 PJMEast-G									-5.1	-0.0	0.04780		0.00000		0.3	0.3

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			C:SER:EESR/WF/NWES		1610								
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1		-0.17353	-0.24857	-4.0	-30.5
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.14355	-0.03250	42.1	38.6
5313	366.1	554.7	L: Interface	49		C-PJMCentral			58.2	-0.0	-0.15888	-0.14217	195.4 143.4
			C:SER:HCWC/NWES					1606					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.22633	-0.12160	-544.7	-589.2
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.33280	-0.03250	42.1	30.2
5314	366.1	554.7	L: Interface	50		PJMCentral-C			-58.2	0.0	0.15888	0.14217	-195.4 -143.4
			C:SER:HCWC/NWES					1606					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.22633	-0.12160	-544.7	-589.2
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.33280	-0.03250	42.1	30.2
5315	383.0	562.2	L: Interface	50		PJMCentral-C			-65.6	-0.0	0.17117	0.14217	-195.4 -141.0
			C:SER:HC-WC_30&W-F_171					1600					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.23848	-0.12160	-544.7	-591.2
5316	383.0	562.2	L: Interface	49		C-PJMCentral			65.6	0.0	-0.17117	-0.14217	195.4 141.0
			C:SER:HC-WC_30&W-F_171					1600					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.23848	-0.12160	-544.7	-591.2
5317	383.0	562.2	L: Interface	49		C-PJMCentral			65.6	0.0	-0.17117	-0.14217	195.4 141.0
			C:130757 WATRC345	345	200769	HOMER CY	345	1 1374					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.23848	-0.12160	-544.7	-591.2
5318	383.0	562.2	L: Interface	50		PJMCentral-C			-65.6	-0.0	0.17117	0.14217	-195.4 -141.0
			C:130757 WATRC345	345	200769	HOMER CY	345	1 1374					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.23848	-0.12160	-544.7	-591.2
5319	407.6	573.1	L: Interface	50		PJMCentral-C			-66.4	-0.0	0.16283	0.14217	-195.4 -137.5
			C:BUS:WATERCURE_345					1631					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.14573	-0.12160	-544.7	-594.2
			Open 130757 WATRC345	345	130768	WATRC230	230	1		0.20641	0.01425	257.2	263.0
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.15014	0.00000	22.5	22.5
5320	407.6	573.1	L: Interface	49		C-PJMCentral			66.4	0.0	-0.16283	-0.14217	195.4 137.5
			C:BUS:WATERCURE_345					1631					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.14573	-0.12160	-544.7	-594.2
			Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.20641	0.01425	257.2	263.0
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.15014	0.00000	22.5	22.5
5321	727.7	715.3	L: Interface	49		C-PJMCentral			103.5	0.0	-0.14217	-0.14217	195.4 92.0
			C:GEN:9 MI PT2					1560					
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW dispatch							
5322	727.7	715.3	L: Interface	50		PJMCentral-C			-103.5	-0.0	0.14217	0.14217	-195.4 -92.0
			C:GEN:9 MI PT2					1560					
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW dispatch							
5323	771.0	734.5	L: Interface	49		C-PJMCentral			109.6	0.0	-0.14217	-0.14217	195.4 85.8
			C:HQ-NY-765-New					1777					
			Open 147827 MARCY765	765	147828	MASS 765	765	1		NA			

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			Open 147828 MASS 765	765 180819	CHA-NY	765 1	NA						
			Open 147827 MARCY765	765 147833	MARCY T1	345 1		-0.01614	0.00008	624.7	624.7		
			Open 147827 MARCY765	765 147833	MARCY T1	345 2		-0.01614	0.00007	543.6	543.6		
			Open 156 MCY765SW	0.0 147827	MARCY765	765 1	NA						
			Open 147838 MASS230B	230 147839	MOSES E	230 1		0.00000	-0.00008	10.4	10.3		
			Open 147828 MASS 765	765 147838	MASS230B	230 1	NA						
			Open 147837 MASS230A	230 147839	MOSES E	230 1		0.06122	0.00000	18.8	18.8		
			Open 147828 MASS 765	765 147837	MASS230A	230 1	NA						
			Open 158 MS765SW2	0.0 147828	MASS 765	765 1	NA						
			Open 157 MS765SW1	0.0 147828	MASS 765	765 1	NA						
			Decrease bus 180001 BEA-DLX	13.8 generation by		100.0 percent dispatch							
			Set bus 181319 CHAT G3	120 load to		357.0 MW dispatch							
			Decrease bus 180002 BEA-DL	13.8 generation by		100.0 percent dispatch							
			Set bus 181419 CHAT G4	120 load to		357.0 MW dispatch							
5324	771.0	734.5	L: Interface 50 PJMCentral-C					-109.6	-0.0	0.14217	0.14217	-195.4	-85.8
			C:HQ-NY-765-New			1777							
			Open 147827 MARCY765	765 147828	MASS 765	765 1	NA						
			Open 147828 MASS 765	765 180819	CHA-NY	765 1	NA						
			Open 147827 MARCY765	765 147833	MARCY T1	345 1		0.01614	0.00008	624.7	624.7		
			Open 147827 MARCY765	765 147833	MARCY T1	345 2		0.01614	0.00007	543.6	543.6		
			Open 156 MCY765SW	0.0 147827	MARCY765	765 1	NA						
			Open 147838 MASS230B	230 147839	MOSES E	230 1		-0.00000	-0.00008	10.4	10.3		
			Open 147828 MASS 765	765 147838	MASS230B	230 1	NA						
			Open 147837 MASS230A	230 147839	MOSES E	230 1		-0.06122	0.00000	18.8	18.8		
			Open 147828 MASS 765	765 147837	MASS230A	230 1	NA						
			Open 158 MS765SW2	0.0 147828	MASS 765	765 1	NA						
			Open 157 MS765SW1	0.0 147828	MASS 765	765 1	NA						
			Decrease bus 180001 BEA-DLX	13.8 generation by		100.0 percent dispatch							
			Set bus 181319 CHAT G3	120 load to		357.0 MW dispatch							
			Decrease bus 180002 BEA-DL	13.8 generation by		100.0 percent dispatch							
			Set bus 181419 CHAT G4	120 load to		357.0 MW dispatch							
5325	893.4	788.9	L: Interface 49 C-PJMCentral					127.0	0.0	-0.14217	-0.14217	195.4	68.4
			C:126250 RAMAPO 5	500 126296	RAM PAR	345 1	78						
			Open 126250 RAMAPO 5	500 126296	RAM PAR	345 1		-0.06837	0.00000	1000.9	1000.9		
5326	893.4	788.9	L: Interface 50 PJMCentral-C					-127.0	-0.0	0.14217	0.14217	-195.4	-68.4
			C:126250 RAMAPO 5	500 126296	RAM PAR	345 1	78						
			Open 126250 RAMAPO 5	500 126296	RAM PAR	345 1		0.06837	0.00000	1000.9	1000.9		
5327	893.4	788.9	L: Interface 50 PJMCentral-C					-127.0	0.0	0.14217	0.14217	-195.4	-68.4
			C: 91 JEFFERSN	500 126250	RAMAPO 5	500 1	1351						
			Open 91 JEFFERSN	500 126250	RAMAPO 5	500 1		0.06837	0.00000	1000.9	1000.9		
5328	893.4	788.9	L: Interface 49 C-PJMCentral					127.0	-0.0	-0.14217	-0.14217	195.4	68.4
			C: 91 JEFFERSN	500 126250	RAMAPO 5	500 1	1351						

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			Open	91	JEFFERSN	500	126250	RAMAPO	5	500	1					-0.06837	0.00000	1000.9	1000.9			
5329	922.9	801.9	L: Interface	50	PJMCentral-C											-134.3	-0.0	0.14555	0.14217	-195.4	-64.2	
			C:130757	WATRC345	345	130768	WATRC230	230	1	213												
			Open	130757	WATRC345	345	130768	WATRC230	230	1									0.23762	0.01425	257.2	270.4
5330	922.9	801.9	L: Interface	49	C-PJMCentral											134.3	0.0	-0.14555	-0.14217	195.4	64.2	
			C:130757	WATRC345	345	130768	WATRC230	230	1	213												
			Open	130757	WATRC345	345	130768	WATRC230	230	1									-0.23762	0.01425	257.2	270.4
5331	939.4	809.3	*L: Interface	50	PJMCentral-C											-133.4	-0.0	0.14200	0.14217	-195.4	-61.9	
			C:BUS:WATERCURE_230							1632												
			Open	130768	WATRC230	230	130772	SHRED230	230	1									-0.25414	0.01820	71.5	88.6
			Open	130757	WATRC345	345	130768	WATRC230	230	1									0.31261	0.01425	257.2	270.6
			Open	130763	HILSD230	230	130768	WATRC230	230	1									-0.40345	0.00000	0.5	0.5
5332	939.4	809.3	*L: Interface	49	C-PJMCentral											133.4	0.0	-0.14200	-0.14217	195.4	61.9	
			C:BUS:WATERCURE_230							1632												
			Open	130768	WATRC230	230	130772	SHRED230	230	1									0.25414	0.01820	71.5	88.6
			Open	130757	WATRC345	345	130768	WATRC230	230	1									-0.31261	0.01425	257.2	270.6
			Open	130763	HILSD230	230	130768	WATRC230	230	1									0.40345	0.00000	0.5	0.5
5339	1027.6	848.5	L: Interface	19	PJM-NY											2386.6	3114.0	0.70784	0.70784	1491.9	2219.3	
			C:GEN:SEAB&OMS							1574												
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2								-0.00004	0.00000	-0.1	-0.1
			Remove unit 1	from bus	102869	SBRK	G1	25.0	1318.0	MW	dispatch											
5340	1027.6	848.5	L: Interface	35	NY-PJM											-2386.6	-3114.0	-0.70784	-0.70784	-1491.9	-2219.3	
			C:GEN:SEAB&OMS							1574												
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2								0.00004	0.00000	-0.1	-0.1
			Remove unit 1	from bus	102869	SBRK	G1	25.0	1318.0	MW	dispatch											
5341	1027.6	848.5	L: Interface	19	PJM-NY											2386.6	3114.0	0.70784	0.70784	1491.9	2219.3	
			C:GEN:SEABROOK							1572												
			Remove unit 1	from bus	102869	SBRK	G1	25.0	1318.0	MW	dispatch											
5342	1027.6	848.5	L: Interface	35	NY-PJM											-2386.6	-3114.0	-0.70784	-0.70784	-1491.9	-2219.3	
			C:GEN:SEABROOK							1572												
			Remove unit 1	from bus	102869	SBRK	G1	25.0	1318.0	MW	dispatch											
5347	1033.6	851.1	L: Interface	19	PJM-NY											2382.4	3114.0	0.70784	0.70784	1491.9	2223.5	
			C:SIN:250							1676												
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2								-0.00004	0.00000	-0.1	-0.1
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch												
5348	1033.6	851.1	L: Interface	35	NY-PJM											-2382.4	-3114.0	-0.70784	-0.70784	-1491.9	-2223.5	
			C:SIN:250							1676												
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2								0.00004	0.00000	-0.1	-0.1
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch												
5353	1049.9	858.4	L: Interface	19	PJM-NY											2370.8	3114.0	0.70784	0.70784	1491.9	2235.1	
			C:GEN:MILLST 3							1571												
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch												

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5354	1049.9	858.4	L: Interface	19	PJM-NY					2370.8	3114.0	0.70784		0.70784	1491.9	2235.1	
			C:GEN:MLS3&OMS														
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1
			Remove unit	3	from bus	103563	MILL#3			24.0	1276.0	MW	dispatch				
5355	1049.9	858.4	L: Interface	35	NY-PJM					-2370.8	-3114.0	-0.70784		-0.70784	-1491.9	-2235.1	
			C:GEN:MILLST 3														
			Remove unit	3	from bus	103563	MILL#3			24.0	1276.0	MW	dispatch				
5356	1049.9	858.4	L: Interface	35	NY-PJM					-2370.8	-3114.0	-0.70784		-0.70784	-1491.9	-2235.1	
			C:GEN:MLS3&OMS														
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2			0.00004	0.00000	-0.1	-0.1
			Remove unit	3	from bus	103563	MILL#3			24.0	1276.0	MW	dispatch				
5365	1115.3	887.4	L: Interface	19	PJM-NY					2324.5	3114.0	0.70786		0.70784	1491.9	2281.3	
			C:HQ-NY-765-New														
			Open	147827	MARCY765	765	147828	MASS	765	765	1		NA				
			Open	147828	MASS 765	765	180819	CHA	NY	765	1		NA				
			Open	147827	MARCY765	765	147833	MARCY	T1	345	1			0.14641	0.00008	624.7	624.8
			Open	147827	MARCY765	765	147833	MARCY	T1	345	2			0.14641	0.00007	543.6	543.7
			Open	156	MCY765SW	0.0	147827	MARCY	765	765	1		NA				
			Open	147838	MASS230B	230	147839	MOSES	E	230	1			0.00000	-0.00008	10.4	10.3
			Open	147828	MASS 765	765	147838	MASS	230B	230	1		NA				
			Open	147837	MASS230A	230	147839	MOSES	E	230	1			-0.60709	0.00000	18.8	18.8
			Open	147828	MASS 765	765	147837	MASS	230A	230	1		NA				
			Open	158	MS765SW2	0.0	147828	MASS	765	765	1		NA				
			Open	157	MS765SW1	0.0	147828	MASS	765	765	1		NA				
			Decrease bus	180001	BEA-DLX	13.8	generation	by		100.0	percent	dispatch					
			Set bus	181319	CHAT G3	120	load	to		357.0	MW	dispatch					
			Decrease bus	180002	BEA-DL	13.8	generation	by		100.0	percent	dispatch					
			Set bus	181419	CHAT G4	120	load	to		357.0	MW	dispatch					
5366	1115.3	887.4	L: Interface	35	NY-PJM					-2324.5	-3114.0	-0.70786		-0.70784	-1491.9	-2281.3	
			C:HQ-NY-765-New														
			Open	147827	MARCY765	765	147828	MASS	765	765	1		NA				
			Open	147828	MASS 765	765	180819	CHA	NY	765	1		NA				
			Open	147827	MARCY765	765	147833	MARCY	T1	345	1			-0.14641	0.00008	624.7	624.8
			Open	147827	MARCY765	765	147833	MARCY	T1	345	2			-0.14641	0.00007	543.6	543.7
			Open	156	MCY765SW	0.0	147827	MARCY	765	765	1		NA				
			Open	147838	MASS230B	230	147839	MOSES	E	230	1			-0.00000	-0.00008	10.4	10.3
			Open	147828	MASS 765	765	147838	MASS	230B	230	1		NA				
			Open	147837	MASS230A	230	147839	MOSES	E	230	1			0.60709	0.00000	18.8	18.8
			Open	147828	MASS 765	765	147837	MASS	230A	230	1		NA				
			Open	158	MS765SW2	0.0	147828	MASS	765	765	1		NA				
			Open	157	MS765SW1	0.0	147828	MASS	765	765	1		NA				
			Decrease bus	180001	BEA-DLX	13.8	generation	by		100.0	percent	dispatch					

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			Set bus 181319 CHAT G3	120	load to	357.0 MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0 percent dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0 MW dispatch							
5403	1205.8	927.6	L: Interface 35 NY-PJM				-2260.5	-3114.0	-0.70784		-0.70784	-1491.9	-2345.4
			C:GEN:IND PT 3			1554							
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8 MW dispatch								
5404	1205.8	927.6	L: Interface 19 PJM-NY				2260.5	3114.0	0.70784		0.70784	1491.9	2345.4
			C:GEN:IND PT 3			1554							
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8 MW dispatch								
5409	1220.0	933.9	L: Interface 19 PJM-NY				2250.4	3114.0	0.70784		0.70784	1491.9	2355.4
			C:GEN:IND PT 2			1553							
			Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7 MW dispatch								
5410	1220.0	933.9	L: Interface 35 NY-PJM				-2250.4	-3114.0	-0.70784		-0.70784	-1491.9	-2355.4
			C:GEN:IND PT 2			1553							
			Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7 MW dispatch								
5411	1228.1	937.5	L: Interface 26 ONTARIO-MICH				358.8	0.0	-0.29216		-0.29216	729.4	370.7
			C:GEN:BRUCE 6			1563							
			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5 MW dispatch								
5414	1232.0	939.2	L: Interface 19 PJM-NY				2241.9	3114.0	0.70784		0.70784	1491.9	2363.9
			C:GEN:9 MI PT2			1560							
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW dispatch								
5415	1232.0	939.2	L: Interface 35 NY-PJM				-2241.9	-3114.0	-0.70784		-0.70784	-1491.9	-2363.9
			C:GEN:9 MI PT2			1560							
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW dispatch								
5416	1237.2	941.5	*L: Interface 35 NY-PJM				-2238.2	-3114.0	-0.70784		-0.70784	-1491.9	-2367.6
			C:GEN:IND PT 3-New			1774							
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	1				0.00000	0.00000	522.5	522.5	
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	2				0.71644	0.00000	-1041.8	-1041.8	
5417	1237.2	941.5	*L: Interface 19 PJM-NY				2238.2	3114.0	0.70784		0.70784	1491.9	2367.6
			C:GEN:IND PT 3-New			1774							
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	1				0.00000	0.00000	522.5	522.5	
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	2				-0.71644	0.00000	-1041.8	-1041.8	
5426	1272.9	957.4	L: 130801 PAVMT115 115 130857 STOLE115 115 1				-103.9	-179.0	-0.05901		-0.04465	-75.2	-132.0
			C:135398 SW345 345 135564 SW115 115 1 517										
			Open 135398 SW345 345 135564 SW115 115 1						-0.18214	0.07883	157.8	258.1	
5427	1275.0	958.3	L: 130801 PAVMT115 115 130857 STOLE115 115 1				-99.2	-179.0	-0.06258		-0.04465	-75.2	-132.1
			C:130857 STOLE115 115 130858 GIRD115 115 1 367										
			Open 130857 STOLE115 115 130858 GIRD115 115 1						-0.37817	0.04741	63.6	124.1	
5458	1305.2	971.7	*L: Interface 51 G-PJMEast				47.8	0.0	-0.03664		-0.00000	-0.3	-0.3
			C:SER:C398/NWES 1604										
			Open 409 GROVER 230 200675 E.TWANDA 230 1						0.02472	0.00398	-15.4	-10.2	
			Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.31146	-0.08577	115.8	3.9	

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			Open	381	TOWANDA	115	200675	E.TWANDA	230	1		0.01195	0.00131	-52.0	-50.3		
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.30893	-0.03250	42.1	-0.3		
5459	1305.2	971.7	*L: Interface	52	PJMEast-G							-47.8	-0.0	0.03664	0.00000	0.3	0.3
			C:SER:C398/NWES							1604							
			Open	409	GROVER	230	200675	E.TWANDA	230	1		-0.02472	0.00398	-15.4	-10.2		
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		-0.31146	-0.08577	115.8	3.9		
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1		-0.01195	0.00131	-52.0	-50.3		
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		-0.30893	-0.03250	42.1	-0.3		
5628	1360.4	996.2	L: Interface	26	ONTARIO-MICH							391.8	0.0	-0.28799	-0.29216	729.4	332.0
			C:LAMBT7/LAMGEN							1645							
			Open	160050	LAMB L4D	345	B\$1020	LAMBTON T7	1.00	T7		0.06559	0.06358	-232.6	-146.1		
			Open	160064	LAMB T78	220	B\$1020	LAMBTON T7	1.00	T7		0.72712	0.00000	0.3	0.3		
			Set	bus	160705	LAMBTNG4	24.0	generation to			0.0	MW dispatch					
5633	1360.8	996.4	L: Interface	26	ONTARIO-MICH							392.0	0.0	-0.28803	-0.29216	729.4	331.9
			C:LAMBT8/LAMGEN							1646							
			Open	160050	LAMB L4D	345	B\$1021	LAMBTON T8	1.00	T8		0.06537	0.06310	-230.7	-144.9		
			Open	160064	LAMB T78	220	B\$1021	LAMBTON T8	1.00	T8		0.72728	0.00000	0.4	0.4		
			Set	bus	160705	LAMBTNG4	24.0	generation to			0.0	MW dispatch					
8812	1481.6	1050.0	L: 130799	ERIE	115	115	130801	PAVMT115	115	1		-92.1	-179.0	-0.05864	-0.04427	-63.4	-128.9
			C:135398	SW345		345	135564	SW115	115	1	517						
			Open	135398	SW345	345	135564	SW115	115	1		-0.18229	0.07883	157.8	274.6		
8829	1489.8	1053.7	L: 130799	ERIE	115	115	130801	PAVMT115	115	1		-86.9	-179.0	-0.06182	-0.04427	-63.4	-129.3
			C:130857	STOLE115		115	130858	GIRD115	115	1	367						
			Open	130857	STOLE115	115	130858	GIRD115	115	1		-0.37009	0.04741	63.6	134.3		
8832	1502.4	1059.3	L: Interface	26	ONTARIO-MICH							432.7	-0.0	-0.28799	-0.29216	729.4	290.5
			C:L4D+G3							1643							
			Open	160050	LAMB L4D	345	B\$1020	LAMBTON T7	1.00	T7		0.06559	0.06358	-232.6	-137.1		
			Open	160064	LAMB T78	220	B\$1020	LAMBTON T7	1.00	T7		0.72712	0.00000	0.3	0.3		
			Open	160069	LAMBTPK2	220	160704	LAMBTNG3	24.0	T3		0.65841	0.00000	62.1	62.1		
			Remove unit 1	from bus	160704	LAMBTNG3	24.0	490.0	MW	dispatch							
8833	1502.8	1059.5	L: Interface	26	ONTARIO-MICH							432.9	-0.0	-0.28803	-0.29216	729.4	290.4
			C:L51D+G3							1644							
			Open	160050	LAMB L4D	345	B\$1021	LAMBTON T8	1.00	T8		0.06537	0.06310	-230.7	-135.9		
			Open	160064	LAMB T78	220	B\$1021	LAMBTON T8	1.00	T8		0.72728	0.00000	0.4	0.4		
			Open	160069	LAMBTPK2	220	160704	LAMBTNG3	24.0	T3		0.65852	0.00000	62.1	62.1		
			Remove unit 1	from bus	160704	LAMBTNG3	24.0	490.0	MW	dispatch							
8834	1505.9	1060.8	L: 130801	PAVMT115	115	115	130857	STOLE115	115	1		-87.4	-179.0	-0.06086	-0.04465	-75.2	-142.4
			C:130806	GARDV115		115	130858	GIRD115	115	1	295						
			Open	130806	GARDV115	115	130858	GIRD115	115	1		0.36239	-0.04473	-33.7	-101.0		
8837	1522.3	1068.1	L: 130757	WATRC345	345	345	130768	WATRC230	230	1		455.8	600.0	0.09472	0.01425	257.2	278.9
			C:130755	OAKDL345		345	130757	WATRC345	345	1	206						
			Open	130755	OAKDL345	345	130757	WATRC345	345	1		-0.74961	-0.10735	-264.9	-428.4		

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8854	1551.5	1081.1	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-192.2	-637.0	-0.28668	-0.23028	-80.3	-437.5	
			C:SER:HC-SR_37&W-F_171				1599							
			Open 135398 SW345	345	200769 HOMER CY	345	1				0.28848	-0.19550	-388.1	-691.4
8855	1551.5	1081.1	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-192.2	-637.0	-0.28668	-0.23028	-80.3	-437.5	
			C:135398 SW345	345	200769 HOMER CY	345	1 1379							
			Open 135398 SW345	345	200769 HOMER CY	345	1				0.28848	-0.19550	-388.1	-691.4
8880	1630.1	1116.0	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-97.6	-179.0	-0.04991	-0.04465	-75.2	-147.9	
			C:SER:HCWC/NWES				1606							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04174	-0.12160	-544.7	-742.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00587	-0.03250	42.1	-10.9
8883	1634.5	1118.0	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-97.8	-179.0	-0.04970	-0.04465	-75.2	-148.1	
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04152	-0.12160	-544.7	-743.4
8884	1634.5	1118.0	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-97.8	-179.0	-0.04970	-0.04465	-75.2	-148.1	
			C:SER:HC-WC_30&W-F_171				1600							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04152	-0.12160	-544.7	-743.4
8887	1640.3	1120.5	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-97.5	-179.0	-0.04971	-0.04465	-75.2	-148.4	
			C:BUS:WATERCURE_345				1631							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04169	-0.12160	-544.7	-744.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.00037	0.01425	257.2	280.6
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.01362	0.00000	22.5	22.5
8890	1695.4	1145.0	L: Interface 26 ONTARIO-MICH					495.3	0.0	-0.29214	-0.29216	729.4	234.1	
			C:HQ-NY-765-New				1777							
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				0.13601	0.00008	624.7	624.8
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				0.13601	0.00007	543.6	543.7
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1				0.00000	-0.00008	10.4	10.2
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1				0.36062	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
8897	1706.1	1149.7	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-75.6	-179.0	-0.06058	-0.04427	-63.4	-138.9	
			C:130806 GARDV115	115	130858 GIRD115	115	1 295							
			Open 130806 GARDV115	115	130858 GIRD115	115	1				0.36472	-0.04473	-33.7	-110.0
8898	1708.4	1150.8	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-116.0	-637.0	-0.30497	-0.24857	-4.0	-428.7	

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			C:SER:HC-SR_37&W-F_171				1599														
			Open 135398 SW345	345	200769	HOMER	CY	345	1					0.28848	-0.19550	-388.1	-722.1				
8899	1708.4	1150.8	L: 135251 S RIPLEY	230	200654	ERIE	E	230	1	-116.0	-637.0	-0.30497		-0.24857	-4.0	-428.7					
			C:135398 SW345	345	200769	HOMER	CY	345	1	1379											
			Open 135398 SW345	345	200769	HOMER	CY	345	1					0.28848	-0.19550	-388.1	-722.1				
8900	1710.5	1151.7	L: 130801 PAVMT115	115	130857	STOLE115		115	1	-88.7	-179.0	-0.05276		-0.04465	-75.2	-151.5					
			C:130806 GARDV115	115	135450	GRDNVL1		115	1	297											
			Open 130806 GARDV115	115	135450	GRDNVL1		115	1					-0.12147	0.06680	111.9	226.2				
8901	1719.3	1155.6	L: Interface	26	ONTARIO-MICH					502.3	0.0	-0.29216		-0.29216	729.4	227.1					
			C:GEN:9 MI PT2							1560											
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch														
8902	1729.7	1160.2	L: 130757 WATRC345	345	200769	HOMER	CY	345	1	-544.7	-755.0	-0.12160									
			Base Case																		
8903	1729.7	1160.2	L: Interface	47	C-PJMWest					-544.7	-755.0	-0.12160									
			Base Case																		
8904	1729.7	1160.2	L: Interface	48	PJMWest-C					544.7	755.0	0.12160									
			Base Case																		
8907	1744.6	1166.8	L: 135250 DUNKIRK	230	135251	S RIPLEY		230	1	-80.3	-482.0	-0.23028									
			Base Case																		
8912	1752.9	1170.5	L: Interface	26	ONTARIO-MICH					512.1	-0.0	-0.29216		-0.29216	729.4	217.3					
			C:GEN:NANTCK 8							1564											
			Remove unit 1 from bus 158743 NANTICG8	22.0	490.0	MW	dispatch														
8913	1754.9	1171.4	L: Interface	26	ONTARIO-MICH					512.7	-0.0	-0.29216		-0.29216	729.4	216.7					
			C:GEN:PICKER 6							1565											
			Remove unit 1 from bus 156683 PIC B G5	24.0	510.9	MW	dispatch														
8928	1850.3	1213.8	L: 130801 PAVMT115	115	130857	STOLE115		115	1	-86.3	-179.0	-0.05008		-0.04465	-75.2	-157.8					
			C:130857 STOLE115	115	131466	DAVIS115		115	1	368											
			Open 130857 STOLE115	115	131466	DAVIS115		115	1					-0.28660	0.01894	39.1	74.1				
8929	1863.0	1219.4	*L: Interface	26	ONTARIO-MICH					544.3	-0.0	-0.29216		-0.29216	729.4	185.2					
			C:GEN:SEABROOK							1572											
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch														
8935	1880.3	1227.1	L: 130799 ERIE 115	115	130801	PAVMT115		115	1	-85.9	-179.0	-0.04954		-0.04427	-63.4	-146.6					
			C:SER:HCWC/NWES							1606											
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1					0.04175	-0.12160	-544.7	-773.3				
			Open 130836 N.WAV115	115	200676	E.SAYRE		115	1					0.00587	-0.03250	42.1	-19.0				
8936	1886.0	1229.6	L: 130799 ERIE 115	115	130801	PAVMT115		115	1	-86.0	-179.0	-0.04932		-0.04427	-63.4	-146.8					
			C:130757 WATRC345	345	200769	HOMER	CY	345	1	1374											
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1					0.04154	-0.12160	-544.7	-774.0				
8937	1886.0	1229.6	L: 130799 ERIE 115	115	130801	PAVMT115		115	1	-86.0	-179.0	-0.04932		-0.04427	-63.4	-146.8					
			C:SER:HC-WC_30&W-F_171							1600											
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1					0.04154	-0.12160	-544.7	-774.0				
8938	1891.7	1232.2	L: 130799 ERIE 115	115	130801	PAVMT115		115	1	-85.7	-179.0	-0.04934		-0.04427	-63.4	-147.1					

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				C:BUS:WATERCURE_345											1631
				Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.04170	-0.12160	-544.7	-774.7
				Open 130757 WATRC345	345	130768	WATRC230	230	1			0.00036	0.01425	257.2	284.2
				Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.01362	0.00000	22.5	22.5
8955	1940.7	1253.9	L:	130799 ERIE 115	115	130801	PAVMT115	115	1	-77.1	-179.0	-0.05249	-0.04427	-63.4	-149.3
				C:130806 GARDV115	115	135450	GRDNV11	115	1	297					
				Open 130806 GARDV115	115	135450	GRDNV11	115	1			-0.12306	0.06680	111.9	241.6
8961	1977.3	1270.2	*L:	130801 PAVMT115	115	130857	STOLE115	115	1	-77.5	-179.0	-0.05134	-0.04465	-75.2	-163.4
				C:135250 DUNKIRK	230	135251	S RIPLEY	230	1	422					
				Open 135250 DUNKIRK	230	135251	S RIPLEY	230	1			0.02906	-0.23028	-80.3	-535.6
8962	1979.5	1271.1	L:	130857 STOLE115	115	130858	GIRD115	115	1	104.6	239.0	0.06789	0.04741	63.6	157.5
				C:135398 SW345	345	135564	SW115	115	1	517					
				Open 135398 SW345	345	135564	SW115	115	1			0.25977	0.07883	157.8	313.8
8966	1991.2	1276.3	L:	135251 S RIPLEY	230	200654	ERIE E	230	1	-4.0	-499.0	-0.24857			
				Base Case											
8987	2084.7	1317.9	L:	135250 DUNKIRK	230	135251	S RIPLEY	230	1	-156.9	-637.0	-0.23028	-0.23028	-80.3	-560.3
				C:GEN:9 MI PT2											1560
				Remove unit 2 from bus	136700	9M PT 2G		25.0		1197.5	MW dispatch				
8990	2092.9	1321.5	L:	135250 DUNKIRK	230	135251	S RIPLEY	230	1	-155.1	-637.0	-0.23028	-0.23028	-80.3	-562.2
				C:HQ-NY-765-New											1777
				Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
				Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
				Open 147827 MARCY765	765	147833	MARCY T1	345	1			0.00848	0.00008	624.7	624.9
				Open 147827 MARCY765	765	147833	MARCY T1	345	2			0.00848	0.00007	543.6	543.7
				Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA					
				Open 147838 MASS230B	230	147839	MOSES E	230	1			-0.00000	-0.00008	10.4	10.2
				Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
				Open 147837 MASS230A	230	147839	MOSES E	230	1			0.07897	0.00000	18.8	18.8
				Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
				Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA					
				Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA					
				Decrease bus 180001 BEA-DLX	13.8	generation by		100.0		percent dispatch					
				Set bus 181319 CHAT G3	120	load to		357.0		MW dispatch					
				Decrease bus 180002 BEA-DL	13.8	generation by		100.0		percent dispatch					
				Set bus 181419 CHAT G4	120	load to		357.0		MW dispatch					
8994	2101.8	1325.5	L:	130799 ERIE 115	115	130801	PAVMT115	115	1	-74.5	-179.0	-0.04970	-0.04427	-63.4	-156.4
				C:130857 STOLE115	115	131466	DAVIS115	115	1	368					
				Open 130857 STOLE115	115	131466	DAVIS115	115	1			-0.28648	0.01894	39.1	78.9
9000	2109.1	1328.7	L:	130857 STOLE115	115	130858	GIRD115	115	1	97.1	239.0	0.06729	0.04741	63.6	163.6
				C:130801 PAVMT115	115	130857	STOLE115	115	1	289					
				Open 130801 PAVMT115	115	130857	STOLE115	115	1			-0.44517	-0.04465	-75.2	-169.3
9002	2112.1	1330.0	L:	135250 DUNKIRK	230	135251	S RIPLEY	230	1	-126.1	-637.0	-0.24192	-0.23028	-80.3	-566.6

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				C:SER:HCWC/NWES					1606								
				Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.08668	-0.12160	-544.7	-801.5		
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.03373	-0.03250	42.1	-26.5		
9009	2119.9	1333.5		L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1			-126.8	-637.0	-0.24067	-0.23028	-80.3	-568.4
				C:SER:HC-WC_30&W-F_171					1600								
				Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.08545	-0.12160	-544.7	-802.4		
9010	2119.9	1333.5		L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1			-126.8	-637.0	-0.24067	-0.23028	-80.3	-568.4
				C:130757 WATRC345	345	200769	HOMER CY	345	1	1374							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.08545	-0.12160	-544.7	-802.4		
9016	2128.6	1337.4		L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1			-125.1	-637.0	-0.24046	-0.23028	-80.3	-570.4
				C:BUS:WATERCURE_345					1631								
				Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.08311	-0.12160	-544.7	-803.5		
				Open 130757 WATRC345	345	130768	WATRC230	230	1			-0.00521	0.01425	257.2	287.5		
				Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.07645	0.00000	22.5	22.5		
9038	2165.5	1353.8		L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1			-138.3	-637.0	-0.23028	-0.23028	-80.3	-578.9
				C:GEN:BRUCE 6					1563								
				Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5	MW	dispatch									
9042	2171.3	1356.3		*L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1			-137.0	-637.0	-0.23028	-0.23028	-80.3	-580.3
				C:GEN:GINNA					1561								
				Remove unit 1 from bus 149140 GINNA 19	19.0	605.0	MW	dispatch									
9102	2222.4	1379.0		*L: 130799 ERIE 115	115	130801	PAVMT115	115	1			-65.7	-179.0	-0.05098	-0.04427	-63.4	-161.7
				C:135250 DUNKIRK	230	135251	S RIPLEY	230	1	422							
				Open 135250 DUNKIRK	230	135251	S RIPLEY	230	1			0.02915	-0.23028	-80.3	-592.0		
9115	2223.5	1379.5		L: 135276 ELLICTVL	115	135564	SW115	115	1			-75.4	-160.0	-0.03806	-0.02003	-41.0	-85.6
				C:130756 STOLE345	345	135398	SW345	345	1	212							
				Open 130756 STOLE345	345	135398	SW345	345	1			0.15453	-0.11667	-222.2	-481.6		
9131	2228.0	1381.5		L: 135276 ELLICTVL	115	135564	SW115	115	1			-75.2	-160.0	-0.03806	-0.02003	-41.0	-85.7
				C:SER:STOLLE345/115					1594								
				Open 130756 STOLE345	345	130857	STOLE115	115	1			-0.15453	0.05857	111.1	241.5		
				Open 130756 STOLE345	345	130857	STOLE115	115	2			-0.15453	0.05810	110.1	239.5		
9147	2238.2	1386.0		L: 135251 S RIPLEY	230	200654	ERIE E	230	1			-80.6	-637.0	-0.24857	-0.24857	-4.0	-560.4
				C:GEN:9 MI PT2					1560								
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch									
9164	2245.7	1389.4		L: 135251 S RIPLEY	230	200654	ERIE E	230	1			-78.8	-637.0	-0.24857	-0.24857	-4.0	-562.3
				C:HQ-NY-765-New					1777								
				Open 147827 MARCY765	765	147828	MASS 765	765	1			NA					
				Open 147828 MASS 765	765	180819	CHA-NY	765	1			NA					
				Open 147827 MARCY765	765	147833	MARCY T1	345	1			0.00848	0.00008	624.7	624.9		
				Open 147827 MARCY765	765	147833	MARCY T1	345	2			0.00848	0.00007	543.6	543.8		
				Open 156 MCY765SW	0.0	147827	MARCY765	765	1			NA					
				Open 147838 MASS230B	230	147839	MOSES E	230	1			-0.00000	-0.00008	10.4	10.2		
				Open 147828 MASS 765	765	147838	MASS230B	230	1			NA					

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				Open 147837 MASS230A	230	147839 MOSES E	230	1		0.07897	0.00000	18.8	18.8		
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
				Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						
				Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA						
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch						
				Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch						
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch						
				Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch						
9201	2256.5	1394.2	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		-49.8	-637.0	-0.26021	-0.24857	-4.0	-564.9
				C:SER:HCWC/NWES					1606						
				Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.08668	-0.12160		-544.7	-819.1	
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.03373	-0.03250		42.1	-31.2	
9209	2258.8	1395.2	L:	130801 PAVMT115	115	130857 STOLE115	115	1		-75.2	-176.0	-0.04465			
				Base Case											
9230	2264.5	1397.7	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		-50.6	-637.0	-0.25896	-0.24857	-4.0	-566.9
				C:130757 WATRC345	345	200769 HOMER CY	345	1	1374						
				Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.08545	-0.12160		-544.7	-820.0	
9231	2264.5	1397.7	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		-50.6	-637.0	-0.25896	-0.24857	-4.0	-566.9
				C:SER:HC-WC_30&W-F_171					1600						
				Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.08545	-0.12160		-544.7	-820.0	
9301	2272.7	1401.4	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		-48.9	-637.0	-0.25875	-0.24857	-4.0	-569.0
				C:BUS:WATERCURE_345					1631						
				Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.08311	-0.12160		-544.7	-821.0	
				Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.00521	0.01425		257.2	289.6	
				Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.07645	0.00000		22.5	22.5	
9392	2283.5	1406.1	L:	130756 STOLE345	345	130857 STOLE115	115	1		190.5	420.0	0.10050	0.05857	111.1	244.8
				C:130756 STOLE345	345	130857 STOLE115	115	2	211						
				Open 130756 STOLE345	345	130857 STOLE115	115	2		0.72180	0.05810		110.1	242.7	
11983	2293.1	1410.4	L:	130756 STOLE345	345	130857 STOLE115	115	2		190.0	420.0	0.10028	0.05810	110.1	243.3
				C:130756 STOLE345	345	130857 STOLE115	115	1	210						
				Open 130756 STOLE345	345	130857 STOLE115	115	1		0.72021	0.05857		111.1	245.4	
12434	2307.3	1416.7	L:	135284 MCHS-151	115	135564 SW115	115	1		-75.1	-160.0	-0.03678	-0.01979	-42.8	-88.5
				C:130756 STOLE345	345	135398 SW345	345	1	212						
				Open 130756 STOLE345	345	135398 SW345	345	1		0.14557	-0.11667		-222.2	-491.4	
12512	2311.6	1418.6	L:	135284 MCHS-151	115	135564 SW115	115	1		-75.0	-160.0	-0.03678	-0.01979	-42.8	-88.6
				C:SER:STOLLE345/115					1594						
				Open 130756 STOLE345	345	130857 STOLE115	115	1		-0.14557	0.05857		111.1	246.4	
				Open 130756 STOLE345	345	130857 STOLE115	115	2		-0.14557	0.05810		110.1	244.4	
12539	2313.0	1419.2	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		-62.1	-637.0	-0.24857	-0.24857	-4.0	-579.0
				C:GEN:BRUCE 6					1563						
				Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5 MW	dispatch								
12600	2316.3	1420.7	*L:	135251 S RIPLEY	230	200654 ERIE E	230	1		-29.8	-637.0	-0.26212	-0.24857	-4.0	-579.8

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				C:130756 STOLE345	345	135398 SW345	345	1	212										
				Open 130756 STOLE345	345	135398 SW345	345	1				0.11612	-0.11667	-222.2	-492.4				
12602	2316.5	1420.8	L:	130857 STOLE115	115	130858 GIRD115	115	1		88.7	239.0	0.06490	0.04741	63.6	173.5				
				C:130799 ERIE 115	115	130801 PAVMT115	115	1	282										
				Open 130799 ERIE 115	115	130801 PAVMT115	115	1											
14232	2369.2	1444.2	L:	135276 ELLICTVL	115	135285 MCHS-152	115	1		71.7	160.0	0.03728	0.01925	37.3	82.9				
				C:130756 STOLE345	345	135398 SW345	345	1	212										
				Open 130756 STOLE345	345	135398 SW345	345	1											
14248	2373.7	1446.2	L:	135276 ELLICTVL	115	135285 MCHS-152	115	1		71.5	160.0	0.03728	0.01925	37.3	83.0				
				C:SER:STOLLE345/115					1594										
				Open 130756 STOLE345	345	130857 STOLE115	115	1					0.15453	0.05857	111.1	250.1			
				Open 130756 STOLE345	345	130857 STOLE115	115	2					0.15453	0.05810	110.1	248.0			
16055	2465.7	1487.1	L:	135282 HOMERHIL	115	135564 SW115	115	1		-69.1	-160.0	-0.03687	-0.01950	-36.6	-84.7				
				C:135282 HOMERHIL	115	135564 SW115	115	2	479										
				Open 135282 HOMERHIL	115	135564 SW115	115	2					0.89053	-0.01950	-36.5	-84.5			
16057	2466.2	1487.3	L:	135282 HOMERHIL	115	135564 SW115	115	2		-69.1	-160.0	-0.03687	-0.01950	-36.5	-84.6				
				C:135282 HOMERHIL	115	135564 SW115	115	1	478										
				Open 135282 HOMERHIL	115	135564 SW115	115	1					0.89053	-0.01950	-36.6	-84.7			
17908	2544.4	1522.0	L:	130799 ERIE 115	115	130801 PAVMT115	115	1		-63.4	-176.0	-0.04427							
				Base Case															
19507	2585.9	1540.4	L:	130806 GARDV115	115	130858 GIRD115	115	1		-72.8	-239.0	-0.06427	-0.04473	-33.7	-149.3				
				C:135398 SW345	345	135564 SW115	115	1	517										
				Open 135398 SW345	345	135564 SW115	115	1					-0.24796	0.07883	157.8	361.6			
21122	2638.3	1563.7	L:	135398 SW345	345	200769 HOMER CY	345	1		-407.9	-1074.0	-0.25246	-0.19550	-388.1	-903.9				
				C:135250 DUNKIRK	230	135251 S RIPLEY	230	1	422										
				Open 135250 DUNKIRK	230	135251 S RIPLEY	230	1					0.24737	-0.23028	-80.3	-687.8			
21140	2640.4	1564.6	L:	135398 SW345	345	200769 HOMER CY	345	1		-395.5	-1074.0	-0.25697	-0.19550	-388.1	-904.3				
				C:SER:ESEE/WRFL					1609										
				Open 270 ERIE SO.	230	531 ERIE SE	230	1					0.00037	0.18559	32.3	522.4			
				Open 531 ERIE SE	230	200654 ERIE E	230	1					-0.24758	0.24857	30.0	686.3			
21175	2660.0	1573.4	L:	135398 SW345	345	200769 HOMER CY	345	1		-388.1	-1074.0	-0.25785	-0.19550	-388.1	-908.1				
				C:SER:EESR/NWES					1607										
				Open 135251 S RIPLEY	230	200654 ERIE E	230	1					0.24784	-0.24857	-4.0	-665.3			
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1					0.02294	-0.03250	42.1	-44.4			
21176	2660.0	1573.4	L:	135398 SW345	345	200769 HOMER CY	345	1		-388.1	-1074.0	-0.25785	-0.19550	-388.1	-908.1				
				C:SER:EESR/WF/NWES					1610										
				Open 135251 S RIPLEY	230	200654 ERIE E	230	1					0.24784	-0.24857	-4.0	-665.3			
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1					0.02294	-0.03250	42.1	-44.4			
21183	2665.2	1575.7	L:	135398 SW345	345	200769 HOMER CY	345	1		-389.1	-1074.0	-0.25699	-0.19550	-388.1	-909.1				
				C:135251 S RIPLEY	230	200654 ERIE E	230	1	1378										
				Open 135251 S RIPLEY	230	200654 ERIE E	230	1					0.24737	-0.24857	-4.0	-666.5			
21184	2665.2	1575.7	L:	135398 SW345	345	200769 HOMER CY	345	1		-389.1	-1074.0	-0.25699	-0.19550	-388.1	-909.1				

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			C:SER:EESR/WRFL										1608			
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1					0.24737	-0.24857	-4.0	-666.5
21193	2681.1	1582.7	L: 135398 SW345	345	200769	HOMER CY	345	1	-487.6	-1074.0	-0.21872		-0.19550	-388.1	-912.2	
			C:SER:HCWC/NWES										1606			
			Open 130757 WATRC345	345	200769	HOMER CY	345	1					0.18457	-0.12160	-544.7	-870.7
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1					0.02403	-0.03250	42.1	-45.0
21197	2689.5	1586.5	L: 135398 SW345	345	200769	HOMER CY	345	1	-488.1	-1074.0	-0.21784		-0.19550	-388.1	-913.9	
			C:SER:HC-WC_30&W-F_171										1600			
			Open 130757 WATRC345	345	200769	HOMER CY	345	1					0.18369	-0.12160	-544.7	-871.7
21198	2689.5	1586.5	L: 135398 SW345	345	200769	HOMER CY	345	1	-488.1	-1074.0	-0.21784		-0.19550	-388.1	-913.9	
			C:130757 WATRC345	345	200769	HOMER CY	345	1				1374				
			Open 130757 WATRC345	345	200769	HOMER CY	345	1					0.18369	-0.12160	-544.7	-871.7
21202	2692.6	1587.8	L: Interface 45 A-PJMWest						-537.4	-1827.0	-0.47893		-0.44407	-392.1	-1587.8	
			C:SER:HCWC/NWES										1606			
			Open 130757 WATRC345	345	200769	HOMER CY	345	1					0.27125	-0.12160	-544.7	-872.1
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1					0.05775	-0.03250	42.1	-45.4
21203	2692.6	1587.8	L: Interface 46 PJMWest-A						537.4	1827.0	0.47893		0.44407	392.1	1587.8	
			C:SER:HCWC/NWES										1606			
			Open 130757 WATRC345	345	200769	HOMER CY	345	1					-0.27125	-0.12160	-544.7	-872.1
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1					-0.05775	-0.03250	42.1	-45.4
21204	2695.3	1589.0	L: 135284 MCHS-151	115	135401	GERNATT	115	1	63.9	160.0	0.03565		0.01929	32.8	84.7	
			C:130756 STOLE345	345	135398	SW345	345	1				212				
			Open 130756 STOLE345	345	135398	SW345	345	1					-0.14024	-0.11667	-222.2	-536.7
21206	2696.7	1589.7*	L: 135398 SW345	345	200769	HOMER CY	345	1	-487.0	-1074.0	-0.21769		-0.19550	-388.1	-915.3	
			C:BUS:WATERCURE_345										1631			
			Open 130757 WATRC345	345	200769	HOMER CY	345	1					0.18203	-0.12160	-544.7	-872.6
			Open 130757 WATRC345	345	130768	WATRC230		230					-0.00369	0.01425	257.2	295.6
			Open 130755 OAKDL345	345	130757	WATRC345		345					0.05377	0.00000	22.5	22.5
21208	2699.6	1590.9	L: 135284 MCHS-151	115	135401	GERNATT	115	1	63.8	160.0	0.03565		0.01929	32.8	84.8	
			C:SER:STOLLE345/115										1594			
			Open 130756 STOLE345	345	130857	STOLE115		115					0.14024	0.05857	111.1	269.2
			Open 130756 STOLE345	345	130857	STOLE115		115					0.14024	0.05810	110.1	266.9
21209	2702.0	1592.0	L: Interface 46 PJMWest-A						538.7	1827.0	0.47680		0.44407	392.1	1592.0	
			C:130757 WATRC345	345	200769	HOMER CY	345	1				1374				
			Open 130757 WATRC345	345	200769	HOMER CY	345	1					-0.26914	-0.12160	-544.7	-873.2
21210	2702.0	1592.0	L: Interface 45 A-PJMWest						-538.7	-1827.0	-0.47680		-0.44407	-392.1	-1592.0	
			C:SER:HC-WC_30&W-F_171										1600			
			Open 130757 WATRC345	345	200769	HOMER CY	345	1					0.26914	-0.12160	-544.7	-873.2
21211	2702.0	1592.0	L: Interface 46 PJMWest-A						538.7	1827.0	0.47680		0.44407	392.1	1592.0	
			C:SER:HC-WC_30&W-F_171										1600			
			Open 130757 WATRC345	345	200769	HOMER CY	345	1					-0.26914	-0.12160	-544.7	-873.2
21212	2702.0	1592.0	L: Interface 45 A-PJMWest						-538.7	-1827.0	-0.47680		-0.44407	-392.1	-1592.0	

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				C:130757 WATRC345	345	200769 HOMER CY	345	1	1374										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.26914	-0.12160	-544.7	-873.2				
21216	2709.9	1595.5	L:	Interface 45 A-PJMWest								-535.9	-1827.0	-0.47644			-0.44407	-392.1	-1595.5
				C:BUS:WATERCURE_345					1631										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.26514	-0.12160	-544.7	-874.2				
				Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.00890	0.01425	257.2	295.8				
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.13022	0.00000	22.5	22.5				
21217	2709.9	1595.5	L:	Interface 46 PJMWest-A								535.9	1827.0	0.47644			0.44407	392.1	1595.5
				C:BUS:WATERCURE_345					1631										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.26514	-0.12160	-544.7	-874.2				
				Open 130757 WATRC345	345	130768 WATRC230	230	1				0.00890	0.01425	257.2	295.8				
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.13022	0.00000	22.5	22.5				
21218	2731.1	1604.9	L:	135401 GERNATT	115	147875 ARCADE	115	1				62.6	160.0	0.03565			0.01929	31.5	84.2
				C:130756 STOLE345	345	135398 SW345	345	1	212										
				Open 130756 STOLE345	345	135398 SW345	345	1											
21220	2735.4	1606.8	L:	135401 GERNATT	115	147875 ARCADE	115	1				62.5	160.0	0.03565			0.01929	31.5	84.2
				C:SER:STOLLE345/115					1594										
				Open 130756 STOLE345	345	130857 STOLE115	115	1				0.14024	0.05857	111.1	271.3				
				Open 130756 STOLE345	345	130857 STOLE115	115	2				0.14024	0.05810	110.1	269.0				
21221	2739.1	1608.5	L:	130857 STOLE115	115	130858 GIRD115	115	1				91.4	239.0	0.05390			0.04741	63.6	193.5
				C:SER:HCWC/NWES					1606										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.05148	-0.12160	-544.7	-877.7				
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.00697	-0.03250	42.1	-46.9				
21224	2749.3	1613.0	L:	130857 STOLE115	115	130858 GIRD115	115	1				91.5	239.0	0.05364			0.04741	63.6	194.0
				C:SER:HC-WC_30&W-F_171					1600										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.05122	-0.12160	-544.7	-879.0				
21225	2749.3	1613.0	L:	130857 STOLE115	115	130858 GIRD115	115	1				91.5	239.0	0.05364			0.04741	63.6	194.0
				C:130757 WATRC345	345	200769 HOMER CY	345	1	1374										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.05122	-0.12160	-544.7	-879.0				
21226	2758.0	1616.9	L:	135285 MCHS-152	115	135295 SPVL-152	115	1				59.7	160.0	0.03636			0.01870	26.1	77.7
				C:130756 STOLE345	345	135398 SW345	345	1	212										
				Open 130756 STOLE345	345	135398 SW345	345	1				-0.15134	-0.11667	-222.2	-544.0				
21227	2758.9	1617.3	L:	130857 STOLE115	115	130858 GIRD115	115	1				91.2	239.0	0.05357			0.04741	63.6	194.4
				C:BUS:WATERCURE_345					1631										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.05046	-0.12160	-544.7	-880.2				
				Open 130757 WATRC345	345	130768 WATRC230	230	1				0.00171	0.01425	257.2	296.5				
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.01538	0.00000	22.5	22.5				
21228	2762.5	1618.9	L:	135285 MCHS-152	115	135295 SPVL-152	115	1				59.6	160.0	0.03636			0.01870	26.1	77.8
				C:SER:STOLLE345/115					1594										
				Open 130756 STOLE345	345	130857 STOLE115	115	1				0.15134	0.05857	111.1	272.9				
				Open 130756 STOLE345	345	130857 STOLE115	115	2				0.15134	0.05810	110.1	270.6				
21229	2766.4	1620.6	L:	Interface 23 QFW								971.9	-0.0	-0.35131			-0.29216	1089.3	281.1

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				C:135398 SW345	345	200769	HOMER	CY	345	1	1379								
				Open 135398 SW345	345	200769	HOMER	CY	345	1		0.30257	-0.19550	-388.1	-928.9				
21230	2766.4	1620.6	L:	Interface	23	QFW						971.9	-0.0	-0.35131	-0.29216	1089.3	281.1		
				C:SER:HC-SR_37&W-F_171															
				Open 135398 SW345	345	200769	HOMER	CY	345	1		0.30257	-0.19550	-388.1	-928.9				
21234	2805.8	1638.1	L:	130857 STOLE115	115	130858	GIRD115		115	1		65.4	239.0	0.06188	0.04741	63.6	196.7		
				C:SER:ESEE/WRFL															
				Open 270 ERIE SO.	230	531	ERIE	SE	230	1		-0.00010	0.18559	32.3	553.1				
				Open 531 ERIE SE	230	200654	ERIE	E	230	1		0.05829	0.24857	30.0	727.5				
21235	2806.6	1638.5	L:	130857 STOLE115	115	130858	GIRD115		115	1		68.3	239.0	0.06082	0.04741	63.6	196.7		
				C:135250 DUNKIRK	230	135251	S	RIPLEY	230	1	422								
				Open 135250 DUNKIRK	230	135251	S	RIPLEY	230	1		-0.05823	-0.23028	-80.3	-726.6				
21236	2823.4	1645.9	*L:	130857 STOLE115	115	130858	GIRD115		115	1		63.6	239.0	0.06213	0.04741	63.6	197.5		
				C:SER:EESR/WF/NWES															
				Open 135251 S RIPLEY	230	200654	ERIE	E	230	1		-0.05836	-0.24857	-4.0	-705.9				
				Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		-0.00635	-0.03250	42.1	-49.7				
21239	2825.9	1647.0	L:	Interface	23	QFW						1078.5	0.0	-0.38165	-0.29216	1089.3	263.7		
				C:SER:ESEE/WRFL															
				Open 270 ERIE SO.	230	531	ERIE	SE	230	1		0.00129	0.18559	32.3	556.8				
				Open 531 ERIE SE	230	200654	ERIE	E	230	1		-0.36099	0.24857	30.0	732.4				
21240	2826.7	1647.4	L:	130806 GARDV115	115	130858	GIRD115		115	1		-63.1	-239.0	-0.06222	-0.04473	-33.7	-160.1		
				C:130801 PAVMT115	115	130857	STOLE115		115	1	289								
				Open 130801 PAVMT115	115	130857	STOLE115		115	1		0.39182	-0.04465	-75.2	-201.4				
21241	2826.8	1647.4	L:	Interface	23	QFW						1060.4	-0.0	-0.37511	-0.29216	1089.3	263.4		
				C:135250 DUNKIRK	230	135251	S	RIPLEY	230	1	422								
				Open 135250 DUNKIRK	230	135251	S	RIPLEY	230	1		0.36024	-0.23028	-80.3	-731.2				
21244	2841.7	1654.0	L:	Interface	23	QFW						1089.9	0.0	-0.38353	-0.29216	1089.3	259.1		
				C:SER:EESR/NWES															
				Open 135251 S RIPLEY	230	200654	ERIE	E	230	1		0.36125	-0.24857	-4.0	-710.4				
				Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		0.04852	-0.03250	42.1	-50.3				
21245	2841.7	1654.0	L:	Interface	23	QFW						1089.9	0.0	-0.38353	-0.29216	1089.3	259.1		
				C:SER:EESR/WF/NWES															
				Open 135251 S RIPLEY	230	200654	ERIE	E	230	1		0.36125	-0.24857	-4.0	-710.4				
				Open 130836 N.WAV115	115	200676	E.SAYRE		115	1		0.04852	-0.03250	42.1	-50.3				
21246	2849.9	1657.7	L:	Interface	23	QFW						1087.8	-0.0	-0.38170	-0.29216	1089.3	256.7		
				C:135251 S RIPLEY	230	200654	ERIE	E	230	1	1378								
				Open 135251 S RIPLEY	230	200654	ERIE	E	230	1		0.36024	-0.24857	-4.0	-712.5				
21247	2849.9	1657.7	L:	Interface	23	QFW						1087.8	-0.0	-0.38170	-0.29216	1089.3	256.7		
				C:SER:EESR/WRFL															
				Open 135251 S RIPLEY	230	200654	ERIE	E	230	1		0.36024	-0.24857	-4.0	-712.5				
21254	2924.9	1691.0	L:	Interface	46	PJMWest-A						392.1	1691.0	0.44407					
				Base Case															

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21255	2924.9	1691.0	L: Interface	45 A-PJMWest						-392.1	-1691.0	-0.44407		
				Base Case										
21256	2939.7	1697.5	L: 130857	STOLE115	115	130858	GIRD115	115	1	63.6	203.0	0.04741		
				Base Case										
21257	2943.5	1699.2	L: 130786	COBHL115	115	135295	SPVL-152	115	1	-53.2	-160.0	-0.03628	-0.01857	-19.5 -74.2
			C:130756	STOLE345	345	135398	SW345	345	1 212					
			Open 130756	STOLE345		345	135398	SW345	345	1			0.15172	-0.11667 -222.2 -565.6
21258	2948.1	1701.3	L: 130786	COBHL115	115	135295	SPVL-152	115	1	-53.1	-160.0	-0.03628	-0.01857	-19.5 -74.3
			C:SER:STOLLE345/115						1594					
			Open 130756	STOLE345		345	130857	STOLE115	115	1			-0.15172	0.05857 111.1 283.7
			Open 130756	STOLE345		345	130857	STOLE115	115	2			-0.15172	0.05810 110.1 281.3
21260	2956.9	1705.2	L: Interface	45 A-PJMWest						-513.9	-1827.0	-0.44407	-0.44407	-392.1 -1705.2
			C:GEN:9	MI PT2					1560					
				Remove unit 2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch			
21261	2956.9	1705.2	L: Interface	46 PJMWest-A						513.9	1827.0	0.44407	0.44407	392.1 1705.2
			C:GEN:9	MI PT2					1560					
				Remove unit 2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch			
21263	2968.9	1710.5	L: Interface	45 A-PJMWest						-508.6	-1827.0	-0.44407	-0.44407	-392.1 -1710.5
			C:HQ-NY-765-New						1777					
			Open 147827	MARCY765		765	147828	MASS 765	765	1	NA			
			Open 147828	MASS 765		765	180819	CHA-NY	765	1	NA			
			Open 147827	MARCY765		765	147833	MARCY T1	345	1		0.02048	0.00008	624.7 624.9
			Open 147827	MARCY765		765	147833	MARCY T1	345	2		0.02048	0.00007	543.6 543.8
			Open 156	MCY765SW		0.0	147827	MARCY765	765	1	NA			
			Open 147838	MASS230B		230	147839	MOSES E	230	1		0.00000	-0.00008	10.4 10.1
			Open 147828	MASS 765		765	147838	MASS230B	230	1	NA			
			Open 147837	MASS230A		230	147839	MOSES E	230	1		0.13065	0.00000	18.8 18.8
			Open 147828	MASS 765		765	147837	MASS230A	230	1	NA			
			Open 158	MS765SW2		0.0	147828	MASS 765	765	1	NA			
			Open 157	MS765SW1		0.0	147828	MASS 765	765	1	NA			
			Decrease bus	180001	BEA-DLX		13.8	generation by		100.0	percent	dispatch		
			Set bus	181319	CHAT G3		120	load to		357.0	MW	dispatch		
			Decrease bus	180002	BEA-DL		13.8	generation by		100.0	percent	dispatch		
			Set bus	181419	CHAT G4		120	load to		357.0	MW	dispatch		
21264	2968.9	1710.5	L: Interface	46 PJMWest-A						508.6	1827.0	0.44407	0.44407	392.1 1710.5
			C:HQ-NY-765-New						1777					
			Open 147827	MARCY765		765	147828	MASS 765	765	1	NA			
			Open 147828	MASS 765		765	180819	CHA-NY	765	1	NA			
			Open 147827	MARCY765		765	147833	MARCY T1	345	1		-0.02048	0.00008	624.7 624.9
			Open 147827	MARCY765		765	147833	MARCY T1	345	2		-0.02048	0.00007	543.6 543.8
			Open 156	MCY765SW		0.0	147827	MARCY765	765	1	NA			
			Open 147838	MASS230B		230	147839	MOSES E	230	1		-0.00000	-0.00008	10.4 10.1

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Open	147828	MASS 765	765	147838	MASS230B	230	1	NA				
Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.13065	0.00000	18.8	18.8
Open	147828	MASS 765	765	147837	MASS230A	230	1	NA				
Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA				
Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA				
Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch				
Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch				
Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch				
Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch				

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, MAY 07 2009 21:53
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-pjm-ny-fw-recond.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, MAY 07 2009 21:54
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-pjm-ny-fw-recond.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From PENELEC_EXPORT To A_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 33648 violations

Interface-1 Interface 46 PJMWest-A Init.Flow= 403.00 TDF= 0.4743

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating	LODF	Init Final
1	-164775.	-77753.1	L: Interface 21 PJM-WEST	5137.9	-0.0	0.03118	0.03675	5112.7 -942.6
			C:130764 MEYER230 230 131122 WTHRS230 230 1 221					
			Open 130764 MEYER230 230 131122 WTHRS230 230 1				-0.10563	0.05271 -238.5 -8923.2
2	-164741.	-77737.1	L: Interface 21 PJM-WEST	5136.8	-0.0	0.03118	0.03675	5112.7 -941.3
			C:130770 SHLDN230 230 131122 WTHRS230 230 1 228					
			Open 130770 SHLDN230 230 131122 WTHRS230 230 1				0.10563	-0.05271 228.6 8911.5
3	-164706.	-77720.5	L: Interface 21 PJM-WEST	5135.7	0.0	0.03118	0.03675	5112.7 -940.1
			C:130767 STOLE230 230 130770 SHLDN230 230 1 226					
			Open 130767 STOLE230 230 130770 SHLDN230 230 1				0.10563	-0.05271 218.2 8899.3
4	-162982.	-76902.9	L: Interface 21 PJM-WEST	5143.4	0.0	0.03156	0.03675	5112.7 -876.7
			C:GEN:KINTIGH-New 1775					
			Open 130754 KINTI345 345 130873 KINTIG24 24.0 1				0.00000	0.04880 -288.5 -8241.6
			Open 130754 KINTI345 345 130873 KINTIG24 24.0 2				-0.05311	0.09773 -577.7-16506.5

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5	-161179.-76047.6	L: Interface	21	PJM-WEST					5043.3	0.0	0.03129		0.03675	5112.7	-810.4
		C:MULT04												1656	
		Open	9	JUNIATA	500	21	SUNBURY	500	1			-0.13383	0.04007	524.7	-5933.9
		Open	21	SUNBURY	500	3084	SUNBURY	230	24			-0.00698	0.01372	-121.6	-2333.8
6	-159675.-75334.3	L: Interface	21	PJM-WEST					5140.8	0.0	0.03220		0.03675	5112.7	-755.2
		C:130754 KINTI345	345	149000	ROCH	345	345	1	205						
		Open	130754	KINTI345	345	149000	ROCH	345	345	1		0.05361	-0.08493	524.7	14086.4
7	-158075.-74575.4	L: Interface	21	PJM-WEST					5140.0	-0.0	0.03252		0.03675	5112.7	-696.4
		C:147834 NIAG 345	345	149000	ROCH	345	345	1	1226						
		Open	147834	NIAG 345	345	149000	ROCH	345	345	1		0.06463	-0.06549	422.3	10775.4
8	-156563.-73858.2	L: Interface	21	PJM-WEST					5122.9	0.0	0.03272		0.03675	5112.7	-640.8
		C:130751 CNDGUA_T	230	130761	AVOCA230	230	1	197							
		Open	130751	CNDGUA_T	230	130761	AVOCA230	230	1			0.07636	-0.05274	134.7	8391.5
9	-156563.-73858.0	L: Interface	21	PJM-WEST					5122.9	-0.0	0.03272		0.03675	5112.7	-640.8
		C:130761 AVOCA230	230	131154	STONY RIDGE	230	1	216							
		Open	130761	AVOCA230	230	131154	STONY RIDGE	230	1			0.07636	-0.05274	134.5	8391.4
10	-156562.-73857.9	*L: Interface	21	PJM-WEST					5122.9	0.0	0.03272		0.03675	5112.7	-640.8
		C:SER:MEYER_HILLSD_68												1604	
		Open	130761	AVOCA230	230	131154	STONY RIDGE	230	1			0.07636	-0.05274	134.5	8391.4
		Open	130751	CNDGUA_T	230	130761	AVOCA230	230	1			-0.09424	0.00000	0.1	0.1
1750	-75911.2-35603.2	L: Interface	20	PJM-CENT					3334.8	0.0	0.04393		0.01403	3269.0	2204.0
		C:135398 SW345	345	200769	HOMER CY	345	1	1380							
		Open	135398	SW345	345	200769	HOMER CY	345	1			-0.17370	-0.17213	-378.4	12688.3
1759	-64247.9-30071.0	L: Interface	20	PJM-CENT					3281.5	-0.0	0.05108		0.01403	3269.0	2367.6
		C:135250 DUNKIRK	230	135251	S RIPLEY	230	1	422							
		Open	135250	DUNKIRK	230	135251	S RIPLEY	230	1			-0.19217	-0.19278	-64.9	12320.6
1760	-62677.3-29326.1	L: Interface	20	PJM-CENT					3270.0	-0.0	0.05217		0.01403	3269.0	2389.7
		C:SER:EESR/NWES												1608	
		Open	135251	S RIPLEY	230	200654	ERIE E	230	1			-0.19103	-0.21107	11.3	13240.6
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.07221	-0.03017	43.0	1933.8
1761	-59842.2-27981.3	L: Interface	20	PJM-CENT					3266.9	-0.0	0.05459		0.01403	3269.0	2429.4
		C:135251 S RIPLEY	230	200654	ERIE E	230	1	1378							
		Open	135251	S RIPLEY	230	200654	ERIE E	230	1			-0.19217	-0.21107	11.3	12642.2
1762	-59573.8-27854.0	L: Interface	20	PJM-CENT					3344.5	0.0	0.05614		0.01403	3269.0	2433.2
		C:SER:HC-SR_37&W-F_171												1600	
		Open	135398	SW345	345	200769	HOMER CY	345	1			-0.18965	-0.17213	-378.4	9876.2
		Open	135277	FALCONER	115	200579	WARREN	115	1			-0.10389	-0.09112	-35.9	5392.3
1763	-57092.3-26677.0	L: Interface	20	PJM-CENT					3496.9	0.0	0.06125		0.01403	3269.0	2468.0
		C:SER:HCWC/NWES												1607	
		Open	130757	WATRC345	345	200769	HOMER CY	345	1			-0.41470	-0.11809	-543.5	6198.3
		Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.05801	-0.03017	43.0	1765.3
1764	-55266.9-25811.2	L: Interface	20	PJM-CENT					3495.6	0.0	0.06325		0.01403	3269.0	2493.6

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		C:130757 WATRC345	345	200769 HOMER CY	345	1	1374												
		Open 130757 WATRC345	345	200769 HOMER CY	345	1													
1765	-54897.9-25636.2	L: Interface	20	PJM-CENT				3485.0	0.0	0.06348									
		C:BUS:WATERCURE_345					1632												
		Open 130757 WATRC345	345	200769 HOMER CY	345	1													
		Open 130757 WATRC345	345	130768 WATRC230	230	1													
		Open 130755 OAKDL345	345	130757 WATRC345	345	1													
1766	-50518.7-23559.0	L: Interface	20	PJM-CENT				3498.3	0.0	0.06925									
		C:SER:HC-WC_30&W-F_171					1601												
		Open 130757 WATRC345	345	200769 HOMER CY	345	1													
		Open 135277 FALCONER	115	200579 WARREN	115	1													
1767	-45831.0-21335.5	*L: Interface	20	PJM-CENT				3274.7	0.0	0.07145									
		C:SER:EESR/WF/NWES					1611												
		Open 135251 S RIPLEY	230	200654 ERIE E	230	1													
		Open 135277 FALCONER	115	200579 WARREN	115	1													
		Open 130836 N.WAV115	115	200676 E.SAYRE	115	1													
1770	-5411.4 -2163.7	L: Interface	61	PJMC2C				596.0	0.0	0.11015									
		C:130755 OAKDL345	345	131128 LAPEER	345	1	209												
		Open 130755 OAKDL345	345	131128 LAPEER	345	1													
1771	-5411.4 -2163.7	L: Interface	60	C2PJMC				-596.0	-0.0	-0.11015									
		C:130755 OAKDL345	345	131128 LAPEER	345	1	209												
		Open 130755 OAKDL345	345	131128 LAPEER	345	1													
1772	-5411.4 -2163.7	L: Interface	48	PJMWest-C				596.0	0.0	0.11015									
		C:130755 OAKDL345	345	131128 LAPEER	345	1	209												
		Open 130755 OAKDL345	345	131128 LAPEER	345	1													
1773	-5411.4 -2163.7	L: Interface	47	C-PJMWest				-596.0	-0.0	-0.11015									
		C:130755 OAKDL345	345	131128 LAPEER	345	1	209												
		Open 130755 OAKDL345	345	131128 LAPEER	345	1													
1774	-5356.1 -2137.5	L: Interface	60	C2PJMC				-597.3	0.0	-0.11151									
		C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392												
		Open 131128 LAPEER	345	136153 LAFAYTTE	345	1													
1775	-5356.1 -2137.5	L: Interface	61	PJMC2C				597.3	-0.0	0.11151									
		C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392												
		Open 131128 LAPEER	345	136153 LAFAYTTE	345	1													
1776	-5356.1 -2137.5	L: Interface	48	PJMWest-C				597.3	-0.0	0.11151									
		C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392												
		Open 131128 LAPEER	345	136153 LAFAYTTE	345	1													
1777	-5356.1 -2137.5	L: Interface	47	C-PJMWest				-597.3	0.0	-0.11151									
		C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392												
		Open 131128 LAPEER	345	136153 LAFAYTTE	345	1													
1778	-5333.5 -2126.8	L: Interface	61	PJMC2C				629.8	0.0	0.11809									
		C:HQ-NY-765-New					1776												

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	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
	Open	147827	MARCY765	765	147833	MARCY T1	345	1		0.02483	0.00008	624.7	624.3	
	Open	147827	MARCY765	765	147833	MARCY T1	345	2		0.02483	0.00007	543.6	543.2	
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
	Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.00007	10.3	10.7	
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
	Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.05514	0.00000	18.8	18.8	
	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
	Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch					
	Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch					
1779	-5333.5	-2126.8	L: Interface	48	PJMWest-C		629.8	0.0	0.11809		0.11809	543.5	-86.3	
			C:HQ-NY-765-New				1776							
	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
	Open	147827	MARCY765	765	147833	MARCY T1	345	1		0.02483	0.00008	624.7	624.3	
	Open	147827	MARCY765	765	147833	MARCY T1	345	2		0.02483	0.00007	543.6	543.2	
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
	Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.00007	10.3	10.7	
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
	Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.05514	0.00000	18.8	18.8	
	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
	Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch					
	Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch					
1780	-5333.5	-2126.8	L: Interface	60	C2PJMC		-629.8	-0.0	-0.11809		-0.11809	-543.5	86.3	
			C:HQ-NY-765-New				1776							
	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
	Open	147827	MARCY765	765	147833	MARCY T1	345	1		-0.02483	0.00008	624.7	624.3	
	Open	147827	MARCY765	765	147833	MARCY T1	345	2		-0.02483	0.00007	543.6	543.2	
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
	Open	147838	MASS230B	230	147839	MOSES E	230	1		0.00000	-0.00007	10.3	10.7	
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
	Open	147837	MASS230A	230	147839	MOSES E	230	1		0.05514	0.00000	18.8	18.8	

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			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch					
1781	-5333.5	-2126.8	L: Interface 47 C-PJMWest						-629.8	-0.0	-0.11809	-0.11809	-543.5 86.3
			C:HQ-NY-765-New				1776						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.02483	0.00008	624.7	624.3	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.02483	0.00007	543.6	543.2	
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00007	10.3	10.7	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.05514	0.00000	18.8	18.8	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch					
1782	-5284.8	-2103.7	L: Interface 61 PJMC2C						624.1	0.0	0.11809	0.11809	543.5 -80.5
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW dispatch								
1783	-5284.8	-2103.7	L: Interface 47 C-PJMWest						-624.1	-0.0	-0.11809	-0.11809	-543.5 80.5
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW dispatch								
1784	-5284.8	-2103.7	L: Interface 60 C2PJMC						-624.1	-0.0	-0.11809	-0.11809	-543.5 80.5
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW dispatch								
1785	-5284.8	-2103.7	L: Interface 48 PJMWest-C						624.1	0.0	0.11809	0.11809	543.5 -80.5
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW dispatch								
1786	-5179.7	-2053.8	L: Interface 47 C-PJMWest						-611.7	-0.0	-0.11809	-0.11809	-543.5 68.1
			C:SIN:250				1677						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		-0.00000	0.00000	-0.1	-0.1	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW dispatch								
1787	-5179.7	-2053.8	L: Interface 48 PJMWest-C						611.7	0.0	0.11809	0.11809	543.5 -68.1
			C:SIN:250				1677						

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			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
1788	-5179.7	-2053.8	L: Interface 61 PJMC2C					611.7	0.0	0.11809		0.11809	543.5	-68.1
			C:SIN:250											
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
1789	-5179.7	-2053.8	L: Interface 60 C2PJMC					-611.7	-0.0	-0.11809		-0.11809	-543.5	68.1
			C:SIN:250											
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		-0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
1790	-5179.1	-2053.5	L: Interface 47 C-PJMWest					-611.6	-0.0	-0.11809		-0.11809	-543.5	68.0
			C:GEN:SEABROOK											
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
1791	-5179.1	-2053.5	L: Interface 48 PJMWest-C					611.6	0.0	0.11809		0.11809	543.5	-68.0
			C:GEN:SEABROOK											
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
1792	-5179.1	-2053.5	L: Interface 60 C2PJMC					-611.6	-0.0	-0.11809		-0.11809	-543.5	68.0
			C:GEN:SEABROOK											
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
1793	-5179.1	-2053.5	L: Interface 61 PJMC2C					611.6	0.0	0.11809		0.11809	543.5	-68.0
			C:GEN:SEAB&OMS											
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		0.00000	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
1794	-5179.1	-2053.5	L: Interface 60 C2PJMC					-611.6	-0.0	-0.11809		-0.11809	-543.5	68.0
			C:GEN:SEAB&OMS											
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		-0.00000	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
1795	-5179.1	-2053.5	L: Interface 61 PJMC2C					611.6	0.0	0.11809		0.11809	543.5	-68.0
			C:GEN:SEABROOK											
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
1796	-5179.1	-2053.5	L: Interface 48 PJMWest-C					611.6	0.0	0.11809		0.11809	543.5	-68.0
			C:GEN:SEAB&OMS											
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		0.00000	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
1797	-5179.1	-2053.5	L: Interface 47 C-PJMWest					-611.6	-0.0	-0.11809		-0.11809	-543.5	68.0
			C:GEN:SEAB&OMS											
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		-0.00000	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
1798	-5177.7	-2052.9	L: Interface 61 PJMC2C					477.5	0.0	0.09223		0.11809	543.5	-67.9
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.25044	-0.10325	-263.5	271.1
1799	-5177.7	-2052.9	L: Interface 48 PJMWest-C					477.5	0.0	0.09223		0.11809	543.5	-67.9

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			C:130755 OAKDL345	345	130757 WATRC345	345	1	206											
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.25044	-0.10325	-263.5	271.1					
1800	-5177.7	-2052.9	L: Interface 60 C2PJMC						-477.5	-0.0	-0.09223	-0.11809	-543.5	67.9					
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206											
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.25044	-0.10325	-263.5	271.1					
1801	-5177.7	-2052.9	L: Interface 47 C-PJMWest						-477.5	-0.0	-0.09223	-0.11809	-543.5	67.9					
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206											
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.25044	-0.10325	-263.5	271.1					
1802	-5159.1	-2044.1	L: Interface 48 PJMWest-C						574.2	0.0	0.11130	0.11809	543.5	-65.7					
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221											
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				-0.12869	0.05271	-238.5	-510.5					
1803	-5159.1	-2044.1	L: Interface 47 C-PJMWest						-574.2	-0.0	-0.11130	-0.11809	-543.5	65.7					
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221											
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				0.12869	0.05271	-238.5	-510.5					
1804	-5159.1	-2044.1	L: Interface 61 PJMC2C						574.2	0.0	0.11130	0.11809	543.5	-65.7					
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221											
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				-0.12869	0.05271	-238.5	-510.5					
1805	-5159.1	-2044.1	L: Interface 60 C2PJMC						-574.2	-0.0	-0.11130	-0.11809	-543.5	65.7					
			C:130764 MEYER230	230	131122 WTHRS230	230	1	221											
			Open 130764 MEYER230	230	131122 WTHRS230	230	1				0.12869	0.05271	-238.5	-510.5					
1806	-5147.6	-2038.6	*L: Interface 61 PJMC2C						573.0	-0.0	0.11130	0.11809	543.5	-64.3					
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228											
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				0.12869	-0.05271	228.6	499.9					
1807	-5147.6	-2038.6	*L: Interface 47 C-PJMWest						-573.0	0.0	-0.11130	-0.11809	-543.5	64.3					
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228											
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				-0.12869	-0.05271	228.6	499.9					
1808	-5147.6	-2038.6	*L: Interface 60 C2PJMC						-573.0	0.0	-0.11130	-0.11809	-543.5	64.3					
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228											
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				-0.12869	-0.05271	228.6	499.9					
1809	-5147.6	-2038.6	*L: Interface 48 PJMWest-C						573.0	-0.0	0.11130	0.11809	543.5	-64.3					
			C:130770 SHLDN230	230	131122 WTHRS230	230	1	228											
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1				0.12869	-0.05271	228.6	499.9					
1894	-4893.3	-1918.0	L: Interface 55 PJME-NYEnoRE						1490.4	1287.0	0.04156	0.00000	1299.1	1299.1					
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.35195	-0.11809	-543.5	34.3					
1895	-4893.3	-1918.0	L: Interface 56 NYE-PJMENoRE						-1490.4	-1287.0	-0.04156	-0.00000	-1299.1	-1299.1					
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.35195	-0.11809	-543.5	34.3					
8784	-4051.4	-1518.6	L: Interface 56 NYE-PJMENoRE						-1485.4	-1287.0	-0.04896	-0.00000	-1299.1	-1299.1					
			C:SER:HCWC/NWES					1607											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.35975	-0.11809	-543.5	-65.1					
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.21488	-0.03017	43.0	165.2					

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8785	-4051.4	-1518.6	L: Interface	55	PJME-NYEnoRE			1485.4	1287.0	0.04896	0.00000	1299.1	1299.1		
			C:SER:HCWC/NWES												
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	-0.35975	-0.11809	-543.5	-65.1
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1	-0.21488	-0.03017	43.0	165.2
8814	-3870.3	-1432.8	L: Interface	56	NYE-PJMENoRE			-1477.4	-1287.0	-0.04919	-0.00000	-1299.1	-1299.1		
			C:BUS:WATERCURE_345												
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	0.44167	-0.11809	-543.5	-86.5
			Open	130757	WATRC345	345	130768	WATRC230		230	1	0.19968	0.01483	257.6	200.2
			Open	130755	OAKDL345	345	130757	WATRC345		345	1	0.45967	0.00000	22.4	22.4
8815	-3870.3	-1432.8	L: Interface	55	PJME-NYEnoRE			1477.4	1287.0	0.04919	0.00000	1299.1	1299.1		
			C:BUS:WATERCURE_345												
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	-0.44167	-0.11809	-543.5	-86.5
			Open	130757	WATRC345	345	130768	WATRC230		230	1	-0.19968	0.01483	257.6	200.2
			Open	130755	OAKDL345	345	130757	WATRC345		345	1	-0.45967	0.00000	22.4	22.4
8816	-3849.3	-1422.8	L: Interface	55	PJME-NYEnoRE			1496.2	1287.0	0.05434	0.00000	1299.1	1299.1		
			C:SER:HC-WC_30&W-F_171												
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	-0.35346	-0.11809	-543.5	-89.0
			Open	135277	FALCONER	115	200579	WARREN		115	1	-0.13824	-0.09112	-35.9	314.8
8817	-3849.3	-1422.8	L: Interface	56	NYE-PJMENoRE			-1496.2	-1287.0	-0.05434	-0.00000	-1299.1	-1299.1		
			C:SER:HC-WC_30&W-F_171												
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	0.35346	-0.11809	-543.5	-89.0
			Open	135277	FALCONER	115	200579	WARREN		115	1	0.13824	-0.09112	-35.9	314.8
8826	-3789.5	-1394.5	L: Interface	52	PJMEast-G			123.5	-0.0	0.03259	0.00000	0.4	0.4		
			C:SER:HCWC/NWES												
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	-0.23819	-0.11809	-543.5	-96.0
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1	-0.14809	-0.03017	43.0	157.3
8827	-3789.5	-1394.5	L: Interface	51	G-PJMEast			-123.5	0.0	-0.03259	-0.00000	-0.4	-0.4		
			C:SER:HCWC/NWES												
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	0.23819	-0.11809	-543.5	-96.0
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1	0.14809	-0.03017	43.0	157.3
8828	-3636.1	-1321.7	L: Interface	51	G-PJMEast			-130.8	-0.0	-0.03597	-0.00000	-0.4	-0.4		
			C:SER:HC-WC_30&W-F_171												
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	0.23382	-0.11809	-543.5	-114.2
			Open	135277	FALCONER	115	200579	WARREN		115	1	0.09178	-0.09112	-35.9	295.4
8829	-3636.1	-1321.7	L: Interface	52	PJMEast-G			130.8	0.0	0.03597	0.00000	0.4	0.4		
			C:SER:HC-WC_30&W-F_171												
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	-0.23382	-0.11809	-543.5	-114.2
			Open	135277	FALCONER	115	200579	WARREN		115	1	-0.09178	-0.09112	-35.9	295.4
8830	-3613.9	-1311.2	L: Interface	51	G-PJMEast			-118.3	-0.0	-0.03273	-0.00000	-0.4	-0.4		
			C:BUS:WATERCURE_345												
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	0.29437	-0.11809	-543.5	-116.8
			Open	130757	WATRC345	345	130768	WATRC230		230	1	0.13699	0.01483	257.6	204.0

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			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.30557	0.00000	22.4	22.4
8831	-3613.9	-1311.2	L: Interface 52 PJMEast-G					118.3	0.0	0.03273	0.00000	0.4	0.4
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.29437	-0.11809	-543.5	-116.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.13699	0.01483	257.6	204.0
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.30557	0.00000	22.4	22.4
8834	-3585.1	-1297.5	L: Interface 62 C2PJMW					-508.1	0.0	-0.14174	-0.25031	-345.0	552.4
			C:ETHS/NWES/LLGD				1648						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.80831	-0.07952	117.6	402.7
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.83277	-0.03017	43.0	151.1
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			-0.85088	-0.02253	38.0	118.7
8836	-3585.1	-1297.5	L: Interface 63 PJMW2C					508.1	-0.0	0.14174	0.25031	345.0	-552.4
			C:ETHS/NWES/LLGD				1648						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.80831	-0.07952	117.6	402.7
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.83277	-0.03017	43.0	151.1
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.85088	-0.02253	38.0	118.7
8838	-2568.9	-815.5	L: Interface 56 NYE-PJMENoRE					-1370.7	-1287.0	-0.03257	-0.00000	-1299.1	-1299.1
			C:135398 SW345	345	200769 HOMER CY	345	1	1380					
			Open 135398 SW345	345	200769 HOMER CY	345	1			0.18920	-0.17213	-378.4	63.8
8839	-2568.9	-815.5	L: Interface 55 PJME-NYEnoRE					1370.7	1287.0	0.03257	0.00000	1299.1	1299.1
			C:135398 SW345	345	200769 HOMER CY	345	1	1380					
			Open 135398 SW345	345	200769 HOMER CY	345	1			-0.18920	-0.17213	-378.4	63.8
8840	-2555.5	-809.1	L: Interface 63 PJMW2C					452.3	0.0	0.17699	0.25031	345.0	-294.7
			C:SER:ETHS/NWES				1606						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.66719	-0.07952	117.6	320.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.67156	-0.03017	43.0	120.1
8841	-2555.5	-809.1	L: Interface 62 C2PJMW					-452.3	-0.0	-0.17699	-0.25031	-345.0	294.7
			C:SER:ETHS/NWES				1606						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.66719	-0.07952	117.6	320.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.67156	-0.03017	43.0	120.1
8842	-2550.0	-806.5	L: Interface 63 PJMW2C					451.4	-0.0	0.17702	0.25031	345.0	-293.3
			C:SER:C398/NWES				1605						
			Open 409 GROVER	230	200675 E.TWANDA	230	1			0.00110	0.00346	-15.6	-24.4
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.66878	-0.07952	117.6	320.4
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			0.01712	0.00075	-52.1	-54.0
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.66713	-0.03017	43.0	119.9
8843	-2550.0	-806.5	L: Interface 62 C2PJMW					-451.4	0.0	-0.17702	-0.25031	-345.0	293.3
			C:SER:C398/NWES				1605						
			Open 409 GROVER	230	200675 E.TWANDA	230	1			-0.00110	0.00346	-15.6	-24.4
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.66878	-0.07952	117.6	320.4
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			-0.01712	0.00075	-52.1	-54.0
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.66713	-0.03017	43.0	119.9

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8844	-2202.3	-641.6	L: Interface	62	C2PJMW					-429.5	-0.0	-0.19503		-0.25031	-345.0	206.3	
			C:ETHS/LLGD													1649	
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1			-0.52470	-0.07952	117.6	292.8	
			Open	130807	GOUDY115	115	200680	LAUREL L	115	1			-0.60156	-0.02253	38.0	87.6	
8845	-2202.3	-641.6	L: Interface	63	PJMW2C						429.5	0.0	0.19503		0.25031	345.0	-206.3
			C:ETHS/LLGD													1649	
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.52470	-0.07952	117.6	292.8	
			Open	130807	GOUDY115	115	200680	LAUREL L	115	1			0.60156	-0.02253	38.0	87.6	
8846	-2062.3	-575.2	L: Interface	63	PJMW2C						516.2	0.0	0.25031		0.25031	345.0	-171.3
			C:GEN:9 MI PT2													1561	
			Remove unit 2		from bus 136700	9M	PT	2G	25.0	1197.5	MW	dispatch					
8847	-2062.3	-575.2	L: Interface	62	C2PJMW						-516.2	-0.0	-0.25031		-0.25031	-345.0	171.3
			C:GEN:9 MI PT2													1561	
			Remove unit 2		from bus 136700	9M	PT	2G	25.0	1197.5	MW	dispatch					
8848	-2060.9	-574.5	L: Interface	63	PJMW2C						515.9	0.0	0.25032		0.25031	345.0	-170.9
			C:HQ-NY-765-New													1776	
			Open	147827	MARCY765	765	147828	MASS 765	765	1			NA				
			Open	147828	MASS 765	765	180819	CHA-NY	765	1			NA				
			Open	147827	MARCY765	765	147833	MARCY T1	345	1				0.04116	0.00008	624.7	624.5
			Open	147827	MARCY765	765	147833	MARCY T1	345	2				0.04116	0.00007	543.6	543.5
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1			NA				
			Open	147838	MASS230B	230	147839	MOSES E	230	1				-0.00000	-0.00007	10.3	10.5
			Open	147828	MASS 765	765	147838	MASS230B	230	1			NA				
			Open	147837	MASS230A	230	147839	MOSES E	230	1				-0.11503	0.00000	18.8	18.8
			Open	147828	MASS 765	765	147837	MASS230A	230	1			NA				
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1			NA				
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1			NA				
			Decrease bus	180001	BEA-DLX	13.8	generation by	100.0			percent	dispatch					
			Set bus	181319	CHAT G3	120	load to	357.0			MW	dispatch					
			Decrease bus	180002	BEA-DL	13.8	generation by	100.0			percent	dispatch					
			Set bus	181419	CHAT G4	120	load to	357.0			MW	dispatch					
8849	-2060.9	-574.5	L: Interface	62	C2PJMW						-515.9	-0.0	-0.25032		-0.25031	-345.0	170.9
			C:HQ-NY-765-New													1776	
			Open	147827	MARCY765	765	147828	MASS 765	765	1			NA				
			Open	147828	MASS 765	765	180819	CHA-NY	765	1			NA				
			Open	147827	MARCY765	765	147833	MARCY T1	345	1				-0.04116	0.00008	624.7	624.5
			Open	147827	MARCY765	765	147833	MARCY T1	345	2				-0.04116	0.00007	543.6	543.5
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1			NA				
			Open	147838	MASS230B	230	147839	MOSES E	230	1				0.00000	-0.00007	10.3	10.5
			Open	147828	MASS 765	765	147838	MASS230B	230	1			NA				
			Open	147837	MASS230A	230	147839	MOSES E	230	1				0.11503	0.00000	18.8	18.8
			Open	147828	MASS 765	765	147837	MASS230A	230	1			NA				

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			Open	158	MS765SW2	0.0	147828	MASS	765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA						
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch						
8850	-1943.0	-518.6	L: Interface	62	C2PJMW					-459.2	0.0	-0.23633		-0.25031	-345.0	141.4		
			C:131128	LAPEER	345	136153	LAFAYTTE	345	1	392								
			Open	131128	LAPEER	345	136153	LAFAYTTE	345	1			0.17506	0.07986	-652.6	-807.7		
8851	-1943.0	-518.6	L: Interface	63	PJMW2C					459.2	-0.0	0.23633		0.25031	345.0	-141.4		
			C:131128	LAPEER	345	136153	LAFAYTTE	345	1	392								
			Open	131128	LAPEER	345	136153	LAFAYTTE	345	1			-0.17506	0.07986	-652.6	-807.7		
8852	-1911.7	-503.8	L: Interface	62	C2PJMW					-448.6	0.0	-0.23464		-0.25031	-345.0	133.6		
			C:130755	OAKDL345	345	131128	LAPEER	345	1	209								
			Open	130755	OAKDL345	345	131128	LAPEER	345	1			0.17997	0.08707	-575.7	-742.2		
8853	-1911.7	-503.8	L: Interface	63	PJMW2C					448.6	-0.0	0.23464		0.25031	345.0	-133.6		
			C:130755	OAKDL345	345	131128	LAPEER	345	1	209								
			Open	130755	OAKDL345	345	131128	LAPEER	345	1			-0.17997	0.08707	-575.7	-742.2		
8854	-1867.2	-482.7	L: Interface	63	PJMW2C					399.1	-0.0	0.21372		0.25031	345.0	-122.4		
			C:130763	HILSD230	230	200675	E.TWANDA	230	1	1375								
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.46008	-0.07952	117.6	266.1		
8855	-1867.2	-482.7	L: Interface	62	C2PJMW					-399.1	0.0	-0.21372		-0.25031	-345.0	122.4		
			C:130763	HILSD230	230	200675	E.TWANDA	230	1	1375								
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1			-0.46008	-0.07952	117.6	266.1		
8856	-1860.3	-479.4	L: Interface	56	NYE-PJMENoRE					-1388.1	-1287.0	-0.05433		-0.00000	-1299.1	-1299.1		
			C:SER:HC-SR_37&W-F_171							1600								
			Open	135398	SW345	345	200769	HOMER	CY	345	1		0.21762	-0.17213	-378.4	-58.2		
			Open	135277	FALCONER	115	200579	WARREN		115	1		0.18512	-0.09112	-35.9	133.6		
8857	-1860.3	-479.4	L: Interface	55	PJME-NYENoRE					1388.1	1287.0	0.05433		0.00000	1299.1	1299.1		
			C:SER:HC-SR_37&W-F_171							1600								
			Open	135398	SW345	345	200769	HOMER	CY	345	1		-0.21762	-0.17213	-378.4	-58.2		
			Open	135277	FALCONER	115	200579	WARREN		115	1		-0.18512	-0.09112	-35.9	133.6		
8858	-1833.9	-466.8	*L: Interface	63	PJMW2C					459.0	-0.0	0.25031		0.25031	345.0	-114.1		
			C:GEN:SEAB&OMS							1575								
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2		0.00001	0.00000	-0.1	-0.1		
			Remove unit	1	from bus	102869	SBRK	G1	25.0	1318.0	MW	dispatch						
8859	-1833.9	-466.8	*L: Interface	62	C2PJMW					-459.0	0.0	-0.25031		-0.25031	-345.0	114.1		
			C:GEN:SEABROOK							1573								
			Remove unit	1	from bus	102869	SBRK	G1	25.0	1318.0	MW	dispatch						
8898	-1649.3	-379.3	L: Interface	52	PJMEast-G					59.4	0.0	0.03603		0.00000	0.4	0.4		
			C:SER:HC-SR_37&W-F_171							1600								
			Open	135398	SW345	345	200769	HOMER	CY	345	1		-0.14426	-0.17213	-378.4	-94.5		

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			Open	135277	FALCONER	115	200579	WARREN	115	1				-0.12286	-0.09112	-35.9	114.4
8899	-1649.3	-379.3	L: Interface	51	G-PJMEast						-59.4	-0.0	-0.03603	-0.00000	-0.4	-0.4	
			C:SER:HC-SR_37&W-F_171							1600							
			Open	135398	SW345	345	200769	HOMER CY	345	1				0.14426	-0.17213	-378.4	-94.5
			Open	135277	FALCONER	115	200579	WARREN	115	1				0.12286	-0.09112	-35.9	114.4
8906	-1602.1	-356.9	L: Interface	55	PJME-NYEnoRE						1364.4	1287.0	0.04832	0.00000	1299.1	1299.1	
			C:LKWANA-OXBW							1651							
			Open	417	OXBOW	230	3070	LACKAWNA	230	1				-0.54564	-0.08855	-119.7	22.1
8907	-1602.1	-356.9	L: Interface	56	NYE-PJMENoRE						-1364.4	-1287.0	-0.04832	-0.00000	-1299.1	-1299.1	
			C:LKWANA-OXBW							1651							
			Open	417	OXBOW	230	3070	LACKAWNA	230	1				0.54564	-0.08855	-119.7	22.1
12072	-1364.8	-244.3	L: Interface	52	PJMEast-G						45.9	0.0	0.03365	0.00000	0.4	0.4	
			C:LKWANA-OXBW							1651							
			Open	417	OXBOW	230	3070	LACKAWNA	230	1				-0.38004	-0.08855	-119.7	1.1
12073	-1364.8	-244.3	L: Interface	51	G-PJMEast						-45.9	-0.0	-0.03365	-0.00000	-0.4	-0.4	
			C:LKWANA-OXBW							1651							
			Open	417	OXBOW	230	3070	LACKAWNA	230	1				0.38004	-0.08855	-119.7	1.1
12372	-634.7	101.9	L: Interface	55	PJME-NYEnoRE						1312.7	1287.0	0.04051	0.00000	1299.1	1299.1	
			C:135250 DUNKIRK	230	135251 S RIPLEY	230	1	422									
			Open	135250	DUNKIRK	230	135251	S RIPLEY	230	1				-0.21015	-0.19278	-64.9	57.4
12373	-634.7	101.9	L: Interface	56	NYE-PJMENoRE						-1312.7	-1287.0	-0.04051	-0.00000	-1299.1	-1299.1	
			C:135250 DUNKIRK	230	135251 S RIPLEY	230	1	422									
			Open	135250	DUNKIRK	230	135251	S RIPLEY	230	1				0.21015	-0.19278	-64.9	57.4
12374	-320.3	251.1	L: Interface	55	PJME-NYEnoRE						1311.2	1287.0	0.07568	0.00000	1299.1	1299.1	
			C:SER:ESEE/WRFL							1610							
			Open	270	ERIE SO.	230	531	ERIE SE	230	1				0.00074	0.14648	16.5	-30.4
			Open	531	ERIE SE	230	200654	ERIE E	230	1				0.25719	0.21107	14.7	-53.0
			Open	135277	FALCONER	115	200579	WARREN	115	1				-0.23360	-0.09112	-35.9	-6.7
12375	-320.3	251.1	L: Interface	56	NYE-PJMENoRE						-1311.2	-1287.0	-0.07568	-0.00000	-1299.1	-1299.1	
			C:SER:ESEE/WRFL							1610							
			Open	270	ERIE SO.	230	531	ERIE SE	230	1				-0.00074	0.14648	16.5	-30.4
			Open	531	ERIE SE	230	200654	ERIE E	230	1				-0.25719	0.21107	14.7	-53.0
			Open	135277	FALCONER	115	200579	WARREN	115	1				0.23360	-0.09112	-35.9	-6.7
12376	-231.9	293.0	*L: Interface	56	NYE-PJMENoRE						-1304.5	-1287.0	-0.07565	-0.00000	-1299.1	-1299.1	
			C:SER:EESR/WRFL							1609							
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1				0.25762	-0.21107	11.3	60.2
			Open	135277	FALCONER	115	200579	WARREN	115	1				0.23346	-0.09112	-35.9	-14.8
12377	-231.9	293.0	*L: Interface	55	PJME-NYEnoRE						1304.5	1287.0	0.07565	0.00000	1299.1	1299.1	
			C:SER:EESR/WRFL							1609							
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1				-0.25762	-0.21107	11.3	60.2
			Open	135277	FALCONER	115	200579	WARREN	115	1				-0.23346	-0.09112	-35.9	-14.8
12380	-169.3	322.7	L: Interface	51	G-PJMEast						-8.5	-0.0	-0.05013	-0.00000	-0.4	-0.4	

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			C:SER:ESEE/WRFL			1610										
			Open	270	ERIE SO.	230	531	ERIE SE	230	1		-0.00053	0.14648	16.5	-8.3	
			Open	531	ERIE SE	230	200654	ERIE E	230	1		-0.17025	0.21107	14.7	-21.1	
			Open	135277	FALCONER	115	200579	WARREN	115	1		0.15493	-0.09112	-35.9	-20.5	
12381	-169.3	322.7	L: Interface	52	PJMEast-G						8.5	0.0	0.05013	0.00000	0.4	0.4
			C:SER:ESEE/WRFL													
			Open	270	ERIE SO.	230	531	ERIE SE	230	1		0.00053	0.14648	16.5	-8.3	
			Open	531	ERIE SE	230	200654	ERIE E	230	1		0.17025	0.21107	14.7	-21.1	
			Open	135277	FALCONER	115	200579	WARREN	115	1		-0.15493	-0.09112	-35.9	-20.5	
12384	-80.9	364.6	L: Interface	51	G-PJMEast						-4.1	0.0	-0.05011	-0.00000	-0.4	-0.4
			C:SER:EESR/WRFL													
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1		0.17056	-0.21107	11.3	28.4	
			Open	135277	FALCONER	115	200579	WARREN	115	1		0.15483	-0.09112	-35.9	-28.5	
12385	-80.9	364.6	L: Interface	52	PJMEast-G						4.1	-0.0	0.05011	0.00000	0.4	0.4
			C:SER:EESR/WRFL													
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1		-0.17056	-0.21107	11.3	28.4	
			Open	135277	FALCONER	115	200579	WARREN	115	1		-0.15483	-0.09112	-35.9	-28.5	
12388	36.6	420.4	L: Interface	51	G-PJMEast						2.0	0.0	-0.05539	-0.00000	-0.4	-0.4
			C:SER:EESR/WF/NWES													
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1		0.17354	-0.21107	11.3	3.6	
			Open	135277	FALCONER	115	200579	WARREN	115	1		0.15831	-0.09112	-35.9	-39.2	
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.14357	-0.03017	43.0	41.9	
12389	36.6	420.4	L: Interface	52	PJMEast-G						-2.0	-0.0	0.05539	0.00000	0.4	0.4
			C:SER:EESR/WF/NWES													
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1		-0.17354	-0.21107	11.3	3.6	
			Open	135277	FALCONER	115	200579	WARREN	115	1		-0.15831	-0.09112	-35.9	-39.2	
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		-0.14357	-0.03017	43.0	41.9	
12390	212.1	503.6	L: Interface	52	PJMEast-G						-7.2	0.0	0.03407	0.00000	0.4	0.4
			C:SER:EESR/NWES													
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1		-0.14130	-0.21107	11.3	-33.5	
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		-0.14072	-0.03017	43.0	36.6	
12391	212.1	503.6	L: Interface	51	G-PJMEast						7.2	-0.0	-0.03407	-0.00000	-0.4	-0.4
			C:SER:EESR/NWES													
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1		0.14130	-0.21107	11.3	-33.5	
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.14072	-0.03017	43.0	36.6	
12392	398.7	592.1	L: Interface	49	C-PJMCentral						66.5	-0.0	-0.16672	-0.13222	198.6	145.9
			C:SER:HC-WC_30&W-F_171													
			Open	130757	WATRC345	345	200769	HOMER CY	345	1		0.23847	-0.11809	-543.5	-590.6	
			Open	135277	FALCONER	115	200579	WARREN	115	1		0.06952	-0.09112	-35.9	-72.2	
12393	398.7	592.1	L: Interface	50	PJMCentral-C						-66.5	0.0	0.16672	0.13222	-198.6	-145.9
			C:SER:HC-WC_30&W-F_171													
			Open	130757	WATRC345	345	200769	HOMER CY	345	1		-0.23847	-0.11809	-543.5	-590.6	

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			Open 135277 FALCONER	115	200579	WARREN	115	1				-0.06952	-0.09112	-35.9	-72.2
12396	414.1	599.4	L: Interface 49 C-PJMCentral						61.6	-0.0	-0.14880		-0.13222	198.6	143.8
			C:SER:HCWC/NWES					1607							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.22559	-0.11809	-543.5	-592.4
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.33367	-0.03017	43.0	30.5
12397	414.1	599.4	L: Interface 50 PJMCentral-C						-61.6	0.0	0.14880		0.13222	-198.6	-143.8
			C:SER:HCWC/NWES					1607							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.22559	-0.11809	-543.5	-592.4
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.33367	-0.03017	43.0	30.5
12400	432.8	608.3	L: Interface 50 PJMCentral-C						-69.4	0.0	0.16029		0.13222	-198.6	-141.4
			C:130757 WATRC345	345	200769	HOMER CY	345	1 1374							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.23771	-0.11809	-543.5	-594.6
12401	432.8	608.3	L: Interface 49 C-PJMCentral						69.4	-0.0	-0.16029		-0.13222	198.6	141.4
			C:130757 WATRC345	345	200769	HOMER CY	345	1 1374							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.23771	-0.11809	-543.5	-594.6
12404	459.1	620.7	L: Interface 49 C-PJMCentral						70.0	-0.0	-0.15240		-0.13222	198.6	137.9
			C:BUS:WATERCURE_345					1632							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.14495	-0.11809	-543.5	-597.7
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.20645	0.01483	257.6	264.4
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.14892	0.00000	22.4	22.4
12407	459.1	620.7	L: Interface 50 PJMCentral-C						-70.0	0.0	0.15240		0.13222	-198.6	-137.9
			C:BUS:WATERCURE_345					1632							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.14495	-0.11809	-543.5	-597.7
			Open 130757 WATRC345	345	130768	WATRC230	230	1				0.20645	0.01483	257.6	264.4
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.14892	0.00000	22.4	22.4
12408	815.7	789.9	L: Interface 49 C-PJMCentral						107.9	-0.0	-0.13222		-0.13222	198.6	90.7
			C:GEN:9 MI PT2					1561							
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW dispatch									
12409	815.7	789.9	L: Interface 50 PJMCentral-C						-107.9	0.0	0.13222		0.13222	-198.6	-90.7
			C:GEN:9 MI PT2					1561							
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW dispatch									
12410	861.8	811.8	L: Interface 50 PJMCentral-C						-114.0	0.0	0.13223		0.13222	-198.6	-84.6
			C:HQ-NY-765-New					1776							
			Open 147827 MARCY765	765	147828	MASS 765	765	1							
			Open 147828 MASS 765	765	180819	CHA-NY	765	1							
			Open 147827 MARCY765	765	147833	MARCY T1	345	1				0.01633	0.00008	624.7	624.8
			Open 147827 MARCY765	765	147833	MARCY T1	345	2				0.01633	0.00007	543.6	543.7
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1							
			Open 147838 MASS230B	230	147839	MOSES E	230	1				0.00000	-0.00007	10.3	10.3
			Open 147828 MASS 765	765	147838	MASS230B	230	1							
			Open 147837 MASS230A	230	147839	MOSES E	230	1				-0.05989	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837	MASS230A	230	1							

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			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
			Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch					
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
			Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch					
12411	861.8	811.8	L:	Interface	49	C-PJMCentral				114.0	-0.0	-0.13223		-0.13222	198.6	84.6	
			C:	HQ-NY-765-New						1776							
			Open	147827	MARCY765		765	147828	MASS 765	765	1	NA					
			Open	147828	MASS 765		765	180819	CHA-NY	765	1	NA					
			Open	147827	MARCY765		765	147833	MARCY T1	345	1		-0.01633	0.00008	624.7	624.8	
			Open	147827	MARCY765		765	147833	MARCY T1	345	2		-0.01633	0.00007	543.6	543.7	
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open	147838	MASS230B	230	147839	MOSES E	230	1			-0.00000	-0.00007	10.3	10.3	
			Open	147828	MASS 765		765	147838	MASS230B	230	1	NA					
			Open	147837	MASS230A	230	147839	MOSES E	230	1			0.05989	0.00000	18.8	18.8	
			Open	147828	MASS 765		765	147837	MASS230A	230	1	NA					
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
			Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch					
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
			Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch					
12412	987.8	871.5	L:	Interface	50	PJMCentral-C				-130.6	0.0	0.13222		0.13222	-198.6	-68.0	
			C:	126250	RAMAPO 5	500	126296	RAM PAR	345	1	78						
			Open	126250	RAMAPO 5	500	126296	RAM PAR	345	1			0.06789	0.00000	1001.1	1001.1	
12413	987.8	871.5	L:	Interface	49	C-PJMCentral				130.6	-0.0	-0.13222		-0.13222	198.6	68.0	
			C:	126250	RAMAPO 5	500	126296	RAM PAR	345	1	78						
			Open	126250	RAMAPO 5	500	126296	RAM PAR	345	1			-0.06789	0.00000	1001.1	1001.1	
12414	987.8	871.5	L:	Interface	49	C-PJMCentral				130.6	0.0	-0.13222		-0.13222	198.6	68.0	
			C:	91	JEFFERSN	500	126250	RAMAPO 5	500	1	1351						
			Open	91	JEFFERSN	500	126250	RAMAPO 5	500	1			-0.06789	0.00000	1001.1	1001.1	
12415	987.8	871.5	L:	Interface	50	PJMCentral-C				-130.6	-0.0	0.13222		0.13222	-198.6	-68.0	
			C:	91	JEFFERSN	500	126250	RAMAPO 5	500	1	1351						
			Open	91	JEFFERSN	500	126250	RAMAPO 5	500	1			0.06789	0.00000	1001.1	1001.1	
12416	1012.2	883.1	L:	Interface	49	C-PJMCentral				137.4	0.0	-0.13575		-0.13222	198.6	64.7	
			C:	130757	WATRC345	345	130768	WATRC230	230	1	213						
			Open	130757	WATRC345	345	130768	WATRC230	230	1			-0.23750	0.01483	257.6	272.6	
12417	1012.2	883.1	L:	Interface	50	PJMCentral-C				-137.4	-0.0	0.13575		0.13222	-198.6	-64.7	
			C:	130757	WATRC345	345	130768	WATRC230	230	1	213						
			Open	130757	WATRC345	345	130768	WATRC230	230	1			0.23750	0.01483	257.6	272.6	
12418	1029.4	891.2	*L:	Interface	49	C-PJMCentral				136.3	-0.0	-0.13244		-0.13222	198.6	62.5	

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			C:BUS:WATERCURE_230																		1633
			Open 130768 WATRC230	230	130772	SHRED230	230	1				0.25406	0.01738	71.0	88.9						
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.31246	0.01483	257.6	272.8						
			Open 130763 HILSD230	230	130768	WATRC230	230	1				0.40235	0.00000	0.5	0.5						
12419	1029.4	891.2	*L: Interface	50	PJMCentral-C																
			C:BUS:WATERCURE_230																		1633
			Open 130768 WATRC230	230	130772	SHRED230	230	1				-0.25406	0.01738	71.0	88.9						
			Open 130757 WATRC345	345	130768	WATRC230	230	1				0.31246	0.01483	257.6	272.8						
			Open 130763 HILSD230	230	130768	WATRC230	230	1				-0.40235	0.00000	0.5	0.5						
12444	1203.0	973.6	L: 130801 PAVMT115	115	130857	STOLE115	115	1				-100.4	-179.0	-0.06533							
			C:130857 STOLE115	115	130858	GIRD115	115	1	367												
			Open 130857 STOLE115	115	130858	GIRD115	115	1				-0.37783	0.04937	64.6	124.0						
12453	1219.0	981.2	L: Interface	19	PJM-NY																
			C:GEN:SEAB&OMS																		1575
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				-0.00004	0.00000	-0.1	-0.1						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch															
12454	1219.0	981.2	L: Interface	35	NY-PJM																
			C:GEN:SEAB&OMS																		1575
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00004	0.00000	-0.1	-0.1						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch															
12455	1219.0	981.2	L: Interface	19	PJM-NY																
			C:GEN:SEABROOK																		1573
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch															
12456	1219.0	981.2	L: Interface	35	NY-PJM																
			C:GEN:SEABROOK																		1573
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch															
12463	1224.9	984.0	L: Interface	19	PJM-NY																
			C:SIN:250																		1677
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				-0.00004	0.00000	-0.1	-0.1						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch															
12464	1224.9	984.0	L: Interface	35	NY-PJM																
			C:SIN:250																		1677
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00004	0.00000	-0.1	-0.1						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch															
12465	1241.1	991.7	L: Interface	35	NY-PJM																
			C:GEN:MILLST 3																		1572
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch															
12466	1241.1	991.7	L: Interface	19	PJM-NY																
			C:GEN:MLS3&OMS																		1574
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				-0.00004	0.00000	-0.1	-0.1						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch															
12467	1241.1	991.7	L: Interface	19	PJM-NY																

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			C:GEN:MILLST 3		1572								
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
12468	1241.1	991.7	L: Interface 35 NY-PJM					-2378.6	-3278.0	-0.72463		-0.72463	-1498.2 -2397.6
			C:GEN:MLS3&OMS		1574								
			Open 100508 SANDB115 115 100509 SB RCTOR	115	2			0.00004	0.00000			-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
12481	1303.3	1021.2	L: Interface 35 NY-PJM					-2333.6	-3278.0	-0.72465		-0.72463	-1498.2 -2442.6
			C:HQ-NY-765-New		1776								
			Open 147827 MARCY765 765 147828 MASS 765	765	1		NA						
			Open 147828 MASS 765 765 180819 CHA-NY	765	1		NA						
			Open 147827 MARCY765 765 147833 MARCY T1	345	1			-0.14597	0.00008		624.7	624.8	
			Open 147827 MARCY765 765 147833 MARCY T1	345	2			-0.14597	0.00007		543.6	543.7	
			Open 156 MCY765SW 0.0 147827 MARCY765	765	1		NA						
			Open 147838 MASS230B 230 147839 MOSES E	230	1			0.00000	-0.00007		10.3	10.2	
			Open 147828 MASS 765 765 147838 MASS230B	230	1		NA						
			Open 147837 MASS230A 230 147839 MOSES E	230	1			0.61013	0.00000		18.8	18.8	
			Open 147828 MASS 765 765 147837 MASS230A	230	1		NA						
			Open 158 MS765SW2 0.0 147828 MASS 765	765	1		NA						
			Open 157 MS765SW1 0.0 147828 MASS 765	765	1		NA						
			Decrease bus 180001 BEA-DLX 13.8 generation by				100.0 percent dispatch						
			Set bus 181319 CHAT G3 120 load to				357.0 MW dispatch						
			Decrease bus 180002 BEA-DL 13.8 generation by				100.0 percent dispatch						
			Set bus 181419 CHAT G4 120 load to				357.0 MW dispatch						
12482	1303.3	1021.2	L: Interface 19 PJM-NY					2333.6	3278.0	0.72465		0.72463	1498.2 2442.6
			C:HQ-NY-765-New		1776								
			Open 147827 MARCY765 765 147828 MASS 765	765	1		NA						
			Open 147828 MASS 765 765 180819 CHA-NY	765	1		NA						
			Open 147827 MARCY765 765 147833 MARCY T1	345	1			0.14597	0.00008		624.7	624.8	
			Open 147827 MARCY765 765 147833 MARCY T1	345	2			0.14597	0.00007		543.6	543.7	
			Open 156 MCY765SW 0.0 147827 MARCY765	765	1		NA						
			Open 147838 MASS230B 230 147839 MOSES E	230	1			-0.00000	-0.00007		10.3	10.2	
			Open 147828 MASS 765 765 147838 MASS230B	230	1		NA						
			Open 147837 MASS230A 230 147839 MOSES E	230	1			-0.61013	0.00000		18.8	18.8	
			Open 147828 MASS 765 765 147837 MASS230A	230	1		NA						
			Open 158 MS765SW2 0.0 147828 MASS 765	765	1		NA						
			Open 157 MS765SW1 0.0 147828 MASS 765	765	1		NA						
			Decrease bus 180001 BEA-DLX 13.8 generation by				100.0 percent dispatch						
			Set bus 181319 CHAT G3 120 load to				357.0 MW dispatch						
			Decrease bus 180002 BEA-DL 13.8 generation by				100.0 percent dispatch						
			Set bus 181419 CHAT G4 120 load to				357.0 MW dispatch						
12495	1334.7	1036.1	L: Interface 26 ONTARIO-MICH					367.5	0.0	-0.27537		-0.27537	736.0 368.5
			C:GEN:BRUCE 6		1564								

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			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5	MW	dispatch														
12508	1389.6	1062.1	L: 130801 PAVMT115	115	130857	STOLE115	115	1	-101.8	-179.0	-0.05559	-0.04668	-76.0	-140.9							
			C:135398 SW345	345	135564	SW115	115	1	517												
			Open 135398 SW345	345	135564	SW115	115	1				-0.17605	0.05061	146.2	216.6						
12509	1394.3	1064.4	L: Interface 19 PJM-NY						2267.6	3278.0	0.72463	0.72463	1498.2	2508.6							
			C:GEN:IND PT 3					1555													
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW	dispatch														
12510	1394.3	1064.4	L: Interface 35 NY-PJM						-2267.6	-3278.0	-0.72463	-0.72463	-1498.2	-2508.6							
			C:GEN:IND PT 3					1555													
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW	dispatch														
12523	1408.3	1071.0	L: Interface 35 NY-PJM						-2257.5	-3278.0	-0.72463	-0.72463	-1498.2	-2518.7							
			C:GEN:IND PT 2					1554													
			Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7	MW	dispatch														
12524	1408.3	1071.0	L: Interface 19 PJM-NY						2257.5	3278.0	0.72463	0.72463	1498.2	2518.7							
			C:GEN:IND PT 2					1554													
			Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7	MW	dispatch														
12525	1408.4	1071.0	L: 130799 ERIE 115	115	130801	PAVMT115	115	1	-88.1	-179.0	-0.06455	-0.04630	-64.2	-129.4							
			C:130857 STOLE115	115	130858	GIRD115	115	1	367												
			Open 130857 STOLE115	115	130858	GIRD115	115	1				-0.36975	0.04937	64.6	134.1						
12538	1417.1	1075.2	L: Interface 19 PJM-NY						2251.1	3278.0	0.72463	0.72463	1498.2	2525.1							
			C:GEN:9 MI PT2					1561													
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch														
12539	1417.1	1075.2	L: Interface 35 NY-PJM						-2251.1	-3278.0	-0.72463	-0.72463	-1498.2	-2525.1							
			C:GEN:9 MI PT2					1561													
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch														
12544	1423.7	1078.3	L: 130801 PAVMT115	115	130857	STOLE115	115	1	-88.5	-179.0	-0.06355	-0.04668	-76.0	-142.5							
			C:130806 GARDV115	115	130858	GIRD115	115	1	295												
			Open 130806 GARDV115	115	130858	GIRD115	115	1				0.36205	-0.04660	-34.6	-100.9						
12545	1424.7	1078.8	*L: Interface 51 G-PJMEast						48.0	-0.0	-0.03367	-0.00000	-0.4	-0.4							
			C:SER:C398/NWES					1605													
			Open 409 GROVER	230	200675	E.TWANDA	230	1				0.02734	0.00346	-15.6	-10.6						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.30865	-0.07952	117.6	4.3						
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1				0.01228	0.00075	-52.1	-51.1						
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.30588	-0.03017	43.0	0.0						
12546	1424.7	1078.8	*L: Interface 52 PJMEast-G						-48.0	0.0	0.03367	0.00000	0.4	0.4							
			C:SER:C398/NWES					1605													
			Open 409 GROVER	230	200675	E.TWANDA	230	1				-0.02734	0.00346	-15.6	-10.6						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.30865	-0.07952	117.6	4.3						
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1				-0.01228	0.00075	-52.1	-51.1						
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.30588	-0.03017	43.0	0.0						
12549	1425.1	1078.9	*L: Interface 35 NY-PJM						-2245.4	-3278.0	-0.72463	-0.72463	-1498.2	-2530.8							
			C:GEN:IND PT 3-New					1773													

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				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1		0.00000	0.00000	522.5	522.5		
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2		0.71720	0.00000	-1041.8	-1041.8		
12550	1425.1	1078.9	*L:	Interface	19	PJM-NY						2245.4	3278.0	0.72463	0.72463	1498.2	2530.8
				C:GEN:IND PT 3-New						1773							
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1		0.00000	0.00000	522.5	522.5		
				Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2		-0.71720	0.00000	-1041.8	-1041.8		
12647	1469.1	1099.8	L:	Interface	26	ONTARIO-MICH						398.7	-0.0	-0.27141	-0.27537	736.0	331.4
				C:LAMBT7/LAMBGEN						1646							
				Open 160050 LAMB L4D	345	B\$1020	LAMBTON	T7	1.00	T7		0.06606	0.05993	-234.0	-145.9		
				Open 160064 LAMB T78	220	B\$1020	LAMBTON	T7	1.00	T7		0.72540	0.00000	0.3	0.3		
				Set bus 160705 LAMBTNG4	24.0	generation	to				0.0	MW	dispatch				
12650	1469.6	1100.1	L:	Interface	26	ONTARIO-MICH						398.9	-0.0	-0.27145	-0.27537	736.0	331.3
				C:LAMBT8/LAMBGEN						1647							
				Open 160050 LAMB L4D	345	B\$1021	LAMBTON	T8	1.00	T8		0.06583	0.05948	-232.1	-144.7		
				Open 160064 LAMB T78	220	B\$1021	LAMBTON	T8	1.00	T8		0.72556	0.00000	0.4	0.4		
				Set bus 160705 LAMBTNG4	24.0	generation	to				0.0	MW	dispatch				
15821	1551.6	1139.0	L:	130801 PAVMT115	115	130857	STOLE115	115	1			-98.6	-179.0	-0.05183	-0.04668	-76.0	-148.4
				C:SER:HCWC/NWES						1607							
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1		0.04202	-0.11809	-543.5	-726.8		
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.00621	-0.03017	43.0	-3.8		
15826	1555.2	1140.7	L:	130801 PAVMT115	115	130857	STOLE115	115	1			-98.7	-179.0	-0.05161	-0.04668	-76.0	-148.6
				C:130757 WATRC345	345	200769	HOMER	CY	345	1	1374						
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1		0.04180	-0.11809	-543.5	-727.2		
15839	1561.0	1143.4	L:	130801 PAVMT115	115	130857	STOLE115	115	1			-98.4	-179.0	-0.05163	-0.04668	-76.0	-148.9
				C:BUS:WATERCURE_345						1632							
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1		0.04197	-0.11809	-543.5	-727.9		
				Open 130757 WATRC345	345	130768	WATRC230	230	1			0.00038	0.01483	257.6	280.7		
				Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.01405	0.00000	22.4	22.4		
15856	1567.9	1146.7	L:	135250 DUNKIRK	230	135251	S RIPLEY	230	1			-190.7	-637.0	-0.28464	-0.19278	-64.9	-367.2
				C:SER:HC-SR_37&W-F_171						1600							
				Open 135398 SW345	345	200769	HOMER	CY	345	1		0.28847	-0.17213	-378.4	-648.3		
				Open 135277 FALCONER	115	200579	WARREN	115	1			0.46324	-0.09112	-35.9	-178.8		
15861	1571.0	1148.2	L:	130757 WATRC345	345	130768	WATRC230	230	1			455.1	600.0	0.09223	0.01483	257.6	280.9
				C:130755 OAKDL345	345	130757	WATRC345	345	1	206							
				Open 130755 OAKDL345	345	130757	WATRC345	345	1			-0.74956	-0.10325	-263.5	-425.7		
15868	1582.5	1153.6	L:	135277 FALCONER	115	200579	WARREN	115	1			-94.0	-280.0	-0.11754	-0.09112	-35.9	-180.1
				C:135398 SW345	345	200769	HOMER	CY	345	1	1380						
				Open 135398 SW345	345	200769	HOMER	CY	345	1		0.15350	-0.17213	-378.4	-650.8		
15899	1612.3	1167.7	L:	130799 ERIE 115	115	130801	PAVMT115	115	1			-90.0	-179.0	-0.05522	-0.04630	-64.2	-138.9
				C:135398 SW345	345	135564	SW115	115	1	517							
				Open 135398 SW345	345	135564	SW115	115	1			-0.17620	0.05061	146.2	227.8		
15910	1615.0	1169.0	L:	130799 ERIE 115	115	130801	PAVMT115	115	1			-76.8	-179.0	-0.06328	-0.04630	-64.2	-139.0

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				C:130806 GARDV115	115	130858 GIRD115	115	1	295										
				Open 130806 GARDV115	115	130858 GIRD115	115	1				0.36437	-0.04660	-34.6	-109.8				
15919	1619.5	1171.2	L:	Interface	26	ONTARIO-MICH				439.6	0.0	-0.27141	-0.27537	736.0	290.0				
				C:L4D+G3					1644										
				Open 160050 LAMB L4D	345	B\$1020 LAMBTON T7	1.00	T7				0.06606	0.05993	-234.0	-136.9				
				Open 160064 LAMB T78	220	B\$1020 LAMBTON T7	1.00	T7				0.72540	0.00000	0.3	0.3				
				Open 160069 LAMBTPK2	220	160704 LAMBTNG3	24.0	T3				0.65716	0.00000	62.1	62.1				
				Remove unit 1 from bus 160704 LAMBTNG3	24.0	490.0 MW			dispatch										
15924	1620.0	1171.4	L:	Interface	26	ONTARIO-MICH				439.8	0.0	-0.27145	-0.27537	736.0	289.9				
				C:L51D+G3					1645										
				Open 160050 LAMB L4D	345	B\$1021 LAMBTON T8	1.00	T8				0.06583	0.05948	-232.1	-135.7				
				Open 160064 LAMB T78	220	B\$1021 LAMBTON T8	1.00	T8				0.72556	0.00000	0.4	0.4				
				Open 160069 LAMBTPK2	220	160704 LAMBTNG3	24.0	T3				0.65727	0.00000	62.1	62.1				
				Remove unit 1 from bus 160704 LAMBTNG3	24.0	490.0 MW			dispatch										
15937	1649.2	1185.3	L:	130801 PAVMT115	115	130857 STOLE115	115	1		-97.7	-179.0	-0.04930	-0.04668	-76.0	-153.0				
				C:SER:HC-WC_30&W-F_171					1601										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04152	-0.11809	-543.5	-738.3				
				Open 135277 FALCONER	115	200579 WARREN	115	1				-0.02497	-0.09112	-35.9	-186.2				
15938	1649.4	1185.3	L:	130801 PAVMT115	115	130857 STOLE115	115	1		-89.5	-179.0	-0.05424	-0.04668	-76.0	-153.0				
				C:130806 GARDV115	115	135450 GRDNVLL1	115	1	297										
				Open 130806 GARDV115	115	135450 GRDNVLL1	115	1				-0.12156	0.06224	111.2	213.9				
15969	1724.8	1221.1	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		-114.5	-637.0	-0.30293	-0.21107	11.3	-352.8				
				C:SER:HC-SR_37&W-F_171					1600										
				Open 135398 SW345	345	200769 HOMER CY	345	1				0.28847	-0.17213	-378.4	-675.3				
				Open 135277 FALCONER	115	200579 WARREN	115	1				0.46324	-0.09112	-35.9	-193.1				
15974	1754.0	1235.0	L:	130801 PAVMT115	115	130857 STOLE115	115	1		-87.3	-179.0	-0.05228	-0.04668	-76.0	-157.9				
				C:130857 STOLE115	115	131466 DAVIS115	115	1	368										
				Open 130857 STOLE115	115	131466 DAVIS115	115	1				-0.28642	0.01958	39.4	73.7				
15981	1771.8	1243.4	L:	135277 FALCONER	115	200579 WARREN	115	1		-49.1	-280.0	-0.13032	-0.09112	-35.9	-197.3				
				C:135250 DUNKIRK	230	135251 S RIPLEY	230	1	422										
				Open 135250 DUNKIRK	230	135251 S RIPLEY	230	1				0.20334	-0.19278	-64.9	-406.5				
15986	1790.8	1252.4	L:	130757 WATRC345	345	200769 HOMER CY	345	1		-543.5	-755.0	-0.11809							
				Base Case															
15987	1790.8	1252.4	L:	Interface	48	PJMWest-C				543.5	755.0	0.11809							
				Base Case															
15988	1790.8	1252.4	L:	Interface	60	C2PJMC				-543.5	-755.0	-0.11809							
				Base Case															
15989	1790.8	1252.4	L:	Interface	47	C-PJMWest				-543.5	-755.0	-0.11809							
				Base Case															
15990	1790.8	1252.4	L:	Interface	61	PJMC2C				543.5	755.0	0.11809							
				Base Case															
15991	1792.2	1253.1	L:	130799 ERIE 115	115	130801 PAVMT115	115	1		-86.8	-179.0	-0.05145	-0.04630	-64.2	-147.2				

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					C:SER:HCWC/NWES						1607						
					Open 130757 WATRC345	345	200769	HOMER	CY	345	1	0.04204	-0.11809	-543.5	-755.2		
					Open 130836 N.WAV115	115	200676	E.SAYRE		115	1	0.00621	-0.03017	43.0	-11.1		
15992	1796.9	1255.3	L:	130799	ERIE	115	130801	PAVMT115		115	1	-86.9	-179.0	-0.05124	-0.04630	-64.2	-147.4
					C:130757 WATRC345	345	200769	HOMER	CY	345	1	1374					
					Open 130757 WATRC345	345	200769	HOMER	CY	345	1	0.04181	-0.11809	-543.5	-755.7		
15993	1802.6	1258.0	L:	130799	ERIE	115	130801	PAVMT115		115	1	-86.6	-179.0	-0.05125	-0.04630	-64.2	-147.7
					C:BUS:WATERCURE_345						1632						
					Open 130757 WATRC345	345	200769	HOMER	CY	345	1	0.04198	-0.11809	-543.5	-756.4		
					Open 130757 WATRC345	345	130768	WATRC230		230	1	0.00037	0.01483	257.6	284.3		
					Open 130755 OAKDL345	345	130757	WATRC345		345	1	0.01405	0.00000	22.4	22.4		
15996	1831.9	1271.9	L:	Interface	26	ONTARIO-MICH						504.4	0.0	-0.27535	-0.27537	736.0	231.5
					C:HQ-NY-765-New						1776						
					Open 147827 MARCY765	765	147828	MASS 765		765	1	NA					
					Open 147828 MASS 765	765	180819	CHA-NY		765	1	NA					
					Open 147827 MARCY765	765	147833	MARCY T1		345	1	0.13560	0.00008	624.7	624.8		
					Open 147827 MARCY765	765	147833	MARCY T1		345	2	0.13560	0.00007	543.6	543.7		
					Open 156 MCY765SW	0.0	147827	MARCY765		765	1	NA					
					Open 147838 MASS230B	230	147839	MOSES E		230	1	-0.00000	-0.00007	10.3	10.2		
					Open 147828 MASS 765	765	147838	MASS230B		230	1	NA					
					Open 147837 MASS230A	230	147839	MOSES E		230	1	0.35776	0.00000	18.8	18.8		
					Open 147828 MASS 765	765	147837	MASS230A		230	1	NA					
					Open 158 MS765SW2	0.0	147828	MASS 765		765	1	NA					
					Open 157 MS765SW1	0.0	147828	MASS 765		765	1	NA					
					Decrease bus 180001 BEA-DLX	13.8	generation	by		100.0	percent	dispatch					
					Set bus 181319 CHAT G3	120	load	to		357.0	MW	dispatch					
					Decrease bus 180002 BEA-DL	13.8	generation	by		100.0	percent	dispatch					
					Set bus 181419 CHAT G4	120	load	to		357.0	MW	dispatch					
15997	1835.8	1273.7	L:	135277	FALCONER	115	200579	WARREN		115	1	-32.8	-280.0	-0.13464	-0.09112	-35.9	-203.2
					C:SER:EESR/NWES						1608						
					Open 135251 S RIPLEY	230	200654	ERIE E		230	1	0.20363	-0.21107	11.3	-376.2		
					Open 130836 N.WAV115	115	200676	E.SAYRE		115	1	0.01801	-0.03017	43.0	-12.4		
15998	1838.2	1274.9	L:	135277	FALCONER	115	200579	WARREN		115	1	-33.6	-280.0	-0.13404	-0.09112	-35.9	-203.4
					C:135251 S RIPLEY	230	200654	ERIE E		230	1	1378					
					Open 135251 S RIPLEY	230	200654	ERIE E		230	1	0.20334	-0.21107	11.3	-376.7		
16003	1857.7	1284.1	L:	Interface	26	ONTARIO-MICH						511.5	-0.0	-0.27537	-0.27537	736.0	224.5
					C:GEN:9 MI PT2						1561						
					Remove unit 2 from bus 136700	9M	PT	2G		25.0	1197.5	MW	dispatch				
16004	1873.4	1291.6	L:	130799	ERIE	115	130801	PAVMT115		115	1	-77.9	-179.0	-0.05396	-0.04630	-64.2	-150.9
					C:130806 GARDV115	115	135450	GRDNVL1		115	1	297					
					Open 130806 GARDV115	115	135450	GRDNVL1		115	1	-0.12315	0.06224	111.2	227.8		
16007	1877.0	1293.3	*L:	130801	PAVMT115	115	130857	STOLE115		115	1	-87.3	-179.0	-0.04886	-0.04668	-76.0	-163.6

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			C:130847 ROLL 115	115	130857 STOLE115	115	1	355						
			Open 130847 ROLL 115	115	130857 STOLE115	115	1		0.53214	-0.00411	-21.2	-28.9		
16008	1888.5	1298.8	L: Interface 26 ONTARIO-MICH						520.0	-0.0	-0.27537	-0.27537	736.0	216.0
			C:GEN:NANTCK 8					1565						
			Remove unit 1 from bus 158743 NANTICG8	22.0	490.0 MW	dispatch								
16009	1890.8	1299.9	L: Interface 26 ONTARIO-MICH						520.7	-0.0	-0.27537	-0.27537	736.0	215.3
			C:GEN:PICKER 6					1566						
			Remove unit 1 from bus 156683 PIC B G5	24.0	510.9 MW	dispatch								
16010	1903.0	1305.6	L: 130799 ERIE 115	115	130801 PAVMT115	115	1		-85.9	-179.0	-0.04893	-0.04630	-64.2	-152.3
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.04154	-0.11809	-543.5	-768.2		
			Open 135277 FALCONER	115	200579 WARREN	115	1		-0.02496	-0.09112	-35.9	-209.3		
16011	1906.1	1307.1	*L: Interface 26 ONTARIO-MICH						638.1	-0.0	-0.33476	-0.27537	736.0	211.1
			C:SER:HC-SR_37&W-F_171					1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1		0.23990	-0.17213	-378.4	-706.5		
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.19862	-0.09112	-35.9	-209.6		
16024	1944.6	1325.3	L: 135276 ELLICTVL	115	135564 SW115	115	1		-76.6	-160.0	-0.04291	-0.02438	-42.3	-89.8
			C:130756 STOLE345	345	135398 SW345	345	1	212						
			Open 130756 STOLE345	345	135398 SW345	345	1		0.15245	-0.12152	-224.5	-460.8		
16025	1948.5	1327.2	L: 135276 ELLICTVL	115	135564 SW115	115	1		-76.4	-160.0	-0.04291	-0.02438	-42.3	-89.9
			C:SER:STOLLE345/115					1595						
			Open 130756 STOLE345	345	130857 STOLE115	115	1		-0.15245	0.06100	112.2	231.1		
			Open 130756 STOLE345	345	130857 STOLE115	115	2		-0.15245	0.06052	111.2	229.1		
16046	1994.4	1349.0	L: 130799 ERIE 115	115	130801 PAVMT115	115	1		-75.5	-179.0	-0.05190	-0.04630	-64.2	-156.5
			C:130857 STOLE115	115	131466 DAVIS115	115	1	368						
			Open 130857 STOLE115	115	131466 DAVIS115	115	1		-0.28630	0.01958	39.4	78.4		
16050	2005.3	1354.1	L: 130857 STOLE115	115	130858 GIRD115	115	1		98.4	239.0	0.07013	0.04937	64.6	163.6
			C:130801 PAVMT115	115	130857 STOLE115	115	1	289						
			Open 130801 PAVMT115	115	130857 STOLE115	115	1		-0.44474	-0.04668	-76.0	-169.6		
16056	2020.4	1361.3	L: 135277 FALCONER	115	200579 WARREN	115	1		-35.9	-220.0	-0.09112			
			Base Case											
16058	2023.2	1362.6	L: 135284 MCHS-151	115	135564 SW115	115	1		-76.2	-160.0	-0.04140	-0.02395	-44.0	-92.5
			C:130756 STOLE345	345	135398 SW345	345	1	212						
			Open 130756 STOLE345	345	135398 SW345	345	1		0.14358	-0.12152	-224.5	-470.3		
16060	2027.1	1364.5	L: 135284 MCHS-151	115	135564 SW115	115	1		-76.1	-160.0	-0.04140	-0.02395	-44.0	-92.6
			C:SER:STOLLE345/115					1595						
			Open 130756 STOLE345	345	130857 STOLE115	115	1		-0.14358	0.06100	112.2	235.8		
			Open 130756 STOLE345	345	130857 STOLE115	115	2		-0.14358	0.06052	111.2	233.8		
16080	2069.2	1384.5	L: 135276 ELLICTVL	115	135285 MCHS-152	115	1		72.8	160.0	0.04212	0.02360	38.6	87.4
			C:130756 STOLE345	345	135398 SW345	345	1	212						
			Open 130756 STOLE345	345	135398 SW345	345	1		-0.15245	-0.12152	-224.5	-475.9		
16083	2073.3	1386.4	L: 135276 ELLICTVL	115	135285 MCHS-152	115	1		72.7	160.0	0.04212	0.02360	38.6	87.5

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			C:SER:STOLLE345/115						1595						
			Open 130756 STOLE345	345	130857	STOLE115	115	1		0.15245	0.06100	112.2	238.7		
			Open 130756 STOLE345	345	130857	STOLE115	115	2		0.15245	0.06052	111.2	236.6		
16107	2114.7	1406.0	L: 135277 FALCONER	115	200579	WARREN	115	1		-65.6	-280.0	-0.10139	-0.09112	-35.9	-228.6
			C:135398 SW345	345	135564	SW115	115	1	517						
			Open 135398 SW345		345	135564	SW115	115	1		-0.20297	0.05061	146.2	253.3	
16110	2127.9	1412.3	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1		-147.2	-637.0	-0.23019	-0.19278	-64.9	-475.1
			C:135398 SW345	345	200769	HOMER CY	345	1	1380						
			Open 135398 SW345		345	200769	HOMER CY	345	1		0.21737	-0.17213	-378.4	-744.7	
16119	2141.7	1418.8	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1		-125.5	-637.0	-0.23882	-0.19278	-64.9	-477.8
			C:SER:HC-WC_30&W-F_171						1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.08545	-0.11809	-543.5	-796.4		
			Open 135277 FALCONER	115	200579	WARREN	115	1		0.39454	-0.09112	-35.9	-231.1		
16120	2142.1	1419.1	L: 130801 PAVMT115	115	130857	STOLE115	115	1		-76.0	-176.0	-0.04668			
			Base Case												
16127	2147.9	1421.8	*L: 130799 ERIE 115	115	130801	PAVMT115	115	1		-66.3	-179.0	-0.05247	-0.04630	-64.2	-163.7
			C:135250 DUNKIRK	230	135251	S RIPLEY	230	1	422						
			Open 135250 DUNKIRK		230	135251	S RIPLEY	230	1		0.03204	-0.19278	-64.9	-479.0	
16150	2163.6	1429.2	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1		-64.9	-482.0	-0.19278			
			Base Case												
16177	2175.1	1434.7	L: 130756 STOLE345	345	130857	STOLE115	115	1		192.4	420.0	0.10465	0.06100	112.2	244.9
			C:130756 STOLE345	345	130857	STOLE115	115	2	211						
			Open 130756 STOLE345		345	130857	STOLE115	115	2		0.72128	0.06052	111.2	242.8	
16204	2184.3	1439.1	L: 130756 STOLE345	345	130857	STOLE115	115	2		191.9	420.0	0.10442	0.06052	111.2	243.4
			C:130756 STOLE345	345	130857	STOLE115	115	1	210						
			Open 130756 STOLE345		345	130857	STOLE115	115	1		0.71968	0.06100	112.2	245.4	
16400	2204.1	1448.4	L: 130857 STOLE115	115	130858	GIRD115	115	1		89.9	239.0	0.06765	0.04937	64.6	173.4
			C:130799 ERIE 115	115	130801	PAVMT115	115	1	282						
			Open 130799 ERIE 115		115	130801	PAVMT115	115	1		-0.39469	-0.04630	-64.2	-166.3	
17753	2228.0	1459.8	L: 130857 STOLE115	115	130858	GIRD115	115	1		100.9	239.0	0.06197	0.04937	64.6	174.6
			C:135398 SW345	345	135564	SW115	115	1	517						
			Open 135398 SW345		345	135564	SW115	115	1		0.24880	0.05061	146.2	259.0	
17836	2278.0	1483.5	L: 135251 S RIPLEY	230	200654	ERIE E	230	1		-70.9	-637.0	-0.24849	-0.21107	11.3	-469.5
			C:135398 SW345	345	200769	HOMER CY	345	1	1380						
			Open 135398 SW345		345	200769	HOMER CY	345	1		0.21737	-0.17213	-378.4	-770.5	
17850	2285.8	1487.2	L: 135251 S RIPLEY	230	200654	ERIE E	230	1		-49.3	-637.0	-0.25711	-0.21107	11.3	-471.2
			C:SER:HC-WC_30&W-F_171						1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.08545	-0.11809	-543.5	-813.5		
			Open 135277 FALCONER	115	200579	WARREN	115	1		0.39454	-0.09112	-35.9	-244.2		
17896	2339.1	1512.5	L: 135284 MCHS-151	115	135401	GERNATT	115	1		65.1	160.0	0.04056	0.02377	34.1	89.7
			C:130756 STOLE345	345	135398	SW345	345	1	212						
			Open 130756 STOLE345		345	135398	SW345	345	1		-0.13813	-0.12152	-224.5	-508.7	

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17898	2342.9	1514.3	L: 135284 MCHS-151	115	135401 GERNATT	115	1	65.0	160.0	0.04056	0.02377	34.1	89.8
			C:SER:STOLLE345/115				1595						
			Open 130756 STOLE345	345	130857 STOLE115	115	1			0.13813	0.06100	112.2	255.1
			Open 130756 STOLE345	345	130857 STOLE115	115	2			0.13813	0.06052	111.2	253.0
17922	2371.1	1527.7	L: 135401 GERNATT	115	147875 ARCADE	115	1	63.8	160.0	0.04056	0.02377	32.8	89.2
			C:130756 STOLE345	345	135398 SW345	345	1 212						
			Open 130756 STOLE345	345	135398 SW345	345	1			-0.13813	-0.12152	-224.5	-512.6
17923	2374.9	1529.5	L: 135401 GERNATT	115	147875 ARCADE	115	1	63.7	160.0	0.04056	0.02377	32.8	89.3
			C:SER:STOLLE345/115				1595						
			Open 130756 STOLE345	345	130857 STOLE115	115	1			0.13813	0.06100	112.2	257.1
			Open 130756 STOLE345	345	130857 STOLE115	115	2			0.13813	0.06052	111.2	254.9
17937	2384.7	1534.1	L: 135285 MCHS-152	115	135295 SPVL-152	115	1	60.9	160.0	0.04154	0.02342	27.5	83.3
			C:130756 STOLE345	345	135398 SW345	345	1 212						
			Open 130756 STOLE345	345	135398 SW345	345	1			-0.14912	-0.12152	-224.5	-514.3
17956	2388.7	1536.0	L: 135285 MCHS-152	115	135295 SPVL-152	115	1	60.8	160.0	0.04154	0.02342	27.5	83.4
			C:SER:STOLLE345/115				1595						
			Open 130756 STOLE345	345	130857 STOLE115	115	1			0.14912	0.06100	112.2	257.9
			Open 130756 STOLE345	345	130857 STOLE115	115	2			0.14912	0.06052	111.2	255.7
18010	2414.6	1548.3	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-64.2	-176.0	-0.04630			
			Base Case										
18021	2417.7	1549.8	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	11.3	-499.0	-0.21107			
			Base Case										
18165	2440.9	1560.8	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-79.0	-637.0	-0.22859	-0.19278	-64.9	-535.5
			C:135277 FALCONER	115	200579 WARREN	115	1 1379						
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.39308	-0.09112	-35.9	-258.3
21247	2468.8	1574.0	L: 135277 FALCONER	115	200579 WARREN	115	1	-55.1	-280.0	-0.09112	-0.09112	-35.9	-260.9
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
21595	2478.6	1578.6	L: 135277 FALCONER	115	200579 WARREN	115	1	-54.2	-280.0	-0.09112	-0.09112	-35.9	-261.7
			C:HQ-NY-765-New				1776						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.00291	0.00008	624.7	624.9
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.00291	0.00007	543.6	543.8
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	-0.00007	10.3	10.2
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.02013	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						

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				Set	bus 181319	CHAT G3	120	load	to	357.0 MW	dispatch						
				Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0 percent	dispatch						
				Set	bus 181419	CHAT G4	120	load	to	357.0 MW	dispatch						
22979	2508.3	1592.7	L:	135277	FALCONER	115	200579	WARREN	115	1		-51.5	-280.0	-0.09112	-0.09112	-35.9	-264.5
				C:GEN:BRUCE	6					1564							
				Remove	unit 1	from	bus 159617	BRUCEBG5	24.0	815.5	MW	dispatch					
22993	2516.3	1596.5	L:	135277	FALCONER	115	200579	WARREN	115	1		-50.7	-280.0	-0.09112	-0.09112	-35.9	-265.2
				C:GEN:GINNA						1562							
				Remove	unit 1	from	bus 149140	GINNA 19	19.0	605.0	MW	dispatch					
23035	2546.6	1610.9	L:	130786	COBHL115	115	135295	SPVL-152	115	1		-54.4	-160.0	-0.04145	-0.02329	-20.9	-80.2
				C:130756	STOLE345	345	135398	SW345	345	1	212						
				Open	130756	STOLE345	345	135398	SW345	345	1			0.14950	-0.12152	-224.5	-533.9
23038	2550.6	1612.8	L:	130786	COBHL115	115	135295	SPVL-152	115	1		-54.3	-160.0	-0.04145	-0.02329	-20.9	-80.3
				C:SER:STOLLE345/115						1595							
				Open	130756	STOLE345	345	130857	STOLE115	115	1			-0.14950	0.06100	112.2	267.8
				Open	130756	STOLE345	345	130857	STOLE115	115	2			-0.14950	0.06052	111.2	265.5
23039	2551.5	1613.2	*L:	135277	FALCONER	115	200579	WARREN	115	1		-47.4	-280.0	-0.09115	-0.09112	-35.9	-268.4
				C:GEN:FITZPATR						1559							
				Open	136155	SCRIBA	345	147830	JA FITZP	345	1			0.00283	-0.01135	-67.9	-96.9
				Open	137200	EDIC	345	147830	JA FITZP	345	1			0.01745	0.00000	43.5	43.5
				Remove	unit 1	from	bus 147797	JAFITZ1G	24.0	886.8	MW	dispatch					
23061	2568.7	1621.4	L:	135251	S RIPLEY	230	200654	ERIE E	230	1		-2.8	-637.0	-0.24689	-0.21107	11.3	-530.9
				C:135277	FALCONER	115	200579	WARREN	115	1	1379						
				Open	135277	FALCONER	115	200579	WARREN	115	1			0.39308	-0.09112	-35.9	-270.0
23091	2599.9	1636.2	L:	135250	DUNKIRK	230	135251	S RIPLEY	230	1		-108.3	-637.0	-0.20333	-0.19278	-64.9	-566.1
				C:SER:HCWC/NWES						1607							
				Open	130757	WATRC345	345	200769	HOMER CY	345	1			0.08215	-0.11809	-543.5	-850.6
				Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.02839	-0.03017	43.0	-35.4
23097	2603.6	1637.9	L:	135250	DUNKIRK	230	135251	S RIPLEY	230	1		-94.0	-637.0	-0.20854	-0.19278	-64.9	-566.8
				C:130756	STOLE345	345	135398	SW345	345	1	212						
				Open	130756	STOLE345	345	135398	SW345	345	1			0.12974	-0.12152	-224.5	-540.9
23098	2604.3	1638.3	L:	135250	DUNKIRK	230	135251	S RIPLEY	230	1		-93.9	-637.0	-0.20854	-0.19278	-64.9	-567.0
				C:SER:STOLLE345/115						1595							
				Open	130756	STOLE345	345	130857	STOLE115	115	1			-0.12974	0.06100	112.2	271.1
				Open	130756	STOLE345	345	130857	STOLE115	115	2			-0.12974	0.06052	111.2	268.8
23102	2608.9	1640.4	L:	135250	DUNKIRK	230	135251	S RIPLEY	230	1		-134.1	-637.0	-0.19278	-0.19278	-64.9	-567.8
				C:GEN:9 MI PT2						1561							
				Remove	unit 2	from	bus 136700	9M PT 2G	25.0	1197.5	MW	dispatch					
23103	2609.2	1640.6	L:	135250	DUNKIRK	230	135251	S RIPLEY	230	1		-109.0	-637.0	-0.20236	-0.19278	-64.9	-567.9
				C:130757	WATRC345	345	200769	HOMER CY	345	1	1374						
				Open	130757	WATRC345	345	200769	HOMER CY	345	1			0.08112	-0.11809	-543.5	-851.6
23109	2616.9	1644.2	*L:	135250	DUNKIRK	230	135251	S RIPLEY	230	1		-132.5	-637.0	-0.19278	-0.19278	-64.9	-569.4

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C:HQ-NY-765-New						1776												
			Open	147827	MARCY765	765	147828	MASS	765	765	1		NA					
			Open	147828	MASS	765	180819	CHA-NY		765	1		NA					
			Open	147827	MARCY765	765	147833	MARCY	T1	345	1			0.00734	0.00008	624.7	624.9	
			Open	147827	MARCY765	765	147833	MARCY	T1	345	2			0.00734	0.00007	543.6	543.8	
			Open	156	MCY765SW	0.0	147827	MARCY765		765	1		NA					
			Open	147838	MASS230B	230	147839	MOSES	E	230	1			0.00000	-0.00007	10.3	10.1	
			Open	147828	MASS	765	147838	MASS230B		230	1		NA					
			Open	147837	MASS230A	230	147839	MOSES	E	230	1			0.07105	0.00000	18.8	18.8	
			Open	147828	MASS	765	147837	MASS230A		230	1		NA					
			Open	158	MS765SW2	0.0	147828	MASS	765	765	1		NA					
			Open	157	MS765SW1	0.0	147828	MASS	765	765	1		NA					
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181319	CHAT	G3	120	load	to	357.0	MW	dispatch					
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181419	CHAT	G4	120	load	to	357.0	MW	dispatch					
23139	2632.1	1651.5	L:	130857	STOLE115	115	130858	GIRD115		115	1		92.4	239.0	0.05571	0.04937	64.6	194.5
			C:	SER:HCWC/NWES							1607							
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1			-0.05176	-0.11809	-543.5	-854.4	
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1			-0.00730	-0.03017	43.0	-36.4	
23166	2641.0	1655.7	L:	130857	STOLE115	115	130858	GIRD115		115	1		92.5	239.0	0.05545	0.04937	64.6	195.0
			C:	130757	WATRC345	345	200769	HOMER	CY	345	1	1374						
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1			-0.05149	-0.11809	-543.5	-855.4	
23200	2650.1	1660.0	L:	130857	STOLE115	115	130858	GIRD115		115	1		92.2	239.0	0.05539	0.04937	64.6	195.4
			C:	BUS:WATERCURE_345							1632							
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1			-0.05073	-0.11809	-543.5	-856.5	
			Open	130757	WATRC345	345	130768	WATRC230		230	1			0.00170	0.01483	257.6	296.9	
			Open	130755	OAKDL345	345	130757	WATRC345		345	1			-0.01580	0.00000	22.4	22.4	
23251	2662.1	1665.7	L:	135398	SW345	345	200769	HOMER	CY	345	1		-394.2	-1074.0	-0.25535	-0.17213	-378.4	-836.6
			C:	SER:ESEE/WRFL							1610							
			Open	270	ERIE	SO.	230	531	ERIE	SE	230	1		0.00037	0.14648	16.5	406.4	
			Open	531	ERIE	SE	230	200654	ERIE	E	230	1		-0.24758	0.21107	14.7	576.6	
			Open	135277	FALCONER	115	200579	WARREN		115	1			0.34036	-0.09112	-35.9	-278.5	
26014	2682.0	1675.1	L:	135398	SW345	345	200769	HOMER	CY	345	1		-386.9	-1074.0	-0.25621	-0.17213	-378.4	-840.1
			C:	SER:EESR/WF/NWES							1611							
			Open	135251	S	RIPLEY	230	200654	ERIE	E	230	1		0.24784	-0.21107	11.3	-554.8	
			Open	135277	FALCONER	115	200579	WARREN		115	1			0.34099	-0.09112	-35.9	-280.3	
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1			0.02294	-0.03017	43.0	-37.9	
26209	2687.1	1677.5	L:	135398	SW345	345	200769	HOMER	CY	345	1		-387.8	-1074.0	-0.25536	-0.17213	-378.4	-840.9
			C:	SER:EESR/WRFL							1609							
			Open	135251	S	RIPLEY	230	200654	ERIE	E	230	1		0.24737	-0.21107	11.3	-555.9	
			Open	135277	FALCONER	115	200579	WARREN		115	1			0.34043	-0.09112	-35.9	-280.7	

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26292	2692.8	1680.2	L: 130806 GARDV115	115	130858 GIRD115	115	1	-64.3	-239.0	-0.06487	-0.04660	-34.6	-160.0
			C:130801 PAVMT115	115	130857 STOLE115	115	1 289						
			Open 130801 PAVMT115	115	130857 STOLE115	115	1			0.39142	-0.04668	-76.0	-201.7
26427	2713.8	1690.2	L: 135398 SW345	345	200769 HOMER CY	345	1	-487.1	-1074.0	-0.21627	-0.17213	-378.4	-845.5
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.18369	-0.11809	-543.5	-864.0
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.24634	-0.09112	-35.9	-283.2
26467	2729.2	1697.5	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-32.1	-637.0	-0.22163	-0.21107	11.3	-564.8
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.08215	-0.11809	-543.5	-865.8
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.02839	-0.03017	43.0	-39.3
26468	2729.6	1697.7	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-17.8	-637.0	-0.22684	-0.21107	11.3	-564.8
			C:130756 STOLE345	345	135398 SW345	345	1 212						
			Open 130756 STOLE345	345	135398 SW345	345	1			0.12974	-0.12152	-224.5	-556.2
26470	2730.3	1698.0	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-17.7	-637.0	-0.22684	-0.21107	11.3	-565.0
			C:SER:STOLLE345/115				1595						
			Open 130756 STOLE345	345	130857 STOLE115	115	1			-0.12974	0.06100	112.2	278.7
			Open 130756 STOLE345	345	130857 STOLE115	115	2			-0.12974	0.06052	111.2	276.4
26491	2734.4	1700.0	L: 130857 STOLE115	115	130858 GIRD115	115	1	81.3	239.0	0.05768	0.04937	64.6	199.6
			C:130857 STOLE115	115	131466 DAVIS115	115	1 368						
			Open 130857 STOLE115	115	131466 DAVIS115	115	1			0.42434	0.01958	39.4	92.9
26494	2736.6	1701.0	L: Interface 45 A-PJMWest					-403.0	-1701.0	-0.47432			
			Base Case										
26495	2736.6	1701.0	L: Interface 46 PJMWest-A					403.0	1701.0	0.47432			
			Base Case										
26499	2738.3	1701.8	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-32.8	-637.0	-0.22065	-0.21107	11.3	-566.7
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.08112	-0.11809	-543.5	-866.9
26513	2744.3	1704.7	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-57.8	-637.0	-0.21107	-0.21107	11.3	-567.9
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW		dispatch						
26520	2747.6	1706.3	*L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-31.3	-637.0	-0.22044	-0.21107	11.3	-568.6
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.07869	-0.11809	-543.5	-868.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.00540	0.01483	257.6	298.3
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.06958	0.00000	22.4	22.4
26546	2772.2	1717.9	L: 130857 STOLE115	115	130858 GIRD115	115	1	91.5	239.0	0.05320	0.04937	64.6	201.4
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.05122	-0.11809	-543.5	-870.9
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.02441	-0.09112	-35.9	-288.5
26554	2782.5	1722.8	L: Interface 23 QFW					972.3	0.0	-0.34944	-0.27537	1095.5	329.3
			C:SER:HC-SR_37&W-F_171				1600						

PJMWest-ZoneA-fw-recond

				Open 135398 SW345	345	200769	HOMER CY	345	1		0.30257	-0.17213	-378.4	-857.3		
				Open 135277 FALCONER	115	200579	WARREN	115	1		0.24131	-0.09112	-35.9	-289.4		
26567	2803.9	1733.0	L:	130857 STOLE115	115	130858	GIRD115	115	1	64.6	203.0	0.04937				
				Base Case												
26571	2811.3	1736.5	L:	130857 STOLE115	115	130858	GIRD115	115	1	68.4	239.0	0.06069	0.04937	64.6	203.4	
				C:135250 DUNKIRK	230	135251	S RIPLEY	230	1	422						
				Open 135250 DUNKIRK	230	135251	S RIPLEY	230	1				-0.05872	-0.19278	-64.9	-606.9
26578	2826.7	1743.7	*L:	130857 STOLE115	115	130858	GIRD115	115	1	65.3	239.0	0.06144	0.04937	64.6	204.1	
				C:SER:ESEE/WRFL											1610	
				Open 270 ERIE SO.	230	531	ERIE SE	230	1				-0.00010	0.14648	16.5	430.5
				Open 531 ERIE SE	230	200654	ERIE E	230	1				0.05829	0.21107	14.7	611.3
				Open 135277 FALCONER	115	200579	WARREN	115	1				0.00242	-0.09112	-35.9	-293.5
26583	2832.6	1746.6	L:	Interface 45 A-PJMWest						-550.0	-1991.0	-0.50872	-0.47432	-403.0	-1746.6	
				C:SER:HCWC/NWES											1607	
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.27535	-0.11809	-543.5	-878.0
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.06259	-0.03017	43.0	-42.5
26584	2832.6	1746.6	L:	Interface 46 PJMWest-A						550.0	1991.0	0.50872	0.47432	403.0	1746.6	
				C:SER:HCWC/NWES											1607	
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.27535	-0.11809	-543.5	-878.0
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.06259	-0.03017	43.0	-42.5
26597	2841.8	1750.9	L:	Interface 46 PJMWest-A						551.4	1991.0	0.50657	0.47432	403.0	1750.9	
				C:130757 WATRC345	345	200769	HOMER CY	345	1	1374						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.27308	-0.11809	-543.5	-879.1
26598	2841.8	1750.9	L:	Interface 45 A-PJMWest						-551.4	-1991.0	-0.50657	-0.47432	-403.0	-1750.9	
				C:130757 WATRC345	345	200769	HOMER CY	345	1	1374						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.27308	-0.11809	-543.5	-879.1
26601	2843.2	1751.6	L:	Interface 23 QFW						1079.1	-0.0	-0.37954	-0.27537	1095.5	312.5	
				C:SER:ESEE/WRFL											1610	
				Open 270 ERIE SO.	230	531	ERIE SE	230	1				0.00129	0.14648	16.5	433.0
				Open 531 ERIE SE	230	200654	ERIE E	230	1				-0.36099	0.21107	14.7	614.8
				Open 135277 FALCONER	115	200579	WARREN	115	1				0.30908	-0.09112	-35.9	-295.0
26610	2849.5	1754.6	L:	Interface 45 A-PJMWest						-548.5	-1991.0	-0.50623	-0.47432	-403.0	-1754.6	
				C:BUS:WATERCURE_345											1632	
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.26915	-0.11809	-543.5	-880.0
				Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.00873	0.01483	257.6	299.8
				Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.13647	0.00000	22.4	22.4
26611	2849.5	1754.6	L:	Interface 46 PJMWest-A						548.5	1991.0	0.50623	0.47432	403.0	1754.6	
				C:BUS:WATERCURE_345											1632	
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.26915	-0.11809	-543.5	-880.0
				Open 130757 WATRC345	345	130768	WATRC230	230	1				0.00873	0.01483	257.6	299.8
				Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.13647	0.00000	22.4	22.4
26618	2857.1	1758.2	L:	Interface 53 PJME-NYE						639.3	787.0	0.05170	-0.00000	451.8	451.8	

PJMWest-ZoneA-fw-recond

			C:SER:HC-WC_30&W-F_171							1601							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.33620	-0.11809	-543.5	-880.9		
			Open 135277 FALCONER	115	200579	WARREN	115	1				-0.13169	-0.09112	-35.9	-296.2		
26619	2857.1	1758.2	L: Interface 54 NYE-PJME									-639.3	-787.0	-0.05170	0.00000	-451.8	-451.8
			C:SER:HC-WC_30&W-F_171														
			Open 130757 WATRC345	345	200769	HOMER CY	345	1					0.33620	-0.11809	-543.5	-880.9	
			Open 135277 FALCONER	115	200579	WARREN	115	1					0.13169	-0.09112	-35.9	-296.2	
26622	2859.3	1759.2	L: Interface 23 QFW									1090.5	0.0	-0.38137	-0.27537	1095.5	308.1
			C:SER:EESR/WF/NWES														
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1					0.36124	-0.21107	11.3	-592.2	
			Open 135277 FALCONER	115	200579	WARREN	115	1					0.31051	-0.09112	-35.9	-296.4	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1					0.04852	-0.03017	43.0	-43.3	
26624	2867.4	1763.0	L: Interface 23 QFW									1088.4	-0.0	-0.37959	-0.27537	1095.5	305.9
			C:SER:EESR/WRFL														
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1					0.36023	-0.21107	11.3	-593.9	
			Open 135277 FALCONER	115	200579	WARREN	115	1					0.30933	-0.09112	-35.9	-297.2	
26631	2874.6	1766.5	L: 130806 GARDV115	115	130858	GIRD115	115	1									
			C:130799 ERIE 115	115	130801	PAVMT115	115	1	282								
			Open 130799 ERIE 115	115	130801	PAVMT115	115	1									
26636	2895.1	1776.2	L: 130806 GARDV115	115	130858	GIRD115	115	1									
			C:135398 SW345	345	135564	SW115	115	1	517								
			Open 135398 SW345	345	135564	SW115	115	1									
26679	2929.5	1792.5	L: 135294 SPVL-151	115	147875	ARCADE	115	1									
			C:130756 STOLE345	345	135398	SW345	345	1	212								
			Open 130756 STOLE345	345	135398	SW345	345	1									
26685	2933.5	1794.4	L: 135294 SPVL-151	115	147875	ARCADE	115	1									
			C:SER:STOLLE345/115														
			Open 130756 STOLE345	345	130857	STOLE115	115	1									
			Open 130756 STOLE345	345	130857	STOLE115	115	2									

ZoneC-PJMWest

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, MAY 07 2009 16:14
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From C_EXPORT To HOMER_CY . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 38987 violations

Interface-1 Interface 47 C-PJMWest Init.Flow= -543.53 TDF= 0.2619

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating	LODF	Init Final
1	-9511.4	-3034.8	L: Interface 49 C-PJMCentral C:LKWANA-OXBW Open 417 OXBOW 230 3070 LACKAWNA 230 1	1651	309.4	-0.0	0.03253	0.20717 198.6 -1771.9
2	-9511.4	-3034.8	L: Interface 50 PJMCentral-C C:LKWANA-OXBW Open 417 OXBOW 230 3070 LACKAWNA 230 1	1651	-309.4	0.0	-0.03253	-0.20717 -198.6 1771.9
3	-7085.5	-2399.4	L: Interface 23 QFW C:147834 NIAG 345 345 149000 ROCH 345 345 1 1226 Open 147834 NIAG 345 345 149000 ROCH 345 345 1	1226	1183.0	-0.0	0.16697	0.21220 1095.5 -408.1
4	-6365.4	-2210.8	L: Interface 23 QFW C:GEN:BRUCE 6 Remove unit 1 from bus 159617 BRUCEBG5 24.0 815.5 MW dispatch	1564	1350.8	-0.0	0.21220	0.21220 1095.5 -255.3
5	-6354.1	-2207.8	L: Interface 23 QFW		1185.7	-0.0	0.18661	0.21220 1095.5 -252.9

ZoneC-PJMWest

				C:130754 KINTI345	345	149000	ROCH	345	345	1	205								
				Open	130754	KINTI345	345	149000	ROCH	345	345	1			0.17204	-0.14876	524.7	1469.9	
6	-6036.1	-2124.5	L:	Interface	23	QFW							1109.1	0.0	0.18374		0.21220	1095.5	-185.4
				C:KEY-SHELOCTA/BLAIRSVL-SOCIAL															1650
				Open	505	SHELOCTA	230	521	KEYSTONE	230	1				0.09424	-0.26232	50.1	1633.5	
				Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1				0.08864	-0.04219	100.2	354.9	
7	-5927.9	-2096.2	L:	Interface	23	QFW							1257.9	0.0	0.21220		0.21220	1095.5	-162.5
				C:GEN:NANTCK	8														1565
				Remove unit	1	from bus	158743	NANTICG8	22.0	490.0	MW	dispatch							
8	-5908.9	-2091.2	L:	Interface	23	QFW							1253.9	0.0	0.21220		0.21220	1095.5	-158.4
				C:GEN:PICKER	6														1566
				Remove unit	1	from bus	156683	PIC B G5	24.0	510.9	MW	dispatch							
9	-5897.2	-2088.1	L:	Interface	23	QFW							1082.9	0.0	0.18363		0.21220	1095.5	-155.9
				C:136150 CLAY	345	149001	PANNELL3	345	2	718									
				Open	136150	CLAY	345	149001	PANNELL3	345	2				-0.14111	0.20244	88.8	-1105.1	
10	-5892.9	-2087.0	L:	Interface	23	QFW							1083.0	-0.0	0.18378		0.21220	1095.5	-155.0
				C:136150 CLAY	345	149001	PANNELL3	345	1	717									
				Open	136150	CLAY	345	149001	PANNELL3	345	1				-0.14085	0.20179	88.5	-1100.6	
11	-5828.0	-2070.0	L:	Interface	23	QFW							1087.6	-0.0	0.18661		0.21220	1095.5	-141.2
				C:130754 KINTI345	345	147834	NIAG	345	345	1	204								
				Open	130754	KINTI345	345	147834	NIAG	345	345	1			-0.17204	0.14876	46.0	-821.0	
12	-5668.5	-2028.2	*L:	Interface	23	QFW							1139.5	-0.0	0.20102		0.21220	1095.5	-107.4
				C:130767 STOLE230	230	130770	SHLDN230	230	1	226									
				Open	130767	STOLE230	230	130770	SHLDN230	230	1				0.20184	-0.05537	218.2	532.1	
1768	-4040.5	-1601.8	L:	Interface	26	ONTARIO-MICH							749.2	-0.0	0.18543		0.21220	736.0	-121.4
				C:KEY-SHELOCTA/BLAIRSVL-SOCIAL															1650
				Open	505	SHELOCTA	230	521	KEYSTONE	230	1				0.08784	-0.26232	50.1	1110.0	
				Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1				0.08830	-0.04219	100.2	270.7	
1769	-4014.9	-1595.1	L:	Interface	26	ONTARIO-MICH							773.7	0.0	0.19271		0.21220	736.0	-116.0
				C:147834 NIAG	345	345	149000	ROCH	345	345	1	1226							
				Open	147834	NIAG	345	345	149000	ROCH	345	345	1			0.08935	-0.21811	422.3	1298.0
1771	-3851.8	-1552.4	L:	Interface	26	ONTARIO-MICH							774.9	0.0	0.20118		0.21220	736.0	-81.4
				C:130754 KINTI345	345	149000	ROCH	345	345	1	205								
				Open	130754	KINTI345	345	149000	ROCH	345	345	1				0.07412	-0.14876	524.7	1097.7
1772	-3687.1	-1509.3	L:	Interface	26	ONTARIO-MICH							788.3	-0.0	0.21381		0.21220	736.0	-46.4
				C:BUS:N.S._99															1615
				Open	137453	N.SCOT99	345	147831	GILB	345	345	1			0.00346	0.03016	-310.7	-421.9	
				Open	137453	N.SCOT99	345	147833	MARCY T1	345	1				-0.04494	-0.02919	-916.1	-808.4	
				Open	137453	N.SCOT99	345	137516	N.SCOT1	115	1				-0.00395	-0.00087	118.7	121.9	
				Open	137451	LEEDS 3	345	137453	N.SCOT99	345	2				-0.01445	-0.01315	-858.5	-810.0	
				Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1				0.20105	0.00000	1.6	1.6	
1773	-3686.8	-1509.2	L:	Interface	26	ONTARIO-MICH							762.5	0.0	0.20681		0.21220	736.0	-46.4

ZoneC-PJMWest

			C:W44LC													1642				
			Open 160062	LONGWOOD	220	160074	COWALJ44	220	1					-0.16056	0.01795		189.2	123.0		
			Open 160074	COWALJ44	220	160134	BUCHJW44	220	1					0.16303	-0.01534		334.4	391.0		
			Open 160054	BUCHANAN	220	160134	BUCHJW44	220	1					-0.00035	0.01534		-256.1	-312.7		
			Open 160055	CHATHAM	220	160074	COWALJ44	220	1					0.71981	0.00000		3.1	3.1		
1774	-3686.6	-1509.1	L: Interface	26	ONTARIO-MICH					762.5	0.0	0.20682				0.21220	736.0	-46.3		
			C:W45LC													1643				
			Open 160062	LONGWOOD	220	160075	COWALJ45	220	1					-0.16050	0.01792		189.2	123.1		
			Open 160075	COWALJ45	220	160135	BUCHJW45	220	1					0.16297	-0.01533		334.3	390.8		
			Open 160054	BUCHANAN	220	160135	BUCHJW45	220	1					-0.00035	0.01533		-262.5	-319.0		
			Open 160055	CHATHAM	220	160075	COWALJ45	220	1					0.71977	0.00000		3.1	3.1		
1775	-3675.7	-1506.3	L: Interface	26	ONTARIO-MICH					785.2	0.0	0.21363				0.21220	736.0	-44.0		
			C:SIN:180													1672				
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	1					-0.04888	-0.02919		-916.1	-808.8		
			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1					0.03730	0.00000		119.9	119.9		
			Open 137235	PORTER 1	115	147905	ILION	115	1					-0.00004	-0.00001		88.8	88.8		
1776	-3675.7	-1506.3	L: Interface	26	ONTARIO-MICH					785.2	-0.0	0.21363				0.21220	736.0	-44.0		
			C:SIN:170													1671				
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	1					-0.04888	-0.02919		-916.1	-808.8		
			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1					0.03730	0.00000		119.9	119.9		
			Open 137235	PORTER 1	115	137246	VALLEY	115	1					-0.00005	-0.00002		74.8	74.9		
1777	-3672.9	-1505.5	L: Interface	26	ONTARIO-MICH					778.9	0.0	0.21208				0.21220	736.0	-43.4		
			C:125001	ROCK TAV	345	126297	RAMAPO	345	1	7										
			Open 125001	ROCK TAV	345	126297	RAMAPO	345	1					0.03851	-0.00325		1114.8	1126.7		
1778	-3672.9	-1505.5	*L: Interface	26	ONTARIO-MICH					778.9	0.0	0.21208				0.21220	736.0	-43.4		
			C:SIN:440													1683				
			Open 125001	ROCK TAV	345	126297	RAMAPO	345	1					0.03851	-0.00325		1114.8	1126.7		
3537	-1505.4	-937.8	L: Interface	50	PJMCentral-C					-282.0	0.0	-0.18730				-0.20717	-198.6	113.3		
			C:130753	FRASR345	345	130755	OAKDL345	345	1	200										
			Open 130753	FRASR345	345	130755	OAKDL345	345	1					0.14438	0.13764		-577.5	-784.7		
3538	-1505.4	-937.8	L: Interface	49	C-PJMCentral					282.0	-0.0	0.18730				0.20717	198.6	-113.3		
			C:130753	FRASR345	345	130755	OAKDL345	345	1	200										
			Open 130753	FRASR345	345	130755	OAKDL345	345	1					-0.14438	0.13764		-577.5	-784.7		
3539	-1309.8	-886.6	L: Interface	49	C-PJMCentral					229.8	0.0	0.17545				0.20717	198.6	-72.8		
			C:130755	OAKDL345	345	130757	WATRC345	345	1	206										
			Open 130755	OAKDL345	345	130757	WATRC345	345	1					-0.11844	0.26782		-263.5	-614.3		
3540	-1309.8	-886.6	L: Interface	50	PJMCentral-C					-229.8	-0.0	-0.17545				-0.20717	-198.6	72.8		
			C:130755	OAKDL345	345	130757	WATRC345	345	1	206										
			Open 130755	OAKDL345	345	130757	WATRC345	345	1					0.11844	0.26782		-263.5	-614.3		
3541	-1308.8	-886.3	L: Interface	50	PJMCentral-C					-267.9	-0.0	-0.20466				-0.20717	-198.6	72.6		
			C:130750	COOPC345	345	130753	FRASR345	345	1	192										
			Open 130750	COOPC345	345	130753	FRASR345	345	1					0.06948	0.03611		-997.1	-1044.3		

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3542	-1308.8	-886.3	L: Interface	49	C-PJMCentral				267.9	0.0	0.20466	0.20717	198.6	-72.6	
			C:130750	COOPC345	345	130753	FRASR345	345	1	192					
			Open	130750	COOPC345	345	130753	FRASR345	345	1		-0.06948	0.03611	-997.1	-1044.3
3543	-1184.4	-853.7	L: Interface	49	C-PJMCentral				245.2	-0.0	0.20703	0.20717	198.6	-46.8	
			C:125001	ROCK TAV	345	126297	RAMAPO	345	1	7					
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		0.04182	-0.00325	1114.8	1118.7
3544	-1184.4	-853.7	L: Interface	50	PJMCentral-C				-245.2	0.0	-0.20703	-0.20717	-198.6	46.8	
			C:SIN:440											1683	
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		-0.04182	-0.00325	1114.8	1118.7
3545	-1184.4	-853.7	L: Interface	49	C-PJMCentral				245.2	-0.0	0.20703	0.20717	198.6	-46.8	
			C:SIN:440											1683	
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		0.04182	-0.00325	1114.8	1118.7
3546	-1184.4	-853.7	L: Interface	50	PJMCentral-C				-245.2	0.0	-0.20703	-0.20717	-198.6	46.8	
			C:125001	ROCK TAV	345	126297	RAMAPO	345	1	7					
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1		-0.04182	-0.00325	1114.8	1118.7
3547	-1137.4	-841.4	L: Interface	50	PJMCentral-C				-236.3	-0.0	-0.20772	-0.20717	-198.6	37.0	
			C:BUS:N.S._99											1615	
			Open	137453	N.SCOT99	345	147831	GILB	345	1		0.01348	0.03016	-310.7	-345.0
			Open	137453	N.SCOT99	345	147833	MARCY T1	345	1		0.02908	-0.02919	-916.1	-882.9
			Open	137453	N.SCOT99	345	137516	N.SCOT1	115	1		0.00172	-0.00087	118.7	119.7
			Open	137451	LEEDS 3	345	137453	N.SCOT99	345	2		0.00812	-0.01315	-858.5	-843.5
			Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1		-0.04931	0.00000	1.6	1.6
3548	-1137.4	-841.4	L: Interface	49	C-PJMCentral				236.3	0.0	0.20772	0.20717	198.6	-37.0	
			C:BUS:N.S._99											1615	
			Open	137453	N.SCOT99	345	147831	GILB	345	1		-0.01348	0.03016	-310.7	-345.0
			Open	137453	N.SCOT99	345	147833	MARCY T1	345	1		-0.02908	-0.02919	-916.1	-882.9
			Open	137453	N.SCOT99	345	137516	N.SCOT1	115	1		-0.00172	-0.00087	118.7	119.7
			Open	137451	LEEDS 3	345	137453	N.SCOT99	345	2		-0.00812	-0.01315	-858.5	-843.5
			Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1		0.04931	0.00000	1.6	1.6
3549	-1135.2	-840.9	L: Interface	49	C-PJMCentral				235.2	-0.0	0.20717	0.20717	198.6	-36.6	
			C:GEN:SALEM											1567	
			Remove unit	1	from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch				
3550	-1135.2	-840.9	L: Interface	50	PJMCentral-C				-235.2	0.0	-0.20717	-0.20717	-198.6	36.6	
			C:GEN:SALEM											1567	
			Remove unit	1	from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch				
3551	-1129.6	-839.4	L: Interface	50	PJMCentral-C				-233.8	-0.0	-0.20696	-0.20717	-198.6	35.4	
			C:SER:CMT34&MTR34											1593	
			Open	130750	COOPC345	345	146754	MDTN TAP	345	1		-0.04979	-0.00650	874.1	881.4
			Open	125001	ROCK TAV	345	146754	MDTN TAP	345	1		-0.01956	0.00566	-425.4	-431.7
3552	-1129.6	-839.4	L: Interface	49	C-PJMCentral				233.8	0.0	0.20696	0.20717	198.6	-35.4	
			C:SER:CMT34&MTR34											1593	
			Open	130750	COOPC345	345	146754	MDTN TAP	345	1		0.04979	-0.00650	874.1	881.4

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			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				0.01956	0.00566	-425.4	-431.7
3553	-1127.1	-838.8	*L: Interface	50		PJMCentral-C			-233.5	-0.0	-0.20717		-0.20717	-198.6	34.9
			C:GEN:MARTN CK					1569							
			Remove unit 4	from bus	3151	MTN CK 4	24.0	704.3	MW	dispatch					
3554	-1127.1	-838.8	*L: Interface	49		C-PJMCentral			233.5	0.0	0.20717		0.20717	198.6	-34.9
			C:GEN:MARTN CK					1569							
			Remove unit 4	from bus	3151	MTN CK 4	24.0	704.3	MW	dispatch					
3753	-973.9	-798.6	L: Interface	52		PJMEast-G			-39.7	-0.0	-0.04072		-0.00000	0.4	0.4
			C:ETHS/LLGD					1649							
			Open 130763	HILSD230	230	200675	E.TWANDA	230	1			-0.24403	0.11679	117.6	3.9
			Open 130807	GOUDY115	115	200680	LAUREL L	115	1			-0.29946	0.04079	38.0	-1.8
3754	-973.9	-798.6	L: Interface	51		G-PJMEast			39.7	0.0	0.04072		0.00000	-0.4	-0.4
			C:ETHS/LLGD					1649							
			Open 130763	HILSD230	230	200675	E.TWANDA	230	1			0.24403	0.11679	117.6	3.9
			Open 130807	GOUDY115	115	200680	LAUREL L	115	1			0.29946	0.04079	38.0	-1.8
6389	-957.0	-794.2	L: Interface	51		G-PJMEast			49.0	-0.0	0.05120		0.00000	-0.4	-0.4
			C:SER:ETHS/NWES					1606							
			Open 130763	HILSD230	230	200675	E.TWANDA	230	1			0.30717	0.11679	117.6	5.9
			Open 130836	N.WAV115	115	200676	E.SAYRE	115	1			0.30905	0.04958	43.0	-4.5
6390	-957.0	-794.2	L: Interface	52		PJMEast-G			-49.0	0.0	-0.05120		-0.00000	0.4	0.4
			C:SER:ETHS/NWES					1606							
			Open 130763	HILSD230	230	200675	E.TWANDA	230	1			-0.30717	0.11679	117.6	5.9
			Open 130836	N.WAV115	115	200676	E.SAYRE	115	1			-0.30905	0.04958	43.0	-4.5
6713	-952.1	-792.9	L: Interface	52		PJMEast-G			-76.3	-0.0	-0.08010		-0.00000	0.4	0.4
			C:ETHS/NWES/LLGD					1648							
			Open 130763	HILSD230	230	200675	E.TWANDA	230	1			-0.37609	0.11679	117.6	6.4
			Open 130836	N.WAV115	115	200676	E.SAYRE	115	1			-0.38778	0.04958	43.0	-4.2
			Open 130807	GOUDY115	115	200680	LAUREL L	115	1			-0.41556	0.04079	38.0	-0.9
6714	-952.1	-792.9	L: Interface	51		G-PJMEast			76.3	0.0	0.08010		0.00000	-0.4	-0.4
			C:ETHS/NWES/LLGD					1648							
			Open 130763	HILSD230	230	200675	E.TWANDA	230	1			0.37609	0.11679	117.6	6.4
			Open 130836	N.WAV115	115	200676	E.SAYRE	115	1			0.38778	0.04958	43.0	-4.2
			Open 130807	GOUDY115	115	200680	LAUREL L	115	1			0.41556	0.04079	38.0	-0.9
6869	-935.5	-788.6	L: Interface	52		PJMEast-G			-48.0	-0.0	-0.05128		-0.00000	0.4	0.4
			C:SER:C398/NWES					1605							
			Open 409	GROVER	230	200675	E.TWANDA	230	1			-0.02734	-0.00179	-15.6	-13.9
			Open 130763	HILSD230	230	200675	E.TWANDA	230	1			-0.30865	0.11679	117.6	8.4
			Open 381	TOWANDA	115	200675	E.TWANDA	230	1			-0.01228	0.00919	-52.1	-60.7
			Open 130836	N.WAV115	115	200676	E.SAYRE	115	1			-0.30588	0.04958	43.0	-3.4
6870	-935.5	-788.6	L: Interface	51		G-PJMEast			48.0	0.0	0.05128		0.00000	-0.4	-0.4
			C:SER:C398/NWES					1605							
			Open 409	GROVER	230	200675	E.TWANDA	230	1			0.02734	-0.00179	-15.6	-13.9

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			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		0.30865	0.11679	117.6	8.4	
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1		0.01228	0.00919	-52.1	-60.7	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.30588	0.04958	43.0	-3.4	
7069	-286.8	-618.7	L: Interface 62 C2PJMWest						70.0	0.0	0.24392	0.46909	-345.0	-479.5
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.85505	0.26192	-543.5	-618.7	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.20645	0.00590	257.6	255.9	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.14892	0.00000	22.4	22.4	
7070	-286.8	-618.7	L: Interface 63 PJMW2C						-70.0	-0.0	-0.24392	-0.46909	345.0	479.5
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.85505	0.26192	-543.5	-618.7	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		0.20645	0.00590	257.6	255.9	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.14892	0.00000	22.4	22.4	
7071	-257.5	-611.0	L: Interface 62 C2PJMWest						69.4	0.0	0.26943	0.46909	-345.0	-465.7
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.76229	0.26192	-543.5	-611.0	
7072	-257.5	-611.0	L: Interface 63 PJMW2C						-69.4	-0.0	-0.26943	-0.46909	345.0	465.7
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.76229	0.26192	-543.5	-611.0	
7075	-246.8	-608.2	L: Interface 63 PJMW2C						-61.6	0.0	-0.24971	-0.46909	345.0	460.7
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.77441	0.26192	-543.5	-608.2	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.33367	0.04958	43.0	30.7	
7076	-246.8	-608.2	L: Interface 62 C2PJMWest						61.6	-0.0	0.24971	0.46909	-345.0	-460.7
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.77441	0.26192	-543.5	-608.2	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.33367	0.04958	43.0	30.7	
7079	-244.7	-607.6	L: Interface 63 PJMW2C						-66.5	-0.0	-0.27159	-0.46909	345.0	459.8
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.76153	0.26192	-543.5	-607.6	
			Open 135277 FALCONER	115	200579	WARREN	115	1		-0.06952	0.02817	-35.9	-42.8	
7080	-244.7	-607.6	L: Interface 62 C2PJMWest						66.5	0.0	0.27159	0.46909	-345.0	-459.8
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.76153	0.26192	-543.5	-607.6	
			Open 135277 FALCONER	115	200579	WARREN	115	1		0.06952	0.02817	-35.9	-42.8	
7083	-63.5	-560.2	L: Interface 51 G-PJMEast						2.0	-0.0	0.03194	0.00000	-0.4	-0.4
			C:SER:EESR/WF/NWES					1611						
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1		0.17354	0.11735	11.3	3.9	
			Open 135277 FALCONER	115	200579	WARREN	115	1		0.15831	0.02817	-35.9	-37.7	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.14357	0.04958	43.0	39.8	
7084	-63.5	-560.2	L: Interface 52 PJMEast-G						-2.0	0.0	-0.03194	-0.00000	0.4	0.4
			C:SER:EESR/WF/NWES					1611						

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			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				-0.17354	0.11735	11.3	3.9
			Open 135277 FALCONER	115	200579	WARREN	115	1				-0.15831	0.02817	-35.9	-37.7
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.14357	0.04958	43.0	39.8
7085	157.8	-502.2	L: Interface 55 PJME-NYEnoRE						1279.9	1287.0	0.04475		-0.00000	1299.1	1299.1
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL					1650							
			Open 505 SHELOCTA	230	521	KEYSTONE	230	1				-0.15211	-0.26232	50.1	8.7
			Open 473 BLAIRSVL	138	235253	01SOCIAL	138	1				-0.11486	-0.04219	100.2	93.6
7086	157.8	-502.2	L: Interface 56 NYE-PJMENoRE						-1279.9	-1287.0	-0.04475		0.00000	-1299.1	-1299.1
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL					1650							
			Open 505 SHELOCTA	230	521	KEYSTONE	230	1				0.15211	-0.26232	50.1	8.7
			Open 473 BLAIRSVL	138	235253	01SOCIAL	138	1				0.11486	-0.04219	100.2	93.6
7087	462.6	-422.4	L: Interface 63 PJMW2C						201.1	0.0	-0.43482		-0.46909	345.0	128.0
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755	OAKDL345	345	1				0.24901	0.13764	-577.5	-513.9
7088	462.6	-422.4	L: Interface 62 C2PJMW						-201.1	-0.0	0.43482		0.46909	-345.0	-128.0
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755	OAKDL345	345	1				-0.24901	0.13764	-577.5	-513.9
7089	505.9	-411.0	L: Interface 62 C2PJMW						-235.3	-0.0	0.46512		0.46909	-345.0	-107.6
			C:130750 COOPC345	345	130753	FRASR345	345	1	192						
			Open 130750 COOPC345	345	130753	FRASR345	345	1				-0.10997	0.03611	-997.1	-978.8
7090	505.9	-411.0	L: Interface 63 PJMW2C						235.3	0.0	-0.46512		-0.46909	345.0	107.6
			C:130750 COOPC345	345	130753	FRASR345	345	1	192						
			Open 130750 COOPC345	345	130753	FRASR345	345	1				0.10997	0.03611	-997.1	-978.8
7091	588.2	-389.5	L: Interface 62 C2PJMW						-275.8	-0.0	0.46889		0.46909	-345.0	-69.0
			C:SIN:440					1683							
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.06202	-0.00325	1114.8	1112.9
7092	588.2	-389.5	L: Interface 63 PJMW2C						275.8	0.0	-0.46889		-0.46909	345.0	69.0
			C:SIN:440					1683							
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.06202	-0.00325	1114.8	1112.9
7093	588.2	-389.5	L: Interface 63 PJMW2C						275.8	0.0	-0.46889		-0.46909	345.0	69.0
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.06202	-0.00325	1114.8	1112.9
7094	588.2	-389.5	L: Interface 62 C2PJMW						-275.8	-0.0	0.46889		0.46909	-345.0	-69.0
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1	7						
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.06202	-0.00325	1114.8	1112.9
7095	622.8	-380.4	L: Interface 62 C2PJMW						-292.0	-0.0	0.46877		0.46909	-345.0	-52.8
			C:SER:CMT34&MTR34					1593							
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				0.07475	-0.00650	874.1	870.0
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				0.02900	0.00566	-425.4	-421.8
7096	622.8	-380.4	L: Interface 63 PJMW2C						292.0	0.0	-0.46877		-0.46909	345.0	52.8
			C:SER:CMT34&MTR34					1593							
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				-0.07475	-0.00650	874.1	870.0

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			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				-0.02900	0.00566	-425.4	-421.8
7097	622.9	-380.4	*L: Interface 63 PJMW2C						292.6	-0.0	-0.46966		-0.46909	345.0	52.8
			C:BUS:N.S._99					1615							
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1				0.02371	0.03016	-310.7	-291.9
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				0.03929	-0.02919	-916.1	-934.3
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				0.00206	-0.00087	118.7	118.1
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				0.01059	-0.01315	-858.5	-866.7
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				-0.11732	0.00000	1.6	1.6
7098	622.9	-380.4	*L: Interface 62 C2PJMW						-292.6	0.0	0.46966		0.46909	-345.0	-52.8
			C:BUS:N.S._99					1615							
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1				-0.02371	0.03016	-310.7	-291.9
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.03929	-0.02919	-916.1	-934.3
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				-0.00206	-0.00087	118.7	118.1
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				-0.01059	-0.01315	-858.5	-866.7
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				0.11732	0.00000	1.6	1.6
7099	640.7	-375.7	L: Interface 51 G-PJMEast						-45.9	0.0	0.07168		0.00000	-0.4	-0.4
			C:LKWANA-OXBW					1651							
			Open 417 OXBOW	230	3070	LACKAWNA	230	1				0.38004	0.18862	-119.7	1.1
7100	640.7	-375.7	L: Interface 52 PJMEast-G						45.9	-0.0	-0.07168		-0.00000	0.4	0.4
			C:LKWANA-OXBW					1651							
			Open 417 OXBOW	230	3070	LACKAWNA	230	1				-0.38004	0.18862	-119.7	1.1
10589	948.3	-295.2	L: 130836 N.WAV115	115	200676	E.SAYRE	115	1	43.0	90.0	0.04958				
			Base Case												
10600	983.5	-285.9	L: 130830 MONTR115	115	130845	RIDGT115	115	1	86.6	133.0	0.04721		0.03330	48.5	81.3
			C:130755 OAKDL345	345	131128	LAPEER	345	1	209						
			Open 130755 OAKDL345	345	131128	LAPEER	345	1				-0.06610	-0.21055	-575.7	-782.8
10601	992.9	-283.5	L: Interface 51 G-PJMEast						-46.9	-0.0	0.04725		0.00000	-0.4	-0.4
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.17641	0.26782	-263.5	2.4
10602	992.9	-283.5	L: Interface 52 PJMEast-G						46.9	0.0	-0.04725		-0.00000	0.4	0.4
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.17641	0.26782	-263.5	2.4
10603	1014.7	-277.8	L: 130787 CODNT115	115	130830	MONTR115	115	1	75.3	144.0	0.06767		0.04580	15.5	62.0
			C:130755 OAKDL345	345	131128	LAPEER	345	1	209						
			Open 130755 OAKDL345	345	131128	LAPEER	345	1				-0.10387	-0.21055	-575.7	-789.4
10614	1138.1	-245.4	L: 136154 OSWEGO	345	136702	OSWEGO 5G	22.0	1	-558.2	-1030.0	-0.41455		-0.41455	-557.9	-1029.7
			C:GEN:SEABROOK					1573							
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch									
10615	1138.1	-245.4	L: 136154 OSWEGO	345	136702	OSWEGO 5G	22.0	1	-558.2	-1030.0	-0.41455		-0.41455	-557.9	-1029.7
			C:GEN:SEAB&OMS					1575							
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch									

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10616	1138.2	-245.4	L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1	-558.2	-1030.0	-0.41455	-0.41455	-557.9	-1029.7
			C:GEN:MILLST 3				1572						
			Remove unit 3 from bus 103563 MILL#3			24.0	1276.0 MW	dispatch					
10617	1138.2	-245.4	L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1	-558.2	-1030.0	-0.41455	-0.41455	-557.9	-1029.7
			C:GEN:MLS3&OMS				1574						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3			24.0	1276.0 MW	dispatch					
10618	1138.2	-245.4	L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1	-558.2	-1030.0	-0.41455	-0.41455	-557.9	-1029.7
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G			25.0	1197.5 MW	dispatch					
10619	1138.2	-245.4	L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1	-558.1	-1030.0	-0.41455	-0.41455	-557.9	-1029.8
			C:GEN:SALEM				1567						
			Remove unit 1 from bus 36 SALEM-G1			22.0	1117.3 MW	dispatch					
10620	1138.3	-245.4	L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1	-558.1	-1030.0	-0.41455	-0.41455	-557.9	-1029.8
			C:GEN:IND PT 3				1555						
			Remove unit 1 from bus 147798 IP#3 GEN			22.0	1072.8 MW	dispatch					
10621	1138.3	-245.4	L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1	-558.1	-1030.0	-0.41455	-0.41455	-557.9	-1029.8
			C:GEN:PEACHBTM				1568						
			Remove unit 1 from bus 34 PCHBTM 2			22.0	1060.3 MW	dispatch					
10622	1138.3	-245.4	L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1	-558.1	-1030.0	-0.41455	-0.41455	-557.9	-1029.8
			C:GEN:IND PT 2				1554						
			Remove unit 2 from bus 126651 IND PT 2			22.0	1053.7 MW	dispatch					
10623	1138.3	-245.4	*L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1	-558.1	-1030.0	-0.41455	-0.41455	-557.9	-1029.8
			C:GEN:IND PT 3-New				1773						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			0.00000	0.00000	522.5	522.5
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			0.00021	0.00000	-1041.8	-1041.8
10701	1138.8	-245.3	L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1	-557.9	-1030.0	-0.41455			
			Base Case										
12382	1250.4	-216.0	L: 130830 MONTR115	115	130845 RIDGT115	115	1	68.5	133.0	0.05154	0.03330	48.5	90.1
			C:130830 MONTR115	115	130844 RIDGR115	115	1	333					
			Open 130830 MONTR115	115	130844 RIDGR115	115	1			0.57182	0.03191	35.0	74.9
12387	1506.2	-149.0	L: 136158 INDEPNDC	345	136720 SITH-S6	18.0	1	-161.9	-215.0	-0.03528			
			Base Case										
12388	1506.2	-149.0	L: 136158 INDEPNDC	345	136719 SITH-S5	18.0	1	-161.9	-215.0	-0.03528			
			Base Case										
12389	1518.2	-145.9	L: Interface 52 PJMEast-G					118.3	-0.0	-0.07791	-0.00000	0.4	0.4
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.29437	0.26192	-543.5	-145.9
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.13699	0.00590	257.6	266.5
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.30557	0.00000	22.4	22.4
12390	1518.2	-145.9	L: Interface 51 G-PJMEast					-118.3	0.0	0.07791	0.00000	-0.4	-0.4
			C:BUS:WATERCURE_345				1632						

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				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.29437	0.26192	-543.5	-145.9
				Open 130757 WATRC345	345	130768 WATRC230	230	1				0.13699	0.00590	257.6	266.5
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.30557	0.00000	22.4	22.4
12391	1522.2	-144.8	L:	130814 HILSD115	115	131162 CHEMU115	115	1	105.5	179.0	0.04832		0.01113	68.3	85.3
				C:ETHS/LLGD				1649							
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.27902	0.11679	117.6	295.4
				Open 130807 GOUDY115	115	200680 LAUREL L	115	1				0.11275	0.04079	38.0	100.1
12392	1525.3	-144.0	L:	130800 ETNA 115	115	130827 MILKN115	115	2	-185.7	-255.0	-0.04545		-0.02676	-108.5	-149.4
				C:130800 ETNA 115	115	130827 MILKN115	115	1	286						
				Open 130800 ETNA 115	115	130827 MILKN115	115	1				0.76079	-0.02456	-101.4	-138.9
12393	1584.9	-128.4	L:	130807 GOUDY115	115	130848 S.OWE115	115	1	61.4	143.0	0.05147		0.03845	24.3	85.2
				C:130763 HILSD230	230	130768 WATRC230	230	1	219						
				Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.19959	-0.06525	-186.1	-289.5
12394	1587.2	-127.8	L:	130836 N.WAV115	115	131162 CHEMU115	115	1	-102.3	-179.0	-0.04832		-0.01113	-65.2	-82.9
				C:ETHS/LLGD				1649							
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1				-0.27902	0.11679	117.6	303.0
				Open 130807 GOUDY115	115	200680 LAUREL L	115	1				-0.11275	0.04079	38.0	102.7
12395	1591.5	-126.7	L:	130830 MONTR115	115	130845 RIDGT115	115	1	69.5	133.0	0.03991		0.03330	48.5	101.5
				C:BUS:WATERCURE_230				1633							
				Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.10053	-0.05935	71.0	-23.4
				Open 130757 WATRC345	345	130768 WATRC230	230	1				0.10933	0.00590	257.6	267.0
				Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.10218	0.00000	0.5	0.5
12396	1605.0	-123.1	L:	130830 MONTR115	115	130845 RIDGT115	115	1	68.4	133.0	0.04026		0.03330	48.5	102.0
				C:130763 HILSD230	230	130768 WATRC230	230	1	219						
				Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.10676	-0.06525	-186.1	-290.8
12397	1619.5	-119.3	L:	130830 MONTR115	115	130844 RIDGR115	115	1	71.6	145.0	0.04530		0.03191	35.0	86.7
				C:130755 OAKDL345	345	131128 LAPEER	345	1	209						
				Open 130755 OAKDL345	345	131128 LAPEER	345	1				-0.06357	-0.21055	-575.7	-916.7
12398	1635.3	-115.2	L:	130800 ETNA 115	115	130827 MILKN115	115	1	-182.2	-255.0	-0.04450		-0.02456	-101.4	-141.6
				C:130800 ETNA 115	115	130827 MILKN115	115	2	287						
				Open 130800 ETNA 115	115	130827 MILKN115	115	2				0.74486	-0.02676	-108.5	-152.3
12399	1645.3	-112.6	L:	130792 CORN TP2	115	130800 ETNA 115	115	1	-82.2	-143.0	-0.03694		-0.01825	-50.6	-80.6
				C:130787 CODNT115	115	130800 ETNA 115	115	1	255						
				Open 130787 CODNT115	115	130800 ETNA 115	115	1				0.75959	-0.02461	-41.7	-82.2
12400	1652.8	-110.6	L:	130807 GOUDY115	115	130848 S.OWE115	115	1	53.9	143.0	0.05389		0.03845	24.3	87.8
				C:BUS:WATERCURE_230				1633							
				Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.24198	-0.05935	71.0	-27.1
				Open 130757 WATRC345	345	130768 WATRC230	230	1				0.18211	0.00590	257.6	267.3
				Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.12849	0.00000	0.5	0.5
12401	1653.1	-110.5	L:	130830 MONTR115	115	130844 RIDGR115	115	1	61.8	145.0	0.05031		0.03191	35.0	87.8
				C:130830 MONTR115	115	130845 RIDGT115	115	1	334						
				Open 130830 MONTR115	115	130845 RIDGT115	115	1				0.55241	0.03330	48.5	103.6

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12402	1701.2	-97.9	L: Interface 61 PJMC2C			508.1	0.0	-0.29868	-0.26192	543.5	97.9	
			C:ETHS/NWES/LLGD		1648							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1	-0.19169	0.11679	117.6	316.3	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	-0.16723	0.04958	43.0	127.3	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1	-0.14912	0.04079	38.0	107.4	
12403	1701.2	-97.9	L: Interface 48 PJMWest-C			508.1	0.0	-0.29868	-0.26192	543.5	97.9	
			C:ETHS/NWES/LLGD		1648							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1	-0.19169	0.11679	117.6	316.3	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	-0.16723	0.04958	43.0	127.3	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1	-0.14912	0.04079	38.0	107.4	
12406	1701.2	-97.9	L: Interface 60 C2PJMC			-508.1	-0.0	0.29868	0.26192	-543.5	-97.9	
			C:ETHS/NWES/LLGD		1648							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1	0.19169	0.11679	117.6	316.3	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	0.16723	0.04958	43.0	127.3	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1	0.14912	0.04079	38.0	107.4	
12407	1701.2	-97.9	L: Interface 47 C-PJMWest			-508.1	-0.0	0.29868	0.26192	-543.5	-97.9	
			C:ETHS/NWES/LLGD		1648							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1	0.19169	0.11679	117.6	316.3	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	0.16723	0.04958	43.0	127.3	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1	0.14912	0.04079	38.0	107.4	
12408	1716.8	-93.9	L: 130807 GOUDY115	115	200680 LAUREL L	115	1	38.0	108.0	0.04079		
			Base Case									
12409	1717.8	-93.6	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-120.9	-239.0	-0.06872	-75.0	-165.4
			C:130763 HILSD230	230	130768 WATRC230	230	1	219				
			Open 130763 HILSD230	230	130768 WATRC230	230	1	0.24699	-0.06525	-186.1	-298.2	
12410	1736.8	-88.6	L: 130830 MONTR115	115	130845 RIDGT115	115	1	50.0	133.0	0.04780	48.5	106.3
			C:130814 HILSD115	115	130844 RIDGR115	115	1	309				
			Open 130814 HILSD115	115	130844 RIDGR115	115	1	-0.47665	-0.03043	-3.1	-55.9	
12411	1771.4	-79.6	L: Interface 51 G-PJMEast			-123.5	0.0	0.06973	0.00000	-0.4	-0.4	
			C:SER:HCWC/NWES		1607							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1	0.23819	0.26192	-543.5	-79.6	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	0.14809	0.04958	43.0	130.8	
12412	1771.4	-79.6	L: Interface 52 PJMEast-G			123.5	-0.0	-0.06973	-0.00000	0.4	0.4	
			C:SER:HCWC/NWES		1607							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1	-0.23819	0.26192	-543.5	-79.6	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	-0.14809	0.04958	43.0	130.8	
12413	1774.5	-78.8	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-111.8	-239.0	-0.07167	-75.0	-168.3
			C:BUS:WATERCURE_230		1633							
			Open 130768 WATRC230	230	130772 SHRED230	230	1	0.29871	-0.05935	71.0	-34.3	
			Open 130757 WATRC345	345	130768 WATRC230	230	1	-0.22565	0.00590	257.6	268.0	
			Open 130763 HILSD230	230	130768 WATRC230	230	1	0.14326	0.00000	0.5	0.5	
12414	1786.6	-75.6	L: 130830 MONTR115	115	130845 RIDGT115	115	1	48.5	108.0	0.03330		

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Base Case															
12415	1796.2	-73.1	L: Interface	60	C2PJMC			-517.9	-0.0	0.28833	0.26192	-543.5	-73.1		
			C:SER:C398/NWES												
			Open	409	GROVER	230	200675	E.TWANDA	230	1		-0.00895	-0.00179	-15.6	-18.8
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.16699	0.11679	117.6	327.4
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1		0.00167	0.00919	-52.1	-35.6
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.13855	0.04958	43.0	132.0
12416	1796.2	-73.1	L: Interface	61	PJMC2C			517.9	0.0	-0.28833	-0.26192	543.5	73.1		
			C:SER:C398/NWES												
			Open	409	GROVER	230	200675	E.TWANDA	230	1		0.00895	-0.00179	-15.6	-18.8
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		-0.16699	0.11679	117.6	327.4
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1		-0.00167	0.00919	-52.1	-35.6
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		-0.13855	0.04958	43.0	132.0
12417	1796.2	-73.1	L: Interface	48	PJMWest-C			517.9	0.0	-0.28833	-0.26192	543.5	73.1		
			C:SER:C398/NWES												
			Open	409	GROVER	230	200675	E.TWANDA	230	1		0.00895	-0.00179	-15.6	-18.8
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		-0.16699	0.11679	117.6	327.4
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1		-0.00167	0.00919	-52.1	-35.6
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		-0.13855	0.04958	43.0	132.0
12418	1796.2	-73.1	L: Interface	47	C-PJMWest			-517.9	-0.0	0.28833	0.26192	-543.5	-73.1		
			C:SER:C398/NWES												
			Open	409	GROVER	230	200675	E.TWANDA	230	1		-0.00895	-0.00179	-15.6	-18.8
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.16699	0.11679	117.6	327.4
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1		0.00167	0.00919	-52.1	-35.6
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.13855	0.04958	43.0	132.0
12419	1796.4	-73.0	L: Interface	61	PJMC2C			517.9	0.0	-0.28831	-0.26192	543.5	73.0		
			C:SER:ETHS/NWES												
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		-0.16695	0.11679	117.6	327.4
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		-0.13898	0.04958	43.0	132.1
12420	1796.4	-73.0	L: Interface	48	PJMWest-C			517.9	0.0	-0.28831	-0.26192	543.5	73.0		
			C:SER:ETHS/NWES												
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		-0.16695	0.11679	117.6	327.4
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		-0.13898	0.04958	43.0	132.1
12421	1796.4	-73.0	L: Interface	60	C2PJMC			-517.9	-0.0	0.28831	0.26192	-543.5	-73.0		
			C:SER:ETHS/NWES												
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.16695	0.11679	117.6	327.4
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.13898	0.04958	43.0	132.1
12422	1796.4	-73.0	L: Interface	47	C-PJMWest			-517.9	-0.0	0.28831	0.26192	-543.5	-73.0		
			C:SER:ETHS/NWES												
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.16695	0.11679	117.6	327.4
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.13898	0.04958	43.0	132.1
12423	1817.5	-67.5	L: Interface	61	PJMC2C			565.8	0.0	-0.31130	-0.26192	543.5	67.5		

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				C:KEY-SHELOCTA/BLAIRSVL-SOCIAL		1650									
				Open	505 SHELOCTA	230	521 KEYSTONE	230	1		0.16584	-0.26232	50.1	-426.7	
				Open	473 BLAIRSVL	138	235253 01SOCIAL	138	1		0.13926	-0.04219	100.2	23.6	
12424	1817.5	-67.5	L:	Interface	48 PJMWest-C					565.8	0.0	-0.31130	-0.26192	543.5	67.5
				C:KEY-SHELOCTA/BLAIRSVL-SOCIAL		1650									
				Open	505 SHELOCTA	230	521 KEYSTONE	230	1		0.16584	-0.26232	50.1	-426.7	
				Open	473 BLAIRSVL	138	235253 01SOCIAL	138	1		0.13926	-0.04219	100.2	23.6	
12425	1817.5	-67.5	L:	Interface	60 C2PJMC					-565.8	-0.0	0.31130	0.26192	-543.5	-67.5
				C:KEY-SHELOCTA/BLAIRSVL-SOCIAL		1650									
				Open	505 SHELOCTA	230	521 KEYSTONE	230	1		-0.16584	-0.26232	50.1	-426.7	
				Open	473 BLAIRSVL	138	235253 01SOCIAL	138	1		-0.13926	-0.04219	100.2	23.6	
12426	1817.5	-67.5	L:	Interface	47 C-PJMWest					-565.8	-0.0	0.31130	0.26192	-543.5	-67.5
				C:KEY-SHELOCTA/BLAIRSVL-SOCIAL		1650									
				Open	505 SHELOCTA	230	521 KEYSTONE	230	1		-0.16584	-0.26232	50.1	-426.7	
				Open	473 BLAIRSVL	138	235253 01SOCIAL	138	1		-0.13926	-0.04219	100.2	23.6	
12427	1819.1	-67.1	L:	136150 CLAY	345	136156 VOLNEY	345	1		-705.9	-1032.0	-0.17928			
				Base Case											
12428	1819.5	-67.0	L:	136154 OSWEGO	345	136703 OSWEGO 6G	22.0	1		-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.6
				C:GEN:SEABROOK											
				Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
12429	1819.5	-67.0	L:	136154 OSWEGO	345	136703 OSWEGO 6G	22.0	1		-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.6
				C:GEN:SEAB&OMS											
				Open	100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1	
				Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
12430	1819.6	-66.9	L:	136154 OSWEGO	345	136703 OSWEGO 6G	22.0	1		-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
				C:GEN:MILLST 3											
				Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
12431	1819.6	-66.9	L:	136154 OSWEGO	345	136703 OSWEGO 6G	22.0	1		-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
				C:GEN:MLS3&OMS											
				Open	100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1	
				Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
12432	1819.8	-66.9	L:	136154 OSWEGO	345	136703 OSWEGO 6G	22.0	1		-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
				C:GEN:9 MI PT2											
				Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch						
12433	1819.9	-66.9	L:	136154 OSWEGO	345	136703 OSWEGO 6G	22.0	1		-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
				C:GEN:SALEM											
				Remove unit 1	from bus 36 SALEM-G1	22.0	1117.3	MW	dispatch						
12434	1820.0	-66.8	L:	Interface	60 C2PJMC					-487.9	-0.0	0.26810	0.26192	-543.5	-66.8
				C:BUS:WATERCURE_230											
				Open	130768 WATRC230	230	130772 SHRED230	230	1		-0.08038	-0.05935	71.0	-37.0	
				Open	130757 WATRC345	345	130768 WATRC230	230	1		0.23795	0.00590	257.6	268.3	
				Open	130763 HILSD230	230	130768 WATRC230	230	1		0.06465	0.00000	0.5	0.5	

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12435	1820.0	-66.8	L: Interface 47 C-PJMWest							-487.9	-0.0	0.26810	0.26192	-543.5	-66.8
			C:BUS:WATERCURE_230												
			Open 130768 WATRC230	230	130772	SHRED230	230	1				-0.08038	-0.05935	71.0	-37.0
			Open 130757 WATRC345	345	130768	WATRC230	230	1				0.23795	0.00590	257.6	268.3
			Open 130763 HILSD230	230	130768	WATRC230	230	1				0.06465	0.00000	0.5	0.5
12436	1820.0	-66.8	L: Interface 48 PJMWest-C							487.9	0.0	-0.26810	-0.26192	543.5	66.8
			C:BUS:WATERCURE_230												
			Open 130768 WATRC230	230	130772	SHRED230	230	1				0.08038	-0.05935	71.0	-37.0
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.23795	0.00590	257.6	268.3
			Open 130763 HILSD230	230	130768	WATRC230	230	1				-0.06465	0.00000	0.5	0.5
12437	1820.0	-66.8	L: Interface 61 PJMC2C							487.9	0.0	-0.26810	-0.26192	543.5	66.8
			C:BUS:WATERCURE_230												
			Open 130768 WATRC230	230	130772	SHRED230	230	1				0.08038	-0.05935	71.0	-37.0
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.23795	0.00590	257.6	268.3
			Open 130763 HILSD230	230	130768	WATRC230	230	1				-0.06465	0.00000	0.5	0.5
12438	1820.0	-66.8	L: 136154 OSWEGO	345	136703	OSWGO 6G	22.0	1		-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:IND PT 3												
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch					
12439	1820.0	-66.8	L: 136154 OSWEGO	345	136703	OSWGO 6G	22.0	1		-750.2	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:PEACHBTM												
			Remove unit 1 from bus	34	PCHBTM	2	22.0	1060.3	MW	dispatch					
12440	1820.0	-66.8	L: 136154 OSWEGO	345	136703	OSWGO 6G	22.0	1		-750.2	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:IND PT 2												
			Remove unit 2 from bus	126651	IND PT	2	22.0	1053.7	MW	dispatch					
12441	1820.0	-66.8	*L: 136154 OSWEGO	345	136703	OSWGO 6G	22.0	1		-750.2	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:IND PT 3-New												
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1				0.00000	0.00000	522.5	522.5
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2				0.00027	0.00000	-1041.8	-1041.8
14173	1821.9	-66.3	L: 136154 OSWEGO	345	136703	OSWGO 6G	22.0	1		-750.0	-1030.0	-0.15371			
			Base Case												
14200	1850.3	-58.9	L: Interface 47 C-PJMWest							-507.8	0.0	0.27445	0.26192	-543.5	-58.9
			C:130763 HILSD230	230	130768	WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768	WATRC230	230	1				-0.19194	-0.06525	-186.1	-306.8
14201	1850.3	-58.9	L: Interface 48 PJMWest-C							507.8	-0.0	-0.27445	-0.26192	543.5	58.9
			C:130763 HILSD230	230	130768	WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768	WATRC230	230	1				0.19194	-0.06525	-186.1	-306.8
14202	1850.3	-58.9	L: Interface 61 PJMC2C							507.8	-0.0	-0.27445	-0.26192	543.5	58.9
			C:130763 HILSD230	230	130768	WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768	WATRC230	230	1				0.19194	-0.06525	-186.1	-306.8
14203	1850.3	-58.9	L: Interface 60 C2PJMC							-507.8	0.0	0.27445	0.26192	-543.5	-58.9
			C:130763 HILSD230	230	130768	WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768	WATRC230	230	1				-0.19194	-0.06525	-186.1	-306.8

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14204	1855.5	-57.5	L: Interface 48 PJMWest-C		488.4	-0.0	-0.26319	-0.26192	543.5	57.5
			C:130757 WATRC345 345 130768 WATRC230 230 1 213							
			Open 130757 WATRC345 345 130768 WATRC230 230 1				-0.21423	0.00590	257.6	268.5
14205	1855.5	-57.5	L: Interface 60 C2PJMC		-488.4	0.0	0.26319	0.26192	-543.5	-57.5
			C:130757 WATRC345 345 130768 WATRC230 230 1 213							
			Open 130757 WATRC345 345 130768 WATRC230 230 1				0.21423	0.00590	257.6	268.5
14206	1855.5	-57.5	L: Interface 47 C-PJMWest		-488.4	0.0	0.26319	0.26192	-543.5	-57.5
			C:130757 WATRC345 345 130768 WATRC230 230 1 213							
			Open 130757 WATRC345 345 130768 WATRC230 230 1				0.21423	0.00590	257.6	268.5
14207	1855.5	-57.5	L: Interface 61 PJMC2C		488.4	-0.0	-0.26319	-0.26192	543.5	57.5
			C:130757 WATRC345 345 130768 WATRC230 230 1 213							
			Open 130757 WATRC345 345 130768 WATRC230 230 1				-0.21423	0.00590	257.6	268.5
14208	1859.9	-56.4	L: Interface 47 C-PJMWest		-523.9	0.0	0.28170	0.26192	-543.5	-56.4
			C:ETHS/LLGD 1649							
			Open 130763 HILSD230 230 200675 E.TWANDA 230 1				0.13473	0.11679	117.6	334.9
			Open 130807 GOUDY115 115 200680 LAUREL L 115 1				0.09905	0.04079	38.0	113.8
14209	1859.9	-56.4	L: Interface 60 C2PJMC		-523.9	0.0	0.28170	0.26192	-543.5	-56.4
			C:ETHS/LLGD 1649							
			Open 130763 HILSD230 230 200675 E.TWANDA 230 1				0.13473	0.11679	117.6	334.9
			Open 130807 GOUDY115 115 200680 LAUREL L 115 1				0.09905	0.04079	38.0	113.8
14210	1859.9	-56.4	L: Interface 61 PJMC2C		523.9	-0.0	-0.28170	-0.26192	543.5	56.4
			C:ETHS/LLGD 1649							
			Open 130763 HILSD230 230 200675 E.TWANDA 230 1				-0.13473	0.11679	117.6	334.9
			Open 130807 GOUDY115 115 200680 LAUREL L 115 1				-0.09905	0.04079	38.0	113.8
14211	1859.9	-56.4	L: Interface 48 PJMWest-C		523.9	-0.0	-0.28170	-0.26192	543.5	56.4
			C:ETHS/LLGD 1649							
			Open 130763 HILSD230 230 200675 E.TWANDA 230 1				-0.13473	0.11679	117.6	334.9
			Open 130807 GOUDY115 115 200680 LAUREL L 115 1				-0.09905	0.04079	38.0	113.8
14212	1873.4	-52.8	L: 130814 HILSD115 115 131162 CHEMU115 115 1		99.7	179.0	0.04230	0.01113	68.3	89.2
			C:130763 HILSD230 230 200675 E.TWANDA 230 1 1375							
			Open 130763 HILSD230 230 200675 E.TWANDA 230 1				0.26691	0.11679	117.6	336.4
14213	1892.1	-47.9	L: 136150 CLAY 345 136156 VOLNEY 345 1		-1001.3	-1434.0	-0.22869	-0.17928	-705.9	-1045.1
			C:136150 CLAY 345 136158 INDEPNDC 345 1 712							
			Open 136150 CLAY 345 136158 INDEPNDC 345 1				0.36035	-0.13712	-819.8	-1079.2
14214	1893.5	-47.6	L: 130830 MONTR115 115 130845 RIDGT115 115 1		68.7	133.0	0.03394	0.03330	48.5	111.6
			C:BUS:WATERCURE_345 1632							
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.00067	0.26192	-543.5	-47.6
			Open 130757 WATRC345 345 130768 WATRC230 230 1				0.07981	0.00590	257.6	268.7
			Open 130755 OAKDL345 345 130757 WATRC345 345 1				0.00105	0.00000	22.4	22.4
14215	1894.4	-47.3	L: 130830 MONTR115 115 130845 RIDGT115 115 1		69.0	133.0	0.03377	0.03330	48.5	111.6
			C:130757 WATRC345 345 130768 WATRC230 230 1 213							
			Open 130757 WATRC345 345 130768 WATRC230 230 1				0.07967	0.00590	257.6	268.7

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14237	1964.7	-28.9	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	56.6	143.0	0.04397	0.03845	24.3	99.8
			C:130836 N.WAV115	115	131162 CHEMU115	115	1 347						
			Open 130836 N.WAV115	115	131162 CHEMU115	115	1			-0.49588	-0.01113	-65.2	-87.1
14254	1995.8	-20.8	L: 130830 MONTR115	115	130845 RIDGT115	115	1	60.0	133.0	0.03659	0.03330	48.5	115.0
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1 392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			-0.01756	-0.18770	-652.6	-1027.2
14267	2009.7	-17.2	L: 130792 CORN TP2	115	131397 E.ITH115	115	1	68.8	143.0	0.03694	0.01825	37.1	73.8
			C:130787 CODNT115	115	130800 ETNA 115	115	1 255						
			Open 130787 CODNT115	115	130800 ETNA 115	115	1			-0.75959	-0.02461	-41.7	-91.1
14272	2015.2	-15.7	L: 130830 MONTR115	115	130845 RIDGT115	115	1	66.9	133.0	0.03280	0.03330	48.5	115.6
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1 197						
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.13649	-0.00361	134.7	127.4
14273	2015.5	-15.6	*L: 130830 MONTR115	115	130845 RIDGT115	115	1	66.9	133.0	0.03280	0.03330	48.5	115.6
			C:SER:MEYER_HILLS_D_68				1604						
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.13649	-0.00361	134.5	127.3
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.06734	0.00000	0.1	0.1
14276	2018.8	-14.8	L: 130787 CODNT115	115	130830 MONTR115	115	1	15.5	108.0	0.04580			
			Base Case										
14430	2049.3	-6.8	*L: Interface 52 PJMEast-G					130.8	-0.0	-0.06383	-0.00000	0.4	0.4
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.23382	0.26192	-543.5	-6.8
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.09178	0.02817	-35.9	21.8
14431	2049.3	-6.8	*L: Interface 51 G-PJMEast					-130.8	0.0	0.06383	0.00000	-0.4	-0.4
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.23382	0.26192	-543.5	-6.8
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.09178	0.02817	-35.9	21.8
14528	2061.4	-3.6	L: 136150 CLAY	345	136156 VOLNEY	345	1	-944.4	-1434.0	-0.23751	-0.17928	-705.9	-1075.4
			C:136152 ELBRIDGE	345	136154 OSWEGO	345	1 722						
			Open 136152 ELBRIDGE	345	136154 OSWEGO	345	1			0.34019	-0.17118	-701.1	-1054.0
20251	2076.2	0.3	L: 136150 CLAY	345	136156 VOLNEY	345	1	-940.1	-1434.0	-0.23786	-0.17928	-705.9	-1078.1
			C:SER:OSWEG->LAFAY				1586						
			Open 136152 ELBRIDGE	345	136153 LAFAYTTE	345	1			-0.04364	0.14543	467.7	769.7
			Open 136152 ELBRIDGE	345	136154 OSWEGO	345	1			0.30515	-0.17118	-701.1	-1056.5
			Open 136152 ELBRIDGE	345	136191 ELBRIDGE	115	1			0.01419	0.00000	6.5	6.5
21137	2157.4	21.5	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-91.1	-239.0	-0.06857	-0.05261	-75.0	-188.5
			C:130763 HILSD230	230	200675 E.TWANDA	230	1 1375						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.13669	0.11679	117.6	369.6
21142	2159.3	22.0	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	26.3	143.0	0.05402	0.03845	24.3	107.3
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.05669	0.26192	-543.5	22.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.12286	0.00590	257.6	270.3
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.05534	0.00000	22.4	22.4

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21163	2183.1	28.3	L: 130787 CODNT115	115	130830 MONTR115	115	1	26.5	144.0	0.05383	0.04580	15.5	115.5
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.02840	0.26192	-543.5	28.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.10010	0.00590	257.6	270.4
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.02681	0.00000	22.4	22.4
21168	2192.8	30.8	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	-3.7	143.0	0.06692	0.03845	24.3	108.6
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.10628	0.26782	-263.5	323.7
21173	2208.3	34.9	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-67.3	-239.0	-0.07775	-0.05261	-75.0	-191.2
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.09245	0.26192	-543.5	34.9
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.15732	0.00590	257.6	270.6
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.09121	0.00000	22.4	22.4
21182	2214.0	36.4	L: 130787 CODNT115	115	130830 MONTR115	115	1	-6.1	144.0	0.06780	0.04580	15.5	116.9
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.08214	0.26782	-263.5	329.4
21191	2225.8	39.5	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-37.8	-239.0	-0.09039	-0.05261	-75.0	-192.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.14107	0.26782	-263.5	332.6
21212	2248.8	45.5	L: 130787 CODNT115	115	130830 MONTR115	115	1	39.7	144.0	0.04636	0.04580	15.5	118.5
			C:130757 WATRC345	345	130768 WATRC230	230	1 213						
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.09401	0.00590	257.6	270.8
21228	2277.4	53.0	L: 130787 CODNT115	115	130830 MONTR115	115	1	36.9	144.0	0.04701	0.04580	15.5	119.8
			C:130800 ETNA 115	115	130863 WILET115	115	1 288						
			Open 130800 ETNA 115	115	130863 WILET115	115	1			0.23641	0.00512	90.5	102.2
21229	2280.2	53.7	L: 130791 CORN TP1	115	131397 E.ITH115	115	1	-58.8	-143.0	-0.03694	-0.01825	-27.1	-68.7
			C:130787 CODNT115	115	130800 ETNA 115	115	1 255						
			Open 130787 CODNT115	115	130800 ETNA 115	115	1			0.75959	-0.02461	-41.7	-97.8
21230	2281.5	54.0	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	24.3	112.0	0.03845			
			Base Case										
21231	2286.2	55.3	L: 130830 MONTR115	115	130844 RIDGR115	115	1	35.0	108.0	0.03191			
			Base Case										
21232	2290.0	56.3	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-106.7	-239.0	-0.05777	-0.05261	-75.0	-195.5
			C:130814 HILSD115	115	131162 CHEMU115	115	1 311						
			Open 130814 HILSD115	115	131162 CHEMU115	115	1			-0.46401	0.01113	68.3	93.8
21235	2306.9	60.7	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	52.8	143.0	0.03910	0.03845	24.3	113.0
			C:130757 WATRC345	345	130768 WATRC230	230	1 213						
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.11071	0.00590	257.6	271.2
21244	2315.2	62.9	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-105.2	-239.0	-0.05777	-0.05261	-75.0	-196.8
			C:130836 N.WAV115	115	131162 CHEMU115	115	1 347						
			Open 130836 N.WAV115	115	131162 CHEMU115	115	1			0.46401	-0.01113	-65.2	-91.0
21248	2328.6	66.4	L: Interface	49	C-PJMCentral			198.6	681.0	0.20717			

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			Base Case										
21249	2328.6	66.4	L: Interface	50	PJMCentral-C	-198.6	-681.0	-0.20717					
			Base Case										
21268	2344.9	70.6	L: 130830	MONTR115	115 130844	RIDGR115	115 1	55.2	145.0	0.03828	0.03191	35.0 109.9	
			C:BUS:WATERCURE_230										
			Open 130768				WATRC230	230 130772	SHRED230	230 1	-0.09677	-0.05935	71.0 -68.2
			Open 130757				WATRC345	345 130768	WATRC230	230 1	0.10530	0.00590	257.6 271.4
			Open 130763				HILSD230	230 130768	WATRC230	230 1	-0.09855	0.00000	0.5 0.5
21273	2351.8	72.4	L: 130830	MONTR115	115 130844	RIDGR115	115 1	54.2	145.0	0.03862	0.03191	35.0 110.1	
			C:130763				HILSD230	230 130768	WATRC230	230 1 219			
			Open 130763				HILSD230	230 130768	WATRC230	230 1	-0.10281	-0.06525	-186.1 -339.5
21276	2356.1	73.6	L: 130787	CODNT115	115 130830	MONTR115	115 1	33.2	144.0	0.04701	0.04580	15.5 123.5	
			C:130796				E.NOR115	115 130863	WILET115	115 1 277			
			Open 130796				E.NOR115	115 130863	WILET115	115 1	-0.23641	-0.00512	-74.9 -86.9
21277	2358.5	74.2	L: 136150	CLAY	345 136156	VOLNEY	345 1	-930.1	-1434.0	-0.21367	-0.17928	-705.9 -1128.7	
			C:136150				CLAY	345 136157	9MI PT1	345 1 711			
			Open 136150				CLAY	345 136157	9MI PT1	345 1	0.34265	-0.10036	-654.3 -891.0
21279	2365.7	76.1	L: 130824	LAPER115	115 136247	TULLER H	115 1	-42.5	-145.0	-0.04332	-0.02045	37.0 -11.4	
			C:131128				LAPEER	345 136153	LAFAYTTE	345 1 392			
			Open 131128				LAPEER	345 136153	LAFAYTTE	345 1	0.12181	-0.18770	-652.6 -1096.6
21282	2381.5	80.2	L: 130848	S.OWE115	115 131850	CNYOG115	115 1	20.4	143.0	0.05147	0.03845	-16.7 74.8	
			C:130763				HILSD230	230 130768	WATRC230	230 1 219			
			Open 130763				HILSD230	230 130768	WATRC230	230 1	-0.19959	-0.06525	-186.1 -341.5
21289	2393.5	83.4	L: 130807	GOUDY115	115 130838	OAKDL115	115 1	-107.6	-239.0	-0.05490	-0.05261	-75.0 -200.9	
			C:130835				N.END115	115 130838	OAKDL115	115 1 343			
			Open 130835				N.END115	115 130838	OAKDL115	115 1	0.82074	-0.00280	-39.7 -46.4
21296	2407.3	87.0	L: 130807	GOUDY115	115 130838	OAKDL115	115 1	-110.4	-239.0	-0.05342	-0.05261	-75.0 -201.6	
			C:130757				WATRC345	345 130768	WATRC230	230 1 213			
			Open 130757				WATRC345	345 130768	WATRC230	230 1	-0.13751	0.00590	257.6 271.8
21297	2413.7	88.7	L: 130848	S.OWE115	115 131850	CNYOG115	115 1	12.9	143.0	0.05389	0.03845	-16.7 76.1	
			C:BUS:WATERCURE_230										
			Open 130768				WATRC230	230 130772	SHRED230	230 1	-0.24198	-0.05935	71.0 -72.2
			Open 130757				WATRC345	345 130768	WATRC230	230 1	0.18211	0.00590	257.6 271.8
			Open 130763				HILSD230	230 130768	WATRC230	230 1	-0.12849	0.00000	0.5 0.5
21299	2419.3	90.1	L: 131018	LOUNS115	115 131850	CNYOG115	115 1	-18.5	-143.0	-0.05147	-0.03845	18.7 -74.3	
			C:130763				HILSD230	230 130768	WATRC230	230 1 219			
			Open 130763				HILSD230	230 130768	WATRC230	230 1	0.19959	-0.06525	-186.1 -344.0
21301	2420.2	90.4	L: 136150	CLAY	345 136156	VOLNEY	345 1	-943.5	-1434.0	-0.20266	-0.17928	-705.9 -1139.8	
			C:136156				VOLNEY	345 147833	MARCY T1	345 1 734			
			Open 136156				VOLNEY	345 147833	MARCY T1	345 1	-0.30016	0.07789	791.7 980.2
21324	2449.8	98.1	L: 131018	LOUNS115	115 131850	CNYOG115	115 1	-11.0	-143.0	-0.05389	-0.03845	18.7 -75.5	
			C:BUS:WATERCURE_230										
													1633

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			Open 130768 WATRC230	230	130772 SHRED230	230	1		0.24198	-0.05935	71.0	-74.4	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.18211	0.00590	257.6	272.0	
			Open 130763 HILSD230	230	130768 WATRC230	230	1		0.12849	0.00000	0.5	0.5	
21334	2465.4	102.2	L: 130787 CODNT115	115	130830 MONTR115	115	1	21.4	144.0	0.04973	0.04580	15.5	128.5
			C:130776 BORDR115	115	130823 GUARD115	115	1	237					
			Open 130776 BORDR115	115	130823 GUARD115	115	1		0.22235	0.01768	26.3	69.9	
21335	2465.7	102.3	*L: 130787 CODNT115	115	130830 MONTR115	115	1	21.4	144.0	0.04973	0.04580	15.5	128.5
			C:130809 HALEY115	115	130823 GUARD115	115	1	301					
			Open 130809 HALEY115	115	130823 GUARD115	115	1		-0.22235	-0.01768	-26.3	-69.8	
21339	2477.0	105.2	L: 130814 HILSD115	115	130844 RIDGR115	115	1	-38.0	-145.0	-0.04320	-0.03043	-3.1	-78.5
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209					
			Open 130755 OAKDL345	345	131128 LAPEER	345	1		0.06064	-0.21055	-575.7	-1097.3	
21345	2490.2	108.7	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	30.5	143.0	0.04517	0.03845	24.3	120.0
			C:130807 GOUDY115	115	200680 LAUREL L	115	1	1376					
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1		0.16462	0.04079	38.0	139.6	
21347	2490.7	108.8	L: 130814 HILSD115	115	130844 RIDGR115	115	1	-27.5	-145.0	-0.04718	-0.03043	-3.1	-78.9
			C:130830 MONTR115	115	130845 RIDGT115	115	1	334					
			Open 130830 MONTR115	115	130845 RIDGT115	115	1		-0.50307	0.03330	48.5	131.4	
21387	2509.4	113.7	L: 130787 CODNT115	115	130791 CORN TP1	115	1	-45.3	-143.0	-0.03894	-0.02024	-13.6	-64.4
			C:130787 CODNT115	115	130800 ETNA 115	115	1	255					
			Open 130787 CODNT115	115	130800 ETNA 115	115	1		0.75959	-0.02461	-41.7	-103.4	
22979	2586.6	134.0	L: 130814 HILSD115	115	131162 CHEMU115	115	1	84.4	179.0	0.03657	0.01113	68.3	97.1
			C:130807 GOUDY115	115	130848 S.OWE115	115	1	299					
			Open 130807 GOUDY115	115	130848 S.OWE115	115	1		0.66158	0.03845	24.3	123.7	
22999	2629.4	145.2	*L: 130807 GOUDY115	115	130848 S.OWE115	115	1	29.2	143.0	0.04330	0.03845	24.3	125.4
			C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375					
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.04149	0.11679	117.6	424.7	
23003	2637.6	147.3	L: 136158 INDEPNDC	345	136719 SITH-S5	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:SEAB&OMS				1575						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
23004	2637.6	147.3	L: 136158 INDEPNDC	345	136719 SITH-S5	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:SEABROOK				1573						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
23005	2637.6	147.3	L: 136158 INDEPNDC	345	136720 SITH-S6	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:SEABROOK				1573						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
23006	2637.6	147.3	L: 136158 INDEPNDC	345	136720 SITH-S6	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:SEAB&OMS				1575						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
23007	2637.6	147.3	L: 136158 INDEPNDC	345	136720 SITH-S6	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9

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			C:GEN:MILLST 3			1572						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
23008	2637.6	147.3	L: 136158 INDEPNDC 345 136719 SITH-S5	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:MILLST 3			1572						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
23009	2637.6	147.3	L: 136158 INDEPNDC 345 136719 SITH-S5	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:MLS3&OMS			1574						
			Open 100508 SANDB115 115 100509 SB RCTOR	115	2			0.00000	0.00000		-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
23010	2637.6	147.3	L: 136158 INDEPNDC 345 136720 SITH-S6	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:MLS3&OMS			1574						
			Open 100508 SANDB115 115 100509 SB RCTOR	115	2			0.00000	0.00000		-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
23011	2637.8	147.4	L: 136158 INDEPNDC 345 136719 SITH-S5	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:9 MI PT2			1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch					
23012	2637.8	147.4	L: 136158 INDEPNDC 345 136720 SITH-S6	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:9 MI PT2			1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch					
23013	2637.9	147.4	L: 136158 INDEPNDC 345 136719 SITH-S5	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:SALEM			1567						
			Remove unit 1 from bus 36 SALEM-G1	22.0	1117.3	MW	dispatch					
23014	2637.9	147.4	L: 136158 INDEPNDC 345 136720 SITH-S6	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:SALEM			1567						
			Remove unit 1 from bus 36 SALEM-G1	22.0	1117.3	MW	dispatch					
23015	2638.0	147.4	L: 136158 INDEPNDC 345 136719 SITH-S5	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:IND PT 3			1555						
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW	dispatch					
23016	2638.0	147.4	L: 136158 INDEPNDC 345 136720 SITH-S6	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:IND PT 3			1555						
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW	dispatch					
23017	2638.0	147.4	L: 136158 INDEPNDC 345 136719 SITH-S5	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:PEACHBTM			1568						
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1060.3	MW	dispatch					
23018	2638.0	147.4	L: 136158 INDEPNDC 345 136720 SITH-S6	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:PEACHBTM			1568						
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1060.3	MW	dispatch					
23019	2638.0	147.4	L: 136158 INDEPNDC 345 136720 SITH-S6	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:IND PT 2			1554						
			Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7	MW	dispatch					
23020	2638.0	147.4	L: 136158 INDEPNDC 345 136719 SITH-S5	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:IND PT 2			1554						

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			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.07675	0.00590	257.6	274.0
27929	2805.6	191.3	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-44.7	143.0	0.06692	0.03845	-16.7	91.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.10628	0.26782	-263.5	487.9
28117	2810.5	192.6	L: 135277 FALCONER	115	200579 WARREN	115	1	-32.8	116.0	0.05296	0.02817	-35.9	43.3
			C:SER:EESR/NWES				1608						
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			0.20363	0.11735	11.3	341.1
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.01801	0.04958	43.0	182.3
28146	2812.7	193.2	L: 130830 MONTR115	115	130844 RIDGR115	115	1	46.2	145.0	0.03512	0.03191	35.0	124.8
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1 392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			-0.01711	-0.18770	-652.6	-1180.5
28239	2834.7	198.9	L: 131018 LOUNSD115	115	131850 CNYOG115	115	1	46.7	-143.0	-0.06692	-0.03845	18.7	-90.3
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.10628	0.26782	-263.5	495.7
28275	2861.8	206.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	17.2	143.0	0.04397	0.03845	-16.7	93.3
			C:130814 HILSD115	115	131162 CHEMU115	115	1 311						
			Open 130814 HILSD115	115	131162 CHEMU115	115	1			0.49588	0.01113	68.3	100.2
28277	2862.3	206.2	L: 130795 DEPEW115	115	135439 TUNGSTEN	115	1	-20.1	-120.0	-0.03492	-0.01742	-7.3	-57.1
			C:135437 CLSP-181	115	135495 YNG-181	115	1 556						
			Open 135437 CLSP-181	115	135495 YNG-181	115	1			0.55616	-0.03147	-23.0	-113.1
28280	2870.3	208.3	L: 130755 OAKDL345	345	131128 LAPEER	345	1	-732.8	-1380.0	-0.22547	-0.21055	-575.7	-1180.1
			C:130753 FRASR345	345	137200 EDIC	345	1 202						
			Open 130753 FRASR345	345	137200 EDIC	345	1			0.22229	-0.06711	-706.7	-899.4
28284	2875.5	209.6	L: 135277 FALCONER	115	200579 WARREN	115	1	-33.6	116.0	0.05203	0.02817	-35.9	45.1
			C:135251 S RIPLEY	230	200654 ERIE E	230	1 1378						
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			0.20334	0.11735	11.3	348.7
28297	2897.2	215.3	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	15.6	143.0	0.04397	0.03845	-16.7	94.7
			C:130836 N.WAV115	115	131162 CHEMU115	115	1 347						
			Open 130836 N.WAV115	115	131162 CHEMU115	115	1			-0.49588	-0.01113	-65.2	-97.5
28302	2906.1	217.6	L: 131018 LOUNSD115	115	131850 CNYOG115	115	1	-15.2	-143.0	-0.04397	-0.03845	18.7	-93.1
			C:130814 HILSD115	115	131162 CHEMU115	115	1 311						
			Open 130814 HILSD115	115	131162 CHEMU115	115	1			-0.49588	0.01113	68.3	100.7
28311	2917.3	220.6	L: 131128 LAPEER	345	136153 LAFAYTTE	345	1	-793.4	-1380.0	-0.20108	-0.18770	-652.6	-1200.1
			C:130753 FRASR345	345	137200 EDIC	345	1 202						
			Open 130753 FRASR345	345	137200 EDIC	345	1			0.19928	-0.06711	-706.7	-902.5
28313	2918.3	220.8	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-14.7	143.0	0.05402	0.03845	-16.7	95.5
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.05669	0.26192	-543.5	220.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.12286	0.00590	257.6	274.8
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.05534	0.00000	22.4	22.4
28316	2924.6	222.5	*L: 130830 MONTR115	115	130844 RIDGR115	115	1	53.1	145.0	0.03143	0.03191	35.0	128.4
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1 197						

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			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1		0.13399	-0.00361	134.7	124.1	
28321	2929.5	223.8	L: 130795 DEPEW115	115	135439	TUNGSTEN	115	1	-24.6	-120.0	-0.03258	-0.01742	-7.3	-58.3
			C:135442 ECWA-181	115	135495	YNG-181	115	1	561					
			Open 135442 ECWA-181	115	135495	YNG-181	115	1		-0.48644	0.03117	35.6	126.9	
28328	2941.5	226.9	L: 131018 LOUNS115	115	131850	CNYOG115	115	1	-13.7	-143.0	-0.04397	-0.03845	18.7	-94.4
			C:130836 N.WAV115	115	131162	CHEMU115	115	1	347					
			Open 130836 N.WAV115	115	131162	CHEMU115	115	1		0.49588	-0.01113	-65.2	-98.0	
28335	2949.5	229.0	L: 136152 ELBRIDGE	345	136154	OSWEGO	345	1	-701.1	-1206.0	-0.17118			
			Base Case											
28340	2954.3	230.3	L: 131018 LOUNS115	115	131850	CNYOG115	115	1	16.6	-143.0	-0.05402	-0.03845	18.7	-94.9
			C:BUS:WATERCURE_345											1632
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.05669	0.26192	-543.5	230.3	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.12286	0.00590	257.6	275.0	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.05534	0.00000	22.4	22.4	
28352	2977.9	236.4	L: 130795 DEPEW115	115	135439	TUNGSTEN	115	1	-29.9	-120.0	-0.03026	-0.01742	-7.3	-59.1
			C:135451 PARADISE	115	135458	NI.B-181	115	1	583					
			Open 135451 PARADISE	115	135458	NI.B-181	115	1		-0.41462	0.03097	54.6	146.8	

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, MAY 07 2009 16:14
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-pjm-ny-3-115-os.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Exclud.File STARS.exc

Study transfer. From C_EXPORT To HOMER_CY . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 38817 violations

Interface-1 Interface 47 C-PJMWest Init.Flow= -536.11 TDF= 0.2733

N	FCITC	IntFcel	L: Limiting constraint		PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating	LODF	Init	Final
1	-9203.5	-3051.8	L: Interface 50 PJMCentral-C		-300.3	-0.0	-0.03263	-0.17632	-167.2 1455.6
			C:LKWANA-OXBW	1648					
			Open 417 OXBOW 230 3070 LACKAWNA	230 1			0.89722	0.16015	-148.4 -1622.3
2	-9203.5	-3051.8	L: Interface 49 C-PJMCentral		300.3	0.0	0.03263	0.17632	167.2 -1455.6
			C:LKWANA-OXBW	1648					
			Open 417 OXBOW 230 3070 LACKAWNA	230 1			-0.89722	0.16015	-148.4 -1622.3
3	-6507.1	-2314.8	L: Interface 23 QFW		1187.7	0.0	0.18253	0.22996	1101.5 -394.9
			C:147834 NIAG 345 345 149000 ROCH 345 345 1 1226						
			Open 147834 NIAG 345 345 149000 ROCH 345 345 1				0.20932	-0.22657	412.2 1886.5
4	-5886.4	-2145.1	L: Interface 23 QFW		1353.6	0.0	0.22996	0.22996	1101.5 -252.2
			C:GEN:BRUCE 6	1561					
			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5 MW	dispatch			
5	-5864.7	-2139.2	L: Interface 23 QFW		1191.3	-0.0	0.20314	0.22996	1101.5 -247.2

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				C:130754 KINTI345	345	149000	ROCH	345	345	1	205								
				Open	130754	KINTI345	345	149000	ROCH	345	345	1			0.17356	-0.15453	517.8	1424.0	
6	-5527.5	-2047.0	L:	Interface	23	QFW							1116.0	0.0	0.20189		0.22996	1101.5	-169.6
				C:KEY-SHELOCTA/BLAIRSVL-SOCIAL															1647
				Open	505	SHELOCTA	230	521	KEYSTONE	230	1				0.09645	-0.25253	55.8	1451.6	
				Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1				0.09046	-0.04099	100.7	327.3	
7	-5487.8	-2036.2	L:	Interface	23	QFW							1261.9	0.0	0.22996		0.22996	1101.5	-160.5
				C:GEN:NANTCK 8															1562
				Remove unit 1	from bus	158743	NANTICG8	22.0	490.0	MW	dispatch								
8	-5469.8	-2031.3	L:	Interface	23	QFW							1257.8	-0.0	0.22996		0.22996	1101.5	-156.4
				C:GEN:PICKER 6															1563
				Remove unit 1	from bus	156683	PIC B G5	24.0	510.9	MW	dispatch								
9	-5436.9	-2022.2	L:	Interface	23	QFW							1087.5	-0.0	0.20003		0.22996	1101.5	-148.8
				C:136150 CLAY	345	149001	PANNELL3	345	2	718									
				Open	136150	CLAY	345	149001	PANNELL3	345	2				-0.14291	0.20940	97.5	-1041.0	
10	-5433.0	-2021.2	L:	Interface	23	QFW							1087.6	0.0	0.20018		0.22996	1101.5	-147.9
				C:136150 CLAY	345	149001	PANNELL3	345	1	717									
				Open	136150	CLAY	345	149001	PANNELL3	345	1				-0.14265	0.20872	97.2	-1036.8	
11	-5376.9	-2005.9	L:	Interface	23	QFW							1092.3	0.0	0.20314		0.22996	1101.5	-135.0
				C:130754 KINTI345	345	147834	NIAG	345	345	1	204								
				Open	130754	KINTI345	345	147834	NIAG	345	345	1				-0.17356	0.15453	53.1	-777.8
12	-5254.3	-1972.4	*L:	Interface	23	QFW							1145.8	0.0	0.21807		0.22996	1101.5	-106.8
				C:130767 STOLE230	230	130770	SHLDN230	230	1	226									
				Open	130767	STOLE230	230	130770	SHLDN230	230	1					0.20775	-0.05720	213.5	514.1
1765	-3723.1	-1553.8	L:	Interface	26	ONTARIO-MICH							779.8	0.0	0.20946		0.22996	742.5	-113.6
				C:147834 NIAG 345	345	149000	ROCH	345	345	1	1226								
				Open	147834	NIAG 345	345	149000	ROCH	345	345	1				0.09047	-0.22657	412.2	1255.7
1766	-3718.0	-1552.4	L:	Interface	26	ONTARIO-MICH							756.6	0.0	0.20351		0.22996	742.5	-112.4
				C:KEY-SHELOCTA/BLAIRSVL-SOCIAL															1647
				Open	505	SHELOCTA	230	521	KEYSTONE	230	1				0.09010	-0.25253	55.8	994.7	
				Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1				0.09015	-0.04099	100.7	253.2	
1767	-3578.3	-1514.2	L:	Interface	26	ONTARIO-MICH							781.4	0.0	0.21836		0.22996	742.5	-80.3
				C:130754 KINTI345	345	149000	ROCH	345	345	1	205								
				Open	130754	KINTI345	345	149000	ROCH	345	345	1				0.07501	-0.15453	517.8	1070.7
1770	-3440.6	-1476.6	L:	Interface	26	ONTARIO-MICH							796.6	-0.0	0.23152		0.22996	742.5	-48.6
				C:BUS:N.S._99															1612
				Open	137453	N.SCOT99	345	147831	GILB	345	345	1				0.00308	0.02880	-312.3	-411.3
				Open	137453	N.SCOT99	345	147833	MARCY T1	345	1				-0.04637	-0.02782	-914.5	-818.8	
				Open	137453	N.SCOT99	345	137516	N.SCOT1	115	1				-0.00404	-0.00088	118.7	121.7	
				Open	137451	LEEDS 3	345	137453	N.SCOT99	345	2				-0.01487	-0.01256	-857.7	-814.5	
				Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1				0.20434	0.00000	1.6	1.6	
1771	-3428.8	-1473.4	L:	Interface	26	ONTARIO-MICH							768.6	-0.0	0.22417		0.22996	742.5	-45.9

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			C:W44LC		1639								
			Open 160062 LONGWOOD	220	160074 COWALJ44	220	1		-0.15913	0.01945	189.8	123.1	
			Open 160074 COWALJ44	220	160134 BUCHJW44	220	1		0.16154	-0.01662	334.0	391.0	
			Open 160054 BUCHANAN	220	160134 BUCHJW44	220	1		-0.00034	0.01662	-255.7	-312.7	
			Open 160055 CHATHAM	220	160074 COWALJ44	220	1		0.72213	0.00000	3.1	3.1	
1772	-3428.5	-1473.3	L: Interface 26 ONTARIO-MICH					768.6	-0.0	0.22418	0.22996	742.5	-45.9
			C:W45LC		1640								
			Open 160062 LONGWOOD	220	160075 COWALJ45	220	1		-0.15907	0.01942	189.8	123.2	
			Open 160075 COWALJ45	220	160135 BUCHJW45	220	1		0.16149	-0.01661	333.8	390.8	
			Open 160054 BUCHANAN	220	160135 BUCHJW45	220	1		-0.00034	0.01661	-262.0	-318.9	
			Open 160055 CHATHAM	220	160075 COWALJ45	220	1		0.72209	0.00000	3.1	3.1	
1773	-3428.1	-1473.2	L: Interface 26 ONTARIO-MICH					793.1	-0.0	0.23136	0.22996	742.5	-45.8
			C:SIN:180		1669								
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.05033	-0.02782	-914.5	-819.1	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.03792	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	147905 ILION	115	1		-0.00004	-0.00001	88.8	88.8	
1774	-3428.1	-1473.2	L: Interface 26 ONTARIO-MICH					793.1	0.0	0.23136	0.22996	742.5	-45.8
			C:SIN:170		1668								
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.05033	-0.02782	-914.5	-819.1	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.03792	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		-0.00006	-0.00002	74.8	74.9	
1775	-3426.2	-1472.6	L: Interface 26 ONTARIO-MICH					787.4	-0.0	0.22983	0.22996	742.5	-45.3
			C:SIN:440		1680								
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1		0.04028	-0.00311	1115.0	1125.6	
1776	-3426.2	-1472.6	*L: Interface 26 ONTARIO-MICH					787.4	-0.0	0.22983	0.22996	742.5	-45.3
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 7						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1		0.04028	-0.00311	1115.0	1125.6	
3531	-1515.4	-950.3	L: Interface 50 PJMCentral-C					-203.2	0.0	-0.13412	-0.17632	-167.2	100.0
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.14592	0.28921	-247.3	-685.6	
3532	-1515.4	-950.3	L: Interface 49 C-PJMCentral					203.2	-0.0	0.13412	0.17632	167.2	-100.0
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.14592	0.28921	-247.3	-685.6	
3533	-1467.3	-937.2	L: Interface 50 PJMCentral-C					-235.8	0.0	-0.16070	-0.17632	-167.2	91.6
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.11764	0.13282	-583.4	-778.3	
3534	-1467.3	-937.2	L: Interface 49 C-PJMCentral					235.8	-0.0	0.16070	0.17632	167.2	-91.6
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		-0.11764	0.13282	-583.4	-778.3	
3535	-1281.5	-886.4	L: Interface 49 C-PJMCentral					223.5	0.0	0.17438	0.17632	167.2	-58.8
			C:130750 COOPC345	345	130753 FRASR345	345	1 192						
			Open 130750 COOPC345	345	130753 FRASR345	345	1		-0.05637	0.03448	-998.8	-1043.0	

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			C:SER:CMT34&MTR34										1590		
			Open 130750 COOPC345	345	146754	MDTN	TAP	345	1			-0.04092	-0.00622	874.4	881.3
			Open 125001 ROCK TAV	345	146754	MDTN	TAP	345	1			-0.01611	0.00541	-425.6	-431.6
3548	-1113.1	-840.4	*L: Interface 49 C-PJMCentral					196.1	0.0	0.17615		0.17632	167.2	-29.1	
			C:SER:CMT34&MTR34											1590	
			Open 130750 COOPC345	345	146754	MDTN	TAP	345	1			0.04092	-0.00622	874.4	881.3
			Open 125001 ROCK TAV	345	146754	MDTN	TAP	345	1			0.01611	0.00541	-425.6	-431.6
6643	-943.8	-794.1	L: Interface 51 G-PJMEast					63.2	-0.0	0.06699		0.00000	-0.3	-0.3	
			C:SER:ETHS/NWES											1603	
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1			0.37991	0.17632	167.2	0.8
6644	-943.8	-794.1	L: Interface 52 PJMEast-G					-63.2	0.0	-0.06699		-0.00000	0.3	0.3	
			C:ETHS/LLGD											1646	
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1			-0.37991	0.17632	167.2	0.8
6645	-943.8	-794.1	L: Interface 51 G-PJMEast					63.2	-0.0	0.06699		0.00000	-0.3	-0.3	
			C:130763 HILSD230	230	200675	E.TWANDA	230	1	1375						
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1			0.37991	0.17632	167.2	0.8
6646	-943.8	-794.1	L: Interface 52 PJMEast-G					-63.2	0.0	-0.06699		-0.00000	0.3	0.3	
			C:SER:ETHS/NWES											1603	
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1			-0.37991	0.17632	167.2	0.8
6647	-943.8	-794.1	L: Interface 52 PJMEast-G					-63.2	0.0	-0.06699		-0.00000	0.3	0.3	
			C:ETHS/NWES/LLGD											1645	
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1			-0.37991	0.17632	167.2	0.8
6648	-943.8	-794.1	L: Interface 52 PJMEast-G					-63.2	0.0	-0.06699		-0.00000	0.3	0.3	
			C:130763 HILSD230	230	200675	E.TWANDA	230	1	1375						
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1			-0.37991	0.17632	167.2	0.8
6649	-943.8	-794.1	L: Interface 51 G-PJMEast					63.2	-0.0	0.06699		0.00000	-0.3	-0.3	
			C:ETHS/LLGD											1646	
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1			0.37991	0.17632	167.2	0.8
6650	-943.8	-794.1	L: Interface 51 G-PJMEast					63.2	-0.0	0.06699		0.00000	-0.3	-0.3	
			C:ETHS/NWES/LLGD											1645	
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1			0.37991	0.17632	167.2	0.8
6829	-934.6	-791.6	L: Interface 52 PJMEast-G					-62.6	0.0	-0.06698		-0.00000	0.3	0.3	
			C:SER:C398/NWES											1602	
			Open 409 GROVER	230	200675	E.TWANDA		230	1			-0.02785	-0.00244	-15.8	-13.6
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1			-0.38058	0.17632	167.2	2.4
			Open 381 TOWANDA	115	200675	E.TWANDA		230	1			-0.00407	-0.01338	-71.6	-59.1
6830	-934.6	-791.6	L: Interface 51 G-PJMEast					62.6	-0.0	0.06698		0.00000	-0.3	-0.3	
			C:SER:C398/NWES											1602	
			Open 409 GROVER	230	200675	E.TWANDA		230	1			0.02785	-0.00244	-15.8	-13.6
			Open 130763 HILSD230	230	200675	E.TWANDA		230	1			0.38058	0.17632	167.2	2.4
			Open 381 TOWANDA	115	200675	E.TWANDA		230	1			0.00407	-0.01338	-71.6	-59.1
7051	-247.6	-603.8	L: Interface 62 C2PJMW					50.1	-0.0	0.20223		0.44967	-368.9	-480.3	

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			C:BUS:WATERCURE_345											1629					
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1						-0.89184	0.27335	-536.1	-603.8	
			Open 130757 WATRC345	345	130768	WATRC230		230	1						-0.23049	0.01587	267.1	263.1	
			Open 130755 OAKDL345	345	130757	WATRC345		345	1						0.11241	0.00000	21.8	21.8	
7052	-247.6	-603.8	L: Interface 63 PJMW2C							-50.1	0.0	-0.20223			-0.44967	368.9	480.3		
			C:BUS:WATERCURE_345																1629
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1						0.89184	0.27335	-536.1	-603.8	
			Open 130757 WATRC345	345	130768	WATRC230		230	1						0.23049	0.01587	267.1	263.1	
			Open 130755 OAKDL345	345	130757	WATRC345		345	1						-0.11241	0.00000	21.8	21.8	
7059	-226.2	-597.9	L: Interface 62 C2PJM							53.0	0.0	0.23451			0.44967	-368.9	-470.7		
			C:SER:HCWC/NWES																1604
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1						-0.78714	0.27335	-536.1	-597.9	
7060	-226.2	-597.9	L: Interface 63 PJMW2C							-53.0	-0.0	-0.23451			-0.44967	368.9	470.7		
			C:130757 WATRC345	345	200769	HOMER	CY	345	1	1374									
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1						0.78714	0.27335	-536.1	-597.9	
7061	-226.2	-597.9	L: Interface 62 C2PJM							53.0	0.0	0.23451			0.44967	-368.9	-470.7		
			C:130757 WATRC345	345	200769	HOMER	CY	345	1	1374									
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1						-0.78714	0.27335	-536.1	-597.9	
7062	-226.2	-597.9	L: Interface 63 PJMW2C							-53.0	-0.0	-0.23451			-0.44967	368.9	470.7		
			C:SER:HCWC/NWES																1604
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1						0.78714	0.27335	-536.1	-597.9	
7063	-226.2	-597.9	L: Interface 62 C2PJM							53.0	0.0	0.23451			0.44967	-368.9	-470.7		
			C:SER:HC-WC_30&W-F_171																1598
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1						-0.78714	0.27335	-536.1	-597.9	
7064	-226.2	-597.9	L: Interface 63 PJMW2C							-53.0	-0.0	-0.23451			-0.44967	368.9	470.7		
			C:SER:HC-WC_30&W-F_171																1598
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1						0.78714	0.27335	-536.1	-597.9	
7065	188.4	-484.6	L: Interface 55 PJME-NYEnoRE							1278.6	1287.0	0.04480			-0.00000	1299.4	1299.4		
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL																1647
			Open 505 SHELOCTA	230	521	KEYSTONE		230	1						-0.15803	-0.25253	55.8	8.2	
			Open 473 BLAIRSVL	138	235253	01SOCIAL		138	1						-0.11947	-0.04099	100.7	93.0	
7066	188.4	-484.6	L: Interface 56 NYE-PJMEEnoRE							-1278.6	-1287.0	-0.04480			0.00000	-1299.4	-1299.4		
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL																1647
			Open 505 SHELOCTA	230	521	KEYSTONE		230	1						0.15803	-0.25253	55.8	8.2	
			Open 473 BLAIRSVL	138	235253	01SOCIAL		138	1						0.11947	-0.04099	100.7	93.0	
7067	564.0	-381.9	L: Interface 63 PJMW2C							236.6	0.0	-0.41954			-0.44967	368.9	115.3		
			C:130753 FRASR345	345	130755	OAKDL345		345	1	200									
			Open 130753 FRASR345	345	130755	OAKDL345		345	1						0.22684	0.13282	-583.4	-508.5	
7068	564.0	-381.9	L: Interface 62 C2PJM							-236.6	-0.0	0.41954			0.44967	-368.9	-115.3		
			C:130753 FRASR345	345	130755	OAKDL345		345	1	200									
			Open 130753 FRASR345	345	130755	OAKDL345		345	1						-0.22684	0.13282	-583.4	-508.5	
7069	605.8	-370.5	L: Interface 63 PJMW2C							270.3	0.0	-0.44626			-0.44967	368.9	96.5		

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				C:130750 COOPC345	345	130753 FRASR345	345	1	192										
				Open 130750 COOPC345	345	130753 FRASR345	345	1				0.09871	0.03448	-998.8	-977.9				
7070	605.8	-370.5	L:	Interface	62	C2PJM				-270.3	-0.0	0.44626		0.44967	-368.9	-96.5			
				C:130750 COOPC345	345	130753 FRASR345	345	1	192										
				Open 130750 COOPC345	345	130753 FRASR345	345	1				-0.09871	0.03448	-998.8	-977.9				
7071	682.5	-349.5	L:	Interface	62	C2PJM				-306.8	-0.0	0.44949		0.44967	-368.9	-62.0			
				C:SIN:440					1680										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.05574	-0.00311	1115.0	1112.9				
7072	682.5	-349.5	L:	Interface	63	PJMW2C				306.8	0.0	-0.44949		-0.44967	368.9	62.0			
				C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.05574	-0.00311	1115.0	1112.9				
7073	682.5	-349.5	L:	Interface	62	C2PJM				-306.8	-0.0	0.44949		0.44967	-368.9	-62.0			
				C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.05574	-0.00311	1115.0	1112.9				
7074	682.5	-349.5	L:	Interface	63	PJMW2C				306.8	0.0	-0.44949		-0.44967	368.9	62.0			
				C:SIN:440					1680										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.05574	-0.00311	1115.0	1112.9				
7075	714.6	-340.8	L:	Interface	63	PJMW2C				321.7	0.0	-0.45017		-0.44967	368.9	47.6			
				C:BUS:N.S._99					1612										
				Open 137453 N.SCOT99	345	147831 GILB	345	1				0.02116	0.02880	-312.3	-291.7				
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.03552	-0.02782	-914.5	-934.4				
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.00183	-0.00088	118.7	118.1				
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.00957	-0.01256	-857.7	-866.7				
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.10899	0.00000	1.6	1.6				
7076	714.6	-340.8	L:	Interface	62	C2PJM				-321.7	-0.0	0.45017		0.44967	-368.9	-47.6			
				C:BUS:N.S._99					1612										
				Open 137453 N.SCOT99	345	147831 GILB	345	1				-0.02116	0.02880	-312.3	-291.7				
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.03552	-0.02782	-914.5	-934.4				
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.00183	-0.00088	118.7	118.1				
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-0.00957	-0.01256	-857.7	-866.7				
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.10899	0.00000	1.6	1.6				
7077	715.1	-340.6	*L:	Interface	62	C2PJM				-321.3	0.0	0.44939		0.44967	-368.9	-47.4			
				C:SER:CMT34&MTR34					1590										
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1				0.06712	-0.00622	874.4	869.9				
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.02604	0.00541	-425.6	-421.7				
7078	715.1	-340.6	*L:	Interface	63	PJMW2C				321.3	-0.0	-0.44939		-0.44967	368.9	47.4			
				C:SER:CMT34&MTR34					1590										
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.06712	-0.00622	874.4	869.9				
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				-0.02604	0.00541	-425.6	-421.7				
10465	860.3	-301.0	L:	Interface	52	PJMEast-G				47.3	-0.0	-0.05503		-0.00000	0.3	0.3			
				C:130755 OAKDL345	345	130757 WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.19027	0.28921	-247.3	1.5				

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10466	860.3	-301.0	L: Interface 51 G-PJMEast															-47.3	0.0	0.05503		0.00000	-0.3	-0.3		
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206																	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1						0.19027	0.28921									-247.3	1.5	
10537	931.6	-281.5	L: Interface 51 G-PJMEast																							
			C:LKWANA-OXBW						1648																	
			Open 417 OXBOW	230	3070	LACKAWNA	230	1						0.36605	0.16015									-148.4	0.8	
10538	931.6	-281.5	L: Interface 52 PJMEast-G																							
			C:LKWANA-OXBW						1648																	
			Open 417 OXBOW	230	3070	LACKAWNA	230	1						-0.36605	0.16015									-148.4	0.8	
10565	1032.9	-253.8	L: 130787 CODNT115	115	130830	MONTR115	115	1																		
			C:130755 OAKDL345	345	131128	LAPEER	345	1	209																	
			Open 130755 OAKDL345	345	131128	LAPEER	345	1						-0.10460	-0.20212									-565.0	-773.8	
10574	1068.4	-244.1	L: 130830 MONTR115	115	130845	RIDGT115	115	1																		
			C:130755 OAKDL345	345	131128	LAPEER	345	1	209																	
			Open 130755 OAKDL345	345	131128	LAPEER	345	1						-0.06731	-0.20212									-565.0	-781.0	
10579	1138.1	-225.0	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	1																		
			C:GEN:SEABROOK						1570																	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW			dispatch																	
10580	1138.1	-225.0	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	1																		
			C:GEN:SEAB&OMS						1572																	
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2						0.00000	0.00000									-0.1	-0.1	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW			dispatch																	
10581	1138.2	-225.0	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	1																		
			C:GEN:MILLST 3						1569																	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW			dispatch																	
10582	1138.2	-225.0	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	1																		
			C:GEN:MLS3&OMS						1571																	
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2						0.00000	0.00000									-0.1	-0.1	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW			dispatch																	
10583	1138.2	-225.0	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	1																		
			C:GEN:9 MI PT2						1558																	
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW			dispatch																	
10584	1138.2	-225.0	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	1																		
			C:GEN:SALEM						1564																	
			Remove unit 1 from bus 36 SALEM-G1	22.0	1117.3	MW			dispatch																	
10585	1138.3	-225.0	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	1																		
			C:GEN:IND PT 3						1552																	
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW			dispatch																	
10586	1138.3	-225.0	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	1																		
			C:GEN:PEACHBTM						1565																	
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1060.3	MW			dispatch																	
10587	1138.3	-225.0	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	1																		

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			C:GEN:IND PT 2			1551											
			Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7	MW	dispatch										
10588	1138.3	-225.0	*L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	1		-558.1	-1030.0	-0.41455		-0.41455	-557.9	-1029.8	
			C:GEN:IND PT 3-New					1770									
			Open 147798 IP#3 GEN	22.0	147832	IP3 345		345	1				0.00000	0.00000	522.5	522.5	
			Open 147798 IP#3 GEN	22.0	147832	IP3 345		345	2				0.00021	0.00000	-1041.8	-1041.8	
10660	1138.8	-224.8	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	1		-557.9	-1030.0	-0.41455					
			Base Case														
12348	1372.3	-161.0	L: 130830 MONTR115	115	130845	RIDGT115		115	1	65.9	133.0	0.04891		0.03155	46.7	90.0	
			C:130830 MONTR115	115	130844	RIDGR115		115	1	333							
			Open 130830 MONTR115	115	130844	RIDGR115		115	1				0.57515	0.03020	33.3	74.7	
12349	1379.3	-159.1	L: Interface 52 PJMEast-G							121.5	0.0	-0.08812		-0.00000	0.3	0.3	
			C:BUS:WATERCURE_345						1629								
			Open 130757 WATRC345	345	200769	HOMER CY		345	1				-0.31371	0.27335	-536.1	-159.1	
			Open 130757 WATRC345	345	130768	WATRC230		230	1				-0.14918	0.01587	267.1	288.9	
			Open 130755 OAKDL345	345	130757	WATRC345		345	1				-0.32556	0.00000	21.8	21.8	
12350	1379.3	-159.1	L: Interface 51 G-PJMEast							-121.5	-0.0	0.08812		0.00000	-0.3	-0.3	
			C:BUS:WATERCURE_345						1629								
			Open 130757 WATRC345	345	200769	HOMER CY		345	1				0.31371	0.27335	-536.1	-159.1	
			Open 130757 WATRC345	345	130768	WATRC230		230	1				0.14918	0.01587	267.1	288.9	
			Open 130755 OAKDL345	345	130757	WATRC345		345	1				0.32556	0.00000	21.8	21.8	
12351	1506.2	-124.4	L: 136158 INDEPNDC	345	136720	SITH-S6		18.0	1	-161.9	-215.0	-0.03528					
			Base Case														
12352	1506.2	-124.4	L: 136158 INDEPNDC	345	136719	SITH-S5		18.0	1	-161.9	-215.0	-0.03528					
			Base Case														
12353	1534.8	-116.6	L: 130830 MONTR115	115	130845	RIDGT115		115	1	70.4	133.0	0.04080		0.03155	46.7	95.1	
			C:BUS:WATERCURE_230						1630								
			Open 130768 WATRC230	230	130772	SHRED230		230	1				-0.10325	-0.07245	59.5	-51.7	
			Open 130757 WATRC345	345	130768	WATRC230		230	1				0.11176	0.01587	267.1	291.4	
			Open 130763 HILSD230	230	130768	WATRC230		230	1				-0.10454	0.00000	0.5	0.5	
12354	1544.4	-113.9	L: 130830 MONTR115	115	130845	RIDGT115		115	1	69.4	133.0	0.04120		0.03155	46.7	95.4	
			C:130763 HILSD230	230	130768	WATRC230		230	1	219							
			Open 130763 HILSD230	230	130768	WATRC230		230	1				-0.10933	-0.08831	-207.1	-343.5	
12355	1571.1	-106.7	L: 130800 ETNA 115	115	130827	MILKN115		115	2	-184.8	-255.0	-0.04468		-0.02631	-108.0	-149.4	
			C:130800 ETNA 115	115	130827	MILKN115		115	1	286							
			Open 130800 ETNA 115	115	130827	MILKN115		115	1				0.76086	-0.02415	-100.9	-138.8	
12356	1638.5	-88.2	L: 130792 CORN TP2	115	130800	ETNA 115		115	1	-82.4	-143.0	-0.03701		-0.01827	-50.6	-80.6	
			C:130787 CODNT115	115	130800	ETNA 115		115	1	255							
			Open 130787 CODNT115	115	130800	ETNA 115		115	1				0.76003	-0.02464	-41.7	-82.1	
12358	1639.2	-88.0	L: Interface 60 C2PJMC							-503.7	-0.0	0.30730		0.27335	-536.1	-88.0	
			C:SER:C398/NWES						1602								
			Open 409 GROVER	230	200675	E.TWANDA		230	1				-0.00850	-0.00244	-15.8	-19.9	

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			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.19236	0.17632	167.2	456.2	
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1		-0.00124	-0.01338	-71.6	-93.5	
12359	1639.2	-88.0	L: Interface	61	PJMC2C						503.7	0.0	-0.30730	-0.27335	536.1	88.0
			C:SER:C398/NWES							1602						
			Open	409	GROVER	230	200675	E.TWANDA	230	1		0.00850	-0.00244	-15.8	-19.9	
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		-0.19236	0.17632	167.2	456.2	
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1		0.00124	-0.01338	-71.6	-93.5	
12361	1639.2	-88.0	L: Interface	48	PJMWest-C						503.7	0.0	-0.30730	-0.27335	536.1	88.0
			C:SER:C398/NWES							1602						
			Open	409	GROVER	230	200675	E.TWANDA	230	1		0.00850	-0.00244	-15.8	-19.9	
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		-0.19236	0.17632	167.2	456.2	
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1		0.00124	-0.01338	-71.6	-93.5	
12362	1639.2	-88.0	L: Interface	47	C-PJMWest						-503.7	-0.0	0.30730	0.27335	-536.1	-88.0
			C:SER:C398/NWES							1602						
			Open	409	GROVER	230	200675	E.TWANDA	230	1		-0.00850	-0.00244	-15.8	-19.9	
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.19236	0.17632	167.2	456.2	
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1		-0.00124	-0.01338	-71.6	-93.5	
12363	1639.8	-87.9	L: Interface	61	PJMC2C						503.9	-0.0	-0.30730	-0.27335	536.1	87.9
			C:ETHS/LLGD							1646						
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		-0.19257	0.17632	167.2	456.3	
12366	1639.8	-87.9	L: Interface	48	PJMWest-C						503.9	-0.0	-0.30730	-0.27335	536.1	87.9
			C:SER:ETHS/NWES							1603						
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		-0.19257	0.17632	167.2	456.3	
12367	1639.8	-87.9	L: Interface	47	C-PJMWest						-503.9	0.0	0.30730	0.27335	-536.1	-87.9
			C:ETHS/LLGD							1646						
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.19257	0.17632	167.2	456.3	
12369	1639.8	-87.9	L: Interface	60	C2PJMC						-503.9	0.0	0.30730	0.27335	-536.1	-87.9
			C:130763 HILSD230	230	200675	E.TWANDA	230	1	1375							
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.19257	0.17632	167.2	456.3	
12372	1639.8	-87.9	L: Interface	47	C-PJMWest						-503.9	0.0	0.30730	0.27335	-536.1	-87.9
			C:SER:ETHS/NWES							1603						
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.19257	0.17632	167.2	456.3	
12373	1639.8	-87.9	L: Interface	60	C2PJMC						-503.9	0.0	0.30730	0.27335	-536.1	-87.9
			C:SER:ETHS/NWES							1603						
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.19257	0.17632	167.2	456.3	
12374	1639.8	-87.9	L: Interface	61	PJMC2C						503.9	-0.0	-0.30730	-0.27335	536.1	87.9
			C:SER:ETHS/NWES							1603						
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		-0.19257	0.17632	167.2	456.3	
12375	1639.8	-87.9	L: Interface	48	PJMWest-C						503.9	-0.0	-0.30730	-0.27335	536.1	87.9
			C:ETHS/LLGD							1646						
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		-0.19257	0.17632	167.2	456.3	
12376	1639.8	-87.9	L: Interface	61	PJMC2C						503.9	-0.0	-0.30730	-0.27335	536.1	87.9

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			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.06349	0.00000	0.5	0.5
12391	1683.2	-76.0	L: 130800 ETNA 115	115	130827 MILKN115	115	1	-181.4	-255.0	-0.04374		-0.02415	-100.9	-141.5
			C:130800 ETNA 115	115	130827 MILKN115	115	2 287							
			Open 130800 ETNA 115	115	130827 MILKN115	115	2				0.74493	-0.02631	-108.0	-152.3
12392	1698.3	-71.9	L: Interface 60 C2PJMC					-494.4	-0.0	0.29112		0.27335	-536.1	-71.9
			C:130763 HILSD230	230	130768 WATRC230	230	1 219							
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.20129	-0.08831	-207.1	-357.1
12393	1698.3	-71.9	L: Interface 61 PJMC2C					494.4	0.0	-0.29112		-0.27335	536.1	71.9
			C:130763 HILSD230	230	130768 WATRC230	230	1 219							
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.20129	-0.08831	-207.1	-357.1
12394	1698.3	-71.9	L: Interface 48 PJMWest-C					494.4	0.0	-0.29112		-0.27335	536.1	71.9
			C:130763 HILSD230	230	130768 WATRC230	230	1 219							
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.20129	-0.08831	-207.1	-357.1
12395	1698.3	-71.9	L: Interface 47 C-PJMWest					-494.4	-0.0	0.29112		0.27335	-536.1	-71.9
			C:130763 HILSD230	230	130768 WATRC230	230	1 219							
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.20129	-0.08831	-207.1	-357.1
12396	1727.6	-63.9	L: Interface 61 PJMC2C					478.2	0.0	-0.27679		-0.27335	536.1	63.9
			C:130757 WATRC345	345	130768 WATRC230	230	1 213							
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.21695	0.01587	267.1	294.5
12397	1727.6	-63.9	L: Interface 47 C-PJMWest					-478.2	-0.0	0.27679		0.27335	-536.1	-63.9
			C:130757 WATRC345	345	130768 WATRC230	230	1 213							
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.21695	0.01587	267.1	294.5
12398	1727.6	-63.9	L: Interface 60 C2PJMC					-478.2	-0.0	0.27679		0.27335	-536.1	-63.9
			C:130757 WATRC345	345	130768 WATRC230	230	1 213							
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.21695	0.01587	267.1	294.5
12399	1727.6	-63.9	L: Interface 48 PJMWest-C					478.2	0.0	-0.27679		-0.27335	536.1	63.9
			C:130757 WATRC345	345	130768 WATRC230	230	1 213							
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.21695	0.01587	267.1	294.5
12400	1735.6	-61.7	L: 130830 MONTR115	115	130844 RIDGR115	115	1	69.9	145.0	0.04328		0.03020	33.3	85.7
			C:130755 OAKDL345	345	131128 LAPEER	345	1 209							
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				-0.06475	-0.20212	-565.0	-915.8
12401	1738.2	-61.0	L: 130787 CODNT115	115	130830 MONTR115	115	1	43.9	144.0	0.05758		0.04586	15.7	95.4
			C:BUS:WATERCURE_230				1630							
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.13208	-0.07245	59.5	-66.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.13534	0.01587	267.1	294.6
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.10781	0.00000	0.5	0.5
12402	1740.5	-60.4	L: 130787 CODNT115	115	130830 MONTR115	115	1	43.5	144.0	0.05773		0.04586	15.7	95.5
			C:130763 HILSD230	230	130768 WATRC230	230	1 219							
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.13441	-0.08831	-207.1	-360.8
12403	1744.0	-59.4	L: Interface 60 C2PJMC					-559.3	-0.0	0.32068		0.27335	-536.1	-59.4
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL				1647							
			Open 505 SHELOCTA	230	521 KEYSTONE	230	1				-0.16496	-0.25253	55.8	-384.6

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			Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1				-0.13859	-0.04099	100.7	29.3
12404	1744.0	-59.4	L: Interface	48	PJMWest-C						559.3	0.0	-0.32068		-0.27335	536.1	59.4
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL							1647							
			Open	505	SHELOCTA	230	521	KEYSTONE	230	1				0.16496	-0.25253	55.8	-384.6
			Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1				0.13859	-0.04099	100.7	29.3
12405	1744.0	-59.4	L: Interface	61	PJMC2C						559.3	0.0	-0.32068		-0.27335	536.1	59.4
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL							1647							
			Open	505	SHELOCTA	230	521	KEYSTONE	230	1				0.16496	-0.25253	55.8	-384.6
			Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1				0.13859	-0.04099	100.7	29.3
12406	1744.0	-59.4	L: Interface	47	C-PJMWest						-559.3	-0.0	0.32068		0.27335	-536.1	-59.4
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL							1647							
			Open	505	SHELOCTA	230	521	KEYSTONE	230	1				-0.16496	-0.25253	55.8	-384.6
			Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1				-0.13859	-0.04099	100.7	29.3
12407	1789.3	-47.0	L: 136150	CLAY	345	136156	VOLNEY	345	1		-708.1	-1032.0	-0.18102				
			Base Case														
12408	1791.3	-46.5	L: 130763	HILSD230	230	200675	E.TWANDA	230	1		167.2	483.0	0.17632				
			Base Case														
12409	1796.7	-45.0	L: 130830	MONTR115	115	130844	RIDGR115	115	1		59.3	145.0	0.04772		0.03020	33.3	87.5
			C:130830	MONTR115	115	130845	RIDGT115	115	1	334							
			Open	130830	MONTR115	115	130845	RIDGT115	115	1				0.55565	0.03155	46.7	103.4
12410	1814.6	-40.1	L: 130807	GOUDY115	115	130848	S.OWE115	115	1		58.6	143.0	0.04651		0.02797	15.1	65.8
			C:130763	HILSD230	230	130768	WATRC230	230	1	219							
			Open	130763	HILSD230	230	130768	WATRC230	230	1				-0.21004	-0.08831	-207.1	-367.3
12411	1816.3	-39.6	*L: Interface	61	PJMC2C						493.8	0.0	-0.27189		-0.27335	536.1	39.6
			C:130750	COOPC345	345	130753	FRASR345	345	1	192							
			Open	130750	COOPC345	345	130753	FRASR345	345	1				0.04234	0.03448	-998.8	-936.2
12412	1816.3	-39.6	*L: Interface	60	C2PJMC						-493.8	-0.0	0.27189		0.27335	-536.1	-39.6
			C:130750	COOPC345	345	130753	FRASR345	345	1	192							
			Open	130750	COOPC345	345	130753	FRASR345	345	1				-0.04234	0.03448	-998.8	-936.2
12413	1816.3	-39.6	*L: Interface	48	PJMWest-C						493.8	0.0	-0.27189		-0.27335	536.1	39.6
			C:130750	COOPC345	345	130753	FRASR345	345	1	192							
			Open	130750	COOPC345	345	130753	FRASR345	345	1				0.04234	0.03448	-998.8	-936.2
12414	1816.3	-39.6	*L: Interface	47	C-PJMWest						-493.8	-0.0	0.27189		0.27335	-536.1	-39.6
			C:130750	COOPC345	345	130753	FRASR345	345	1	192							
			Open	130750	COOPC345	345	130753	FRASR345	345	1				-0.04234	0.03448	-998.8	-936.2
12415	1819.5	-38.7	L: 136154	OSWEGO	345	136703	OSWGO 6G	22.0	1		-750.3	-1030.0	-0.15371		-0.15371	-750.0	-1029.6
			C:GEN:SEAB&OMS							1572							
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.1	-0.1
			Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch							
12416	1819.5	-38.7	L: 136154	OSWEGO	345	136703	OSWGO 6G	22.0	1		-750.3	-1030.0	-0.15371		-0.15371	-750.0	-1029.6
			C:GEN:SEABROOK							1570							
			Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch							

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12417	1819.6	-38.7	L: 136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:MILLST 3				1569						
			Remove unit 3 from bus 103563 MILL#3			24.0	1276.0 MW	dispatch					
12418	1819.6	-38.7	L: 136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:MLS3&OMS				1571						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3			24.0	1276.0 MW	dispatch					
12419	1819.8	-38.7	L: 136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:9 MI PT2				1558						
			Remove unit 2 from bus 136700 9M PT 2G			25.0	1197.5 MW	dispatch					
12420	1819.9	-38.6	L: 136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:SALEM				1564						
			Remove unit 1 from bus 36 SALEM-G1			22.0	1117.3 MW	dispatch					
12421	1820.0	-38.6	L: 136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:IND PT 3				1552						
			Remove unit 1 from bus 147798 IP#3 GEN			22.0	1072.8 MW	dispatch					
12422	1820.0	-38.6	L: 136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.2	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:PEACHBTM				1565						
			Remove unit 1 from bus 34 PCHBTM 2			22.0	1060.3 MW	dispatch					
12423	1820.0	-38.6	L: 136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.2	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:IND PT 2				1551						
			Remove unit 2 from bus 126651 IND PT 2			22.0	1053.7 MW	dispatch					
12424	1820.0	-38.6	*L: 136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.2	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:IND PT 3-New				1770						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			0.00000	0.00000	522.5	522.5
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			0.00027	0.00000	-1041.8	-1041.8
12846	1821.9	-38.1	L: 136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.0	-1030.0	-0.15371			
			Base Case										
14184	1853.9	-29.3	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	51.6	143.0	0.04933	0.02797	15.1	66.9
			C:BUS:WATERCURE_230				1630						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.25255	-0.07245	59.5	-74.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.19304	0.01587	267.1	296.5
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.14175	0.00000	0.5	0.5
14185	1862.3	-27.0	L: 136150 CLAY	345	136156 VOLNEY	345	1	-1004.1	-1434.0	-0.23086	-0.18102	-708.1	-1045.2
			C:136150 CLAY	345	136158 INDEPNDC	345	1	712					
			Open 136150 CLAY	345	136158 INDEPNDC	345	1			0.36036	-0.13829	-821.3	-1078.8
14198	1886.9	-20.3	L: 130830 MONTR115	115	130845 RIDGT115	115	1	47.4	133.0	0.04536	0.03155	46.7	106.3
			C:130814 HILSD115	115	130844 RIDGR115	115	1	309					
			Open 130814 HILSD115	115	130844 RIDGR115	115	1			-0.47932	-0.02881	-1.4	-55.8
14399	1942.3	-5.2	L: 130830 MONTR115	115	130845 RIDGT115	115	1	46.7	108.0	0.03155			
			Base Case										
20564	1965.6	1.2	L: Interface	52	PJMEast-G			132.1	-0.0	-0.06723	-0.00000	0.3	0.3

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				C:SER:HC-WC_30&W-F_171					1598										
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1			-0.24594	0.27335	-536.1	1.2			
20565	1965.6	1.2	L:	Interface 51 G-PJMEast									-132.1	0.0	0.06723	0.00000	-0.3	-0.3	
				C:130757 WATRC345	345	200769	HOMER	CY	345	1	1374								
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1				0.24594	0.27335	-536.1	1.2		
20566	1965.6	1.2*L:		Interface 51 G-PJMEast									-132.1	0.0	0.06723	0.00000	-0.3	-0.3	
				C:SER:HC-WC_30&W-F_171															
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1				0.24594	0.27335	-536.1	1.2		
20567	1965.6	1.2*L:		Interface 52 PJMEast-G									132.1	-0.0	-0.06723	-0.00000	0.3	0.3	
				C:SER:HCWC/NWES															
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1				-0.24594	0.27335	-536.1	1.2		
20778	1973.0	3.2	L:	130830 MONTR115 115 130845 RIDGT115 115 1									68.2	133.0	0.03282	0.03155	46.7	109.0	
				C:130757 WATRC345 345 130768 WATRC230 230 1 213															
				Open 130757 WATRC345 345 130768 WATRC230 230 1												0.08054	0.01587	267.1	298.4
20811	1974.7	3.7	L:	130830 MONTR115 115 130845 RIDGT115 115 1									68.6	133.0	0.03263	0.03155	46.7	109.0	
				C:BUS:WATERCURE_345															
				Open 130757 WATRC345 345 200769 HOMER CY 345 1												-0.00071	0.27335	-536.1	3.7
				Open 130757 WATRC345 345 130768 WATRC230 230 1												0.08039	0.01587	267.1	298.4
				Open 130755 OAKDL345 345 130757 WATRC345 345 1												-0.00028	0.00000	21.8	21.8
20972	2002.0	11.1	L:	130792 CORN TP2 115 131397 E.ITH115 115 1									68.9	143.0	0.03701	0.01827	37.2	73.8	
				C:130787 CODNT115 115 130800 ETNA 115 115 1 255															
				Open 130787 CODNT115 115 130800 ETNA 115 115 1												-0.76003	-0.02464	-41.7	-91.1
21001	2012.9	14.1	L:	130787 CODNT115 115 130830 MONTR115 115 1									15.7	108.0	0.04586				
				Base Case															
21074	2043.3	22.4	L:	136150 CLAY 345 136156 VOLNEY 345 1									-946.0	-1434.0	-0.23881	-0.18102	-708.1	-1078.0	
				C:136152 ELBRIDGE 345 136154 OSWEGO 345 1 722															
				Open 136152 ELBRIDGE 345 136154 OSWEGO 345 1												0.34028	-0.16983	-699.2	-1046.3
21087	2058.9	26.7	L:	136150 CLAY 345 136156 VOLNEY 345 1									-941.7	-1434.0	-0.23910	-0.18102	-708.1	-1080.8	
				C:SER:OSWEG->LAFAY															
				Open 136152 ELBRIDGE 345 136153 LAFAYTTE 345 1												-0.04365	0.14294	464.5	758.8
				Open 136152 ELBRIDGE 345 136154 OSWEGO 345 1												0.30523	-0.16983	-699.2	-1048.9
				Open 136152 ELBRIDGE 345 136191 ELBRIDGE 115 1												0.01498	0.00000	6.5	6.5
21092	2066.7	28.8	L:	130830 MONTR115 115 130845 RIDGT115 115 1									31.9	133.0	0.04894	0.03155	46.7	111.9	
				C:130755 OAKDL345 345 130757 WATRC345 345 1 206															
				Open 130755 OAKDL345 345 130757 WATRC345 345 1												0.06013	0.28921	-247.3	350.4
21117	2097.1	37.1	L:	130787 CODNT115 115 130830 MONTR115 115 1									28.2	144.0	0.05523	0.04586	15.7	111.9	
				C:BUS:WATERCURE_345															
				Open 130757 WATRC345 345 200769 HOMER CY 345 1												0.02837	0.27335	-536.1	37.1
				Open 130757 WATRC345 345 130768 WATRC230 230 1												0.10155	0.01587	267.1	300.3
				Open 130755 OAKDL345 345 130757 WATRC345 345 1												0.02677	0.00000	21.8	21.8
21146	2125.5	44.9	L:	130830 MONTR115 115 130845 RIDGT115 115 1									58.8	133.0	0.03492	0.03155	46.7	113.8	
				C:131128 LAPEER 345 136153 LAFAYTTE 345 1 392															

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			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				-0.01873	-0.18016	-642.9	-1025.8
21147	2128.8	45.8	L: 130787 CODNT115	115	130830 MONTR115	115	1	-4.9	144.0	0.06995		0.04586	15.7	113.3
			C:130755 OAKDL345	345	130757 WATRC345	345	1							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.08328	0.28921	-247.3	368.4
21160	2170.7	57.2	L: 130787 CODNT115	115	130830 MONTR115	115	1	41.2	144.0	0.04738		0.04586	15.7	115.2
			C:130757 WATRC345	345	130768 WATRC230	230	1							
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.09540	0.01587	267.1	301.5
21161	2180.1	59.8	*L: 130830 MONTR115	115	130845 RIDGT115	115	1	65.0	133.0	0.03120		0.03155	46.7	115.5
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1							
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1				0.13710	-0.00256	133.2	127.6
21190	2272.4	85.0	L: 130791 CORN TP1	115	131397 E.ITH115	115	1	-58.9	-143.0	-0.03701		-0.01827	-27.2	-68.7
			C:130787 CODNT115	115	130800 ETNA 115	115	1							
			Open 130787 CODNT115	115	130800 ETNA 115	115	1				0.76003	-0.02464	-41.7	-97.7
21191	2274.2	85.5	L: 130830 MONTR115	115	130844 RIDGR115	115	1	56.1	145.0	0.03910		0.03020	33.3	102.0
			C:BUS:WATERCURE_230											
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.09936	-0.07245	59.5	-105.2
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.10763	0.01587	267.1	303.1
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.10082	0.00000	0.5	0.5
21192	2276.7	86.2	L: 130830 MONTR115	115	130844 RIDGR115	115	1	55.1	145.0	0.03949		0.03020	33.3	102.0
			C:130763 HILSD230	230	130768 WATRC230	230	1							
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.10527	-0.08831	-207.1	-408.1
21197	2286.0	88.8	L: 130787 CODNT115	115	130830 MONTR115	115	1	36.9	144.0	0.04687		0.04586	15.7	120.5
			C:130800 ETNA 115	115	130863 WILET115	115	1							
			Open 130800 ETNA 115	115	130863 WILET115	115	1				0.23590	0.00427	89.7	99.5
21206	2323.3	98.9	L: 136150 CLAY	345	136156 VOLNEY	345	1	-932.7	-1434.0	-0.21576		-0.18102	-708.1	-1128.7
			C:136150 CLAY	345	136157 9MI PT1	345	1							
			Open 136150 CLAY	345	136157 9MI PT1	345	1				0.34267	-0.10137	-655.6	-891.1
21211	2364.6	110.3	L: 130787 CODNT115	115	130830 MONTR115	115	1	33.2	144.0	0.04687		0.04586	15.7	124.1
			C:130796 E.NOR115	115	130863 WILET115	115	1							
			Open 130796 E.NOR115	115	130863 WILET115	115	1				-0.23590	-0.00427	-74.1	-84.2
21212	2395.9	118.8	L: 136150 CLAY	345	136156 VOLNEY	345	1	-945.3	-1434.0	-0.20398		-0.18102	-708.1	-1141.8
			C:136156 VOLNEY	345	147833 MARCY T1	345	1							
			Open 136156 VOLNEY	345	147833 MARCY T1	345	1				-0.30018	0.07649	790.1	973.4
21217	2471.6	139.5	L: 130787 CODNT115	115	130830 MONTR115	115	1	21.3	144.0	0.04963		0.04586	15.7	129.0
			C:130776 BORDR115	115	130823 GUARD115	115	1							
			Open 130776 BORDR115	115	130823 GUARD115	115	1				0.22482	0.01674	25.2	66.5
21218	2471.9	139.6	*L: 130787 CODNT115	115	130830 MONTR115	115	1	21.3	144.0	0.04963		0.04586	15.7	129.1
			C:130809 HALEY115	115	130823 GUARD115	115	1							
			Open 130809 HALEY115	115	130823 GUARD115	115	1				-0.22482	-0.01674	-25.1	-66.5
21219	2474.2	140.2	L: 130830 MONTR115	115	130844 RIDGR115	115	1	33.3	108.0	0.03020				
			Base Case											
21220	2478.3	141.3	L: 130824 LAPER115	115	136247 TULLER H	115	1	-41.3	-145.0	-0.04184		-0.01965	37.9	-10.8

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			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392					
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1		0.12320	-0.18016	-642.9	-1089.4	
21226	2501.5	147.7	L: 130787 CODNT115	115	130791 CORN TP1	115	1		-45.4	-143.0	-0.03900	-0.02027	-13.7 -64.4
			C:130787 CODNT115	115	130800 ETNA 115	115	1	255					
			Open 130787 CODNT115	115	130800 ETNA 115	115	1		0.76003	-0.02464	-41.7	-103.4	
21264	2610.4	177.4	L: 130807 GOUDY115	115	130848 S.OWE115	115	1		-11.6	143.0	0.05924	0.02797	15.1 88.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.10814	0.28921	-247.3	507.7	
21273	2631.3	183.1	L: 130814 HILSD115	115	130844 RIDGR115	115	1		-36.3	-145.0	-0.04130	-0.02881	-1.4 -77.3
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209					
			Open 130755 OAKDL345	345	131128 LAPEER	345	1		0.06176	-0.20212	-565.0	-1096.9	
21277	2637.6	184.9	L: 136158 INDEPNDC	345	136719 SITH-S5	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:SEABROOK					1570					
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW								
21278	2637.6	184.9	L: 136158 INDEPNDC	345	136719 SITH-S5	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:SEAB&OMS					1572					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW								
21279	2637.6	184.9	L: 136158 INDEPNDC	345	136720 SITH-S6	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:SEAB&OMS					1572					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW								
21280	2637.6	184.9	L: 136158 INDEPNDC	345	136720 SITH-S6	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:SEABROOK					1570					
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW								
21281	2637.6	184.9	L: 136158 INDEPNDC	345	136720 SITH-S6	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:MLS3&OMS					1571					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW								
21282	2637.6	184.9	L: 136158 INDEPNDC	345	136720 SITH-S6	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:MILLST 3					1569					
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW								
21283	2637.6	184.9	L: 136158 INDEPNDC	345	136719 SITH-S5	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:MILLST 3					1569					
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW								
21284	2637.6	184.9	L: 136158 INDEPNDC	345	136719 SITH-S5	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:MLS3&OMS					1571					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW								
21285	2637.8	184.9	L: 136158 INDEPNDC	345	136720 SITH-S6	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9 -254.9
			C:GEN:9 MI PT2					1558					
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW								

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21286	2637.8	184.9	L: 136158 INDEPNDC	345	136719	SITH-S5	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:9 MI PT2					1558						
			Remove unit 2 from bus		136700	9M PT 2G	25.0	1197.5	MW	dispatch				
21287	2637.9	185.0	L: 136158 INDEPNDC	345	136720	SITH-S6	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:SALEM					1564						
			Remove unit 1 from bus		36	SALEM-G1	22.0	1117.3	MW	dispatch				
21288	2637.9	185.0	L: 136158 INDEPNDC	345	136719	SITH-S5	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:SALEM					1564						
			Remove unit 1 from bus		36	SALEM-G1	22.0	1117.3	MW	dispatch				
21289	2638.0	185.0	L: 136158 INDEPNDC	345	136720	SITH-S6	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:IND PT 3					1552						
			Remove unit 1 from bus		147798	IP#3 GEN	22.0	1072.8	MW	dispatch				
21290	2638.0	185.0	L: 136158 INDEPNDC	345	136719	SITH-S5	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:IND PT 3					1552						
			Remove unit 1 from bus		147798	IP#3 GEN	22.0	1072.8	MW	dispatch				
21291	2638.0	185.0	L: 136158 INDEPNDC	345	136720	SITH-S6	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:PEACHBTM					1565						
			Remove unit 1 from bus		34	PCHBTM 2	22.0	1060.3	MW	dispatch				
21292	2638.0	185.0	L: 136158 INDEPNDC	345	136719	SITH-S5	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:PEACHBTM					1565						
			Remove unit 1 from bus		34	PCHBTM 2	22.0	1060.3	MW	dispatch				
21293	2638.0	185.0	L: 136158 INDEPNDC	345	136719	SITH-S5	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:IND PT 2					1551						
			Remove unit 2 from bus		126651	IND PT 2	22.0	1053.7	MW	dispatch				
21294	2638.0	185.0	L: 136158 INDEPNDC	345	136720	SITH-S6	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:IND PT 2					1551						
			Remove unit 2 from bus		126651	IND PT 2	22.0	1053.7	MW	dispatch				
21295	2638.1	185.0	*L: 136158 INDEPNDC	345	136719	SITH-S5	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:IND PT 3-New					1770						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1			0.00000	0.00000	522.5	522.5
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2			0.00006	0.00000	-1041.8	-1041.8
21296	2638.1	185.0	*L: 136158 INDEPNDC	345	136720	SITH-S6	18.0	1	-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9
			C:GEN:IND PT 3-New					1770						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1			0.00000	0.00000	522.5	522.5
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2			0.00006	0.00000	-1041.8	-1041.8
24824	2677.9	195.9	L: 130814 HILSD115	115	130844	RIDGR115	115	1	-25.1	-145.0	-0.04478	-0.02881	-1.4	-78.6
			C:130830 MONTR115	115	130845	RIDGT115	115	1	334					
			Open 130830 MONTR115	115	130845	RIDGT115	115	1			-0.50610	0.03155	46.7	131.2
24834	2685.5	198.0	L: 130830 MONTR115	115	130844	RIDGR115	115	1	19.0	145.0	0.04692	0.03020	33.3	114.4
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.05783	0.28921	-247.3	529.4
24835	2685.9	198.1	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	10.5	143.0	0.04933	0.02797	-25.9	49.2

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24846	2696.9	201.1																				
24995	2725.6	208.9																				
25008	2726.7	209.2																				
26345	2739.0	212.6																				
26362	2739.8	212.8																				
26631	2787.0	225.7																				
26642	2787.7	225.9																				
28152	2853.1	243.8																				
28172	2895.3	255.3																				
28177	2900.4	256.7																				
28183	2905.1	258.0																				

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			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.00048	0.00000	21.8	21.8
28190	2914.2	260.5	L: Interface 50 PJMCentral-C								-167.2	-681.0	-0.17632	
			Base Case											
28191	2914.2	260.5	L: Interface 49 C-PJMCentral								167.2	681.0	0.17632	
			Base Case											
28200	2939.9	267.5	L: 130795 DEPEW115	115	135439 TUNGSTEN	115	1				-25.3	-120.0	-0.03221	-0.01770
			C:135442 ECWA-181	115	135458 NI.B-181	115	1	560						
			Open 135442 ECWA-181	115	135458 NI.B-181	115	1						0.46305	-0.03132
28201	2944.2	268.7	L: 130795 DEPEW115	115	135439 TUNGSTEN	115	1				-15.9	-120.0	-0.03535	-0.01770
			C:130834 N.BRW115	115	135437 CLSP-181	115	1	342						
			Open 130834 N.BRW115	115	135437 CLSP-181	115	1						0.55640	-0.03171
28208	2968.3	275.3	L: 136150 CLAY	345	136156 VOLNEY	345	1				-794.2	-1434.0	-0.21555	-0.18102
			C:GEN:9 MI PT1					1557						
			Open 136150 CLAY	345	136157 9MI PT1	345	1						0.34267	-0.10137
			Open 136155 SCRIBA	345	136157 9MI PT1	345	1						-0.22419	-0.00093
			Remove unit 1 from bus 136701 9M PT 1G	23.0	642.4 MW	dispatch								
28210	2975.7	277.3	L: 130830 MONTR115	115	130844 RIDGR115	115	1				27.2	145.0	0.03959	0.03020
			C:130814 HILSD115	115	130845 RIDGT115	115	1	310						
			Open 130814 HILSD115	115	130845 RIDGT115	115	1						-0.35213	-0.02669
28212	2983.9	279.5	L: 136152 ELBRIDGE	345	136154 OSWEGO	345	1				-699.2	-1206.0	-0.16983	
			Base Case											
28215	2985.4	280.0	L: 130830 MONTR115	115	130844 RIDGR115	115	1				45.0	145.0	0.03349	0.03020
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1						-0.01826	-0.18016
													-642.9	-1180.8

PJMWest-ZoneC

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 17 2009 15:08
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 17 2009 15:08
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From PENELEC_EXPORT To C_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 23190 violations

Interface-1 Interface 48 PJMWest-C Init.Flow= 543.53 TDF= 0.2140

N	FCITC	IntFcel	L: Limiting constraint		PreShift	MW	TDF		PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating		LODF		Init Final
1	-159913.	-33670.8	L: Interface 21 PJM-WEST		5150.9	-0.0	0.03221		0.07829	5112.7 -7406.3
			C:ETHS/NWES/LLGD	1648						
			Open 130763 HILSD230	230	200675	E.TWANDA		0.20080	-0.13647	117.6 21941.8
			Open 130836 N.WAV115	115	200676	E.SAYRE		0.18437	-0.05643	43.0 9066.3
			Open 130807 GOUDY115	115	200680	LAUREL L		0.17707	-0.04669	38.0 7504.1
2	-142047.	-29848.3	L: Interface 21 PJM-WEST		5085.0	-0.0	0.03580		0.07829	5112.7 -6007.6
			C:LKWANA-OXBW	1651						
			Open 417 OXBOW	230	3070	LACKAWNA		0.23139	-0.18362	-119.7 25963.0
3	-110811.	-23165.2	L: Interface 21 PJM-WEST		5139.3	0.0	0.04638		0.07829	5112.7 -3562.3
			C:SER:ETHS/NWES	1606						
			Open 130763 HILSD230	230	200675	E.TWANDA		0.17144	-0.13647	117.6 15240.6
			Open 130836 N.WAV115	115	200676	E.SAYRE		0.15082	-0.05643	43.0 6295.7
4	-110378.	-23072.5	L: Interface 21 PJM-WEST		5137.7	-0.0	0.04655		0.07829	5112.7 -3528.4

PJMWest-ZoneC

	C:SER:C398/NWES																		1605
	Open	409	GROVER	230	200675	E.TWANDA	230	1		0.06509	0.00470	-15.6	-534.5						
	Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.17346	-0.13647	117.6	15181.5						
	Open	381	TOWANDA	115	200675	E.TWANDA	230	1		0.01304	-0.00403	-52.1	393.1						
	Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.14744	-0.05643	43.0	6271.2						
5	-101717.-21219.4	L: Interface	21	PJM-WEST					5221.7	0.0	0.05134		0.07829	5112.7	-2850.3				
	C:GEN:FITZPATR																		1559
	Open	136155	SCRIBA	345	147830	JA FITZP	345	1		0.01631	0.08006	-67.9	-8211.5						
	Open	137200	EDIC	345	147830	JA FITZP	345	1		-0.18004	0.15694	43.5	-15920.3						
	Remove unit 1 from bus 147797 JAFITZ1G 24.0 886.8 MW dispatch																		
6	-101169.-21102.2	L: Interface	20	PJM-CENT					3222.4	0.0	0.03185		0.08559	3269.0	-5390.1				
	C:KEY-SHELOCTA/BLAIRSVL-SOCIAL																		1650
	Open	505	SHELOCTA	230	521	KEYSTONE	230	1		-0.36573	0.12312	50.1	-12406.3						
	Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1		-0.28310	0.03077	100.2	-3012.3						
7	-95489.5-19887.0	L: Interface	21	PJM-WEST					5133.5	-0.0	0.05376		0.07829	5112.7	-2362.8				
	C:ETHS/LLGD																		1649
	Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.13801	-0.13647	117.6	13149.5						
	Open	130807	GOUDY115	115	200680	LAUREL L	115	1		0.12187	-0.04669	38.0	4496.2						
8	-83729.8-17370.9	L: Interface	21	PJM-WEST					5127.4	-0.0	0.06124		0.07829	5112.7	-1442.2				
	C:130763 HILSD230			230	200675	E.TWANDA	230	1	1375										
	Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.12492	-0.13647	117.6	11544.6						
9	-81276.7-16846.1	L: Interface	20	PJM-CENT					3306.6	0.0	0.04068		0.08559	3269.0	-3687.5				
	C:SER:ETHS/NWES																		1606
	Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.24142	-0.13647	117.6	11209.8						
	Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.21196	-0.05643	43.0	4629.1						
10	-80713.7-16725.6	L: Interface	20	PJM-CENT					3304.2	-0.0	0.04094		0.08559	3269.0	-3639.3				
	C:SER:C398/NWES																		1605
	Open	409	GROVER	230	200675	E.TWANDA	230	1		0.09834	0.00470	-15.6	-395.0						
	Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.24445	-0.13647	117.6	11133.0						
	Open	381	TOWANDA	115	200675	E.TWANDA	230	1		0.01930	-0.00403	-52.1	273.4						
	Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.20696	-0.05643	43.0	4597.3						
11	-79552.1-16477.1	L: Interface	21	PJM-WEST					5184.7	-0.0	0.06517		0.07829	5112.7	-1115.1				
	C:GEN:9 MI PT1																		1560
	Open	136150	CLAY	345	136157	9MI PT1	345	1		0.00412	0.13567	-654.3	-11446.9						
	Open	136155	SCRIBA	345	136157	9MI PT1	345	1		-0.16712	0.08180	14.9	-6492.8						
	Remove unit 1 from bus 136701 9M PT 1G 23.0 642.4 MW dispatch																		
12	-75777.9-15669.6	L: Interface	21	PJM-WEST					5105.2	0.0	0.06737		0.07829	5112.7	-819.7				
	C:SIN:90																		1666
	Open	270	ERIE SO.	230	531	ERIE SE	230	1		0.01010	0.10883	16.5	-8230.7						
	Open	270	ERIE SO.	230	522	WARREN	230	1		0.10000	-0.07775	6.5	5898.6						
	Open	522	WARREN	230	530	WARREN 2	115	4		-0.05672	0.07475	146.9	-5517.2						
13	-74044.4-15298.7	*L: Interface	21	PJM-WEST					5043.3	-0.0	0.06811		0.07829	5112.7	-683.9				

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			C:MULT04		1656								
			Open	9 JUNIATA	500	21 SUNBURY	500	1		-0.13383	0.07464	524.7	-5001.9
			Open	21 SUNBURY	500	3084 SUNBURY	230	24		-0.00698	0.02647	-121.6	-2081.7
1722	-64506.6-13258.0		L: Interface	20 PJM-CENT					3298.4	0.0	0.05113	0.08559	3269.0 -2252.1
			C:ETHS/LLGD					1649					
			Open	130763 HILSD230	230	200675 E.TWANDA	230	1		0.19432	-0.13647	117.6	8921.1
			Open	130807 GOUDY115	115	200680 LAUREL L	115	1		0.17004	-0.04669	38.0	3049.7
1741	-64178.5-13187.8		L: Interface	20 PJM-CENT					3437.3	0.0	0.05356	0.08559	3269.0 -2224.0
			C:GEN:9 MI PT1					1560					
			Open	136150 CLAY	345	136157 9MI PT1	345	1		0.00686	0.13567	-654.3	-9361.2
			Open	136155 SCRIBA	345	136157 9MI PT1	345	1		-0.40293	0.08180	14.9	-5235.1
			Remove unit 1	from bus	136701	9M PT 1G	23.0	642.4 MW					dispatch
1762	-53436.7-10889.5		L: Interface	20 PJM-CENT					3289.8	-0.0	0.06156	0.08559	3269.0 -1304.6
			C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375					
			Open	130763 HILSD230	230	200675 E.TWANDA	230	1		0.17605	-0.13647	117.6	7410.4
1771	-46551.0 -9416.3		L: Interface	20 PJM-CENT					3259.1	-0.0	0.07001	0.08559	3269.0 -715.3
			C:SIN:90					1666					
			Open	270 ERIE SO.	230	531 ERIE SE	230	1		0.01571	0.10883	16.5	-5049.8
			Open	270 ERIE SO.	230	522 WARREN	230	1		0.14943	-0.07775	6.5	3626.1
			Open	522 WARREN	230	530 WARREN 2	115	4		-0.07585	0.07475	146.9	-3332.6
1772	-46339.8 -9371.1		L: Interface	20 PJM-CENT					3966.3	-0.0	0.08559	0.08559	3269.0 -697.2
			C:GEN:PEACHBTM					1568					
			Remove unit 1	from bus	34 PCHBTM 2	22.0	1060.3 MW						dispatch
1773	-45736.3 -9242.0		L: Interface	20 PJM-CENT					3914.6	0.0	0.08559	0.08559	3269.0 -645.6
			C:GEN:SALEM					1567					
			Remove unit 1	from bus	36 SALEM-G1	22.0	1117.3 MW						dispatch
1774	-44254.8 -8925.0*L:		L: Interface	20 PJM-CENT					3787.8	0.0	0.08559	0.08559	3269.0 -518.7
			C:SIN:250					1677					
			Open	100508 SANDB115	115	100509 SB RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1
			Remove unit 3	from bus	103563 MILL#3	24.0	1276.0 MW						dispatch
3535	-3162.0 -133.0		L: Interface	47 C-PJMWest					-477.5	0.0	-0.15102	-0.21396	-543.5 133.0
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open	130755 OAKDL345	345	130757 WATRC345	345	1		-0.25044	-0.25129	-263.5	531.1
3536	-3162.0 -133.0		L: Interface	48 PJMWest-C					477.5	-0.0	0.15102	0.21396	543.5 -133.0
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open	130755 OAKDL345	345	130757 WATRC345	345	1		0.25044	-0.25129	-263.5	531.1
3537	-3047.1 -108.4		L: Interface	48 PJMWest-C					596.0	0.0	0.19561	0.21396	543.5 -108.4
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209					
			Open	130755 OAKDL345	345	131128 LAPEER	345	1		-0.09120	0.20118	-575.7	-1188.8
3538	-3047.1 -108.4		L: Interface	47 C-PJMWest					-596.0	-0.0	-0.19561	-0.21396	-543.5 108.4
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209					
			Open	130755 OAKDL345	345	131128 LAPEER	345	1		0.09120	0.20118	-575.7	-1188.8

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3539	-3009.5	-100.4	L: Interface 47 C-PJMWest				-597.3	0.0	-0.19846	-0.21396	-543.5	100.4
			C:131128 LAPEER 345 136153 LAFAYTTE 345 1 392									
			Open 131128 LAPEER 345 136153 LAFAYTTE 345 1						0.08234	0.18817	-652.6	-1218.8
3540	-3009.5	-100.4	L: Interface 48 PJMWest-C				597.3	-0.0	0.19846	0.21396	543.5	-100.4
			C:131128 LAPEER 345 136153 LAFAYTTE 345 1 392									
			Open 131128 LAPEER 345 136153 LAFAYTTE 345 1						-0.08234	0.18817	-652.6	-1218.8
3541	-2960.7	-89.9	L: Interface 47 C-PJMWest				-596.6	-0.0	-0.20149	-0.21396	-543.5	89.9
			C:GEN:FITZPATR 1559									
			Open 136155 SCRIBA 345 147830 JA FITZP 345 1						0.00489	0.08006	-67.9	-304.9
			Open 137200 EDIC 345 147830 JA FITZP 345 1						0.07693	0.15694	43.5	-421.2
			Remove unit 1 from bus 147797 JAFITZ1G 24.0 886.8 MW dispatch									
3542	-2960.7	-89.9	L: Interface 48 PJMWest-C				596.6	0.0	0.20149	0.21396	543.5	-89.9
			C:GEN:FITZPATR 1559									
			Open 136155 SCRIBA 345 147830 JA FITZP 345 1						-0.00489	0.08006	-67.9	-304.9
			Open 137200 EDIC 345 147830 JA FITZP 345 1						-0.07693	0.15694	43.5	-421.2
			Remove unit 1 from bus 147797 JAFITZ1G 24.0 886.8 MW dispatch									
3543	-2943.8	-86.3	L: Interface 48 PJMWest-C				629.8	-0.0	0.21395	0.21396	543.5	-86.3
			C:HQ-NY-765-New 1778									
			Open 147827 MARCY765 765 147828 MASS 765 765 1 NA									
			Open 147828 MASS 765 765 180819 CHA-NY 765 1 NA									
			Open 147827 MARCY765 765 147833 MARCY T1 345 1						0.02483	-0.00005	624.7	624.9
			Open 147827 MARCY765 765 147833 MARCY T1 345 2						0.02483	-0.00005	543.6	543.8
			Open 156 MCY765SW 0.0 147827 MARCY765 765 1 NA									
			Open 147838 MASS230B 230 147839 MOSES E 230 1						-0.00000	0.00005	10.3	10.2
			Open 147828 MASS 765 765 147838 MASS230B 230 1 NA									
			Open 147837 MASS230A 230 147839 MOSES E 230 1						-0.05514	0.00000	18.8	18.8
			Open 147828 MASS 765 765 147837 MASS230A 230 1 NA									
			Open 158 MS765SW2 0.0 147828 MASS 765 765 1 NA									
			Open 157 MS765SW1 0.0 147828 MASS 765 765 1 NA									
			Decrease bus 180001 BEA-DLX 13.8 generation by 100.0 percent dispatch									
			Set bus 181319 CHAT G3 120 load to 357.0 MW dispatch									
			Decrease bus 180002 BEA-DL 13.8 generation by 100.0 percent dispatch									
			Set bus 181419 CHAT G4 120 load to 357.0 MW dispatch									
3544	-2943.8	-86.3	L: Interface 47 C-PJMWest				-629.8	0.0	-0.21395	-0.21396	-543.5	86.3
			C:HQ-NY-765-New 1778									
			Open 147827 MARCY765 765 147828 MASS 765 765 1 NA									
			Open 147828 MASS 765 765 180819 CHA-NY 765 1 NA									
			Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.02483	-0.00005	624.7	624.9
			Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.02483	-0.00005	543.6	543.8
			Open 156 MCY765SW 0.0 147827 MARCY765 765 1 NA									
			Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	0.00005	10.3	10.2
			Open 147828 MASS 765 765 147838 MASS230B 230 1 NA									

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				Open 147837 MASS230A	230	147839 MOSES E	230	1		0.05514	0.00000	18.8	18.8
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA				
				Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA				
				Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA				
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch				
				Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch				
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch				
				Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch				
3545	-2916.8	-80.5	L:	Interface 48 PJMWest-C			624.1	-0.0	0.21396		0.21396	543.5	-80.5
				C:GEN:9 MI PT2			1561						
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch						
3546	-2916.8	-80.5	L:	Interface 47 C-PJMWest			-624.1	0.0	-0.21396		-0.21396	-543.5	80.5
				C:GEN:9 MI PT2			1561						
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch						
3547	-2858.8	-68.1	L:	Interface 47 C-PJMWest			-611.7	0.0	-0.21396		-0.21396	-543.5	68.1
				C:SIN:250			1677						
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2		-0.00000	0.00000	-0.1	-0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
3548	-2858.8	-68.1	L:	Interface 48 PJMWest-C			611.7	-0.0	0.21396		0.21396	543.5	-68.1
				C:SIN:250			1677						
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
3549	-2858.5	-68.0	L:	Interface 47 C-PJMWest			-611.6	-0.0	-0.21396		-0.21396	-543.5	68.0
				C:GEN:SEABROOK			1573						
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
3550	-2858.5	-68.0	L:	Interface 47 C-PJMWest			-611.6	-0.0	-0.21396		-0.21396	-543.5	68.0
				C:GEN:SEAB&OMS			1575						
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2		-0.00000	0.00000	-0.1	-0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
3551	-2858.5	-68.0	L:	Interface 48 PJMWest-C			611.6	0.0	0.21396		0.21396	543.5	-68.0
				C:GEN:SEAB&OMS			1575						
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
3552	-2858.5	-68.0	L:	Interface 48 PJMWest-C			611.6	0.0	0.21396		0.21396	543.5	-68.0
				C:GEN:SEABROOK			1573						
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
3553	-2833.4	-62.7	*L:	Interface 48 PJMWest-C			606.2	-0.0	0.21396		0.21396	543.5	-62.7
				C:GEN:MLS3&OMS			1574						
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
3554	-2833.4	-62.7	*L:	Interface 47 C-PJMWest			-606.2	0.0	-0.21396		-0.21396	-543.5	62.7
				C:GEN:MLS3&OMS			1574						

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			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		-0.00000	0.00000	-0.1	-0.1	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
3817	-2548.8	-1.8	L: Interface 52 PJMEast-G					127.0	0.0	0.04981	0.00000	0.4	0.4
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.23281	-0.21396	-543.5 1.8
3818	-2548.8	-1.8	L: Interface 51 G-PJMEast					-127.0	-0.0	-0.04981	-0.00000	-0.4	-0.4
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.23281	-0.21396	-543.5 1.8
7049	-2328.8	45.3	L: Interface 51 G-PJMEast					-130.8	-0.0	-0.05617	-0.00000	-0.4	-0.4
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.23382	-0.21396	-543.5 -45.3
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.09178	-0.06691	-35.9 119.9
7050	-2328.8	45.3	L: Interface 52 PJMEast-G					130.8	0.0	0.05617	0.00000	0.4	0.4
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.23382	-0.21396	-543.5 -45.3
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.09178	-0.06691	-35.9 119.9
7067	-2082.3	98.0	L: Interface 51 G-PJMEast					-123.5	-0.0	-0.05932	-0.00000	-0.4	-0.4
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.23819	-0.21396	-543.5 -98.0
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.14809	-0.05643	43.0 160.5
7068	-2082.3	98.0	L: Interface 52 PJMEast-G					123.5	0.0	0.05932	0.00000	0.4	0.4
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.23819	-0.21396	-543.5 -98.0
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.14809	-0.05643	43.0 160.5
7071	-1736.9	171.9	L: Interface 51 G-PJMEast					-118.3	0.0	-0.06810	-0.00000	-0.4	-0.4
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.29437	-0.21396	-543.5 -171.9
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.13699	-0.03734	257.6 322.4
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.30557	0.00000	22.4 22.4
7072	-1736.9	171.9	L: Interface 52 PJMEast-G					118.3	-0.0	0.06810	0.00000	0.4	0.4
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.29437	-0.21396	-543.5 -171.9
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.13699	-0.03734	257.6 322.4
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.30557	0.00000	22.4 22.4
7073	-1058.2	317.1	L: Interface 51 G-PJMEast					-46.9	-0.0	-0.04433	-0.00000	-0.4	-0.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.17641	-0.25129	-263.5 2.4
7074	-1058.2	317.1	L: Interface 52 PJMEast-G					46.9	0.0	0.04433	0.00000	0.4	0.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.17641	-0.25129	-263.5 2.4
7075	-658.2	402.7	L: Interface 51 G-PJMEast					-45.9	-0.0	-0.06978	-0.00000	-0.4	-0.4
			C:LKWANA-OXBW				1651						

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			Open	417	OXBOW	230	3070	LACKAWNA	230	1				0.38004	-0.18362	-119.7	1.1
7076	-658.2	402.7	L: Interface	52	PJMEast-G						45.9	0.0	0.06978	0.00000	0.4	0.4	
			C:LKWANA-OXBW														
			Open	417	OXBOW	230	3070	LACKAWNA	230	1							
7077	-245.2	491.1	L: Interface	51	G-PJMEast						-8.5	0.0	-0.03462	-0.00000	-0.4	-0.4	
			C:SER:ESEE/WRFL														
			Open	270	ERIE SO.	230	531	ERIE SE	230	1							
			Open	531	ERIE SE	230	200654	ERIE E	230	1							
			Open	135277	FALCONER	115	200579	WARREN	115	1							
7078	-245.2	491.1	L: Interface	52	PJMEast-G						8.5	-0.0	0.03462	0.00000	0.4	0.4	
			C:SER:ESEE/WRFL														
			Open	270	ERIE SO.	230	531	ERIE SE	230	1							
			Open	531	ERIE SE	230	200654	ERIE E	230	1							
			Open	135277	FALCONER	115	200579	WARREN	115	1							
7079	-117.1	518.5	L: Interface	52	PJMEast-G						4.1	-0.0	0.03460	0.00000	0.4	0.4	
			C:SER:EESR/WRFL														
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1							
			Open	135277	FALCONER	115	200579	WARREN	115	1							
7080	-117.1	518.5	L: Interface	51	G-PJMEast						-4.1	0.0	-0.03460	-0.00000	-0.4	-0.4	
			C:SER:EESR/WRFL														
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1							
			Open	135277	FALCONER	115	200579	WARREN	115	1							
7081	46.8	553.5	L: Interface	52	PJMEast-G						-2.0	0.0	0.04336	0.00000	0.4	0.4	
			C:SER:EESR/WF/NWES														
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1							
			Open	135277	FALCONER	115	200579	WARREN	115	1							
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1							
7082	46.8	553.5	L: Interface	51	G-PJMEast						2.0	-0.0	-0.04336	-0.00000	-0.4	-0.4	
			C:SER:EESR/WF/NWES														
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1							
			Open	135277	FALCONER	115	200579	WARREN	115	1							
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1							
7083	225.1	591.7	L: Interface	50	PJMCentral-C						-66.5	-0.0	0.29526	0.23959	-198.6	-144.6	
			C:SER:HC-WC_30&W-F_171														
			Open	130757	WATRC345	345	200769	HOMER CY	345	1							
			Open	135277	FALCONER	115	200579	WARREN	115	1							
7084	225.1	591.7	L: Interface	49	C-PJMCentral						66.5	0.0	-0.29526	-0.23959	198.6	144.6	
			C:SER:HC-WC_30&W-F_171														
			Open	130757	WATRC345	345	200769	HOMER CY	345	1							
			Open	135277	FALCONER	115	200579	WARREN	115	1							
7085	229.1	592.5	L: Interface	50	PJMCentral-C						-61.6	-0.0	0.26903	0.23959	-198.6	-143.7	
			C:SER:HCWC/NWES														

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			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.22559	-0.21396	-543.5	-592.5
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.33367	-0.05643	43.0	30.1
7086	229.1	592.5	L: Interface 49 C-PJMCentral						61.6	0.0	-0.26903	-0.23959	198.6	143.7
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.22559	-0.21396	-543.5	-592.5
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.33367	-0.05643	43.0	30.1
7087	238.9	594.6	L: Interface 50 PJMCentral-C						-69.4	-0.0	0.29045	0.23959	-198.6	-141.4
			C:130757 WATRC345	345	200769	HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.23771	-0.21396	-543.5	-594.6
7088	238.9	594.6	L: Interface 49 C-PJMCentral						69.4	0.0	-0.29045	-0.23959	198.6	141.4
			C:130757 WATRC345	345	200769	HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.23771	-0.21396	-543.5	-594.6
7089	259.3	599.0	L: 135277 FALCONER	115	200579	WARREN	115	1	-94.0	-116.0	-0.08487	-0.06691	-35.9	-53.3
			C:135398 SW345	345	200769	HOMER CY	345	1 1380						
			Open 135398 SW345	345	200769	HOMER CY	345	1			0.15350	-0.11698	-378.4	-408.7
7090	266.1	600.5	L: Interface 49 C-PJMCentral						70.0	0.0	-0.26289	-0.23959	198.6	134.8
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.14495	-0.21396	-543.5	-600.5
			Open 130757 WATRC345	345	130768	WATRC230	230	1			-0.20645	-0.03734	257.6	247.6
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.14892	0.00000	22.4	22.4
7091	266.1	600.5	L: Interface 50 PJMCentral-C						-70.0	-0.0	0.26289	0.23959	-198.6	-134.8
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.14495	-0.21396	-543.5	-600.5
			Open 130757 WATRC345	345	130768	WATRC230	230	1			0.20645	-0.03734	257.6	247.6
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			-0.14892	0.00000	22.4	22.4
7092	450.1	639.8	L: Interface 50 PJMCentral-C						-107.9	0.0	0.23959	0.23959	-198.6	-90.7
			C:GEN:9 MI PT2					1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch							
7093	450.1	639.8	L: Interface 49 C-PJMCentral						107.9	-0.0	-0.23959	-0.23959	198.6	90.7
			C:GEN:9 MI PT2					1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch							
7094	475.6	645.3	L: Interface 50 PJMCentral-C						-114.0	-0.0	0.23959	0.23959	-198.6	-84.6
			C:HQ-NY-765-New					1778						
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833	MARCY T1	345	1			0.01633	-0.00005	624.7	624.7
			Open 147827 MARCY765	765	147833	MARCY T1	345	2			0.01633	-0.00005	543.6	543.6
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839	MOSES E	230	1			0.00000	0.00005	10.3	10.4
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839	MOSES E	230	1			-0.05989	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					

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			Open	158	MS765SW2	0.0	147828	MASS	765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA						
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch						
7095	475.6	645.3	L:	Interface	49	C-PJMCentral				114.0	0.0	-0.23959		-0.23959	198.6	84.6		
			C:	HQ-NY-765-New						1778								
			Open	147827	MARCY765		765	147828	MASS	765	765	1	NA					
			Open	147828	MASS	765	765	180819	CHA-NY	765	765	1	NA					
			Open	147827	MARCY765		765	147833	MARCY	T1	345	1		-0.01633	-0.00005	624.7	624.7	
			Open	147827	MARCY765		765	147833	MARCY	T1	345	2		-0.01633	-0.00005	543.6	543.6	
			Open	156	MCY765SW	0.0	147827	MARCY765		765	765	1	NA					
			Open	147838	MASS230B	230	147839	MOSES	E	230	230	1		-0.00000	0.00005	10.3	10.4	
			Open	147828	MASS	765	765	147838	MASS230B	230	230	1	NA					
			Open	147837	MASS230A	230	147839	MOSES	E	230	230	1		0.05989	0.00000	18.8	18.8	
			Open	147828	MASS	765	765	147837	MASS230A	230	230	1	NA					
			Open	158	MS765SW2	0.0	147828	MASS	765	765	765	1	NA					
			Open	157	MS765SW1	0.0	147828	MASS	765	765	765	1	NA					
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch						
7096	545.2	660.2	L:	Interface	49	C-PJMCentral				130.6	-0.0	-0.23959		-0.23959	198.6	68.0		
			C:	126250	RAMAPO	5	500	126296	RAM	PAR	345	1	78					
			Open	126250	RAMAPO	5	500	126296	RAM	PAR	345	1		-0.06789	0.00000	1001.1	1001.1	
7097	545.2	660.2	L:	Interface	50	PJMCentral-C				-130.6	0.0	0.23959		0.23959	-198.6	-68.0		
			C:	126250	RAMAPO	5	500	126296	RAM	PAR	345	1	78					
			Open	126250	RAMAPO	5	500	126296	RAM	PAR	345	1		0.06789	0.00000	1001.1	1001.1	
7098	545.2	660.2	L:	Interface	49	C-PJMCentral				130.6	0.0	-0.23959		-0.23959	198.6	68.0		
			C:	91	JEFFERSN	500	126250	RAMAPO	5	500	1	1351						
			Open	91	JEFFERSN	500	126250	RAMAPO	5	500	1			-0.06789	0.00000	1001.1	1001.1	
7099	545.2	660.2	L:	Interface	50	PJMCentral-C				-130.6	-0.0	0.23959		0.23959	-198.6	-68.0		
			C:	91	JEFFERSN	500	126250	RAMAPO	5	500	1	1351						
			Open	91	JEFFERSN	500	126250	RAMAPO	5	500	1			0.06789	0.00000	1001.1	1001.1	
7100	595.6	671.0	L:	Interface	49	C-PJMCentral				137.4	0.0	-0.23072		-0.23959	198.6	55.9		
			C:	130757	WATRC345	345	130768	WATRC230	230	230	1	213						
			Open	130757	WATRC345	345	130768	WATRC230	230	230	1			-0.23750	-0.03734	257.6	235.3	
7101	595.6	671.0	L:	Interface	50	PJMCentral-C				-137.4	-0.0	0.23072		0.23959	-198.6	-55.9		
			C:	130757	WATRC345	345	130768	WATRC230	230	230	1	213						
			Open	130757	WATRC345	345	130768	WATRC230	230	230	1			0.23750	-0.03734	257.6	235.3	
7102	617.9	675.7	*L:	Interface	49	C-PJMCentral				153.8	-0.0	-0.24896		-0.23959	198.6	50.5		

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			C:130764 MEYER230	230	131122	WTHRS230	230	1	221										
			Open 130764 MEYER230	230	131122	WTHRS230	230	1				0.18761	-0.04994	-238.5	-269.4				
7103	617.9	675.7	*L: Interface 50 PJMCentral-C							-153.8	0.0	0.24896	0.23959	-198.6	-50.5				
			C:130764 MEYER230	230	131122	WTHRS230	230	1	221										
			Open 130764 MEYER230	230	131122	WTHRS230	230	1				-0.18761	-0.04994	-238.5	-269.4				
7136	698.2	692.9	L: 135277 FALCONER	115	200579	WARREN	115	1		-49.1	-116.0	-0.09581	-0.06691	-35.9	-82.6				
			C:135250 DUNKIRK	230	135251	S RIPLEY	230	1	422										
			Open 135250 DUNKIRK	230	135251	S RIPLEY	230	1				0.20334	-0.14212	-64.9	-164.1				
7139	705.5	694.5	L: 135277 FALCONER	115	200579	WARREN	115	1		-65.6	-116.0	-0.07145	-0.06691	-35.9	-83.1				
			C:135398 SW345	345	135564	SW115	115	1	517										
			Open 135398 SW345	345	135564	SW115	115	1				-0.20297	0.02238	146.2	162.0				
7290	808.9	716.6	*L: Interface 52 PJMEast-G							-48.0	-0.0	0.05930	0.00000	0.4	0.4				
			C:SER:C398/NWES						1605										
			Open 409 GROVER	230	200675	E.TWANDA	230	1				-0.02734	0.00470	-15.6	-11.8				
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.30865	-0.13647	117.6	7.2				
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1				-0.01228	-0.00403	-52.1	-55.4				
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.30588	-0.05643	43.0	-2.7				
7291	808.9	716.6	*L: Interface 51 G-PJMEast							48.0	0.0	-0.05930	-0.00000	-0.4	-0.4				
			C:SER:C398/NWES						1605										
			Open 409 GROVER	230	200675	E.TWANDA	230	1				0.02734	0.00470	-15.6	-11.8				
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.30865	-0.13647	117.6	7.2				
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1				0.01228	-0.00403	-52.1	-55.4				
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.30588	-0.05643	43.0	-2.7				
10476	858.6	727.2	L: 135277 FALCONER	115	200579	WARREN	115	1		-32.8	-116.0	-0.09687	-0.06691	-35.9	-93.4				
			C:SER:EESR/NWES						1608										
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				0.20363	-0.14212	11.3	-110.7				
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.01801	-0.05643	43.0	-5.5				
10477	860.0	727.5	L: 135277 FALCONER	115	200579	WARREN	115	1		-33.6	-116.0	-0.09581	-0.06691	-35.9	-93.4				
			C:135251 S RIPLEY	230	200654	ERIE E	230	1	1378										
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				0.20334	-0.14212	11.3	-110.9				
10582	910.9	738.4	L: 135277 FALCONER	115	200579	WARREN	115	1		-55.1	-116.0	-0.06691	-0.06691	-35.9	-96.9				
			C:GEN:9 MI PT2						1561										
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch												
10587	922.8	741.0	L: Interface 19 PJM-NY							2394.6	3114.0	0.77956	0.77956	1498.2	2217.5				
			C:GEN:SEAB&OMS						1575										
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				-0.00004	0.00000	-0.1	-0.1				
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch												
10588	922.8	741.0	L: Interface 19 PJM-NY							2394.6	3114.0	0.77956	0.77956	1498.2	2217.5				
			C:GEN:SEABROOK						1573										
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch												
10589	922.8	741.0	L: Interface 35 NY-PJM							-2394.6	-3114.0	-0.77956	-0.77956	-1498.2	-2217.5				
			C:GEN:SEABROOK						1573										

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				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch					
10590	922.8	741.0	L:	Interface 35 NY-PJM					-2394.6	-3114.0	-0.77956	-0.77956	-1498.2 -2217.5
			C:	GEN:SEAB&OMS		1575							
				Open 100508 SANDB115	115	100509	SB	RCTOR	115	2	0.00004	0.00000	-0.1 -0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch					
10591	924.2	741.3	L:	135277 FALCONER 115 200579 WARREN	115	1			-54.2	-116.0	-0.06691	-0.06691	-35.9 -97.7
			C:	HQ-NY-765-New		1778							
				Open 147827 MARCY765	765	147828	MASS	765	765	1	NA		
				Open 147828 MASS 765	765	180819	CHA	NY	765	1	NA		
				Open 147827 MARCY765	765	147833	MARCY	T1	345	1	0.00291	-0.00005	624.7 624.7
				Open 147827 MARCY765	765	147833	MARCY	T1	345	2	0.00291	-0.00005	543.6 543.6
				Open 156 MCY765SW	0.0	147827	MARCY	765	765	1	NA		
				Open 147838 MASS230B	230	147839	MOSES	E	230	1	-0.00000	0.00005	10.3 10.4
				Open 147828 MASS 765	765	147838	MASS	230B	230	1	NA		
				Open 147837 MASS230A	230	147839	MOSES	E	230	1	0.02013	0.00000	18.8 18.8
				Open 147828 MASS 765	765	147837	MASS	230A	230	1	NA		
				Open 158 MS765SW2	0.0	147828	MASS	765	765	1	NA		
				Open 157 MS765SW1	0.0	147828	MASS	765	765	1	NA		
				Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch			
				Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch			
				Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch			
				Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch			
10596	928.2	742.1	L:	Interface 19 PJM-NY					2390.4	3114.0	0.77956	0.77956	1498.2 2221.8
			C:	SIN:250		1677							
				Open 100508 SANDB115	115	100509	SB	RCTOR	115	2	-0.00004	0.00000	-0.1 -0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
10597	928.2	742.1	L:	Interface 35 NY-PJM					-2390.4	-3114.0	-0.77956	-0.77956	-1498.2 -2221.8
			C:	SIN:250		1677							
				Open 100508 SANDB115	115	100509	SB	RCTOR	115	2	0.00004	0.00000	-0.1 -0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
10608	938.2	744.3	L:	135277 FALCONER 115 200579 WARREN	115	1			-53.2	-116.0	-0.06691	-0.06691	-35.9 -98.7
			C:	GEN:KINTIGH-New		1777							
				Open 130754 KINTI345	345	130873	KINTIG	24	24.0	1	0.00000	0.00000	-288.5 -288.5
				Open 130754 KINTI345	345	130873	KINTIG	24	24.0	2	0.02998	0.00000	-577.7 -577.7
10611	943.3	745.4	L:	Interface 19 PJM-NY					2378.6	3114.0	0.77956	0.77956	1498.2 2233.6
			C:	GEN:MLS3&OMS		1574							
				Open 100508 SANDB115	115	100509	SB	RCTOR	115	2	-0.00004	0.00000	-0.1 -0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
10612	943.3	745.4	L:	Interface 35 NY-PJM					-2378.6	-3114.0	-0.77956	-0.77956	-1498.2 -2233.6
			C:	GEN:MLS3&OMS		1574							
				Open 100508 SANDB115	115	100509	SB	RCTOR	115	2	0.00004	0.00000	-0.1 -0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					

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			Open 147827 MARCY765	765	147833	MARCY T1	345	1		0.14597	-0.00005	624.7	624.7
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		0.14597	-0.00005	543.6	543.6
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA				
			Open 147838 MASS230B	230	147839	MOSES E	230	1		-0.00000	0.00005	10.3	10.4
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA				
			Open 147837 MASS230A	230	147839	MOSES E	230	1		-0.61013	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA				
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA				
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA				
			Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch				
			Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch				
			Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch				
			Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch				
10660	1085.7	775.8	L: Interface 35 NY-PJM							-2267.6	-3114.0	-0.77956	-0.77956 -1498.2 -2344.6
			C:GEN:IND PT 3				1555						
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW	dispatch						
10661	1085.7	775.8	L: Interface 19 PJM-NY							2267.6	3114.0	0.77956	0.77956 1498.2 2344.6
			C:GEN:IND PT 3				1555						
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW	dispatch						
10669	1098.7	778.6	L: Interface 19 PJM-NY							2257.5	3114.0	0.77956	0.77956 1498.2 2354.7
			C:GEN:IND PT 2				1554						
			Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7	MW	dispatch						
10670	1098.7	778.6	L: Interface 35 NY-PJM							-2257.5	-3114.0	-0.77956	-0.77956 -1498.2 -2354.7
			C:GEN:IND PT 2				1554						
			Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7	MW	dispatch						
10672	1106.9	780.4	L: Interface 19 PJM-NY							2251.1	3114.0	0.77956	0.77956 1498.2 2361.1
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch						
10673	1106.9	780.4	L: Interface 35 NY-PJM							-2251.1	-3114.0	-0.77956	-0.77956 -1498.2 -2361.1
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch						
10677	1114.3	781.9	*L: Interface 19 PJM-NY							2245.4	3114.0	0.77956	0.77956 1498.2 2366.8
			C:GEN:IND PT 3-New				1775						
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	1					0.00000	0.00000	522.5	522.5
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	2					-0.71720	0.00000	-1041.8	-1041.8
10678	1114.3	781.9	*L: Interface 35 NY-PJM							-2245.4	-3114.0	-0.77956	-0.77956 -1498.2 -2366.8
			C:GEN:IND PT 3-New				1775						
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	1					0.00000	0.00000	522.5	522.5
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	2					0.71720	0.00000	-1041.8	-1041.8
12419	1407.2	844.6	L: 131018 LOUNSL15 115 131850 CNYOG115 115 1							46.7	143.0	0.06845	0.04174 18.7 77.4
			C:130755 OAKDL345 345 130757 WATRC345 345 1 206										
			Open 130755 OAKDL345 345 130757 WATRC345 345 1							-0.10628	-0.25129	-263.5	-617.1

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12420	1435.6	850.7	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-44.7	-143.0	-0.06845	-0.04174	-16.7	-76.6	
			C:130755 OAKDL345	345	130757	WATRC345	345	1							
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.10628	-0.25129	-263.5	-624.3
12425	1560.0	877.3	L: 130801 PAVMT115	115	130857	STOLE115	115	1	-100.4	-179.0	-0.05038	-0.03553	-76.0	-131.4	
			C:130857 STOLE115	115	130858	GIRD115	115	1							
			Open 130857 STOLE115	115	130858	GIRD115	115	1				-0.37783	0.03931	64.6	125.9
12444	1667.2	900.2	L: Interface 26 ONTARIO-MICH						367.5	-0.0	-0.22044	-0.22044	736.0	368.5	
			C:GEN:BRUCE 6												
			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5	MW	dispatch								
12461	1792.2	927.0	L: 130801 PAVMT115	115	130857	STOLE115	115	1	-98.6	-179.0	-0.04487	-0.03553	-76.0	-139.7	
			C:SER:HCWC/NWES												
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.04202	-0.21396	-543.5	-927.0
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.00621	-0.05643	43.0	-58.1
12462	1793.6	927.3	L: 130836 N.WAV115	115	131018	LOUNSI115	115	1	50.2	173.0	0.06845	0.04174	22.2	97.1	
			C:130755 OAKDL345	345	130757	WATRC345	345	1							
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.10628	-0.25129	-263.5	-714.3
12463	1805.0	929.7	L: 130801 PAVMT115	115	130857	STOLE115	115	1	-98.7	-179.0	-0.04447	-0.03553	-76.0	-140.1	
			C:130757 WATRC345	345	200769	HOMER CY	345	1							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.04180	-0.21396	-543.5	-929.7
12464	1810.1	930.8	L: 130801 PAVMT115	115	130857	STOLE115	115	1	-98.4	-179.0	-0.04452	-0.03553	-76.0	-140.3	
			C:BUS:WATERCURE_345												
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.04197	-0.21396	-543.5	-930.8
			Open 130757 WATRC345	345	130768	WATRC230	230	1				0.00038	-0.03734	257.6	190.0
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.01405	0.00000	22.4	22.4
12465	1816.2	932.1	L: 130799 ERIE 115	115	130801	PAVMT115	115	1	-88.1	-179.0	-0.05006	-0.03553	-64.2	-128.7	
			C:130857 STOLE115	115	130858	GIRD115	115	1							
			Open 130857 STOLE115	115	130858	GIRD115	115	1				-0.36975	0.03931	64.6	136.0
12466	1825.3	934.1	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	99.3	173.0	0.04038	0.02911	78.2	131.4	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04986	0.22599	422.3	834.8
12469	1835.2	936.2	L: Interface 26 ONTARIO-MICH						398.7	0.0	-0.21728	-0.22044	736.0	331.4	
			C:LAMBT7/LAMBGEN												
			Open 160050 LAMB L4D	345	B\$1020	LAMBTON T7	1.00	T7				0.06606	0.04796	-234.0	-145.9
			Open 160064 LAMB T78	220	B\$1020	LAMBTON T7	1.00	T7				0.72540	0.00000	0.3	0.3
			Set bus 160705 LAMBTNG4	24.0	generation	to			0.0	MW	dispatch				
12470	1835.8	936.3	L: Interface 26 ONTARIO-MICH						398.9	0.0	-0.21731	-0.22044	736.0	331.3	
			C:LAMBT8/LAMBGEN												
			Open 160050 LAMB L4D	345	B\$1021	LAMBTON T8	1.00	T8				0.06583	0.04760	-232.1	-144.7
			Open 160064 LAMB T78	220	B\$1021	LAMBTON T8	1.00	T8				0.72556	0.00000	0.4	0.4
			Set bus 160705 LAMBTNG4	24.0	generation	to			0.0	MW	dispatch				
12471	1845.5	938.4	L: 130801 PAVMT115	115	130857	STOLE115	115	1	-88.5	-179.0	-0.04902	-0.03553	-76.0	-141.6	
			C:130806 GARDV115	115	130858	GIRD115	115	1							

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			Open 130806 GARDV115	115	130858 GIRD115	115	1			0.36205	-0.03728	-34.6	-103.4
12476	1902.5	950.6	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-97.7	-179.0	-0.04274	-0.03553	-76.0	-143.6
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04152	-0.21396	-543.5	-950.6
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.02497	-0.06691	-35.9	-163.2
12481	1915.7	953.4	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.0	159.0	0.03443	0.02483	75.1	122.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04252	0.22599	422.3	855.2
12498	1957.0	962.3	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-101.8	-179.0	-0.03947	-0.03553	-76.0	-145.5
			C:135398 SW345	345	135564 SW115	115	1 517						
			Open 135398 SW345	345	135564 SW115	115	1			-0.17605	0.02238	146.2	190.0
12551	2010.4	973.7	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	89.8	159.0	0.03443	0.02483	71.8	121.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04252	0.22599	422.3	876.6
12574	2023.0	976.4	L: Interface 26 ONTARIO-MICH					439.6	-0.0	-0.21728	-0.22044	736.0	290.0
			C:L4D+G3				1644						
			Open 160050 LAMB L4D	345	B\$1020 LAMBTON T7	1.00	T7			0.06606	0.04796	-234.0	-136.9
			Open 160064 LAMB T78	220	B\$1020 LAMBTON T7	1.00	T7			0.72540	0.00000	0.3	0.3
			Open 160069 LAMBTPK2	220	160704 LAMBTNG3	24.0	T3			0.65716	0.00000	62.1	62.1
			Remove unit 1 from bus 160704 LAMBTNG3	24.0	490.0 MW								
12575	2023.6	976.5	L: Interface 26 ONTARIO-MICH					439.8	-0.0	-0.21731	-0.22044	736.0	289.9
			C:L51D+G3				1645						
			Open 160050 LAMB L4D	345	B\$1021 LAMBTON T8	1.00	T8			0.06583	0.04760	-232.1	-135.8
			Open 160064 LAMB T78	220	B\$1021 LAMBTON T8	1.00	T8			0.72556	0.00000	0.4	0.4
			Open 160069 LAMBTPK2	220	160704 LAMBTNG3	24.0	T3			0.65727	0.00000	62.1	62.1
			Remove unit 1 from bus 160704 LAMBTNG3	24.0	490.0 MW								
12598	2034.7	978.9	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	-3.7	-143.0	-0.06845	-0.04174	24.3	-60.6
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.10628	-0.25129	-263.5	-774.8
12689	2055.0	983.2	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-86.8	-179.0	-0.04487	-0.03553	-64.2	-137.2
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04204	-0.21396	-543.5	-983.2
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.00621	-0.05643	43.0	-73.0
12708	2058.7	984.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	99.9	173.0	0.03548	0.02911	78.2	138.2
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04136	0.15413	524.7	842.0
12907	2070.2	986.5	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-86.9	-179.0	-0.04447	-0.03553	-64.2	-137.8
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04181	-0.21396	-543.5	-986.5
15424	2075.1	987.5	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-86.6	-179.0	-0.04452	-0.03553	-64.2	-137.9
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04198	-0.21396	-543.5	-987.5

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			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.00037	-0.03734	257.6	180.1
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.01405	0.00000	22.4	22.4
15619	2081.0	988.8	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-76.8	-179.0	-0.04911	-0.03553	-64.2	-138.1
			C:130806 GARDV115	115	130858 GIRD115	115	1	295					
			Open 130806 GARDV115	115	130858 GIRD115	115	1			0.36437	-0.03728	-34.6	-112.1
15904	2125.2	998.2	L: 130787 CODNT115	115	130830 MONTR115	115	1	-6.1	-144.0	-0.06488	-0.04424	15.5	-78.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.08214	-0.25129	-263.5	-797.6
15921	2157.5	1005.1	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-190.7	-637.0	-0.20686	-0.14212	-64.9	-371.5
			C:SER:HC-SR_37&W-F_171					1600					
			Open 135398 SW345	345	200769 HOMER CY	345	1			0.28847	-0.11698	-378.4	-630.8
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.46324	-0.06691	-35.9	-180.3
15926	2161.6	1006.0	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.6	159.0	0.03026	0.02483	75.1	128.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03527	0.15413	524.7	857.8
15927	2162.3	1006.2	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	16.6	143.0	0.05845	0.04174	18.7	108.9
			C:BUS:WATERCURE_345					1632					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.05669	-0.21396	-543.5	-1006.2
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.12286	-0.03734	257.6	176.8
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.05534	0.00000	22.4	22.4
15928	2171.3	1008.1	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-83.8	-173.0	-0.04106	-0.02960	-62.4	-126.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05070	0.22599	422.3	913.0
15931	2178.4	1009.6	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-85.9	-179.0	-0.04274	-0.03553	-64.2	-141.6
			C:SER:HC-WC_30&W-F_171					1601					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04154	-0.21396	-543.5	-1009.6
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.02496	-0.06691	-35.9	-181.7
15934	2195.7	1013.3	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-14.7	-143.0	-0.05845	-0.04174	-16.7	-108.4
			C:BUS:WATERCURE_345					1632					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.05669	-0.21396	-543.5	-1013.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.12286	-0.03734	257.6	175.6
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.05534	0.00000	22.4	22.4
15937	2216.1	1017.7	L: 135452 LOCKPORT	115	135876 TELRDTP1	115	1	104.1	180.0	0.03426	0.02470	86.2	140.9
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04231	0.22599	422.3	923.1
15938	2236.0	1021.9	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	18.7	112.0	0.04174			
			Base Case										
15939	2240.7	1022.9	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	29.3	143.0	0.05072	0.04174	18.7	112.2
			C:130768 WATRC230	230	130772 SHRED230	230	1	227					
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.15025	0.05979	71.0	205.0
15942	2254.3	1025.8	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	28.7	143.0	0.05072	0.04174	18.7	112.8
			C:SER:OAKDALE_WATRC230					1594					

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				Open 130768 WATRC230	230	130772 SHRED230	230	1		0.15025	0.05979	71.0	205.8	
				Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
				Open 130765 OAKDL230	230	130838 OAKDL115	115	1		-0.10162	0.00000	6.8	6.8	
15943	2255.5	1026.1	L:	130799 ERIE 115	115	130801 PAVMT115	115	1	-90.0	-179.0	-0.03947	-0.03553	-64.2	-144.3
			C:	135398 SW345	345	135564 SW115	115	1	517					
				Open 135398 SW345	345	135564 SW115	115	1		-0.17620	0.02238	146.2	196.7	
15946	2260.0	1027.1	L:	131018 LOUNSL115	115	131850 CNYOG115	115	1	28.4	143.0	0.05072	0.04174	18.7	113.0
			C:	130765 OAKDL230	230	130772 SHRED230	230	1	222					
				Open 130765 OAKDL230	230	130772 SHRED230	230	1		-0.15025	-0.05979	-64.5	-199.7	
15947	2260.8	1027.2	L:	131018 LOUNSL115	115	131850 CNYOG115	115	1	28.3	143.0	0.05072	0.04174	18.7	113.0
			C:	130765 OAKDL230	230	130838 OAKDL115	115	1	223					
				Open 130765 OAKDL230	230	130838 OAKDL115	115	1		0.15025	0.05979	64.3	199.4	
15950	2269.3	1029.1	L:	135872 SOUR-111	115	135873 SWDN-111	115	1	90.3	159.0	0.03026	0.02483	71.8	128.2
			C:	130754 KINTI345	345	149000 ROCH 345	345	1	205					
				Open 130754 KINTI345	345	149000 ROCH 345	345	1		0.03527	0.15413	524.7	874.4	
15953	2279.1	1031.2	L:	130848 S.OWE115	115	131850 CNYOG115	115	1	-27.4	-143.0	-0.05072	-0.04174	-16.7	-111.9
			C:	130768 WATRC230	230	130772 SHRED230	230	1	227					
				Open 130768 WATRC230	230	130772 SHRED230	230	1		-0.15025	0.05979	71.0	207.3	
15958	2280.5	1031.5	L:	130801 PAVMT115	115	130857 STOLE115	115	1	-89.5	-179.0	-0.03923	-0.03553	-76.0	-157.0
			C:	130806 GARDV115	115	135450 GRDNVLL1	115	1	297					
				Open 130806 GARDV115	115	135450 GRDNVLL1	115	1		-0.12156	0.03047	111.2	180.7	
15963	2282.7	1031.9	L:	130848 S.OWE115	115	131850 CNYOG115	115	1	-16.7	-112.0	-0.04174			
				Base Case										
15964	2288.1	1033.1	L:	Interface 26 ONTARIO-MICH					504.4	0.0	-0.22046	-0.22044	736.0	231.6
			C:	HQ-NY-765-New				1778						
				Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
				Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
				Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.13560	-0.00005	624.7	624.6	
				Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.13560	-0.00005	543.6	543.5	
				Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
				Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	0.00005	10.3	10.5	
				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
				Open 147837 MASS230A	230	147839 MOSES E	230	1		0.35776	0.00000	18.8	18.8	
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
				Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
				Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
15965	2288.3	1033.1	L:	135850 SOUR-114	115	135861 MORTIMER	115	1	71.0	153.0	0.03583	0.02583	52.3	111.4
			C:	147834 NIAG 345	345	149000 ROCH 345	345	1	1226					

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			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04425	0.22599	422.3	939.4
15966	2292.7	1034.1	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.7	-143.0	-0.05072	-0.04174	-16.7	-112.4
			C:SER:OAKDALE_WATRC230				1594						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.15025	0.05979	71.0	208.1
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			0.10162	0.00000	6.8	6.8
15969	2294.1	1034.4	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-87.3	-179.0	-0.03997	-0.03553	-76.0	-157.5
			C:130857 STOLE115	115	131466 DAVIS115	115	1	368					
			Open 130857 STOLE115	115	131466 DAVIS115	115	1			-0.28642	0.01553	39.4	75.0
15970	2298.4	1035.3	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.05072	-0.04174	-16.7	-112.7
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222					
			Open 130765 OAKDL230	230	130772 SHRED230	230	1			0.15025	-0.05979	-64.5	-202.0
15971	2299.2	1035.5	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.05072	-0.04174	-16.7	-112.7
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			-0.15025	0.05979	64.3	201.7
15972	2320.5	1040.0	L: Interface 26 ONTARIO-MICH					511.5	0.0	-0.22044	-0.22044	736.0	224.5
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
15977	2345.6	1045.4	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	98.3	180.0	0.03484	0.02512	80.1	139.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04302	0.22599	422.3	952.4
15978	2356.0	1047.6	L: 131018 LOUNSD115	115	131850 CNYOG115	115	1	4.4	143.0	0.05885	0.04174	18.7	117.0
			C:ETHS/LLGD				1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.06154	-0.13647	117.6	-203.9
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			-0.18664	-0.04669	38.0	-72.0
15979	2356.8	1047.8	L: 130836 N.WAV115	115	200676 E.SAYRE	115	1	43.0	-90.0	-0.05643			
			Base Case										
15980	2359.0	1048.3	L: Interface 26 ONTARIO-MICH					520.0	0.0	-0.22044	-0.22044	736.0	216.0
			C:GEN:NANTCK 8				1565						
			Remove unit 1 from bus 158743 NANTICK8	22.0	490.0 MW	dispatch							
15981	2362.0	1048.9	L: Interface 26 ONTARIO-MICH					520.7	-0.0	-0.22044	-0.22044	736.0	215.3
			C:GEN:PICKER 6				1566						
			Remove unit 1 from bus 156683 PIC B G5	24.0	510.9 MW	dispatch							
15984	2389.1	1054.7	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-2.4	-143.0	-0.05885	-0.04174	-16.7	-116.4
			C:ETHS/LLGD				1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.06154	-0.13647	117.6	-208.4
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.18664	-0.04669	38.0	-73.6
15985	2392.9	1055.5	L: 135276 ELLICTVL	115	135564 SW115	115	1	-76.6	-160.0	-0.03487	-0.02045	-42.3	-91.3
			C:130756 STOLE345	345	135398 SW345	345	1	212					
			Open 130756 STOLE345	345	135398 SW345	345	1			0.15245	-0.09460	-224.5	-450.8
15986	2397.8	1056.6	L: 135276 ELLICTVL	115	135564 SW115	115	1	-76.4	-160.0	-0.03487	-0.02045	-42.3	-91.4
			C:SER:STOLLE345/115				1595						

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				Open 130756 STOLE345	345	130857 STOLE115	115	1				-0.15245	0.04749	112.2	226.1
				Open 130756 STOLE345	345	130857 STOLE115	115	2				-0.15245	0.04711	111.2	224.1
15987	2405.2	1058.1	L:	130768 WATRC230	230	130772 SHRED230	230	1	139.4	440.0	0.12498		0.05979	71.0	214.8
			C:	130755 OAKDL345	345	130757 WATRC345	345	1							206
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.25941	-0.25129	-263.5	-868.0
15988	2437.3	1065.0	*L:	Interface 26 ONTARIO-MICH					638.1	-0.0	-0.26180		-0.22044	736.0	198.7
			C:	SER:HC-SR_37&W-F_171											1600
				Open 135398 SW345	345	200769 HOMER CY	345	1				0.23990	-0.11698	-378.4	-663.5
				Open 135277 FALCONER	115	200579 WARREN	115	1				0.19862	-0.06691	-35.9	-199.0
15989	2444.0	1066.4	L:	131018 LOUNSI115	115	131850 CNYOG115	115	1	-11.0	143.0	0.06301		0.04174	18.7	120.7
			C:	BUS:WATERCURE_230											1633
				Open 130768 WATRC230	230	130772 SHRED230	230	1				0.24198	0.05979	71.0	217.2
				Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.18211	-0.03734	257.6	166.3
				Open 130763 HILSD230	230	130768 WATRC230	230	1				0.12849	0.00000	0.5	0.5
15990	2448.6	1067.4	*L:	130801 PAVMT115	115	130857 STOLE115	115	1	-80.3	-179.0	-0.04029		-0.03553	-76.0	-163.0
			C:	KEY-SHELOCTA/BLAIRSVL-SOCIAL											1650
				Open 505 SHELOCTA	230	521 KEYSTONE	230	1				-0.03186	0.12312	50.1	351.6
				Open 473 BLAIRSVL	138	235253 01SOCIAL	138	1				-0.02730	0.03077	100.2	175.6
15991	2452.5	1068.3	L:	135862 MUMFORD1	115	135866 NLEROYTA	115	1	-84.5	-173.0	-0.03608		-0.02960	-62.4	-135.0
			C:	130754 KINTI345	345	149000 ROCH 345	345	1							205
				Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.04206	0.15413	524.7	902.7
15992	2457.2	1069.3	L:	130765 OAKDL230	230	130772 SHRED230	230	1	-132.9	-440.0	-0.12498		-0.05979	-64.5	-211.5
			C:	130755 OAKDL345	345	130757 WATRC345	345	1							206
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.25941	-0.25129	-263.5	-881.0
15993	2459.4	1069.7	L:	130765 OAKDL230	230	130838 OAKDL115	115	1	132.6	440.0	0.12498		0.05979	64.3	211.3
			C:	130755 OAKDL345	345	130757 WATRC345	345	1							206
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.25941	-0.25129	-263.5	-881.6
15994	2474.9	1073.0	L:	130848 S.OWE115	115	131850 CNYOG115	115	1	12.9	-143.0	-0.06301		-0.04174	-16.7	-120.0
			C:	BUS:WATERCURE_230											1633
				Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.24198	0.05979	71.0	219.0
				Open 130757 WATRC345	345	130768 WATRC230	230	1				0.18211	-0.03734	257.6	165.2
				Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.12849	0.00000	0.5	0.5
15996	2499.7	1078.4	L:	135276 ELLICTVL	115	135285 MCHS-152	115	1	72.8	160.0	0.03487		0.02045	38.6	89.7
			C:	130756 STOLE345	345	135398 SW345	345	1							212
				Open 130756 STOLE345	345	135398 SW345	345	1				-0.15245	-0.09460	-224.5	-461.0
15998	2503.5	1079.2	L:	135452 LOCKPORT	115	135876 TELRDTP1	115	1	104.6	180.0	0.03011		0.02470	86.2	148.0
			C:	130754 KINTI345	345	149000 ROCH 345	345	1							205
				Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03510	0.15413	524.7	910.5
15999	2504.6	1079.4	L:	135276 ELLICTVL	115	135285 MCHS-152	115	1	72.7	160.0	0.03487		0.02045	38.6	89.8
			C:	SER:STOLLE345/115											1595
				Open 130756 STOLE345	345	130857 STOLE115	115	1				0.15245	0.04749	112.2	231.1
				Open 130756 STOLE345	345	130857 STOLE115	115	2				0.15245	0.04711	111.2	229.2

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16002	2508.6	1080.3	L: 135284 MCHS-151	115	135564 SW115	115	1	-76.2	-160.0	-0.03339	-0.01981	-44.0	-93.7
			C:130756 STOLE345	345	135398 SW345	345	1 212						
			Open 130756 STOLE345	345	135398 SW345	345	1			0.14358	-0.09460	-224.5	-461.8
16003	2513.4	1081.3	L: 135284 MCHS-151	115	135564 SW115	115	1	-76.1	-160.0	-0.03339	-0.01981	-44.0	-93.8
			C:SER:STOLLE345/115				1595						
			Open 130756 STOLE345	345	130857 STOLE115	115	1			-0.14358	0.04749	112.2	231.5
			Open 130756 STOLE345	345	130857 STOLE115	115	2			-0.14358	0.04711	111.2	229.6
16005	2521.4	1083.0	L: 130794 DELHI115	115	130804 DEL T115	115	1	68.4	164.0	0.03792	0.02098	0.5	53.4
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			-0.11754	-0.14406	-577.5	-940.8
16006	2525.9	1084.0	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-114.5	-637.0	-0.20686	-0.14212	11.3	-347.7
			C:SER:HC-SR_37&W-F_171				1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1			0.28847	-0.11698	-378.4	-673.9
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.46324	-0.06691	-35.9	-204.9
16007	2535.4	1086.0	L: 130824 LAPER115	115	136247 TULLER H	115	1	65.8	145.0	0.03123	0.02402	37.0	97.9
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			-0.04998	-0.14406	-577.5	-942.8
16011	2551.9	1089.5	L: 130857 STOLE115	115	130858 GIRD115	115	1	98.4	239.0	0.05511	0.03931	64.6	164.9
			C:130801 PAVMT115	115	130857 STOLE115	115	1 289						
			Open 130801 PAVMT115	115	130857 STOLE115	115	1			-0.44474	-0.03553	-76.0	-166.7
16017	2573.9	1094.2	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-77.9	-179.0	-0.03928	-0.03553	-64.2	-155.6
			C:130806 GARDV115	115	135450 GRDNV11	115	1 297						
			Open 130806 GARDV115	115	135450 GRDNV11	115	1			-0.12315	0.03047	111.2	189.6
16020	2585.5	1096.7	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	35.1	143.0	0.04174	0.04174	18.7	126.6
			C:HQ-NY-765-New				1778						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.00629	-0.00005	624.7	624.6
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.00629	-0.00005	543.6	543.5
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	0.00005	10.3	10.5
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.00867	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
16021	2585.6	1096.7	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	71.6	153.0	0.03149	0.02583	52.3	119.1
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						

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			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.03671	0.15413	524.7	923.2
16026	2589.7	1097.6	L: 130799 ERIE 115	115	130801	PAVMT115	115	1	-75.5	-179.0	-0.03997	-0.03553	-64.2	-156.2	
			C:130857 STOLE115	115	131466	DAVIS115	115	1							368
			Open 130857 STOLE115	115	131466	DAVIS115	115	1				-0.28630	0.01553	39.4	79.6
16027	2601.9	1100.2	L: 135277 FALCONER	115	200579	WARREN	115	1	-35.9	-210.0	-0.06691				
			Base Case												
16028	2614.9	1103.0	L: 130836 N.WAV115	115	131018	LOUNS115	115	1	20.2	173.0	0.05845	0.04174	22.2	131.4	
			C:BUS:WATERCURE_345												1632
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.05669	-0.21396	-543.5	-1103.0
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.12286	-0.03734	257.6	159.9
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.05534	0.00000	22.4	22.4
16030	2627.6	1105.7	L: 135851 SHEL-113	115	135874	SWDN-113	115	1	88.4	180.0	0.03484	0.02512	70.3	136.3	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							1226
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04303	0.22599	422.3	1016.1
16031	2629.5	1106.1	*L: 131018 LOUNS115	115	131850	CNYOG115	115	1	33.3	143.0	0.04174	0.04174	18.7	128.4	
			C:GEN:9 MI PT2												1561
			Remove unit 2 from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch						
16032	2632.2	1106.7	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-33.1	-143.0	-0.04174	-0.04174	-16.7	-126.6	
			C:HQ-NY-765-New												1778
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833	MARCY T1	345	1				-0.00629	-0.00005	624.7	624.6
			Open 147827 MARCY765	765	147833	MARCY T1	345	2				-0.00629	-0.00005	543.6	543.5
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839	MOSES E	230	1				0.00000	0.00005	10.3	10.5
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839	MOSES E	230	1				0.00867	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent	dispatch							
			Set bus 181319 CHAT G3	120	load to	357.0	MW	dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent	dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0	MW	dispatch							
16033	2636.2	1107.6	L: 130755 OAKDL345	345	130757	WATRC345	345	1	-263.5	-926.0	-0.25129				
			Base Case												
16040	2650.8	1110.7	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1	98.8	180.0	0.03062	0.02512	80.1	146.7	
			C:130754 KINTI345	345	149000	ROCH 345	345	1							205
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.03569	0.15413	524.7	933.2
16041	2651.4	1110.8	L: 135850 SOUR-114	115	135876	TELRDTP1	115	1	-85.0	-180.0	-0.03584	-0.02584	-66.3	-134.8	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							1226
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				-0.04426	0.22599	422.3	1021.5

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16042	2652.1	1111.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	85.8	173.0	0.03288	0.02911	78.2	155.4
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.01677	-0.21396	-543.5	-1111.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.00494	-0.03734	257.6	158.5
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.01331	0.00000	22.4	22.4
16051	2671.8	1115.2	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-63.3	-173.0	-0.04106	-0.02960	-41.9	-121.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05070	0.22599	422.3	1026.1
16052	2673.5	1115.5	*L: 130848 S.OWE115	115	131850 CNYOG115	115	1	20.4	-143.0	-0.06112	-0.04174	-16.7	-128.3
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.19959	0.09713	-186.1	73.6
16053	2675.9	1116.1	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	86.1	173.0	0.03249	0.02911	78.2	156.1
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.01471	-0.21396	-543.5	-1116.1
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.00415	-0.05643	43.0	-108.0
16060	2681.8	1117.3	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-465.5	-1076.0	-0.22765	-0.25129	-263.5	-937.5
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.08038	0.05979	71.0	231.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.76205	-0.03734	257.6	157.4
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.06465	0.00000	0.5	0.5
16066	2695.0	1120.1	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	86.2	173.0	0.03222	0.02911	78.2	156.7
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.01456	-0.21396	-543.5	-1120.1
16072	2705.2	1122.3	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-54.4	-153.0	-0.03644	-0.02627	-35.4	-106.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04499	0.22599	422.3	1033.6
16075	2709.0	1123.1	L: 130762 GARDV230	230	130767 STOLE230	230	1	187.2	478.0	0.10735	0.08109	126.8	346.4
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11383	-0.21396	-543.5	-1123.1
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.03370	-0.05643	43.0	-109.9
16078	2710.3	1123.4	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-37.8	239.0	0.10213	0.06668	-75.0	105.7
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.14107	-0.25129	-263.5	-944.6
16085	2723.9	1126.3	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	76.3	173.0	0.03548	0.02911	78.2	157.5
			C:130754 KINTI345	345	147834 NIAG 345	345	1 204						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.04136	-0.15413	46.0	-373.9
16087	2724.7	1126.5	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	85.7	173.0	0.03203	0.02911	78.2	157.6
			C:135850 SOUR-114	115	135876 TELRDTP1	115	1 673						
			Open 135850 SOUR-114	115	135876 TELRDTP1	115	1			-0.11295	-0.02584	-66.3	-136.7
16090	2727.2	1127.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	88.0	173.0	0.03116	0.02911	78.2	157.6
			C:130764 MEYER230	230	131122 WTHRS230	230	1 221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1			-0.04101	-0.04994	-238.5	-374.7

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16091	2728.9	1127.4	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	86.3	173.0	0.03177	0.02911	78.2	157.7
			C:135452 LOCKPORT	115	135872 SOUR-111	115	1 599						
			Open 135452 LOCKPORT	115	135872 SOUR-111	115	1			0.10725	0.02483	75.1	142.8
16094	2730.7	1127.8	*L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	87.6	173.0	0.03127	0.02911	78.2	157.7
			C:130770 SHLDN230	230	131122 WTHRS230	230	1 228						
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1			0.04101	0.05261	228.6	372.3
16098	2738.1	1129.4	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-125.5	-637.0	-0.18680	-0.14212	-64.9	-454.0
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.08545	-0.21396	-543.5	-1129.4
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.39454	-0.06691	-35.9	-219.1
16101	2741.5	1130.1	*L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-68.5	-179.0	-0.04029	-0.03553	-64.2	-161.6
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL				1650						
			Open 505 SHELOCTA	230	521 KEYSTONE	230	1			-0.03188	0.12312	50.1	387.6
			Open 473 BLAIRSVL	138	235253 01SOCIAL	138	1			-0.02731	0.03077	100.2	184.6
16102	2748.6	1131.6	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-465.9	-1076.0	-0.22195	-0.25129	-263.5	-954.2
			C:130757 WATRC345	345	130768 WATRC230	230	1 213						
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.78577	-0.03734	257.6	154.9
16106	2757.3	1133.5	L: 130762 GARDV230	230	130767 STOLE230	230	1	188.0	478.0	0.10518	0.08109	126.8	350.4
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11261	-0.21396	-543.5	-1133.5
16114	2762.2	1134.5	L: 130836 N.WAV115	115	131018 LOUNSN115	115	1	32.9	173.0	0.05072	0.04174	22.2	137.5
			C:130768 WATRC230	230	130772 SHRED230	230	1 227						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.15025	0.05979	71.0	236.2
16117	2764.6	1135.0	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-50.8	-153.0	-0.03695	-0.02664	-31.6	-105.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04563	0.22599	422.3	1047.0
16124	2775.8	1137.4	L: 130836 N.WAV115	115	131018 LOUNSN115	115	1	32.2	173.0	0.05072	0.04174	22.2	138.1
			C:SER:OAKDALE_WATRC230				1594						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.15025	0.05979	71.0	237.0
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			-0.10162	0.00000	6.8	6.8
16128	2781.5	1138.6	L: 130836 N.WAV115	115	131018 LOUNSN115	115	1	31.9	173.0	0.05072	0.04174	22.2	138.3
			C:130765 OAKDL230	230	130772 SHRED230	230	1 222						
			Open 130765 OAKDL230	230	130772 SHRED230	230	1			-0.15025	-0.05979	-64.5	-230.8
16129	2782.3	1138.8	L: 130836 N.WAV115	115	131018 LOUNSN115	115	1	31.9	173.0	0.05072	0.04174	22.2	138.3
			C:130765 OAKDL230	230	130838 OAKDL115	115	1 223						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			0.15026	0.05979	64.3	230.6
16132	2792.3	1141.0	L: 130787 CODNT115	115	130830 MONTR115	115	1	15.5	-108.0	-0.04424			
			Base Case										
16134	2793.4	1141.2	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-296.5	-1076.0	-0.27905	-0.25129	-263.5	-965.5
			C:130768 WATRC230	230	130772 SHRED230	230	1 227						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.46423	0.05979	71.0	238.1

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16135	2794.0	1141.3	L: 130756 STOLE345	345	130857 STOLE115	115	1	192.4	420.0	0.08147	0.04749	112.2	244.9
			C:130756 STOLE345	345	130857 STOLE115	115	2 211						
			Open 130756 STOLE345	345	130857 STOLE115	115	2			0.72128	0.04711	111.2	242.8
16137	2795.7	1141.7	L: 130857 STOLE115	115	130858 GIRD115	115	1	89.9	239.0	0.05333	0.03931	64.6	174.5
			C:130799 ERIE 115	115	130801 PAVMT115	115	1 282						
			Open 130799 ERIE 115	115	130801 PAVMT115	115	1			-0.39469	-0.03553	-64.2	-163.5
16141	2798.1	1142.2	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-295.2	-1076.0	-0.27905	-0.25129	-263.5	-966.7
			C:SER:OAKDALE_WATRC230				1594						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.46423	0.05979	71.0	238.3
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			0.19473	0.00000	6.8	6.8
16146	2804.2	1143.5	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-293.5	-1076.0	-0.27905	-0.25129	-263.5	-968.2
			C:130765 OAKDL230	230	130772 SHRED230	230	1 222						
			Open 130765 OAKDL230	230	130772 SHRED230	230	1			0.46423	-0.05979	-64.5	-232.2
16147	2804.6	1143.6	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-293.4	-1076.0	-0.27905	-0.25129	-263.5	-968.3
			C:130765 OAKDL230	230	130838 OAKDL115	115	1 223						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			-0.46423	0.05979	64.3	232.0
16149	2805.5	1143.8	L: 130836 N.WAV115	115	131018 LOUNS115	115	1	7.9	173.0	0.05885	0.04174	22.2	139.3
			C:ETHS/LLGD				1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.06154	-0.13647	117.6	-265.2
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			-0.18664	-0.04669	38.0	-93.0
16150	2805.9	1143.9	L: 130756 STOLE345	345	130857 STOLE115	115	2	191.9	420.0	0.08129	0.04711	111.2	243.4
			C:130756 STOLE345	345	130857 STOLE115	115	1 210						
			Open 130756 STOLE345	345	130857 STOLE115	115	1			0.71968	0.04749	112.2	245.4
16158	2814.3	1145.7	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-76.0	-176.0	-0.03553			
			Base Case										
16160	2817.5	1146.4	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-368.0	-1076.0	-0.25129	-0.25129	-263.5	-971.6
			C:HQ-NY-765-New				1778						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.03770	-0.00005	624.7	624.6
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.03770	-0.00005	543.6	543.5
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	0.00005	10.3	10.5
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.05810	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						

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			Set	bus 181419	CHAT G4	120	load to	357.0 MW dispatch									
16168	2826.8	1148.3	L:	135452	LOCKPORT	115	135872	SOUR-111	115	1	73.5	159.0	0.03026	0.02483	75.1	145.3	
			C:	130754	KINTI345	345	147834	NIAG 345	345	1	204						
			Open	130754	KINTI345	345	147834	NIAG 345	345	1				-0.03527	-0.15413	46.0	-389.7
16214	2850.4	1153.4	L:	130755	OAKDL345	345	130757	WATRC345	345	1	-359.7	-1076.0	-0.25129	-0.25129	-263.5	-979.8	
			C:	GEN:9	MI PT2					1561							
			Remove unit 2	from bus	136700	9M	PT 2G	25.0	1197.5	MW dispatch							
16226	2856.8	1154.8	L:	135285	MCHS-152	115	135295	SPVL-152	115	1	60.9	160.0	0.03467	0.02056	27.5	86.2	
			C:	130756	STOLE345	345	135398	SW345	345	1	212						
			Open	130756	STOLE345	345	135398	SW345	345	1				-0.14912	-0.09460	-224.5	-494.7
16240	2861.6	1155.8	L:	135285	MCHS-152	115	135295	SPVL-152	115	1	60.8	160.0	0.03467	0.02056	27.5	86.3	
			C:	SER:STOLLE345/115						1595							
			Open	130756	STOLE345	345	130857	STOLE115	115	1				0.14912	0.04749	112.2	248.1
			Open	130756	STOLE345	345	130857	STOLE115	115	2				0.14912	0.04711	111.2	246.0
16249	2863.8	1156.3	L:	130836	N.WAV115	115	131018	LOUNSI15	115	1	-7.4	173.0	0.06301	0.04174	22.2	141.8	
			C:	BUS:WATERCURE_230						1633							
			Open	130768	WATRC230	230	130772	SHRED230	230	1				0.24198	0.05979	71.0	242.3
			Open	130757	WATRC345	345	130768	WATRC230	230	1				-0.18211	-0.03734	257.6	150.6
			Open	130763	HILSD230	230	130768	WATRC230	230	1				0.12849	0.00000	0.5	0.5
16345	2886.6	1161.1	L:	130857	STOLE115	115	130858	GIRD115	115	1	92.4	239.0	0.05079	0.03931	64.6	178.0	
			C:	SER:HCWC/NWES						1607							
			Open	130757	WATRC345	345	200769	HOMER CY	345	1				-0.05176	-0.21396	-543.5	-1161.1
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1				-0.00730	-0.05643	43.0	-119.9
16364	2888.8	1161.6	L:	135284	MCHS-151	115	135401	GERNATT	115	1	65.1	160.0	0.03284	0.01977	34.1	91.2	
			C:	130756	STOLE345	345	135398	SW345	345	1	212						
			Open	130756	STOLE345	345	135398	SW345	345	1				-0.13813	-0.09460	-224.5	-497.8
16419	2893.5	1162.6	L:	135284	MCHS-151	115	135401	GERNATT	115	1	65.0	160.0	0.03284	0.01977	34.1	91.3	
			C:	SER:STOLLE345/115						1595							
			Open	130756	STOLE345	345	130857	STOLE115	115	1				0.13813	0.04749	112.2	249.6
			Open	130756	STOLE345	345	130857	STOLE115	115	2				0.13813	0.04711	111.2	247.5
16497	2897.2	1163.4	L:	130807	GOUDY115	115	130848	S.OWE115	115	1	26.3	-143.0	-0.05845	-0.04174	24.3	-96.6	
			C:	BUS:WATERCURE_345						1632							
			Open	130757	WATRC345	345	200769	HOMER CY	345	1				0.05669	-0.21396	-543.5	-1163.4
			Open	130757	WATRC345	345	130768	WATRC230	230	1				0.12286	-0.03734	257.6	149.4
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				0.05534	0.00000	22.4	22.4
17718	2910.1	1166.2	L:	130857	STOLE115	115	130858	GIRD115	115	1	92.5	239.0	0.05033	0.03931	64.6	179.0	
			C:	130757	WATRC345	345	200769	HOMER CY	345	1	1374						
			Open	130757	WATRC345	345	200769	HOMER CY	345	1				-0.05149	-0.21396	-543.5	-1166.2
17728	2911.4	1166.4	L:	130755	OAKDL345	345	130757	WATRC345	345	1	-344.4	-1076.0	-0.25129	-0.25129	-263.5	-995.2	
			C:	GEN:SEAB&OMS						1575							
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2				-0.00000	0.00000	-0.1	-0.1
			Remove unit 1	from bus	102869	SBRK	G1	25.0	1318.0	MW dispatch							

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17729	2911.4	1166.4*L:	130755 OAKDL345	345	130757 WATRC345	345	1	-344.4	-1076.0	-0.25129	-0.25129	-263.5	-995.2
			C:GEN:SEABROOK				1573						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
17810	2923.6	1169.1	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-147.2	-637.0	-0.16754	-0.14212	-64.9	-480.4
			C:135398 SW345	345	200769 HOMER CY	345	1 1380						
			Open 135398 SW345	345	200769 HOMER CY	345	1			0.21737	-0.11698	-378.4	-720.4
17824	2928.3	1170.1	L: 135401 GERNATT	115	147875 ARCADE	115	1	63.8	160.0	0.03284	0.01977	32.8	90.7
			C:130756 STOLE345	345	135398 SW345	345	1 212						
			Open 130756 STOLE345	345	135398 SW345	345	1			-0.13813	-0.09460	-224.5	-501.5
17829	2929.9	1170.4	L: 130857 STOLE115	115	130858 GIRD115	115	1	92.2	239.0	0.05010	0.03931	64.6	179.7
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.05073	-0.21396	-543.5	-1170.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.00170	-0.03734	257.6	148.2
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.01580	0.00000	22.4	22.4
17854	2933.0	1171.1	L: 135401 GERNATT	115	147875 ARCADE	115	1	63.7	160.0	0.03284	0.01977	32.8	90.8
			C:SER:STOLLE345/115				1595						
			Open 130756 STOLE345	345	130857 STOLE115	115	1			0.13813	0.04749	112.2	251.5
			Open 130756 STOLE345	345	130857 STOLE115	115	2			0.13813	0.04711	111.2	249.4
17862	2934.5	1171.4	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	70.2	159.0	0.03026	0.02483	71.8	144.7
			C:130754 KINTI345	345	147834 NIAG 345	345	1 204						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.03527	-0.15413	46.0	-406.3
17865	2934.8	1171.5	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-64.9	-482.0	-0.14212			
			Base Case										
17877	2938.4	1172.2	L: 130762 GARDV230	230	130767 STOLE230	230	1	184.7	478.0	0.09981	0.08109	126.8	365.0
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.11175	-0.21396	-543.5	-1172.2
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.07761	-0.06691	-35.9	-232.5
17977	2964.0	1177.7	L: 130814 HILSD115	115	130845 RIDGT115	115	1	29.3	145.0	0.03902	0.02608	15.8	93.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.05150	-0.25129	-263.5	-1008.4
18060	2971.7	1179.4	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	89.0	180.0	0.03062	0.02512	70.3	144.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03569	0.15413	524.7	982.7
19584	2995.7	1184.5	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	110.7	231.0	0.04016			
			Base Case										
19598	2998.8	1185.1	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1	-85.6	-180.0	-0.03149	-0.02584	-66.3	-143.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.03671	0.15413	524.7	986.9

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, MAY 07 2009 16:28
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-pjm-ny-3-115-os.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, MAY 07 2009 16:28
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-pjm-ny-3-115-os.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From PENELEC_EXPORT To C_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 28804 violations

Interface-1 Interface 48 PJMWest-C Init.Flow= 536.11 TDF= 0.2285

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating	LODF	Init Final
1	-157376.	-35422.9	L: Interface 21 PJM-WEST	5234.1	0.0	0.03326	0.05989	5126.4 -4299.0
			C:GEN:FITZPATR	1556				
			Open 136155 SCRIBA 345 147830 JA FITZP	345	1		0.01656	0.08131 -69.4-12865.6
			Open 137200 EDIC 345 147830 JA FITZP	345	1		-0.17827	0.15694 43.4-24655.6
			Remove unit 1 from bus 147797 JAFITZ1G 24.0	886.8	MW	dispatch		
2	-110719.	-24762.3	L: Interface 21 PJM-WEST	5197.3	0.0	0.04694	0.05989	5126.4 -1504.7
			C:GEN:9 MI PT1	1557				
			Open 136150 CLAY 345 136157 9MI PT1	345	1		0.00410	0.13666 -655.6-15786.7
			Open 136155 SCRIBA 345 136157 9MI PT1	345	1		-0.16515	0.08180 15.0 -9042.4
			Remove unit 1 from bus 136701 9M PT 1G 23.0	642.4	MW	dispatch		
3	-107729.	-24079.0	L: Interface 21 PJM-WEST	5113.7	-0.0	0.04747	0.05989	5126.4 -1325.6
			C:SIN:90	1663				
			Open 270 ERIE SO. 230 531 ERIE SE 230 1				0.01053	0.14305 27.8-15382.8

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	Open	270	ERIE SO.	230	522	WARREN	230	1		0.10475	-0.11180	-7.8	12036.8
	Open	522	WARREN	230	530	WARREN 2	115	4		-0.10368	0.02139	117.4	-2187.0
4	-99437.4-22184.4	L: Interface	21	PJM-WEST					5140.1	0.0	0.05169	0.05989	5126.4 -829.0
		C:130763	HILSD230	230	130768	WATRC230	230	1	219				
		Open	130763	HILSD230	230	130768	WATRC230	230	1		-0.06594	0.12434	-207.1-12571.2
5	-98496.7-21969.4	L: Interface	21	PJM-WEST					5056.1	0.0	0.05133	0.05989	5126.4 -772.6
		C:MULT04							1653				
		Open	9	JUNIATA	500	21	SUNBURY	500	1		-0.13270	0.06339	535.9 -5708.0
		Open	21	SUNBURY	500	3084	SUNBURY	230	24		-0.00654	0.02233	-117.5 -2316.9
6	-95996.2-21398.1	L: Interface	21	PJM-WEST					5145.7	-0.0	0.05360	0.05989	5126.4 -622.9
		C:BUS:WATERCURE_230							1630				
		Open	130768	WATRC230	230	130772	SHRED230	230	1		-0.03157	0.07525	59.5 -7163.9
		Open	130757	WATRC345	345	130768	WATRC230	230	1		0.07968	-0.04909	267.1 4979.9
		Open	130763	HILSD230	230	130768	WATRC230	230	1		-0.19083	0.00000	0.5 0.5
7	-91149.5-20290.7	L: Interface	21	PJM-WEST					5145.1	0.0	0.05645	0.05989	5126.4 -332.6
		C:130757	WATRC345	345	130768	WATRC230	230	1	213				
		Open	130757	WATRC345	345	130768	WATRC230	230	1		0.07014	-0.04909	267.1 4742.0
8	-90358.3-20109.9	L: Interface	21	PJM-WEST					4553.2	-0.0	0.05039	0.05989	5126.4 -285.2
		C:MULT11							1660				
		Open	5	CONEM-GH	500	26	HUNTERTN	500	1		-0.52320	0.01796	1147.6 -475.5
		Open	26	HUNTERTN	500	1152	HUNTRSTN	230	1		0.06731	-0.00151	404.7 541.0
9	-90233.9-20081.5	L: Interface	21	PJM-WEST					5404.2	0.0	0.05989	0.05989	5126.4 -277.8
		C:GEN:SALEM							1564				
		Remove unit 1	from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch				
10	-89857.2-19995.4	*L: Interface	21	PJM-WEST					5381.6	0.0	0.05989	0.05989	5126.4 -255.2
		C:GEN:PEACHBTM							1565				
		Remove unit 1	from bus	34	PCHBTM 2	22.0	1060.3	MW	dispatch				
1728	-82479.0-18309.5	L: Interface	20	PJM-CENT					3271.3	0.0	0.03966	0.05810	3290.1 -1502.3
		C:SIN:90							1663				
		Open	270	ERIE SO.	230	531	ERIE SE	230	1		0.01647	0.14305	27.8-11770.7
		Open	270	ERIE SO.	230	522	WARREN	230	1		0.15668	-0.11180	-7.8 9213.7
		Open	522	WARREN	230	530	WARREN 2	115	4		-0.15330	0.02139	117.4 -1646.9
1746	-68662.7-15152.6	L: Interface	20	PJM-CENT					3306.6	-0.0	0.04816	0.05810	3290.1 -699.5
		C:130763	HILSD230	230	130768	WATRC230	230	1	219				
		Open	130763	HILSD230	230	130768	WATRC230	230	1		-0.07999	0.12434	-207.1 -8744.7
1747	-68639.1-15147.2	L: Interface	20	PJM-CENT					3988.2	-0.0	0.05810	0.05810	3290.1 -698.1
		C:GEN:PEACHBTM							1565				
		Remove unit 1	from bus	34	PCHBTM 2	22.0	1060.3	MW	dispatch				
1748	-67751.9-14944.5	L: Interface	20	PJM-CENT					3936.6	0.0	0.05810	0.05810	3290.1 -646.6
		C:GEN:SALEM							1564				
		Remove unit 1	from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch				
1749	-65530.2-14436.9	L: Interface	20	PJM-CENT					3807.5	0.0	0.05810	0.05810	3290.1 -517.5

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			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.24974	-0.27758	-247.3	580.0
3520	-2980.2	-144.8	L: Interface 47 C-PJMWest					-474.4	0.0	-0.15917	-0.22849	-536.1	144.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						
3521	-2980.2	-144.8	L: Interface 48 PJMWest-C					474.4	-0.0	0.15917	0.22849	536.1	-144.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						
3522	-2980.2	-144.8	L: Interface 61 PJMC2C					474.4	-0.0	0.15917	0.22849	536.1	-144.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						
3523	-2801.8	-104.1	L: Interface 60 C2PJMC					-589.3	0.0	-0.21033	-0.22849	-536.1	104.1
			C:130755 OAKDL345	345	131128 LAPEER	345	1 209						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1						
3524	-2801.8	-104.1	L: Interface 48 PJMWest-C					589.3	-0.0	0.21033	0.22849	536.1	-104.1
			C:130755 OAKDL345	345	131128 LAPEER	345	1 209						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1						
3525	-2801.8	-104.1	L: Interface 61 PJMC2C					589.3	-0.0	0.21033	0.22849	536.1	-104.1
			C:130755 OAKDL345	345	131128 LAPEER	345	1 209						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1						
3526	-2801.8	-104.1	L: Interface 47 C-PJMWest					-589.3	0.0	-0.21033	-0.22849	-536.1	104.1
			C:130755 OAKDL345	345	131128 LAPEER	345	1 209						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1						
3527	-2772.5	-97.4	L: Interface 47 C-PJMWest					-590.8	-0.0	-0.21310	-0.22849	-536.1	97.4
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1 392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1						
3528	-2772.5	-97.4	L: Interface 61 PJMC2C					590.8	0.0	0.21310	0.22849	536.1	-97.4
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1 392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1						
3529	-2772.5	-97.4	L: Interface 60 C2PJMC					-590.8	-0.0	-0.21310	-0.22849	-536.1	97.4
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1 392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1						
3530	-2772.5	-97.4	L: Interface 48 PJMWest-C					590.8	0.0	0.21310	0.22849	536.1	-97.4
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1 392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1						
3531	-2738.6	-89.6	L: Interface 60 C2PJMC					-590.6	-0.0	-0.21567	-0.22849	-536.1	89.6
			C:GEN:FITZPATR				1556						
			Open 136155 SCRIBA	345	147830 JA FITZP	345	1						
			Open 137200 EDIC	345	147830 JA FITZP	345	1						
			Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8 MW	dispatch							
3532	-2738.6	-89.6	L: Interface 61 PJMC2C					590.6	0.0	0.21567	0.22849	536.1	-89.6
			C:GEN:FITZPATR				1556						
			Open 136155 SCRIBA	345	147830 JA FITZP	345	1						

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			Open 137200 EDIC	345 147830 JA FITZP	345 1			-0.07899	0.15694	43.4	-386.4
			Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8 MW	dispatch					
3533	-2738.6	-89.6	L: Interface 48 PJMWest-C				590.6	0.0	0.21567	0.22849	536.1 -89.6
			C:GEN:FITZPATR		1556						
			Open 136155 SCRIBA	345 147830 JA FITZP	345 1			-0.00521	0.08131	-69.4	-292.1
			Open 137200 EDIC	345 147830 JA FITZP	345 1			-0.07899	0.15694	43.4	-386.4
			Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8 MW	dispatch					
3534	-2738.6	-89.6	L: Interface 47 C-PJMWest				-590.6	-0.0	-0.21567	-0.22849	-536.1 89.6
			C:GEN:FITZPATR		1556						
			Open 136155 SCRIBA	345 147830 JA FITZP	345 1			0.00521	0.08131	-69.4	-292.1
			Open 137200 EDIC	345 147830 JA FITZP	345 1			0.07899	0.15694	43.4	-386.4
			Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8 MW	dispatch					
3535	-2734.3	-88.7	L: Interface 47 C-PJMWest				-624.8	-0.0	-0.22849	-0.22849	-536.1 88.7
			C:HQ-NY-765-New		1773						
			Open 147827 MARCY765	765 147828 MASS 765	765 1	NA					
			Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA					
			Open 147827 MARCY765	765 147833 MARCY T1	345 1			-0.02528	-0.00006	624.7	624.8
			Open 147827 MARCY765	765 147833 MARCY T1	345 2			-0.02528	-0.00005	543.6	543.7
			Open 156 MCY765SW	0.0 147827 MARCY765	765 1	NA					
			Open 147838 MASS230B	230 147839 MOSES E	230 1			0.00000	0.00006	10.4	10.2
			Open 147828 MASS 765	765 147838 MASS230B	230 1	NA					
			Open 147837 MASS230A	230 147839 MOSES E	230 1			0.05682	0.00000	18.8	18.8
			Open 147828 MASS 765	765 147837 MASS230A	230 1	NA					
			Open 158 MS765SW2	0.0 147828 MASS 765	765 1	NA					
			Open 157 MS765SW1	0.0 147828 MASS 765	765 1	NA					
			Decrease bus 180001 BEA-DLX	13.8 generation by	100.0	percent dispatch					
			Set bus 181319 CHAT G3	120 load to	357.0	MW dispatch					
			Decrease bus 180002 BEA-DL	13.8 generation by	100.0	percent dispatch					
			Set bus 181419 CHAT G4	120 load to	357.0	MW dispatch					
3536	-2734.3	-88.7	L: Interface 61 PJMC2C				624.8	0.0	0.22849	0.22849	536.1 -88.7
			C:HQ-NY-765-New		1773						
			Open 147827 MARCY765	765 147828 MASS 765	765 1	NA					
			Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA					
			Open 147827 MARCY765	765 147833 MARCY T1	345 1			0.02528	-0.00006	624.7	624.8
			Open 147827 MARCY765	765 147833 MARCY T1	345 2			0.02528	-0.00005	543.6	543.7
			Open 156 MCY765SW	0.0 147827 MARCY765	765 1	NA					
			Open 147838 MASS230B	230 147839 MOSES E	230 1			-0.00000	0.00006	10.4	10.2
			Open 147828 MASS 765	765 147838 MASS230B	230 1	NA					
			Open 147837 MASS230A	230 147839 MOSES E	230 1			-0.05682	0.00000	18.8	18.8
			Open 147828 MASS 765	765 147837 MASS230A	230 1	NA					
			Open 158 MS765SW2	0.0 147828 MASS 765	765 1	NA					
			Open 157 MS765SW1	0.0 147828 MASS 765	765 1	NA					

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			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch					
3537	-2734.3	-88.7	L: Interface 60 C2PJMC			-624.8	-0.0	-0.22849		-0.22849	-536.1	88.7
			C:HQ-NY-765-New									
						1773						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA				
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA				
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.02528	-0.00006	624.7	624.8
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.02528	-0.00005	543.6	543.7
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA				
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	0.00006	10.4	10.2
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA				
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.05682	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA				
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA				
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA				
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch					
3538	-2734.3	-88.7	L: Interface 48 PJMWest-C			624.8	0.0	0.22849		0.22849	536.1	-88.7
			C:HQ-NY-765-New									
						1773						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA				
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA				
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.02528	-0.00006	624.7	624.8
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.02528	-0.00005	543.6	543.7
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA				
			Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	0.00006	10.4	10.2
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA				
			Open 147837 MASS230A	230	147839 MOSES E	230	1		-0.05682	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA				
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA				
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA				
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch					
3539	-2709.4	-83.0	L: Interface 48 PJMWest-C			619.1	0.0	0.22849		0.22849	536.1	-83.0
			C:GEN:9 MI PT2									
						1558						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch					
3540	-2709.4	-83.0	L: Interface 60 C2PJMC			-619.1	-0.0	-0.22849		-0.22849	-536.1	83.0

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			C:GEN:9 MI PT2			1558							
			Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch						
3541	-2709.4	-83.0	L: Interface	61 PJMC2C				619.1	0.0	0.22849		0.22849	536.1 -83.0
			C:GEN:9 MI PT2			1558							
			Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch						
3542	-2709.4	-83.0	L: Interface	47 C-PJMWest				-619.1	-0.0	-0.22849		-0.22849	-536.1 83.0
			C:GEN:9 MI PT2			1558							
			Remove unit 2	from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch						
3543	-2650.2	-69.4	L: Interface	48 PJMWest-C				605.5	-0.0	0.22849		0.22849	536.1 -69.4
			C:GEN:SEAB&OMS			1572							
			Open 100508 SANDB115	115 100509 SB RCTOR		115 2				0.00000	0.00000		-0.1 -0.1
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
3544	-2650.2	-69.4	L: Interface	61 PJMC2C				605.5	-0.0	0.22849		0.22849	536.1 -69.4
			C:GEN:SEAB&OMS			1572							
			Open 100508 SANDB115	115 100509 SB RCTOR		115 2				0.00000	0.00000		-0.1 -0.1
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
3545	-2650.2	-69.4	L: Interface	61 PJMC2C				605.5	-0.0	0.22849		0.22849	536.1 -69.4
			C:GEN:SEABROOK			1570							
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
3546	-2650.2	-69.4	L: Interface	48 PJMWest-C				605.5	-0.0	0.22849		0.22849	536.1 -69.4
			C:GEN:SEABROOK			1570							
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
3547	-2650.2	-69.4	L: Interface	47 C-PJMWest				-605.5	0.0	-0.22849		-0.22849	-536.1 69.4
			C:GEN:SEABROOK			1570							
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
3548	-2650.2	-69.4	L: Interface	47 C-PJMWest				-605.5	0.0	-0.22849		-0.22849	-536.1 69.4
			C:GEN:SEAB&OMS			1572							
			Open 100508 SANDB115	115 100509 SB RCTOR		115 2				-0.00000	0.00000		-0.1 -0.1
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
3549	-2650.2	-69.4	L: Interface	60 C2PJMC				-605.5	0.0	-0.22849		-0.22849	-536.1 69.4
			C:GEN:SEAB&OMS			1572							
			Open 100508 SANDB115	115 100509 SB RCTOR		115 2				-0.00000	0.00000		-0.1 -0.1
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
3550	-2650.2	-69.4	L: Interface	60 C2PJMC				-605.5	0.0	-0.22849		-0.22849	-536.1 69.4
			C:GEN:SEABROOK			1570							
			Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
3551	-2650.0	-69.4	L: Interface	60 C2PJMC				-605.5	-0.0	-0.22849		-0.22849	-536.1 69.4
			C:SIN:250			1674							
			Open 100508 SANDB115	115 100509 SB RCTOR		115 2				-0.00000	0.00000		-0.1 -0.1
			Remove unit 3	from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
3552	-2650.0	-69.4	L: Interface	61 PJMC2C				605.5	0.0	0.22849		0.22849	536.1 -69.4
			C:SIN:250			1674							

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				Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		0.00000	0.00000	-0.1	-0.1		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch									
3553	-2650.0	-69.4	L:	Interface 47 C-PJMWest								-605.5	-0.0	-0.22849	-0.22849	-536.1	69.4
				C:SIN:250						1674							
				Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		-0.00000	0.00000	-0.1	-0.1		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch									
3554	-2650.0	-69.4	L:	Interface 48 PJMWest-C								605.5	0.0	0.22849	0.22849	536.1	-69.4
				C:SIN:250						1674							
				Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		0.00000	0.00000	-0.1	-0.1		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch									
3555	-2625.8	-63.9	*L:	Interface 48 PJMWest-C								600.0	-0.0	0.22849	0.22849	536.1	-63.9
				C:GEN:MLS3&OMS						1571							
				Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		0.00000	0.00000	-0.1	-0.1		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch									
3556	-2625.8	-63.9	*L:	Interface 47 C-PJMWest								-600.0	0.0	-0.22849	-0.22849	-536.1	63.9
				C:GEN:MILLST 3						1569							
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch									
3557	-2625.8	-63.9	*L:	Interface 60 C2PJMC								-600.0	0.0	-0.22849	-0.22849	-536.1	63.9
				C:GEN:MILLST 3						1569							
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch									
3558	-2625.8	-63.9	*L:	Interface 61 PJMC2C								600.0	-0.0	0.22849	0.22849	536.1	-63.9
				C:GEN:MLS3&OMS						1571							
				Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		0.00000	0.00000	-0.1	-0.1		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch									
3611	-2492.7	-33.4	L:	Interface 56 NYE-PJMENoRE								-1498.3	-1287.0	-0.08478	-0.00000	-1299.4	-1299.4
				C:SER:HCWC/NWES						1604							
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1		0.37106	-0.22849	-536.1	33.4		
3612	-2492.7	-33.4	L:	Interface 55 PJME-NYEnoRE								1498.3	1287.0	0.08478	0.00000	1299.4	1299.4
				C:SER:HC-WC_30&W-F_171						1598							
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1		-0.37106	-0.22849	-536.1	33.4		
3613	-2492.7	-33.4	L:	Interface 55 PJME-NYEnoRE								1498.3	1287.0	0.08478	0.00000	1299.4	1299.4
				C:SER:HCWC/NWES						1604							
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1		-0.37106	-0.22849	-536.1	33.4		
3614	-2492.7	-33.4	L:	Interface 56 NYE-PJMENoRE								-1498.3	-1287.0	-0.08478	-0.00000	-1299.4	-1299.4
				C:SER:HC-WC_30&W-F_171						1598							
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1		0.37106	-0.22849	-536.1	33.4		
3615	-2492.7	-33.4	L:	Interface 55 PJME-NYEnoRE								1498.3	1287.0	0.08478	0.00000	1299.4	1299.4
				C:130757 WATRC345	345	200769	HOMER	CY	345	1	1374						
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1		-0.37106	-0.22849	-536.1	33.4		
3616	-2492.7	-33.4	L:	Interface 56 NYE-PJMENoRE								-1498.3	-1287.0	-0.08478	-0.00000	-1299.4	-1299.4
				C:130757 WATRC345	345	200769	HOMER	CY	345	1	1374						
				Open 130757 WATRC345	345	200769	HOMER	CY	345	1		0.37106	-0.22849	-536.1	33.4		

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4161	-2351.4	-1.2	L: Interface	51	G-PJMEast				-132.1	-0.0	-0.05620	-0.00000	-0.3	-0.3		
			C:SER:HC-WC_30&W-F_171				1598									
			Open 130757 WATRC345			345	200769	HOMER	CY	345	1		0.24594	-0.22849	-536.1	1.2
4162	-2351.4	-1.2	L: Interface	51	G-PJMEast				-132.1	-0.0	-0.05620	-0.00000	-0.3	-0.3		
			C:130757 WATRC345			345	200769	HOMER	CY	345	1	1374				
			Open 130757 WATRC345			345	200769	HOMER	CY	345	1		0.24594	-0.22849	-536.1	1.2
4163	-2351.4	-1.2	L: Interface	52	PJMEast-G				132.1	0.0	0.05620	0.00000	0.3	0.3		
			C:SER:HC-WC_30&W-F_171				1598									
			Open 130757 WATRC345			345	200769	HOMER	CY	345	1		-0.24594	-0.22849	-536.1	1.2
4164	-2351.4	-1.2	L: Interface	52	PJMEast-G				132.1	0.0	0.05620	0.00000	0.3	0.3		
			C:SER:HCWC/NWES				1604									
			Open 130757 WATRC345			345	200769	HOMER	CY	345	1		-0.24594	-0.22849	-536.1	1.2
4165	-2351.4	-1.2	L: Interface	51	G-PJMEast				-132.1	-0.0	-0.05620	-0.00000	-0.3	-0.3		
			C:SER:HCWC/NWES				1604									
			Open 130757 WATRC345			345	200769	HOMER	CY	345	1		0.24594	-0.22849	-536.1	1.2
4166	-2351.4	-1.2	L: Interface	52	PJMEast-G				132.1	0.0	0.05620	0.00000	0.3	0.3		
			C:130757 WATRC345			345	200769	HOMER	CY	345	1	1374				
			Open 130757 WATRC345			345	200769	HOMER	CY	345	1		-0.24594	-0.22849	-536.1	1.2
10539	-2162.1	42.1	L: Interface	56	NYE-PJMENoRE				-1353.2	-1287.0	-0.03063	-0.00000	-1299.4	-1299.4		
			C:147834 NIAG 345			345	149000	ROCH	345	345	1	1226				
			Open 147834 NIAG 345			345	149000	ROCH	345	345	1		-0.13055	0.23460	412.2	-95.1
10540	-2162.1	42.1	L: Interface	55	PJME-NYEnoRE				1353.2	1287.0	0.03063	0.00000	1299.4	1299.4		
			C:147834 NIAG 345			345	149000	ROCH	345	345	1	1226				
			Open 147834 NIAG 345			345	149000	ROCH	345	345	1		0.13055	0.23460	412.2	-95.1
10569	-1876.9	107.2	L: Interface	63	PJMW2C				503.9	0.0	0.26848	0.43615	368.9	-449.7		
			C:130763 HILSD230			230	200675	E.TWANDA	230	1	1375					
			Open 130763 HILSD230			230	200675	E.TWANDA	230	1			0.80743	-0.20766	167.2	556.9
10570	-1876.9	107.2	L: Interface	63	PJMW2C				503.9	0.0	0.26848	0.43615	368.9	-449.7		
			C:ETHS/NWES/LLGD				1645									
			Open 130763 HILSD230			230	200675	E.TWANDA	230	1			0.80743	-0.20766	167.2	556.9
10571	-1876.9	107.2	L: Interface	62	C2PJMW				-503.9	-0.0	-0.26848	-0.43615	-368.9	449.7		
			C:SER:ETHS/NWES				1603									
			Open 130763 HILSD230			230	200675	E.TWANDA	230	1			-0.80743	-0.20766	167.2	556.9
10572	-1876.9	107.2	L: Interface	63	PJMW2C				503.9	0.0	0.26848	0.43615	368.9	-449.7		
			C:SER:ETHS/NWES				1603									
			Open 130763 HILSD230			230	200675	E.TWANDA	230	1			0.80743	-0.20766	167.2	556.9
10573	-1876.9	107.2	L: Interface	62	C2PJMW				-503.9	-0.0	-0.26848	-0.43615	-368.9	449.7		
			C:ETHS/LLGD				1646									
			Open 130763 HILSD230			230	200675	E.TWANDA	230	1			-0.80743	-0.20766	167.2	556.9
10574	-1876.9	107.2	L: Interface	62	C2PJMW				-503.9	-0.0	-0.26848	-0.43615	-368.9	449.7		
			C:ETHS/NWES/LLGD				1645									
			Open 130763 HILSD230			230	200675	E.TWANDA	230	1			-0.80743	-0.20766	167.2	556.9

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10575	-1876.9	107.2	L: Interface	63	PJMW2C					503.9	0.0	0.26848		0.43615	368.9	-449.7	
			C:ETHS/LLGD														
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1				0.80743	-0.20766	167.2	556.9
10576	-1876.9	107.2	L: Interface	62	C2PJMW					-503.9	-0.0	-0.26848		-0.43615	-368.9	449.7	
			C:130763 HILSD230			230	200675	E.TWANDA	230	1	1375						
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1				-0.80743	-0.20766	167.2	556.9
10581	-1876.0	107.5	L: Interface	63	PJMW2C					503.7	-0.0	0.26851		0.43615	368.9	-449.3	
			C:SER:C398/NWES														
			Open	409	GROVER	230	200675	E.TWANDA	230	1				0.00850	0.00565	-15.8	-26.4
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1				0.80764	-0.20766	167.2	556.7
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1				0.00124	0.02228	-71.6	-113.4
10582	-1876.0	107.5	L: Interface	62	C2PJMW					-503.7	0.0	-0.26851		-0.43615	-368.9	449.3	
			C:SER:C398/NWES														
			Open	409	GROVER	230	200675	E.TWANDA	230	1				-0.00850	0.00565	-15.8	-26.4
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1				-0.80764	-0.20766	167.2	556.7
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1				-0.00124	0.02228	-71.6	-113.4
10583	-1657.3	157.4	L: Interface	55	PJME-NYEnORE					1482.6	1287.0	0.11801		0.00000	1299.4	1299.4	
			C:BUS:WATERCURE_345														
			Open	130757	WATRC345	345	200769	HOMER CY	345	1				-0.46978	-0.22849	-536.1	-157.4
			Open	130757	WATRC345	345	130768	WATRC230	230	1				-0.21734	-0.04909	267.1	348.4
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				-0.48876	0.00000	21.8	21.8
10584	-1657.3	157.4	L: Interface	56	NYE-PJMEEnORE					-1482.6	-1287.0	-0.11801		-0.00000	-1299.4	-1299.4	
			C:BUS:WATERCURE_345														
			Open	130757	WATRC345	345	200769	HOMER CY	345	1				0.46978	-0.22849	-536.1	-157.4
			Open	130757	WATRC345	345	130768	WATRC230	230	1				0.21734	-0.04909	267.1	348.4
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				0.48876	0.00000	21.8	21.8
10585	-1538.5	184.6	L: Interface	51	G-PJMEast					-121.5	0.0	-0.07900		-0.00000	-0.3	-0.3	
			C:BUS:WATERCURE_345														
			Open	130757	WATRC345	345	200769	HOMER CY	345	1				0.31371	-0.22849	-536.1	-184.6
			Open	130757	WATRC345	345	130768	WATRC230	230	1				0.14918	-0.04909	267.1	342.6
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				0.32556	0.00000	21.8	21.8
10586	-1538.5	184.6	L: Interface	52	PJMEast-G					121.5	-0.0	0.07900		0.00000	0.3	0.3	
			C:BUS:WATERCURE_345														
			Open	130757	WATRC345	345	200769	HOMER CY	345	1				-0.31371	-0.22849	-536.1	-184.6
			Open	130757	WATRC345	345	130768	WATRC230	230	1				-0.14918	-0.04909	267.1	342.6
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				-0.32556	0.00000	21.8	21.8
10587	-1207.0	260.3	L: Interface	62	C2PJMW					-526.4	-0.0	-0.43615		-0.43615	-368.9	157.5	
			C:HQ-NY-765-New														
			Open	147827	MARCY765	765	147828	MASS 765	765	1							
			Open	147828	MASS 765	765	180819	CHA-NY	765	1							
			Open	147827	MARCY765	765	147833	MARCY T1	345	1				-0.03736	-0.00006	624.7	624.8
			Open	147827	MARCY765	765	147833	MARCY T1	345	2				-0.03736	-0.00005	543.6	543.7

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			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	0.00006	10.4	10.3		
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA						
			Open	147837	MASS230A	230	147839	MOSES E	230	1		0.10672	0.00000	18.8	18.8		
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA						
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease bus	180001	BEA-DLX		13.8	generation by			100.0	percent dispatch					
			Set	bus 181319	CHAT G3		120	load to			357.0	MW dispatch					
			Decrease bus	180002	BEA-DL		13.8	generation by			100.0	percent dispatch					
			Set	bus 181419	CHAT G4		120	load to			357.0	MW dispatch					
10588	-1207.0	260.3	L: Interface	63	PJMW2C						526.4	0.0	0.43615	0.43615	368.9	-157.5	
			C:HQ-NY-765-New														1773
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA						
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA						
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		0.03736	-0.00006	624.7	624.8		
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		0.03736	-0.00005	543.6	543.7		
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open	147838	MASS230B	230	147839	MOSES E	230	1		0.00000	0.00006	10.4	10.3		
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA						
			Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.10672	0.00000	18.8	18.8		
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA						
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease bus	180001	BEA-DLX		13.8	generation by			100.0	percent dispatch					
			Set	bus 181319	CHAT G3		120	load to			357.0	MW dispatch					
			Decrease bus	180002	BEA-DL		13.8	generation by			100.0	percent dispatch					
			Set	bus 181419	CHAT G4		120	load to			357.0	MW dispatch					
10589	-1206.9	260.3	L: Interface	63	PJMW2C						526.4	-0.0	0.43615	0.43615	368.9	-157.4	
			C:GEN:9 MI PT2														1558
			Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5	MW dispatch									
10590	-1206.9	260.3	L: Interface	62	C2PJMW						-526.4	0.0	-0.43615	-0.43615	-368.9	157.4	
			C:GEN:9 MI PT2														1558
			Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5	MW dispatch									
10591	-1153.9	272.5	L: Interface	63	PJMW2C						470.4	0.0	0.40763	0.43615	368.9	-134.3	
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392									
			Open	131128	LAPEER	345	136153	LAFAYTTE	345	1		-0.15773	0.18082	-642.9	-851.5		
10592	-1153.9	272.5	L: Interface	62	C2PJMW						-470.4	-0.0	-0.40763	-0.43615	-368.9	134.3	
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392									
			Open	131128	LAPEER	345	136153	LAFAYTTE	345	1		0.15773	0.18082	-642.9	-851.5		
10593	-1137.7	276.2	L: Interface	62	C2PJMW						-460.6	0.0	-0.40486	-0.43615	-368.9	127.2	
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209									

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			Open 130755 OAKDL345	345	131128 LAPEER	345	1			0.16219	0.19293	-565.0	-784.5	
10594	-1137.7	276.2	L: Interface 63 PJMW2C					460.6	-0.0	0.40486		0.43615	368.9	-127.2
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				-0.16219	0.19293	-565.0	-784.5
10595	-1133.9	277.0	*L: Interface 63 PJMW2C					468.3	0.0	0.41294		0.43615	368.9	-125.6
			C:GEN:FITZPATR					1556						
			Open 136155 SCRIBA	345	147830 JA FITZP	345	1				-0.01685	0.08131	-69.4	-161.6
			Open 137200 EDIC	345	147830 JA FITZP	345	1				-0.13915	0.15694	43.4	-134.5
			Remove unit 1 from bus 147797 JAFITZ1G	24.0		886.8	MW	dispatch						
10596	-1133.9	277.0	*L: Interface 62 C2PJM					-468.3	-0.0	-0.41294		-0.43615	-368.9	125.6
			C:GEN:FITZPATR					1556						
			Open 136155 SCRIBA	345	147830 JA FITZP	345	1				0.01685	0.08131	-69.4	-161.6
			Open 137200 EDIC	345	147830 JA FITZP	345	1				0.13915	0.15694	43.4	-134.5
			Remove unit 1 from bus 147797 JAFITZ1G	24.0		886.8	MW	dispatch						
10597	-1125.7	278.9	L: Interface 55 PJME-NYEnORE					1377.3	1287.0	0.08020		0.00000	1299.4	1299.4
			C:LKWANA-OXBW					1648						
			Open 417 OXBOW	230	3070 LACKAWNA	230	1				-0.52473	-0.15284	-148.4	23.6
10598	-1125.7	278.9	L: Interface 56 NYE-PJMEEnORE					-1377.3	-1287.0	-0.08020		-0.00000	-1299.4	-1299.4
			C:LKWANA-OXBW					1648						
			Open 417 OXBOW	230	3070 LACKAWNA	230	1				0.52473	-0.15284	-148.4	23.6
10611	-1050.3	296.1	*L: Interface 56 NYE-PJMEEnORE					-1368.7	-1287.0	-0.07783		-0.00000	-1299.4	-1299.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.28038	-0.27758	-247.3	44.3
10612	-1050.3	296.1	*L: Interface 55 PJME-NYEnORE					1368.7	1287.0	0.07783		0.00000	1299.4	1299.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.28038	-0.27758	-247.3	44.3
10629	-976.1	313.1	L: Interface 51 G-PJMEast					-54.6	0.0	-0.05595		-0.00000	-0.3	-0.3
			C:LKWANA-OXBW					1648						
			Open 417 OXBOW	230	3070 LACKAWNA	230	1				0.36605	-0.15284	-148.4	0.8
10630	-976.1	313.1	L: Interface 52 PJMEast-G					54.6	-0.0	0.05595		0.00000	0.3	0.3
			C:LKWANA-OXBW					1648						
			Open 417 OXBOW	230	3070 LACKAWNA	230	1				-0.36605	-0.15284	-148.4	0.8
10691	-896.3	331.3	L: Interface 52 PJMEast-G					47.3	-0.0	0.05282		0.00000	0.3	0.3
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.19027	-0.27758	-247.3	1.5
10692	-896.3	331.3	L: Interface 51 G-PJMEast					-47.3	0.0	-0.05282		-0.00000	-0.3	-0.3
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.19027	-0.27758	-247.3	1.5
14107	-424.4	439.1	L: Interface 51 G-PJMEast					-13.3	0.0	-0.03136		-0.00000	-0.3	-0.3
			C:135250 DUNKIRK	230	135251 S RIPLEY	230	1	422						
			Open 135250 DUNKIRK	230	135251 S RIPLEY	230	1				0.17668	-0.17752	-73.7	1.6
14108	-424.4	439.1	L: Interface 52 PJMEast-G					13.3	-0.0	0.03136		0.00000	0.3	0.3

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			C:135250 DUNKIRK	230	135251 S RIPLEY	230	1	422											
			Open 135250 DUNKIRK	230	135251 S RIPLEY	230	1												
14119	-141.5	503.8	L: Interface	52	PJMEast-G				4.4	0.0	0.03139								
			C:SER:ESEE/WRFL					1607											
			Open 270 ERIE SO.	230	531 ERIE SE	230	1												
			Open 531 ERIE SE	230	200654 ERIE E	230	1												
14120	-141.5	503.8	L: Interface	51	G-PJMEast				-4.4	-0.0	-0.03139								
			C:SER:ESEE/WRFL					1607											
			Open 270 ERIE SO.	230	531 ERIE SE	230	1												
			Open 531 ERIE SE	230	200654 ERIE E	230	1												
14121	5.0	537.2	L: Interface	51	G-PJMEast				0.2	0.0	-0.03136								
			C:SER:EESR/WRFL					1606											
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1												
14122	5.0	537.2	L: Interface	52	PJMEast-G				-0.2	-0.0	0.03136								
			C:135251 S RIPLEY	230	200654 ERIE E	230	1	1376											
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1												
14123	5.0	537.2	*L: Interface	51	G-PJMEast				0.2	0.0	-0.03136								
			C:135251 S RIPLEY	230	200654 ERIE E	230	1	1376											
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1												
14126	5.0	537.2	*L: Interface	52	PJMEast-G				-0.2	-0.0	0.03136								
			C:SER:EESR/WF/NWES					1608											
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1												
14135	207.0	583.4	L: Interface	50	PJMCentral-C				-53.0	-0.0	0.25630								
			C:SER:HCWC/NWES					1604											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1												
14136	207.0	583.4	L: Interface	49	C-PJMCentral				53.0	0.0	-0.25630								
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1												
14137	207.0	583.4	L: Interface	49	C-PJMCentral				53.0	0.0	-0.25630								
			C:SER:HCWC/NWES					1604											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1												
14138	207.0	583.4	L: Interface	50	PJMCentral-C				-53.0	-0.0	0.25630								
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1												
14139	207.0	583.4	L: Interface	50	PJMCentral-C				-53.0	-0.0	0.25630								
			C:SER:HC-WC_30&W-F_171					1598											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1												
14140	207.0	583.4	L: Interface	49	C-PJMCentral				53.0	0.0	-0.25630								
			C:SER:HC-WC_30&W-F_171					1598											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1												
14143	226.5	587.9	L: Interface	50	PJMCentral-C				-50.1	0.0	0.22106								
			C:BUS:WATERCURE_345					1629											

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			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.10816	-0.22849	-536.1	-587.9	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.23049	-0.04909	267.1	255.9	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.11241	0.00000	21.8	21.8	
14144	226.5	587.9	L: Interface 49 C-PJMCentral					50.1	-0.0	-0.22106	-0.20766	167.2	120.1
			C:BUS:WATERCURE_345				1629						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.10816	-0.22849	-536.1	-587.9	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.23049	-0.04909	267.1	255.9	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.11241	0.00000	21.8	21.8	
14145	446.3	638.1	L: Interface 49 C-PJMCentral					92.7	-0.0	-0.20766	-0.20766	167.2	74.5
			C:GEN:9 MI PT2				1558						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
14146	446.3	638.1	L: Interface 50 PJMCentral-C					-92.7	0.0	0.20766	0.20766	-167.2	-74.5
			C:GEN:9 MI PT2				1558						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
14147	473.6	644.3	L: Interface 49 C-PJMCentral					98.3	-0.0	-0.20766	-0.20766	167.2	68.8
			C:HQ-NY-765-New				1773						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.01207	-0.00006	624.7	624.7	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.01207	-0.00005	543.6	543.6	
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	0.00006	10.4	10.4	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.04990	0.00000	18.8	18.8	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
14148	473.6	644.3	L: Interface 50 PJMCentral-C					-98.3	0.0	0.20766	0.20766	-167.2	-68.8
			C:HQ-NY-765-New				1773						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.01207	-0.00006	624.7	624.7	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.01207	-0.00005	543.6	543.6	
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	0.00006	10.4	10.4	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1		-0.04990	0.00000	18.8	18.8	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					

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			Open	158	MS765SW2	0.0	147828	MASS	765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA						
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch						
14149	508.9	652.4	L: Interface	50	PJMCentral-C					-99.3	0.0	0.19519	0.20766	-167.2	-61.5			
			C:130757	WATRC345	345	130768	WATRC230	230	1	213								
			Open	130757	WATRC345	345	130768	WATRC230	230	1			0.25396	-0.04909	267.1	242.1		
14150	508.9	652.4	L: Interface	49	C-PJMCentral					99.3	-0.0	-0.19519	-0.20766	167.2	61.5			
			C:130757	WATRC345	345	130768	WATRC230	230	1	213								
			Open	130757	WATRC345	345	130768	WATRC230	230	1			-0.25396	-0.04909	267.1	242.1		
14151	534.2	658.2	L: Interface	50	PJMCentral-C					-110.9	0.0	0.20766	0.20766	-167.2	-56.2			
			C:126250	RAMAPO 5	500	126296	RAM PAR	345	1	78								
			Open	126250	RAMAPO 5	500	126296	RAM PAR	345	1			0.05618	0.00000	1000.9	1000.9		
14152	534.2	658.2	L: Interface	49	C-PJMCentral					110.9	-0.0	-0.20766	-0.20766	167.2	56.2			
			C:126250	RAMAPO 5	500	126296	RAM PAR	345	1	78								
			Open	126250	RAMAPO 5	500	126296	RAM PAR	345	1			-0.05618	0.00000	1000.9	1000.9		
14153	534.2	658.2	L: Interface	50	PJMCentral-C					-110.9	-0.0	0.20766	0.20766	-167.2	-56.2			
			C:	91	JEFFERSN	500	126250	RAMAPO 5	500	1	1351							
			Open	91	JEFFERSN	500	126250	RAMAPO 5	500	1			0.05618	0.00000	1000.9	1000.9		
14154	534.2	658.2	L: Interface	49	C-PJMCentral					110.9	0.0	-0.20766	-0.20766	167.2	56.2			
			C:	91	JEFFERSN	500	126250	RAMAPO 5	500	1	1351							
			Open	91	JEFFERSN	500	126250	RAMAPO 5	500	1			-0.05618	0.00000	1000.9	1000.9		
14155	558.0	663.6	*L: Interface	50	PJMCentral-C					-92.7	-0.0	0.16607	0.20766	-167.2	-51.3			
			C:BUS:WATERCURE_230															
			Open	130768	WATRC230	230	130772	SHRED230	230	1			-0.32330	0.07525	59.5	101.5		
			Open	130757	WATRC345	345	130768	WATRC230	230	1			0.35172	-0.04909	267.1	239.7		
			Open	130763	HILSD230	230	130768	WATRC230	230	1			-0.40866	0.00000	0.5	0.5		
14156	558.0	663.6	*L: Interface	49	C-PJMCentral					92.7	0.0	-0.16607	-0.20766	167.2	51.3			
			C:BUS:WATERCURE_230															
			Open	130768	WATRC230	230	130772	SHRED230	230	1			0.32330	0.07525	59.5	101.5		
			Open	130757	WATRC345	345	130768	WATRC230	230	1			-0.35172	-0.04909	267.1	239.7		
			Open	130763	HILSD230	230	130768	WATRC230	230	1			0.40866	0.00000	0.5	0.5		
17649	926.2	747.7	L: 130757	WATRC345	345	130768	WATRC230	230	1	452.6	600.0	0.15917	-0.04909	267.1	221.6			
			C:130755	OAKDL345	345	130757	WATRC345	345	1	206								
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			-0.75026	-0.27758	-247.3	-504.4		
17664	956.3	754.6	L: Interface	19	PJM-NY					2394.2	3114.0	0.75270	0.75270	1500.9	2220.7			
			C:GEN:SEAB&OMS															
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1		
			Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch								
17665	956.3	754.6	L: Interface	35	NY-PJM					-2394.2	-3114.0	-0.75270	-0.75270	-1500.9	-2220.7			

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			C:GEN:SEAB&OMS				1572									
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		0.00004	0.00000	-0.1	-0.1		
			Remove unit 1 from bus 102869			SBRK	G1	25.0	1318.0	MW	dispatch					
17666	956.3	754.6	L: Interface	19	PJM-NY						2394.2	3114.0	0.75270	0.75270	1500.9	2220.7
			C:GEN:SEABROOK													
			Remove unit 1 from bus 102869			SBRK	G1	25.0	1318.0	MW	dispatch					
17667	956.3	754.6	L: Interface	35	NY-PJM						-2394.2	-3114.0	-0.75270	-0.75270	-1500.9	-2220.7
			C:GEN:SEABROOK													
			Remove unit 1 from bus 102869			SBRK	G1	25.0	1318.0	MW	dispatch					
17668	958.0	755.0	L: 130757 WATRC345	345	200769	HOMER	CY	345	1		-536.1	-755.0	-0.22849			
			Base Case													
17669	958.0	755.0	L: Interface	47	C-PJMWest						-536.1	-755.0	-0.22849			
			Base Case													
17670	958.0	755.0	L: Interface	48	PJMWest-C						536.1	755.0	0.22849			
			Base Case													
17671	958.0	755.0	L: Interface	60	C2PJMC						-536.1	-755.0	-0.22849			
			Base Case													
17672	958.0	755.0	L: Interface	61	PJMC2C						536.1	755.0	0.22849			
			Base Case													
17673	961.7	755.8	L: Interface	19	PJM-NY						2390.1	3114.0	0.75270	0.75270	1500.9	2224.8
			C:SIN:250													
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1		
			Remove unit 3 from bus 103563			MILL#3		24.0	1276.0	MW	dispatch					
17674	961.7	755.8	L: Interface	35	NY-PJM						-2390.1	-3114.0	-0.75270	-0.75270	-1500.9	-2224.8
			C:SIN:250													
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		0.00004	0.00000	-0.1	-0.1		
			Remove unit 3 from bus 103563			MILL#3		24.0	1276.0	MW	dispatch					
17675	976.9	759.3	L: Interface	35	NY-PJM						-2378.7	-3114.0	-0.75270	-0.75270	-1500.9	-2236.2
			C:GEN:MILLST 3													
			Remove unit 3 from bus 103563			MILL#3		24.0	1276.0	MW	dispatch					
17676	976.9	759.3	L: Interface	19	PJM-NY						2378.7	3114.0	0.75270	0.75270	1500.9	2236.2
			C:GEN:MLS3&OMS													
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1		
			Remove unit 3 from bus 103563			MILL#3		24.0	1276.0	MW	dispatch					
17677	976.9	759.3	L: Interface	35	NY-PJM						-2378.7	-3114.0	-0.75270	-0.75270	-1500.9	-2236.2
			C:GEN:MLS3&OMS													
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2		0.00004	0.00000	-0.1	-0.1		
			Remove unit 3 from bus 103563			MILL#3		24.0	1276.0	MW	dispatch					
17678	976.9	759.3	L: Interface	19	PJM-NY						2378.7	3114.0	0.75270	0.75270	1500.9	2236.2
			C:GEN:MILLST 3													
			Remove unit 3 from bus 103563			MILL#3		24.0	1276.0	MW	dispatch					
17683	1039.9	773.7	L: Interface	35	NY-PJM						-2331.3	-3114.0	-0.75268	-0.75270	-1500.9	-2283.6

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			C:HQ-NY-765-New			1773							
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA				
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA				
			Open 147827 MARCY765	765	147833	MARCY T1	345	1		-0.14598	-0.00006	624.7	624.6
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		-0.14598	-0.00005	543.6	543.5
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA				
			Open 147838 MASS230B	230	147839	MOSES E	230	1		0.00000	0.00006	10.4	10.4
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA				
			Open 147837 MASS230A	230	147839	MOSES E	230	1		0.60549	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA				
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA				
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA				
			Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch				
			Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch				
			Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch				
			Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch				
17684	1039.9	773.7	L: Interface 19 PJM-NY				2331.3	3114.0	0.75268		0.75270	1500.9	2283.6
			C:HQ-NY-765-New			1773							
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA				
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA				
			Open 147827 MARCY765	765	147833	MARCY T1	345	1		0.14598	-0.00006	624.7	624.6
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		0.14598	-0.00005	543.6	543.5
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA				
			Open 147838 MASS230B	230	147839	MOSES E	230	1		-0.00000	0.00006	10.4	10.4
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA				
			Open 147837 MASS230A	230	147839	MOSES E	230	1		-0.60549	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA				
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA				
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA				
			Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch				
			Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch				
			Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch				
			Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch				
17687	1122.4	792.6	L: Interface 35 NY-PJM				-2269.1	-3114.0	-0.75270		-0.75270	-1500.9	-2345.8
			C:GEN:IND PT 3			1552							
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW	dispatch						
17688	1122.4	792.6	L: Interface 19 PJM-NY				2269.1	3114.0	0.75270		0.75270	1500.9	2345.8
			C:GEN:IND PT 3			1552							
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW	dispatch						
17689	1135.7	795.6	L: Interface 19 PJM-NY				2259.2	3114.0	0.75270		0.75270	1500.9	2355.7
			C:GEN:IND PT 2			1551							
			Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7	MW	dispatch						

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			Open 160064 LAMB T78	220 B\$1020 LAMBTNG4	1.00 T7		0.72770	0.00000	0.3	0.3
			Set bus 160705 LAMBTNG4	24.0 generation to		0.0 MW dispatch				
17720	1660.0	915.4	L: Interface 26 ONTARIO-MICH			404.7 0.0 -0.24382		-0.24730	742.5	332.0
			C:LAMBT8/LAMBGEN		1644					
			Open 160050 LAMB L4D	345 B\$1021 LAMBTNG4	1.00 T8		0.06524	0.05340	-233.5	-144.8
			Open 160064 LAMB T78	220 B\$1021 LAMBTNG4	1.00 T8		0.72785	0.00000	0.4	0.4
			Set bus 160705 LAMBTNG4	24.0 generation to		0.0 MW dispatch				
17739	1757.6	937.7	L: 130801 PAVMT115	115 130857 STOLE115	115 1	-102.6 -179.0 -0.04344		-0.03531	-74.1	-136.2
			C:135398 SW345	345 135564 SW115	115 1 517					
			Open 135398 SW345	345 135564 SW115	115 1		-0.18217	0.04461	156.6	235.0
17754	1804.3	948.4	L: Interface 54 NYE-PJME			-641.4 -787.0 -0.08069		0.00000	-452.1	-452.1
			C:SER:HCWC/NWES		1604					
			Open 130757 WATRC345	345 200769 HOMER CY	345 1		0.35313	-0.22849	-536.1	-948.4
17755	1804.3	948.4	L: Interface 54 NYE-PJME			-641.4 -787.0 -0.08069		0.00000	-452.1	-452.1
			C:SER:HC-WC_30&W-F_171		1598					
			Open 130757 WATRC345	345 200769 HOMER CY	345 1		0.35313	-0.22849	-536.1	-948.4
17756	1804.3	948.4	L: Interface 53 PJME-NYE			641.4 787.0 0.08069		-0.00000	452.1	452.1
			C:SER:HC-WC_30&W-F_171		1598					
			Open 130757 WATRC345	345 200769 HOMER CY	345 1		-0.35313	-0.22849	-536.1	-948.4
17757	1804.3	948.4	L: Interface 53 PJME-NYE			641.4 787.0 0.08069		-0.00000	452.1	452.1
			C:SER:HCWC/NWES		1604					
			Open 130757 WATRC345	345 200769 HOMER CY	345 1		-0.35313	-0.22849	-536.1	-948.4
17758	1804.3	948.4	L: Interface 53 PJME-NYE			641.4 787.0 0.08069		-0.00000	452.1	452.1
			C:130757 WATRC345	345 200769 HOMER CY	345 1 1374					
			Open 130757 WATRC345	345 200769 HOMER CY	345 1		-0.35313	-0.22849	-536.1	-948.4
17759	1804.3	948.4	L: Interface 54 NYE-PJME			-641.4 -787.0 -0.08069		0.00000	-452.1	-452.1
			C:130757 WATRC345	345 200769 HOMER CY	345 1 1374					
			Open 130757 WATRC345	345 200769 HOMER CY	345 1		0.35313	-0.22849	-536.1	-948.4
17760	1814.9	950.8	L: 135859 LAPPINS1	115 135866 NLEROYTA	115 1	97.6 173.0 0.04154		0.02978	77.0	131.0
			C:147834 NIAG 345	345 149000 ROCH 345	345 1 1226					
			Open 147834 NIAG 345	345 149000 ROCH 345	345 1		0.05013	0.23460	412.2	838.0
17761	1827.3	953.6	L: Interface 26 ONTARIO-MICH			445.5 0.0 -0.24378		-0.24730	742.5	290.6
			C:L4D+G3		1641					
			Open 160050 LAMB L4D	345 B\$1020 LAMBTNG4	1.00 T7		0.06546	0.05381	-235.4	-137.0
			Open 160064 LAMB T78	220 B\$1020 LAMBTNG4	1.00 T7		0.72770	0.00000	0.3	0.3
			Open 160069 LAMBTNG3	220 160704 LAMBTNG3	24.0 T3		0.65877	0.00000	62.1	62.1
			Remove unit 1 from bus 160704 LAMBTNG3	24.0 490.0 MW	dispatch					
17762	1827.8	953.7	L: Interface 26 ONTARIO-MICH			445.7 -0.0 -0.24382		-0.24730	742.5	290.5
			C:L51D+G3		1642					
			Open 160050 LAMB L4D	345 B\$1021 LAMBTNG4	1.00 T8		0.06524	0.05340	-233.5	-135.9
			Open 160064 LAMB T78	220 B\$1021 LAMBTNG4	1.00 T8		0.72785	0.00000	0.4	0.4
			Open 160069 LAMBTNG3	220 160704 LAMBTNG3	24.0 T3		0.65887	0.00000	62.1	62.1

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Remove unit 1 from bus 160704 LAMBTNG3 24.0 490.0 MW dispatch													
17763	1835.5	955.5	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-96.6	-179.0	-0.04489	-0.03531	-74.1	-138.9
C:SER:HCWC/NWES 1604													
Open 130757 WATRC345 345 200769 HOMER CY 345 1 0.04193 -0.22849 -536.1 -955.5													
17764	1835.5	955.5	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-96.6	-179.0	-0.04489	-0.03531	-74.1	-138.9
C:SER:HC-WC_30&W-F_171 1598													
Open 130757 WATRC345 345 200769 HOMER CY 345 1 0.04193 -0.22849 -536.1 -955.5													
17765	1835.5	955.5	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-96.6	-179.0	-0.04489	-0.03531	-74.1	-138.9
C:130757 WATRC345 345 200769 HOMER CY 345 1 1374													
Open 130757 WATRC345 345 200769 HOMER CY 345 1 0.04193 -0.22849 -536.1 -955.5													
17766	1838.4	956.2	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-96.3	-179.0	-0.04500	-0.03531	-74.1	-139.0
C:BUS:WATERCURE_345 1629													
Open 130757 WATRC345 345 200769 HOMER CY 345 1 0.04224 -0.22849 -536.1 -956.2													
Open 130757 WATRC345 345 130768 WATRC230 230 1 0.00069 -0.04909 267.1 176.8													
Open 130755 OAKDL345 345 130757 WATRC345 345 1 0.01417 0.00000 21.8 21.8													
17767	1876.9	965.0	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-85.4	-179.0	-0.04985	-0.03531	-62.3	-128.6
C:130857 STOLE115 115 130858 GIRD115 115 1 367													
Open 130857 STOLE115 115 130858 GIRD115 115 1 -0.37012 0.03927 62.5 136.2													
17770	1904.5	971.3	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	91.5	159.0	0.03543	0.02540	73.9	122.3
C:147834 NIAG 345 345 149000 ROCH 345 345 1 1226													
Open 147834 NIAG 345 345 149000 ROCH 345 345 1 0.04275 0.23460 412.2 859.0													
17771	1907.2	971.9	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-85.9	-179.0	-0.04881	-0.03531	-74.1	-141.5
C:130806 GARDV115 115 130858 GIRD115 115 1 295													
Open 130806 GARDV115 115 130858 GIRD115 115 1 0.36242 -0.03722 -32.6 -103.6													
17776	1912.3	973.0	L: 130836 N.WAV115	115	131018 LOUNTS115	115	1	58.3	173.0	0.06000	0.02999	31.5	88.9
C:130755 OAKDL345 345 130757 WATRC345 345 1 206													
Open 130755 OAKDL345 345 130757 WATRC345 345 1 -0.10814 -0.27758 -247.3 -778.1													
17781	1973.9	987.1	L: 130814 HILSD115	115	131162 CHEMU115	115	1	60.6	179.0	0.06000	0.02999	33.8	93.0
C:130755 OAKDL345 345 130757 WATRC345 345 1 206													
Open 130755 OAKDL345 345 130757 WATRC345 345 1 -0.10814 -0.27758 -247.3 -795.2													
17788	1993.6	991.6	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	88.4	159.0	0.03543	0.02540	70.8	121.4
C:147834 NIAG 345 345 149000 ROCH 345 345 1 1226													
Open 147834 NIAG 345 345 149000 ROCH 345 345 1 0.04275 0.23460 412.2 879.9													
17795	2012.3	995.9	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	-58.3	-179.0	-0.06000	-0.02999	-31.5	-91.9
C:130755 OAKDL345 345 130757 WATRC345 345 1 206													
Open 130755 OAKDL345 345 130757 WATRC345 345 1 0.10814 -0.27758 -247.3 -805.9													
17800	2028.2	999.5	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-90.9	-179.0	-0.04345	-0.03531	-62.3	-133.9
C:135398 SW345 345 135564 SW115 115 1 517													
Open 135398 SW345 345 135564 SW115 115 1 -0.18233 0.04461 156.6 247.1													
17807	2045.9	1003.6	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	98.5	173.0	0.03643	0.02978	77.0	137.9
C:130754 KINTI345 345 149000 ROCH 345 345 1 205													
Open 130754 KINTI345 345 149000 ROCH 345 345 1 0.04156 0.16001 517.8 845.1													

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17810	2047.0	1003.8	L: Interface	26	ONTARIO-MICH		506.3	-0.0	-0.24732		-0.24730	742.5	236.3
			C:HQ-NY-765-New			1773							
			Open	147827	MARCY765	765 147828 MASS 765	765 1	NA					
			Open	147828	MASS 765	765 180819 CHA-NY	765 1	NA					
			Open	147827	MARCY765	765 147833 MARCY T1	345 1			0.13561	-0.00006	624.7	624.6
			Open	147827	MARCY765	765 147833 MARCY T1	345 2			0.13561	-0.00005	543.6	543.5
			Open	156	MCY765SW	0.0 147827 MARCY765	765 1	NA					
			Open	147838	MASS230B	230 147839 MOSES E	230 1			0.00000	0.00006	10.4	10.5
			Open	147828	MASS 765	765 147838 MASS230B	230 1	NA					
			Open	147837	MASS230A	230 147839 MOSES E	230 1			0.36212	0.00000	18.8	18.8
			Open	147828	MASS 765	765 147837 MASS230A	230 1	NA					
			Open	158	MS765SW2	0.0 147828 MASS 765	765 1	NA					
			Open	157	MS765SW1	0.0 147828 MASS 765	765 1	NA					
			Decrease bus	180001	BEA-DLX	13.8 generation by	100.0	percent dispatch					
			Set bus	181319	CHAT G3	120 load to	357.0	MW dispatch					
			Decrease bus	180002	BEA-DL	13.8 generation by	100.0	percent dispatch					
			Set bus	181419	CHAT G4	120 load to	357.0	MW dispatch					
17819	2057.9	1006.3	L: 130787	CODNT115	115 130830 MONTR115	115 1	-4.9	-144.0	-0.06759		-0.04447	15.7	-75.8
			C:130755	OAKDL345	345 130757 WATRC345	345 1 206							
			Open	130755	OAKDL345	345 130757 WATRC345	345 1			0.08328	-0.27758	-247.3	-818.5
17838	2074.7	1010.2	L: Interface	26	ONTARIO-MICH		513.1	0.0	-0.24730		-0.24730	742.5	229.5
			C:GEN:9 MI PT2			1558							
			Remove unit 2	from bus	136700 9M PT 2G	25.0 1197.5 MW	dispatch						
17847	2077.3	1010.7	L: 135250	DUNKIRK	230 135251 S RIPLEY	230 1	-184.7	-637.0	-0.21772		-0.17752	-73.7	-442.5
			C:SER:HC-SR_37&W-F_171			1597							
			Open	135398	SW345	345 200769 HOMER CY	345 1			0.28920	-0.13903	-383.9	-672.7
17848	2077.3	1010.7	L: 135250	DUNKIRK	230 135251 S RIPLEY	230 1	-184.7	-637.0	-0.21772		-0.17752	-73.7	-442.5
			C:135398	SW345	345 200769 HOMER CY	345 1 1377							
			Open	135398	SW345	345 200769 HOMER CY	345 1			0.28920	-0.13903	-383.9	-672.7
17879	2087.6	1013.1	L: 130768	WATRC230	230 130772 SHRED230	230 1	126.3	440.0	0.15025		0.07525	59.5	216.6
			C:130755	OAKDL345	345 130757 WATRC345	345 1 206							
			Open	130755	OAKDL345	345 130757 WATRC345	345 1			-0.27018	-0.27758	-247.3	-826.8
17892	2097.8	1015.4	L: 130799	ERIE 115	115 130801 PAVMT115	115 1	-84.8	-179.0	-0.04490		-0.03531	-62.3	-136.4
			C:130757	WATRC345	345 200769 HOMER CY	345 1 1374							
			Open	130757	WATRC345	345 200769 HOMER CY	345 1			0.04194	-0.22849	-536.1	-1015.4
17893	2097.8	1015.4	L: 130799	ERIE 115	115 130801 PAVMT115	115 1	-84.8	-179.0	-0.04490		-0.03531	-62.3	-136.4
			C:SER:HC-WC_30&W-F_171			1598							
			Open	130757	WATRC345	345 200769 HOMER CY	345 1			0.04194	-0.22849	-536.1	-1015.4
17894	2097.8	1015.4	L: 130799	ERIE 115	115 130801 PAVMT115	115 1	-84.8	-179.0	-0.04490		-0.03531	-62.3	-136.4
			C:SER:HCWC/NWES			1604							
			Open	130757	WATRC345	345 200769 HOMER CY	345 1			0.04194	-0.22849	-536.1	-1015.4
17903	2100.2	1016.0	L: 130799	ERIE 115	115 130801 PAVMT115	115 1	-84.5	-179.0	-0.04500		-0.03531	-62.3	-136.5

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			C:BUS:WATERCURE_345						1629											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04225	-0.22849	-536.1	-1016.0							
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.00068	-0.04909	267.1	163.9							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.01417	0.00000	21.8	21.8							
17976	2122.1	1021.0	L: Interface 26 ONTARIO-MICH					524.8	-0.0	-0.24730		-0.24730	742.5	217.7						
			C:GEN:NANTCK 8												1562					
			Remove unit 1 from bus 158743 NANTICG8	22.0	490.0 MW	dispatch														
18001	2124.4	1021.5	L: Interface 26 ONTARIO-MICH					525.4	-0.0	-0.24730		-0.24730	742.5	217.2						
			C:GEN:PICKER 6												1563					
			Remove unit 1 from bus 156683 PIC B G5	24.0	510.9 MW	dispatch														
18050	2130.9	1023.0	L: 130765 OAKDL230	230	130772 SHRED230	230	1	-119.8	-440.0	-0.15025		-0.07525	-53.0	-213.4						
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206												
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.27018	-0.27758	-247.3	-838.8						
18057	2132.4	1023.3	L: 130765 OAKDL230	230	130838 OAKDL115	115	1	119.6	440.0	0.15025		0.07525	52.8	213.3						
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206												
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.27018	-0.27758	-247.3	-839.2						
20406	2143.5	1025.9	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-74.2	-179.0	-0.04889		-0.03531	-62.3	-138.0						
			C:130806 GARDV115	115	130858 GIRD115	115	1	295												
			Open 130806 GARDV115	115	130858 GIRD115	115	1				0.36474	-0.03722	-32.6	-112.3						
20837	2148.0	1026.9	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	92.3	159.0	0.03107		0.02540	73.9	128.5						
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205												
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03545	0.16001	517.8	861.5						
20922	2151.2	1027.6	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-82.1	-173.0	-0.04224		-0.03028	-61.1	-126.3						
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226												
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.05097	0.23460	412.2	916.8						
21191	2189.2	1036.3	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	-11.6	-143.0	-0.06000		-0.02999	15.1	-50.5						
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206												
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.10814	-0.27758	-247.3	-855.0						
21198	2196.2	1037.9	L: 135452 LOCKPORT	115	135876 TELRDTP1	115	1	102.6	180.0	0.03525		0.02527	85.1	140.6						
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226												
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04254	0.23460	412.2	927.4						
21227	2241.5	1048.3	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-61.1	-129.0	-0.03028										
			Base Case																	
21228	2248.5	1049.9	*L: Interface 26 ONTARIO-MICH					556.1	-0.0	-0.24730		-0.24730	742.5	186.5						
			C:GEN:SEABROOK												1570					
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch														
21230	2249.7	1050.1	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	89.1	159.0	0.03107		0.02540	70.8	127.9						
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205												
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03545	0.16001	517.8	877.7						
21231	2262.7	1053.1	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	69.6	153.0	0.03686		0.02643	51.3	111.1						
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226												
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04448	0.23460	412.2	943.0						

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21233	2300.0	1061.6	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-73.7	-482.0	-0.17752			
			Base Case										
21234	2310.0	1063.9	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-87.6	-179.0	-0.03958	-0.03531	-74.1	-155.7
			C:130806 GARDV115	115	135450 GRDNV11	115	1 297						
			Open 130806 GARDV115	115	135450 GRDNV11	115	1				-0.12147	0.03508	110.8 191.8
21239	2321.9	1066.6	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	96.8	180.0	0.03584	0.02569	79.0	138.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04325	0.23460	412.2 956.9
21258	2357.9	1074.9	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-85.2	-179.0	-0.03979	-0.03531	-74.1	-157.4
			C:130857 STOLE115	115	131466 DAVIS115	115	1 368						
			Open 130857 STOLE115	115	131466 DAVIS115	115	1				-0.28661	0.01561	38.6 75.4
21275	2424.9	1090.2	L: 130763 HILSD230	230	131193 HILSD M3	34.5	1	130.0	336.0	0.08494	0.04926	98.3	217.7
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.12854	-0.27758	-247.3 -920.4
21276	2426.8	1090.6	L: 130814 HILSD115	115	131193 HILSD M3	34.5	1	-129.9	-336.0	-0.08494	-0.04926	-98.1	-217.6
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.12854	-0.27758	-247.3 -920.9
21277	2427.3	1090.7	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-108.5	-637.0	-0.21772	-0.17752	2.5	-428.4
			C:SER:HC-SR_37&W-F_171				1597						
			Open 135398 SW345	345	200769 HOMER CY	345	1				0.28920	-0.13903	-383.9 -721.4
21278	2427.3	1090.7	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	-108.5	-637.0	-0.21772	-0.17752	2.5	-428.4
			C:135398 SW345	345	200769 HOMER CY	345	1 1377						
			Open 135398 SW345	345	200769 HOMER CY	345	1				0.28920	-0.13903	-383.9 -721.4
21279	2429.3	1091.2	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-83.0	-173.0	-0.03704	-0.03028	-61.1	-134.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.04226	0.16001	517.8 906.5
21282	2445.1	1094.8	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-247.3	-926.0	-0.27758			
			Base Case										
21283	2446.5	1095.1	L: Interface 62 C2PJM					-368.9	-1436.0	-0.43615			
			Base Case										
21284	2446.5	1095.1	L: Interface 63 PJMW2C					368.9	1436.0	0.43615			
			Base Case										
21293	2480.7	1102.9	L: 135452 LOCKPORT	115	135876 TELRDTP1	115	1	103.3	180.0	0.03091	0.02527	85.1	147.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03527	0.16001	517.8 914.7
21294	2511.9	1110.0	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-454.4	-1076.0	-0.24746	-0.27758	-247.3	-944.5
			C:BUS:WATERCURE_230				1630						
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.09231	0.07525	59.5 248.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.75514	-0.04909	267.1 143.7
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.06349	0.00000	0.5 0.5
21295	2531.1	1114.4	*L: 130801 PAVMT115	115	130857 STOLE115	115	1	-78.7	-179.0	-0.03964	-0.03531	-74.1	-163.5
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL				1647						

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			Open	505	SHELOCTA	230	521	KEYSTONE	230	1				-0.03204	0.10995	55.8	334.1
			Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1				-0.02746	0.02911	100.7	174.4
21296	2532.8	1114.8	L:	130824	LAPER115	115	136247	TULLER H	115	1	67.9	145.0	0.03043		0.02325	37.9	96.8
			C:	130753	FRASR345	345	130755	OAKDL345	345	1	200						
			Open	130753	FRASR345	345	130755	OAKDL345	345	1				-0.05148	-0.13948	-583.4	-936.7
21300	2546.5	1118.0	L:	130755	OAKDL345	345	130757	WATRC345	345	1	-276.2	-1076.0	-0.31409		-0.27758	-247.3	-954.2
			C:	130768	WATRC230	230	130772	SHRED230	230	1	227						
			Open	130768	WATRC230	230	130772	SHRED230	230	1				-0.48514	0.07525	59.5	251.1
21303	2551.2	1119.0	L:	130755	OAKDL345	345	130757	WATRC345	345	1	-274.7	-1076.0	-0.31409		-0.27758	-247.3	-955.5
			C:	SER:OAKDALE	WATRC230						1591						
			Open	130768	WATRC230	230	130772	SHRED230	230	1				-0.48514	0.07525	59.5	251.5
			Open	130765	OAKDL230	230	130772	SHRED230	230	1	NA						
			Open	130765	OAKDL230	230	130838	OAKDL115	115	1				0.21812	0.00000	6.7	6.7
21304	2556.5	1120.2	L:	135850	SOUR-114	115	135861	MORTIMER	115	1	70.4	153.0	0.03233		0.02643	51.3	118.8
			C:	130754	KINTI345	345	149000	ROCH	345	1	205						
			Open	130754	KINTI345	345	149000	ROCH	345	1				0.03688	0.16001	517.8	926.8
21305	2556.5	1120.3	L:	130755	OAKDL345	345	130757	WATRC345	345	1	-273.0	-1076.0	-0.31409		-0.27758	-247.3	-956.9
			C:	130765	OAKDL230	230	130772	SHRED230	230	1	222						
			Open	130765	OAKDL230	230	130772	SHRED230	230	1				0.48514	-0.07525	-53.0	-245.4
21306	2556.9	1120.3	L:	130755	OAKDL345	345	130757	WATRC345	345	1	-272.9	-1076.0	-0.31409		-0.27758	-247.3	-957.0
			C:	130765	OAKDL230	230	130838	OAKDL115	115	1	223						
			Open	130765	OAKDL230	230	130838	OAKDL115	115	1				-0.48514	0.07525	52.8	245.2
21308	2559.5	1120.9	L:	131018	LOUNS115	115	131850	CNYOG115	115	1	37.0	143.0	0.04143		0.02999	27.9	104.6
			C:	130768	WATRC230	230	130772	SHRED230	230	1	227						
			Open	130768	WATRC230	230	130772	SHRED230	230	1				0.15213	0.07525	59.5	252.1
21310	2567.9	1122.8	L:	130794	DELHI115	115	130804	DEL T115	115	1	73.4	164.0	0.03527		0.01833	2.6	49.7
			C:	130753	FRASR345	345	130755	OAKDL345	345	1	200						
			Open	130753	FRASR345	345	130755	OAKDL345	345	1				-0.12143	-0.13948	-583.4	-941.6
21313	2574.9	1124.5	L:	131018	LOUNS115	115	131850	CNYOG115	115	1	36.3	143.0	0.04143		0.02999	27.9	105.1
			C:	SER:OAKDALE	WATRC230						1591						
			Open	130768	WATRC230	230	130772	SHRED230	230	1				0.15213	0.07525	59.5	253.3
			Open	130765	OAKDL230	230	130772	SHRED230	230	1	NA						
			Open	130765	OAKDL230	230	130838	OAKDL115	115	1				-0.09487	0.00000	6.7	6.7
21315	2583.4	1126.4	L:	131018	LOUNS115	115	131850	CNYOG115	115	1	36.0	143.0	0.04143		0.02999	27.9	105.4
			C:	130765	OAKDL230	230	130772	SHRED230	230	1	222						
			Open	130765	OAKDL230	230	130772	SHRED230	230	1				-0.15213	-0.07525	-53.0	-247.4
21316	2584.2	1126.6	L:	131018	LOUNS115	115	131850	CNYOG115	115	1	35.9	143.0	0.04143		0.02999	27.9	105.4
			C:	130765	OAKDL230	230	130838	OAKDL115	115	1	223						
			Open	130765	OAKDL230	230	130838	OAKDL115	115	1				0.15213	0.07525	52.8	247.3
21317	2590.1	1127.9	L:	131018	LOUNS115	115	131850	CNYOG115	115	1	19.6	143.0	0.04766		0.02999	27.9	105.6
			C:	BUS:WATERCURE	_345						1629						
			Open	130757	WATRC345	345	200769	HOMER CY	345	1				-0.04994	-0.22849	-536.1	-1127.9

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				Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.12751	-0.04909	267.1	139.9		
				Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.04854	0.00000	21.8	21.8		
21318	2590.9	1128.1	L:	130755 OAKDL345	345	130757 WATRC345	345	1		-456.4	-1076.0	-0.23914	-0.27758	-247.3	-966.5
			C:	130757 WATRC345	345	130768 WATRC230	230	1	213						
				Open 130757 WATRC345	345	130768 WATRC230	230	1							
21323	2591.8	1128.3	L:	130755 OAKDL345	345	130757 WATRC345	345	1		-356.6	-1076.0	-0.27758	-0.27758	-247.3	-966.7
			C:	HQ-NY-765-New					1773						
				Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
				Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
				Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.03887	-0.00006	624.7	624.5
				Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.03887	-0.00005	543.6	543.5
				Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA						
				Open 147838 MASS230B	230	147839 MOSES E	230	1				-0.00000	0.00006	10.4	10.5
				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
				Open 147837 MASS230A	230	147839 MOSES E	230	1				0.06131	0.00000	18.8	18.8
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
				Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						
				Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA						
				Decrease bus 180001 BEA-DLX		13.8 generation by			100.0 percent dispatch						
				Set bus 181319 CHAT G3		120 load to			357.0 MW dispatch						
				Decrease bus 180002 BEA-DL		13.8 generation by			100.0 percent dispatch						
				Set bus 181419 CHAT G4		120 load to			357.0 MW dispatch						
21324	2592.2	1128.4	L:	131018 LOUN5115	115	131850 CNYOG115	115	1		-8.6	143.0	0.05847	0.02999	27.9	105.6
			C:	BUS:WATERCURE_230					1630						
				Open 130768 WATRC230	230	130772 SHRED230	230	1				0.25255	0.07525	59.5	254.6
				Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.19304	-0.04909	267.1	139.8
				Open 130763 HILSD230	230	130768 WATRC230	230	1				0.14175	0.00000	0.5	0.5
21325	2594.4	1128.9	L:	135851 SHEL-113	115	135874 SWDN-113	115	1		87.0	180.0	0.03585	0.02570	69.2	135.8
			C:	147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04326	0.23460	412.2	1020.8
21326	2599.9	1130.2	L:	130799 ERIE 115	115	130801 PAVMT115	115	1		-76.0	-179.0	-0.03963	-0.03531	-62.3	-154.1
			C:	130806 GARDV115	115	135450 GRDNV11	115	1	297						
				Open 130806 GARDV115	115	135450 GRDNV11	115	1				-0.12306	0.03508	110.8	202.0
21327	2606.8	1131.7	L:	130848 S.OWE115	115	131850 CNYOG115	115	1		-35.0	-143.0	-0.04143	-0.02999	-25.9	-104.1
			C:	130768 WATRC230	230	130772 SHRED230	230	1	227						
				Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.15213	0.07525	59.5	255.7
21328	2610.0	1132.5	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1		84.4	173.0	0.03394	0.02978	77.0	154.7
			C:	BUS:WATERCURE_345					1629						
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.01708	-0.22849	-536.1	-1132.5
				Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.00522	-0.04909	267.1	138.9
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.01354	0.00000	21.8	21.8
21329	2610.6	1132.6	L:	130857 STOLE115	115	130858 GIR115	115	1		95.4	239.0	0.05499	0.03927	62.5	165.0

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			C:130801 PAVMT115	115	130857 STOLE115	115	1	289						
			Open 130801 PAVMT115	115	130857 STOLE115	115	1				-0.44520	-0.03531	-74.1	-166.3
21330	2613.6	1133.3	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1		-120.7	-637.0	-0.19754	-0.17752	-73.7	-537.7
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.08765	-0.22849	-536.1	-1133.3
21331	2613.6	1133.3	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1		-120.7	-637.0	-0.19754	-0.17752	-73.7	-537.7
			C:SER:HC-WC_30&W-F_171					1598						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.08765	-0.22849	-536.1	-1133.3
21332	2613.6	1133.3	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1		-120.7	-637.0	-0.19754	-0.17752	-73.7	-537.7
			C:SER:HCWC/NWES					1604						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.08765	-0.22849	-536.1	-1133.3
21334	2618.6	1134.4	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1		-83.5	-180.0	-0.03687	-0.02643	-65.1	-134.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.04449	0.23460	412.2	1026.5
21336	2621.3	1135.0	L: 130755 OAKDL345	345	130757 WATRC345	345	1		-348.4	-1076.0	-0.27758	-0.27758	-247.3	-974.9
			C:GEN:9 MI PT2					1558						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch								
21338	2622.2	1135.3	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-34.4	-143.0	-0.04143	-0.02999	-25.9	-104.6
			C:SER:OAKDALE_WATRC230					1591						
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.15213	0.07525	59.5	256.8
			Open 130765 OAKDL230	230	130772 SHRED230	230	1		NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.09487	0.00000	6.7	6.7
21339	2624.0	1135.7	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1		97.5	180.0	0.03143	0.02569	79.0	146.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03586	0.16001	517.8	937.6
21340	2625.8	1136.1	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		10.5	-143.0	-0.05847	-0.02999	-25.9	-104.7
			C:BUS:WATERCURE_230					1630						
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.25255	0.07525	59.5	257.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.19304	-0.04909	267.1	138.1
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.14175	0.00000	0.5	0.5
21341	2629.3	1136.9	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1		-119.1	-637.0	-0.19699	-0.17752	-73.7	-540.4
			C:BUS:WATERCURE_345					1629						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.08601	-0.22849	-536.1	-1136.9
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.00359	-0.04909	267.1	138.0
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.07937	0.00000	21.8	21.8
21342	2630.7	1137.2	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-34.0	-143.0	-0.04143	-0.02999	-25.9	-104.8
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222						
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				0.15213	-0.07525	-53.0	-251.0
21343	2631.3	1137.3	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-17.6	-143.0	-0.04766	-0.02999	-25.9	-104.8
			C:BUS:WATERCURE_345					1629						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04994	-0.22849	-536.1	-1137.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.12751	-0.04909	267.1	137.9

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			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.04854	0.00000	21.8	21.8	
21344	2631.5	1137.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-34.0	-143.0	-0.04143	-0.02999	-25.9	-104.8
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1		-0.15213	0.07525	52.8	250.8	
21345	2633.4	1137.8	L: 135276 ELLICTVL	115	135564 SW115	115	1	-74.4	-160.0	-0.03250	-0.01790	-40.5	-87.7
			C:130756 STOLE345	345	135398 SW345	345	1	212					
			Open 130756 STOLE345	345	135398 SW345	345	1		0.15458	-0.09442	-219.4	-468.0	
21346	2637.1	1138.7	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-61.6	-173.0	-0.04224	-0.03028	-40.6	-120.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.05097	0.23460	412.2	1030.8	
21347	2638.5	1139.0	L: 135276 ELLICTVL	115	135564 SW115	115	1	-74.3	-160.0	-0.03250	-0.01790	-40.5	-87.7
			C:SER:STOLLE345/115					1592					
			Open 130756 STOLE345	345	130857 STOLE115	115	1		-0.15458	0.04740	109.7	234.7	
			Open 130756 STOLE345	345	130857 STOLE115	115	2		-0.15458	0.04702	108.7	232.7	
21349	2654.6	1142.6	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-73.4	-179.0	-0.03979	-0.03531	-62.3	-156.1
			C:130857 STOLE115	115	131466 DAVIS115	115	1	368					
			Open 130857 STOLE115	115	131466 DAVIS115	115	1		-0.28650	0.01561	38.6	80.0	
21351	2660.3	1144.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	84.8	173.0	0.03314	0.02978	77.0	156.2
			C:SER:HCWC/NWES					1604					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.01471	-0.22849	-536.1	-1144.0	
21352	2660.3	1144.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	84.8	173.0	0.03314	0.02978	77.0	156.2
			C:SER:HC-WC_30&W-F_171					1598					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.01471	-0.22849	-536.1	-1144.0	
21353	2660.3	1144.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	84.8	173.0	0.03314	0.02978	77.0	156.2
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.01471	-0.22849	-536.1	-1144.0	
21356	2669.0	1145.9	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-53.0	-153.0	-0.03748	-0.02687	-34.3	-106.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.04523	0.23460	412.2	1038.3	
21357	2671.4	1146.5	L: 130857 STOLE115	115	130858 GIRD115	115	1	103.1	239.0	0.05086	0.03927	62.5	167.3
			C:135398 SW345	345	135564 SW115	115	1	517					
			Open 135398 SW345	345	135564 SW115	115	1		0.25981	0.04461	156.6	275.8	
21359	2683.6	1149.3	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-331.1	-1076.0	-0.27758	-0.27758	-247.3	-992.2
			C:GEN:SEABROOK					1570					
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW			dispatch					
21360	2683.6	1149.3	*L: 130755 OAKDL345	345	130757 WATRC345	345	1	-331.1	-1076.0	-0.27758	-0.27758	-247.3	-992.2
			C:GEN:SEAB&OMS					1572					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		-0.00000	0.00000	-0.1	-0.1	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW			dispatch					
21363	2695.0	1151.9	L: 130763 HILSD230	230	131193 HILSD M3	34.5	1	98.3	231.0	0.04926			
			Base Case										
21364	2697.2	1152.4	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	74.7	173.0	0.03643	0.02978	77.0	157.3

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				C:130754 KINTI345	345	147834 NIAG 345	345	1	204										
				Open 130754 KINTI345	345	147834 NIAG 345	345	1											
21365	2698.2	1152.6	L:	130814 HILSD115	115	131193 HILSD M3	34.5	1											
				Base Case															
21366	2706.2	1154.4	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1											
				C:135850 SOUR-114	115	135876 TELRDTP1	115	1	673										
				Open 135850 SOUR-114	115	135876 TELRDTP1	115	1											
21367	2706.8	1154.6	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1											
				C:130764 MEYER230	230	131122 WTHRS230	230	1	221										
				Open 130764 MEYER230	230	131122 WTHRS230	230	1											
21368	2710.2	1155.4	*L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1											
				C:135452 LOCKPORT	115	135872 SOUR-111	115	1	599										
				Open 135452 LOCKPORT	115	135872 SOUR-111	115	1											
21378	2725.9	1158.9	L:	135861 MORTIMER	115	135874 SWDN-113	115	1											
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1											
21385	2734.2	1160.8	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1											
				C:GEN:9 MI PT2					1558										
				Remove unit 2 from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch									
21389	2745.1	1163.3	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1											
				C:HQ-NY-765-New					1773										
				Open 147827 MARCY765	765	147828 MASS 765	765	1		NA									
				Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA									
				Open 147827 MARCY765	765	147833 MARCY T1	345	1											
				Open 147827 MARCY765	765	147833 MARCY T1	345	2											
				Open 156 MCY765SW	0.0	147827 MARCY765	765	1		NA									
				Open 147838 MASS230B	230	147839 MOSES E	230	1											
				Open 147828 MASS 765	765	147838 MASS230B	230	1		NA									
				Open 147837 MASS230A	230	147839 MOSES E	230	1											
				Open 147828 MASS 765	765	147837 MASS230A	230	1		NA									
				Open 158 MS765SW2	0.0	147828 MASS 765	765	1		NA									
				Open 157 MS765SW1	0.0	147828 MASS 765	765	1		NA									
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent	dispatch										
				Set bus 181319 CHAT G3	120	load to	357.0	MW	dispatch										
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent	dispatch										
				Set bus 181419 CHAT G4	120	load to	357.0	MW	dispatch										
21393	2746.3	1163.6	L:	135276 ELLICTVL	115	135285 MCHS-152	115	1											
				C:130756 STOLE345	345	135398 SW345	345	1	212										
				Open 130756 STOLE345	345	135398 SW345	345	1											
21394	2751.4	1164.8	L:	135276 ELLICTVL	115	135285 MCHS-152	115	1											
				C:SER:STOLLE345/115					1592										
				Open 130756 STOLE345	345	130857 STOLE115	115	1											

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				Open 130756 STOLE345	345	130857 STOLE115	115	2		0.15458	0.04702	108.7	238.0	
21396	2754.4	1165.5	L:	135284 MCHS-151	115	135564 SW115	115	1	-74.3	-160.0	-0.03113	-0.01738	-42.3	-90.2
			C:	130756 STOLE345	345	135398 SW345	345	1	212					
				Open 130756 STOLE345	345	135398 SW345	345	1		0.14562	-0.09442	-219.4	-479.4	
21400	2759.4	1166.6	L:	135284 MCHS-151	115	135564 SW115	115	1	-74.1	-160.0	-0.03113	-0.01738	-42.3	-90.3
			C:	SER:STOLLE345/115					1592					
				Open 130756 STOLE345	345	130857 STOLE115	115	1		-0.14562	0.04740	109.7	240.4	
				Open 130756 STOLE345	345	130857 STOLE115	115	2		-0.14562	0.04702	108.7	238.4	
21417	2781.2	1171.6	L:	130787 CODNT115	115	130830 MONTR115	115	1	15.7	-108.0	-0.04447			
				Base Case										
21424	2784.6	1172.4	L:	130762 GARDV230	230	130767 STOLE230	230	1	181.7	478.0	0.10642	0.08051	120.9	345.0
			C:	130757 WATRC345	345	200769 HOMER CY	345	1	1374					
				Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.11342	-0.22849	-536.1	-1172.4	
21425	2784.6	1172.4	L:	130762 GARDV230	230	130767 STOLE230	230	1	181.7	478.0	0.10642	0.08051	120.9	345.0
			C:	SER:HC-WC_30&W-F_171					1598					
				Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.11342	-0.22849	-536.1	-1172.4	
21426	2784.6	1172.4	L:	130762 GARDV230	230	130767 STOLE230	230	1	181.7	478.0	0.10642	0.08051	120.9	345.0
			C:	SER:HCWC/NWES					1604					
				Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.11342	-0.22849	-536.1	-1172.4	
21430	2799.3	1175.7	L:	135452 LOCKPORT	115	135872 SOUR-111	115	1	72.0	159.0	0.03107	0.02540	73.9	145.0
			C:	130754 KINTI345	345	147834 NIAG 345	345	1	204					
				Open 130754 KINTI345	345	147834 NIAG 345	345	1		-0.03545	-0.16001	53.1	-394.8	
21434	2800.9	1176.1	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1	-139.8	-637.0	-0.17752	-0.17752	-73.7	-570.9
			C:	GEN:KINTIGH-New					1772					
				Open 130754 KINTI345	345	130873 KINTIG24	24.0	1		0.00000	0.00000	-288.5	-288.5	
				Open 130754 KINTI345	345	130873 KINTIG24	24.0	2		0.11439	0.00000	-577.7	-577.7	
21445	2825.2	1181.6	L:	135251 S RIPLEY	230	200654 ERIE E	230	1	2.5	-499.0	-0.17752			
				Base Case										
21446	2826.2	1181.9	*L:	130799 ERIE 115	115	130801 PAVMT115	115	1	-64.5	-179.0	-0.04052	-0.03531	-62.3	-162.1
			C:	135250 DUNKIRK	230	135251 S RIPLEY	230	1	422					
				Open 135250 DUNKIRK	230	135251 S RIPLEY	230	1		0.02932	-0.17752	-73.7	-575.4	
21447	2826.9	1182.0	L:	131018 LOUNSD115	115	131850 CNYOG115	115	1	-15.6	143.0	0.05610	0.02999	27.9	112.7
			C:	130763 HILSD230	230	130768 WATRC230	230	1	219					
				Open 130763 HILSD230	230	130768 WATRC230	230	1		0.21004	0.12434	-207.1	144.4	
21463	2844.0	1185.9	*L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1	-132.1	-637.0	-0.17752	-0.17752	-73.7	-578.6
			C:	GEN:BRUCE 6					1561					
				Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5 MW	dispatch							
21473	2851.1	1187.6	L:	130756 STOLE345	345	130857 STOLE115	115	1	188.1	420.0	0.08134	0.04740	109.7	244.8
			C:	130756 STOLE345	345	130857 STOLE115	115	2	211					
				Open 130756 STOLE345	345	130857 STOLE115	115	2		0.72184	0.04702	108.7	242.7	
21479	2853.9	1188.2	L:	130764 MEYER230	230	131343 MEYER M4	34.5	1	107.7	231.0	0.04320			
				Base Case										

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21480	2854.8	1188.4	L: 130857 STOLE115	115	130858 GIRD115	115	1	87.1	239.0	0.05322	0.03927	62.5	174.5
			C:130799 ERIE 115	115	130801 PAVMT115	115	1 282						
			Open 130799 ERIE 115	115	130801 PAVMT115	115	1				-0.39508	-0.03531	-62.3 -163.1
21487	2861.9	1190.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	17.6	-143.0	-0.05610	-0.02999	-25.9	-111.8
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.21004	0.12434	-207.1 148.8
21490	2863.0	1190.3	L: 130756 STOLE345	345	130857 STOLE115	115	2	187.6	420.0	0.08116	0.04702	108.7	243.3
			C:130756 STOLE345	345	130857 STOLE115	115	1 210						
			Open 130756 STOLE345	345	130857 STOLE115	115	1				0.72025	0.04740	109.7 245.4
21492	2863.6	1190.4	L: 130768 WATRC230	230	130772 SHRED230	230	1	59.5	275.0	0.07525			
			Base Case										
21514	2885.0	1195.3	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-74.1	-176.0	-0.03531			
			Base Case										
21540	2900.9	1198.9	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	68.9	159.0	0.03107	0.02540	70.8	144.4
			C:130754 KINTI345	345	147834 NIAG 345	345	1 204						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				-0.03545	-0.16001	53.1 -411.1
21577	2914.0	1201.9	L: 130857 STOLE115	115	130858 GIRD115	115	1	90.2	239.0	0.05108	0.03927	62.5	176.9
			C:SER:HC-WC_30&W-F_171				1598						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.05169	-0.22849	-536.1 -1201.9
21578	2914.0	1201.9	L: 130857 STOLE115	115	130858 GIRD115	115	1	90.2	239.0	0.05108	0.03927	62.5	176.9
			C:SER:HCWC/NWES				1604						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.05169	-0.22849	-536.1 -1201.9
21579	2914.0	1201.9	L: 130857 STOLE115	115	130858 GIRD115	115	1	90.2	239.0	0.05108	0.03927	62.5	176.9
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.05169	-0.22849	-536.1 -1201.9
21583	2916.1	1202.4	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	90.9	180.0	0.03055	0.02569	79.0	153.9
			C:135850 SOUR-114	115	135876 TELRDTP1	115	1 673						
			Open 135850 SOUR-114	115	135876 TELRDTP1	115	1				-0.18369	-0.02643	-65.1 -142.2
21596	2919.3	1203.1	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-40.6	-129.0	-0.03028			
			Base Case										
21625	2932.2	1206.1	L: 130857 STOLE115	115	130858 GIRD115	115	1	89.8	239.0	0.05087	0.03927	62.5	177.6
			C:BUS:WATERCURE_345				1629						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.05107	-0.22849	-536.1 -1206.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.00136	-0.04909	267.1 123.1
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.01600	0.00000	21.8 21.8
21634	2934.7	1206.7	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	87.7	180.0	0.03144	0.02570	69.2	144.6
			C:130754 KINTI345	345	149000 ROCH 345	345	1 205						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03587	0.16001	517.8 987.3
21677	2946.3	1209.3	L: 130763 HILSD230	230	130768 WATRC230	230	1	13.6	657.0	0.21838	0.12434	-207.1	159.3
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.41157	-0.22849	-536.1 -1209.3
21678	2946.3	1209.3	L: 130763 HILSD230	230	130768 WATRC230	230	1	13.6	657.0	0.21838	0.12434	-207.1	159.3

ZoneC-PJMCent

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 17 2009 15:09
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 17 2009 15:09
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
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 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From C_EXPORT To PENELEC_IMPORT. Transfer level - 5000.0 MW

Violations report ordered by transfer capability. Total 47746 violations

Interface-1 Interface 49 C-PJMCentral Init.Flow= 198.58 TDF= 0.2374

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating	LODF	Init Final
1	-7016.2	-1467.1	L: Interface 23 QFW C:147834 NIAG 345 345 149000 ROCH 345 345 1 1226 Open 147834 NIAG 345 345 149000 ROCH 345 345 1	1183.0	0.0	0.16862	0.21504	1095.5 -413.3
2	-6281.3	-1292.6	L: Interface 23 QFW C:GEN:BRUCE 6 1564 Remove unit 1 from bus 159617 BRUCEBG5 24.0 815.5 MW dispatch	1350.8	0.0	0.21504	0.21504	1095.5 -255.3
3	-6281.1	-1292.6	L: Interface 23 QFW C:130754 KINTI345 345 149000 ROCH 345 345 1 205 Open 130754 KINTI345 345 149000 ROCH 345 345 1	1185.7	-0.0	0.18878	0.21504	1095.5 -255.3
4	-5849.6	-1190.1	L: Interface 23 QFW C:GEN:NANTCK 8 1565 Remove unit 1 from bus 158743 NANTICG8 22.0 490.0 MW dispatch	1257.9	-0.0	0.21504	0.21504	1095.5 -162.5
5	-5830.8	-1185.7	L: Interface 23 QFW	1253.9	-0.0	0.21504	0.21504	1095.5 -158.4

ZoneC-PJMCent

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C:GEN:PICKER 6 1566
Remove unit 1 from bus 156683 PIC B G5 24.0 510.9 MW dispatch
6 -5828.9 -1185.2 L: Interface 23 QFW 1082.9 0.0 0.18579 0.21504 1095.5 -158.0
C:136150 CLAY 345 149001 PANNELL3 345 2 718
Open 136150 CLAY 345 149001 PANNELL3 345 2 -0.14111 0.20732 88.8 -1119.7
7 -5824.5 -1184.2 L: Interface 23 QFW 1083.0 -0.0 0.18594 0.21504 1095.5 -157.1
C:136150 CLAY 345 149001 PANNELL3 345 1 717
Open 136150 CLAY 345 149001 PANNELL3 345 1 -0.14085 0.20665 88.5 -1115.1
8 -5761.0 -1169.1 L: Interface 23 QFW 1087.6 -0.0 0.18878 0.21504 1095.5 -143.4
C:130754 KINTI345 345 147834 NIAG 345 345 1 204
Open 130754 KINTI345 345 147834 NIAG 345 345 1 -0.17204 0.15268 46.0 -833.6
9 -5613.0 -1133.9 L: Interface 23 QFW 1139.5 -0.0 0.20301 0.21504 1095.5 -111.6
C:130767 STOLE230 230 130770 SHLDN230 230 1 226
Open 130767 STOLE230 230 130770 SHLDN230 230 1 0.20184 -0.05960 218.2 552.8
10 -5609.9 -1133.2*L: Interface 23 QFW 1141.6 -0.0 0.20350 0.21504 1095.5 -110.9
C:130770 SHLDN230 230 131122 WTHRS230 230 1 228
Open 130770 SHLDN230 230 131122 WTHRS230 230 1 0.20184 -0.05721 228.6 549.5
1755 -4507.1 -871.4 L: Interface 49 C-PJMCentral 309.4 -0.0 0.06866 0.23740 198.6 -871.4
C:LKWANA-OXBW 1651
Open 417 OXBOW 230 3070 LACKAWNA 230 1 -0.92585 0.18226 -119.7 -941.2
1756 -4507.1 -871.4 L: Interface 50 PJMCentral-C -309.4 0.0 -0.06866 -0.23740 -198.6 871.4
C:LKWANA-OXBW 1651
Open 417 OXBOW 230 3070 LACKAWNA 230 1 0.92585 0.18226 -119.7 -941.2
1768 -3966.9 -743.2 L: Interface 26 ONTARIO-MICH 773.7 0.0 0.19504 0.21504 736.0 -117.1
C:147834 NIAG 345 345 149000 ROCH 345 345 1 1226
Open 147834 NIAG 345 345 149000 ROCH 345 345 1 0.08935 -0.22386 422.3 1310.3
1769 -3803.5 -704.4 L: Interface 26 ONTARIO-MICH 774.9 -0.0 0.20373 0.21504 736.0 -81.9
C:130754 KINTI345 345 149000 ROCH 345 345 1 205
Open 130754 KINTI345 345 149000 ROCH 345 345 1 0.07412 -0.15268 524.7 1105.4
1771 -3742.9 -690.0 L: Interface 26 ONTARIO-MICH 749.2 -0.0 0.20018 0.21504 736.0 -68.9
C:KEY-SHELOCTA/BLAIRSVL-SOCIAL 1650
Open 505 SHELOCTA 230 521 KEYSTONE 230 1 0.08784 -0.13775 50.1 565.7
Open 473 BLAIRSVL 138 235253 01SOCIAL 138 1 0.08830 -0.03135 100.2 217.6
1774 -3639.6 -665.5 L: Interface 26 ONTARIO-MICH 788.3 0.0 0.21660 0.21504 736.0 -46.7
C:BUS:N.S._99 1615
Open 137453 N.SCOT99 345 147831 GILB 345 345 1 0.00346 0.02921 -310.7 -417.0
Open 137453 N.SCOT99 345 147833 MARCY T1 345 1 -0.04494 -0.02831 -916.1 -813.0
Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1 -0.00395 -0.00083 118.7 121.7
Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2 -0.01445 -0.01274 -858.5 -812.1
Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1 0.20105 0.00000 1.6 1.6
1775 -3638.1 -665.1 L: Interface 26 ONTARIO-MICH 762.5 -0.0 0.20958 0.21504 736.0 -46.4
C:W44LC 1642
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ZoneC-PJMCent

			Open 160062 LONGWOOD	220	160074 COWALJ44	220	1			-0.16056	0.01819	189.2	123.0
			Open 160074 COWALJ44	220	160134 BUCHJW44	220	1			0.16303	-0.01555	334.4	391.0
			Open 160054 BUCHANAN	220	160134 BUCHJW44	220	1			-0.00035	0.01555	-256.1	-312.7
			Open 160055 CHATHAM	220	160074 COWALJ44	220	1			0.71981	0.00000	3.1	3.1
1776	-3637.8	-665.0	L: Interface 26 ONTARIO-MICH					762.5	0.0	0.20959	0.21504	736.0	-46.3
			C:W45LC				1643						
			Open 160062 LONGWOOD	220	160075 COWALJ45	220	1			-0.16050	0.01817	189.2	123.1
			Open 160075 COWALJ45	220	160135 BUCHJW45	220	1			0.16297	-0.01554	334.3	390.8
			Open 160054 BUCHANAN	220	160135 BUCHJW45	220	1			-0.00035	0.01554	-262.5	-319.0
			Open 160055 CHATHAM	220	160075 COWALJ45	220	1			0.71977	0.00000	3.1	3.1
1778	-3628.2	-662.8	L: Interface 26 ONTARIO-MICH					785.2	-0.0	0.21643	0.21504	736.0	-44.2
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.04888	-0.02831	-916.1	-813.4
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.03730	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			-0.00004	-0.00001	88.8	88.8
1779	-3628.2	-662.8	L: Interface 26 ONTARIO-MICH					785.2	0.0	0.21643	0.21504	736.0	-44.2
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.04888	-0.02831	-916.1	-813.4
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.03730	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			-0.00005	-0.00002	74.8	74.9
1780	-3624.2	-661.8	L: Interface 26 ONTARIO-MICH					778.9	0.0	0.21492	0.21504	736.0	-43.4
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7					
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.03851	-0.00314	1114.8	1126.2
1781	-3624.2	-661.8	*L: Interface 26 ONTARIO-MICH					778.9	0.0	0.21492	0.21504	736.0	-43.4
			C:SIN:440				1683						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.03851	-0.00314	1114.8	1126.2
3541	-1292.1	-108.2	L: Interface 50 PJMCentral-C					-282.0	-0.0	-0.21823	-0.23740	-198.6	108.2
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			0.14438	0.13281	-577.5	-749.1
3542	-1292.1	-108.2	L: Interface 49 C-PJMCentral					282.0	0.0	0.21823	0.23740	198.6	-108.2
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			-0.14438	0.13281	-577.5	-749.1
3543	-1140.0	-72.0	L: Interface 50 PJMCentral-C					-267.9	-0.0	-0.23497	-0.23740	-198.6	72.0
			C:130750 COOPC345	345	130753 FRASR345	345	1	192					
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.06948	0.03498	-997.1	-1037.0
3544	-1140.0	-72.0	L: Interface 49 C-PJMCentral					267.9	0.0	0.23497	0.23740	198.6	-72.0
			C:130750 COOPC345	345	130753 FRASR345	345	1	192					
			Open 130750 COOPC345	345	130753 FRASR345	345	1			-0.06948	0.03498	-997.1	-1037.0
3545	-1104.8	-63.7	L: Interface 49 C-PJMCentral					229.8	0.0	0.20800	0.23740	198.6	-63.7
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.11844	0.24819	-263.5	-537.7
3546	-1104.8	-63.7	L: Interface 50 PJMCentral-C					-229.8	-0.0	-0.20800	-0.23740	-198.6	63.7

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				C:130755 OAKDL345	345	130757 WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.11844	0.24819	-263.5	-537.7				
3547	-1033.4	-46.8	L:	Interface	50	PJMCentral-C				-245.2	-0.0	-0.23727		-0.23740	-198.6	46.8			
				C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.04182	-0.00314	1114.8	1118.1				
3548	-1033.4	-46.8	L:	Interface	49	C-PJMCentral				245.2	0.0	0.23727		0.23740	198.6	-46.8			
				C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.04182	-0.00314	1114.8	1118.1				
3549	-1033.4	-46.8	L:	Interface	49	C-PJMCentral				245.2	0.0	0.23727		0.23740	198.6	-46.8			
				C:SIN:440					1683										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.04182	-0.00314	1114.8	1118.1				
3550	-1033.4	-46.8	L:	Interface	50	PJMCentral-C				-245.2	-0.0	-0.23727		-0.23740	-198.6	46.8			
				C:SIN:440					1683										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.04182	-0.00314	1114.8	1118.1				
3551	-992.9	-37.1	L:	Interface	49	C-PJMCentral				236.3	0.0	0.23793		0.23740	198.6	-37.1			
				C:BUS:N.S._99					1615										
				Open 137453 N.SCOT99	345	147831 GILB	345	1				-0.01348	0.02921	-310.7	-339.7				
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.02908	-0.02831	-916.1	-888.0				
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.00172	-0.00083	118.7	119.5				
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-0.00812	-0.01274	-858.5	-845.8				
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.04931	0.00000	1.6	1.6				
3552	-992.9	-37.1	L:	Interface	50	PJMCentral-C				-236.3	-0.0	-0.23793		-0.23740	-198.6	37.1			
				C:BUS:N.S._99					1615										
				Open 137453 N.SCOT99	345	147831 GILB	345	1				0.01348	0.02921	-310.7	-339.7				
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.02908	-0.02831	-916.1	-888.0				
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.00172	-0.00083	118.7	119.5				
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.00812	-0.01274	-858.5	-845.8				
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.04931	0.00000	1.6	1.6				
3553	-990.6	-36.6	L:	Interface	49	C-PJMCentral				235.2	0.0	0.23740		0.23740	198.6	-36.6			
				C:GEN:SALEM					1567										
				Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3	MW dispatch										
3554	-990.6	-36.6	L:	Interface	50	PJMCentral-C				-235.2	-0.0	-0.23740		-0.23740	-198.6	36.6			
				C:GEN:SALEM					1567										
				Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3	MW dispatch										
3555	-985.6	-35.4	L:	Interface	50	PJMCentral-C				-233.8	0.0	-0.23719		-0.23740	-198.6	35.4			
				C:SER:CMT34&MTR34					1593										
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.04979	-0.00629	874.1	880.3				
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				-0.01956	0.00548	-425.4	-430.7				
3556	-985.6	-35.4	L:	Interface	49	C-PJMCentral				233.8	-0.0	0.23719		0.23740	198.6	-35.4			
				C:SER:CMT34&MTR34					1593										
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1				0.04979	-0.00629	874.1	880.3				
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.01956	0.00548	-425.4	-430.7				

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3557	-983.6	-34.9*L:	Interface 49 C-PJMCentral		233.5	-0.0	0.23740	0.23740	198.6	-34.9	
			C:GEN:MARTN CK	1569							
			Remove unit 4 from bus 3151 MTN CK 4	24.0	704.3 MW						
			dispatch								
3558	-983.6	-34.9*L:	Interface 50 PJMCentral-C		-233.5	0.0	-0.23740	-0.23740	-198.6	34.9	
			C:GEN:MARTN CK	1569							
			Remove unit 4 from bus 3151 MTN CK 4	24.0	704.3 MW						
			dispatch								
3775	-848.6	-2.9 L:	Interface 52 PJMEast-G		-39.7	0.0	-0.04673	-0.00000	0.4	0.4	
			C:ETHS/LLGD	1649							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1	-0.24403	0.13510	117.6	3.0
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1	-0.29946	0.04595	38.0	-1.0
3776	-848.6	-2.9 L:	Interface 51 G-PJMEast		39.7	-0.0	0.04673	0.00000	-0.4	-0.4	
			C:ETHS/LLGD	1649							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1	0.24403	0.13510	117.6	3.0
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1	0.29946	0.04595	38.0	-1.0
6687	-831.7	1.1 L:	Interface 51 G-PJMEast		49.0	0.0	0.05891	0.00000	-0.4	-0.4	
			C:SER:ETHS/NWES	1606							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1	0.30717	0.13510	117.6	5.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	0.30905	0.05635	43.0	-3.9
6688	-831.7	1.1 L:	Interface 52 PJMEast-G		-49.0	-0.0	-0.05891	-0.00000	0.4	0.4	
			C:SER:ETHS/NWES	1606							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1	-0.30717	0.13510	117.6	5.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	-0.30905	0.05635	43.0	-3.9
6707	-831.2	1.3 L:	Interface 52 PJMEast-G		-76.3	-0.0	-0.09176	-0.00000	0.4	0.4	
			C:ETHS/NWES/LLGD	1648							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1	-0.37609	0.13510	117.6	5.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	-0.38778	0.05635	43.0	-3.9
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1	-0.41556	0.04595	38.0	-0.2
6708	-831.2	1.3 L:	Interface 51 G-PJMEast		76.3	0.0	0.09176	0.00000	-0.4	-0.4	
			C:ETHS/NWES/LLGD	1648							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1	0.37609	0.13510	117.6	5.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	0.38778	0.05635	43.0	-3.9
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1	0.41556	0.04595	38.0	-0.2
6885	-815.1	5.1 L:	Interface 52 PJMEast-G		-48.0	-0.0	-0.05885	-0.00000	0.4	0.4	
			C:SER:C398/NWES	1605							
			Open 409 GROVER	230	200675 E.TWANDA	230	1	-0.02734	-0.00479	-15.6	-11.7
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1	-0.30865	0.13510	117.6	7.5
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1	-0.01228	0.00389	-52.1	-55.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1	-0.30588	0.05635	43.0	-2.9
6886	-815.1	5.1 L:	Interface 51 G-PJMEast		48.0	0.0	0.05885	0.00000	-0.4	-0.4	
			C:SER:C398/NWES	1605							
			Open 409 GROVER	230	200675 E.TWANDA	230	1	0.02734	-0.00479	-15.6	-11.7
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1	0.30865	0.13510	117.6	7.5

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			Open	381	TOWANDA	115	200675	E.TWANDA	230	1		0.01228	0.00389	-52.1	-55.3	
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.30588	0.05635	43.0	-2.9	
7083	-45.3	187.8	L: Interface	52	PJMEast-G						-2.0	-0.0	-0.04478	-0.00000	0.4	0.4
			C:SER:EESR/WF/NWES							1611						
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1		-0.17354	0.14296	11.3	4.8	
			Open	135277	FALCONER	115	200579	WARREN	115	1		-0.15831	0.07505	-35.9	-39.3	
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		-0.14357	0.05635	43.0	40.4	
7084	-45.3	187.8	L: Interface	51	G-PJMEast						2.0	0.0	0.04478	0.00000	-0.4	-0.4
			C:SER:EESR/WF/NWES							1611						
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1		0.17354	0.14296	11.3	4.8	
			Open	135277	FALCONER	115	200579	WARREN	115	1		0.15831	0.07505	-35.9	-39.3	
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		0.14357	0.05635	43.0	40.4	
7085	112.5	225.3	L: Interface	51	G-PJMEast						-4.1	0.0	0.03600	0.00000	-0.4	-0.4
			C:SER:EESR/WRFL							1609						
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1		0.17056	0.14296	11.3	27.4	
			Open	135277	FALCONER	115	200579	WARREN	115	1		0.15483	0.07505	-35.9	-27.5	
7086	112.5	225.3	L: Interface	52	PJMEast-G						4.1	-0.0	-0.03600	-0.00000	0.4	0.4
			C:SER:EESR/WRFL							1609						
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1		-0.17056	0.14296	11.3	27.4	
			Open	135277	FALCONER	115	200579	WARREN	115	1		-0.15483	0.07505	-35.9	-27.5	
7087	235.6	254.5	L: Interface	52	PJMEast-G						8.5	0.0	-0.03603	-0.00000	0.4	0.4
			C:SER:ESEE/WRFL							1610						
			Open	270	ERIE SO.	230	531	ERIE SE	230	1		0.00053	-0.12135	16.5	-12.1	
			Open	531	ERIE SE	230	200654	ERIE E	230	1		0.17025	-0.14296	14.7	-19.0	
			Open	135277	FALCONER	115	200579	WARREN	115	1		-0.15493	0.07505	-35.9	-18.2	
7088	235.6	254.5	L: Interface	51	G-PJMEast						-8.5	-0.0	0.03603	0.00000	-0.4	-0.4
			C:SER:ESEE/WRFL							1610						
			Open	270	ERIE SO.	230	531	ERIE SE	230	1		-0.00053	-0.12135	16.5	-12.1	
			Open	531	ERIE SE	230	200654	ERIE E	230	1		-0.17025	-0.14296	14.7	-19.0	
			Open	135277	FALCONER	115	200579	WARREN	115	1		0.15493	0.07505	-35.9	-18.2	
7089	663.1	356.0	L: Interface	51	G-PJMEast						-45.9	0.0	0.06927	0.00000	-0.4	-0.4
			C:LKWANA-OXBW							1651						
			Open	417	OXBOW	230	3070	LACKAWNA	230	1		0.38004	0.18226	-119.7	1.1	
7090	663.1	356.0	L: Interface	52	PJMEast-G						45.9	-0.0	-0.06927	-0.00000	0.4	0.4
			C:LKWANA-OXBW							1651						
			Open	417	OXBOW	230	3070	LACKAWNA	230	1		-0.38004	0.18226	-119.7	1.1	
7091	834.4	396.7	L: 130836 N.WAV115	115	200676 E.SAYRE	115	1				43.0	90.0	0.05635			
			Base Case													
7092	999.0	435.7	L: 130830 MONTR115	115	130845 RIDGT115	115	1				86.6	133.0	0.04648	0.03305	48.5	81.5
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209								
			Open	130755	OAKDL345	345	131128	LAPEER	345	1		-0.06610	-0.20313	-575.7	-778.7	
7093	1017.0	440.0	L: 130787 CODNT115	115	130830 MONTR115	115	1				75.3	144.0	0.06752	0.04642	15.5	62.7

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				C:130755 OAKDL345	345	131128 LAPEER	345	1	209										
				Open 130755 OAKDL345	345	131128 LAPEER	345	1											
7094	1071.4	452.9	L:	Interface	52	PJMEast-G				46.9	0.0	-0.04378		-0.10387	-0.20313	-575.7	-782.3		
				C:130755 OAKDL345	345	130757 WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1											
7095	1071.4	452.9	L:	Interface	51	G-PJMEast				-46.9	-0.0	0.04378		-0.17641	0.24819	-263.5	2.4		
				C:130755 OAKDL345	345	130757 WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1											
7096	1138.1	468.8	L:	136154 OSWEGO	345	136702 OSWGO 5G	22.0	1		-558.2	-1030.0	-0.41455		0.17641	0.24819	-263.5	2.4		
				C:GEN:SEAB&OMS					1575										
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2											
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW													
7097	1138.1	468.8	L:	136154 OSWEGO	345	136702 OSWGO 5G	22.0	1		-558.2	-1030.0	-0.41455		-0.41455	-557.9	-1029.7			
				C:GEN:SEABROOK					1573										
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW													
7098	1138.2	468.8	L:	136154 OSWEGO	345	136702 OSWGO 5G	22.0	1		-558.2	-1030.0	-0.41455		-0.41455	-557.9	-1029.7			
				C:GEN:MILLST 3					1572										
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW													
7099	1138.2	468.8	L:	136154 OSWEGO	345	136702 OSWGO 5G	22.0	1		-558.2	-1030.0	-0.41455		-0.41455	-557.9	-1029.7			
				C:GEN:MLS3&OMS					1574										
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2											
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW													
7100	1138.2	468.8	L:	136154 OSWEGO	345	136702 OSWGO 5G	22.0	1		-558.2	-1030.0	-0.41455		-0.41455	-557.9	-1029.7			
				C:GEN:9 MI PT2					1561										
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW													
7101	1138.2	468.8	L:	136154 OSWEGO	345	136702 OSWGO 5G	22.0	1		-558.1	-1030.0	-0.41455		-0.41455	-557.9	-1029.8			
				C:GEN:SALEM					1567										
				Remove unit 1 from bus 36 SALEM-G1	22.0	1117.3 MW													
7102	1138.3	468.8	L:	136154 OSWEGO	345	136702 OSWGO 5G	22.0	1		-558.1	-1030.0	-0.41455		-0.41455	-557.9	-1029.8			
				C:GEN:IND PT 3					1555										
				Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8 MW													
7103	1138.3	468.8	L:	136154 OSWEGO	345	136702 OSWGO 5G	22.0	1		-558.1	-1030.0	-0.41455		-0.41455	-557.9	-1029.8			
				C:GEN:PEACHBTM					1568										
				Remove unit 1 from bus 34 PCHBTM 2	22.0	1060.3 MW													
7104	1138.3	468.8	L:	136154 OSWEGO	345	136702 OSWGO 5G	22.0	1		-558.1	-1030.0	-0.41455		-0.41455	-557.9	-1029.8			
				C:GEN:IND PT 2					1554										
				Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7 MW													
7105	1138.3	468.8	*L:	136154 OSWEGO	345	136702 OSWGO 5G	22.0	1		-558.1	-1030.0	-0.41455		-0.41455	-557.9	-1029.8			
				C:GEN:IND PT 3-New					1775										
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1											
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2											
7820	1138.8	468.9	L:	136154 OSWEGO	345	136702 OSWGO 5G	22.0	1		-557.9	-1030.0	-0.41455		0.00000	0.00000	522.5	522.5		
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2											
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2											

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Base Case													
8866	1259.7	497.6	L: 130830 MONTR115	115	130845 RIDGT115	115	1	68.5	133.0	0.05116	0.03305	48.5	90.1
			C:130830 MONTR115	115	130844 RIDGR115	115	1 333						
			Open 130830 MONTR115	115	130844 RIDGR115	115	1			0.57182	0.03167	35.0	74.9
8867	1261.1	498.0	L: 130814 HILSD115	115	131162 CHEMU115	115	1	105.5	179.0	0.05832	0.01545	68.3	87.8
			C:ETHS/LLGD				1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.27902	0.13510	117.6	288.0
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.11275	0.04595	38.0	95.9
8868	1314.9	510.7	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	-102.3	-179.0	-0.05832	-0.01545	-65.2	-85.5
			C:ETHS/LLGD				1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.27902	0.13510	117.6	295.3
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			-0.11275	0.04595	38.0	98.4
8869	1377.0	525.5	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	61.4	143.0	0.05924	0.04090	24.3	80.6
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.19959	-0.09191	-186.1	-312.6
8870	1415.1	534.5	L: 135277 FALCONER	115	200579 WARREN	115	1	-32.8	116.0	0.10517	0.07505	-35.9	70.3
			C:SER:EESR/NWES				1608						
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			0.20363	0.14296	11.3	213.6
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.01801	0.05635	43.0	122.7
8871	1432.9	538.8	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-120.9	-239.0	-0.08238	-0.05968	-75.0	-160.5
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.24699	-0.09191	-186.1	-317.8
8872	1436.9	539.7	L: 135277 FALCONER	115	200579 WARREN	115	1	-33.6	116.0	0.10412	0.07505	-35.9	71.9
			C:135251 S RIPLEY	230	200654 ERIE E	230	1 1378						
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1			0.20334	0.14296	11.3	216.7
8873	1456.1	544.2	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	53.9	143.0	0.06117	0.04090	24.3	83.8
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.24198	-0.05896	71.0	-14.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.18211	0.03295	257.6	305.5
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.12849	0.00000	0.5	0.5
8874	1491.5	552.7	L: 130830 MONTR115	115	130845 RIDGT115	115	1	69.5	133.0	0.04258	0.03305	48.5	97.8
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.10053	-0.05896	71.0	-16.9
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.10933	0.03295	257.6	306.7
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.10218	0.00000	0.5	0.5
8875	1500.9	554.9	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-111.8	-239.0	-0.08473	-0.05968	-75.0	-164.6
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.29871	-0.05896	71.0	-17.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.22565	0.03295	257.6	307.0
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.14326	0.00000	0.5	0.5
8876	1506.2	556.2	L: 136158 INDEPNDC	345	136719 SITH-S5	18.0	1	-161.9	-215.0	-0.03528			
			Base Case										

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8877	1506.2	556.2	L: 136158 INDEPNDC	345	136720	SITH-S6	18.0	1	-161.9	-215.0	-0.03528				
			Base Case												
8878	1507.5	556.5	L: 130830 MONTR115	115	130845	RIDGT115	115	1	68.4	133.0	0.04287	0.03305	48.5	98.3	
			C:130763 HILSD230	230	130768	WATRC230	230	1							219
			Open 130763 HILSD230	230	130768	WATRC230	230	1							
8879	1524.2	560.4	L: 130807 GOUDY115	115	200680	LAUREL L	115	1	38.0	108.0	0.04595				
			Base Case												
8880	1538.7	563.9	L: 130814 HILSD115	115	131162	CHEMU115	115	1	99.7	179.0	0.05151	0.01545	68.3	92.1	
			C:130763 HILSD230	230	200675	E.TWANDA	230	1							1375
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1							
8881	1538.9	563.9	L: 130800 ETNA 115	115	130827	MILKN115	115	2	-185.7	-255.0	-0.04505	-0.02652	-108.5	-149.4	
			C:130800 ETNA 115	115	130827	MILKN115	115	1							286
			Open 130800 ETNA 115	115	130827	MILKN115	115	1							
8882	1585.8	575.0	L: 135277 FALCONER	115	200579	WARREN	115	1	-49.1	116.0	0.10412	0.07505	-35.9	83.1	
			C:135250 DUNKIRK	230	135251	S RIPLEY	230	1							422
			Open 135250 DUNKIRK	230	135251	S RIPLEY	230	1							
8883	1599.7	578.4	L: 130836 N.WAV115	115	131162	CHEMU115	115	1	-96.6	-179.0	-0.05151	-0.01545	-65.2	-89.9	
			C:130763 HILSD230	230	200675	E.TWANDA	230	1							1375
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1							
8884	1622.4	583.7	L: 130792 CORN TP2	115	130800	ETNA 115	115	1	-82.2	-143.0	-0.03746	-0.01851	-50.6	-80.6	
			C:130787 CODNT115	115	130800	ETNA 115	115	1							255
			Open 130787 CODNT115	115	130800	ETNA 115	115	1							
8885	1645.4	589.2	L: 130830 MONTR115	115	130844	RIDGR115	115	1	71.6	145.0	0.04458	0.03167	35.0	87.2	
			C:130755 OAKDL345	345	131128	LAPEER	345	1							209
			Open 130755 OAKDL345	345	131128	LAPEER	345	1							
8886	1649.9	590.3	L: 130800 ETNA 115	115	130827	MILKN115	115	1	-182.2	-255.0	-0.04410	-0.02435	-101.4	-141.6	
			C:130800 ETNA 115	115	130827	MILKN115	115	2							287
			Open 130800 ETNA 115	115	130827	MILKN115	115	2							
8887	1665.5	594.0	L: 130830 MONTR115	115	130844	RIDGR115	115	1	61.8	145.0	0.04993	0.03167	35.0	87.8	
			C:130830 MONTR115	115	130845	RIDGT115	115	1							334
			Open 130830 MONTR115	115	130845	RIDGT115	115	1							
8888	1742.7	612.3	*L: Interface 52 PJMEast-G						118.3	-0.0	-0.06787	-0.00000	0.4	0.4	
			C:BUS:WATERCURE_345												1632
			Open 130757 WATRC345	345	200769	HOMER CY	345	1							
			Open 130757 WATRC345	345	130768	WATRC230	230	1							
			Open 130755 OAKDL345	345	130757	WATRC345	345	1							
8889	1742.7	612.3	*L: Interface 51 G-PJMEast						-118.3	0.0	0.06787	0.00000	-0.4	-0.4	
			C:BUS:WATERCURE_345												1632
			Open 130757 WATRC345	345	200769	HOMER CY	345	1							
			Open 130757 WATRC345	345	130768	WATRC230	230	1							
			Open 130755 OAKDL345	345	130757	WATRC345	345	1							
8890	1747.0	613.3	L: 130807 GOUDY115	115	130848	S.OWE115	115	1	58.2	143.0	0.04856	0.04090	24.3	95.7	

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				C:130814 HILSD115	115	131162	CHEMU115	115	1	311									
				Open 130814 HILSD115	115	131162	CHEMU115	115	1				0.49588	0.01545	68.3	95.3			
8891	1749.7	614.0	L:	130830 MONTR115	115	130845	RIDGT115	115	1		50.0	133.0	0.04745		0.03305	48.5	106.3		
				C:130814 HILSD115	115	130844	RIDGR115	115	1	309									
				Open 130814 HILSD115	115	130844	RIDGR115	115	1					-0.47665	-0.03020	-3.1	-55.9		
8892	1763.6	617.3	L:	135277 FALCONER	115	200579	WARREN	115	1		-29.6	116.0	0.08257		0.07505	-35.9	96.4		
				C:ETHS/NWES/LLGD						1648									
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1					0.03212	0.13510	117.6	355.9		
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1					0.03366	0.05635	43.0	142.4		
				Open 130807 GOUDY115	115	200680	LAUREL L	115	1					0.02797	0.04595	38.0	119.0		
8893	1779.0	620.9	L:	130807 GOUDY115	115	130848	S.OWE115	115	1		56.6	143.0	0.04856		0.04090	24.3	97.0		
				C:130836 N.WAV115	115	131162	CHEMU115	115	1	347									
				Open 130836 N.WAV115	115	131162	CHEMU115	115	1					-0.49588	-0.01545	-65.2	-92.7		
8894	1780.7	621.3	L:	130787 CODNT115	115	130830	MONTR115	115	1		40.3	144.0	0.05822		0.04642	15.5	98.2		
				C:BUS:WATERCURE_230						1633									
				Open 130768 WATRC230	230	130772	SHRED230	230	1					-0.12671	-0.05896	71.0	-34.0		
				Open 130757 WATRC345	345	130768	WATRC230	230	1					0.13140	0.03295	257.6	316.2		
				Open 130763 HILSD230	230	130768	WATRC230	230	1					-0.10511	0.00000	0.5	0.5		
8895	1786.4	622.7	L:	130787 CODNT115	115	130830	MONTR115	115	1		39.7	144.0	0.05837		0.04642	15.5	98.5		
				C:130763 HILSD230	230	130768	WATRC230	230	1	219									
				Open 130763 HILSD230	230	130768	WATRC230	230	1					-0.13003	-0.09191	-186.1	-350.3		
8896	1792.9	624.2	L:	130830 MONTR115	115	130845	RIDGT115	115	1		69.0	133.0	0.03568		0.03305	48.5	107.8		
				C:130757 WATRC345	345	130768	WATRC230	230	1	213									
				Open 130757 WATRC345	345	130768	WATRC230	230	1					0.07967	0.03295	257.6	316.6		
8897	1793.9	624.4	L:	130830 MONTR115	115	130845	RIDGT115	115	1		68.7	133.0	0.03583		0.03305	48.5	107.8		
				C:BUS:WATERCURE_345						1632									
				Open 130757 WATRC345	345	200769	HOMER CY	345	1					0.00067	0.21524	-543.5	-157.4		
				Open 130757 WATRC345	345	130768	WATRC230	230	1					0.07981	0.03295	257.6	316.7		
				Open 130755 OAKDL345	345	130757	WATRC345	345	1					0.00105	0.00000	22.4	22.4		
8898	1799.7	625.8	L:	130830 MONTR115	115	130845	RIDGT115	115	1		48.5	108.0	0.03305						
				Base Case															
8899	1806.5	627.4	L:	130807 GOUDY115	115	130848	S.OWE115	115	1		38.6	143.0	0.05779		0.04090	24.3	98.2		
				C:ETHS/LLGD						1649									
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1					0.06154	0.13510	117.6	361.7		
				Open 130807 GOUDY115	115	200680	LAUREL L	115	1					0.18664	0.04595	38.0	121.0		
8900	1806.9	627.5	L:	136150 CLAY	345	136156	VOLNEY	345	1		-705.9	-1032.0	-0.18049						
				Base Case															
8901	1819.5	630.5	L:	136154 OSWEGO	345	136703	OSWEGO 6G	22.0	1		-750.3	-1030.0	-0.15371		-0.15371	-750.0	-1029.6		
				C:GEN:SEABROOK						1573									
				Remove unit 1 from bus 102869 SBRK G1				25.0	1318.0	MW	dispatch								
8902	1819.5	630.5	L:	136154 OSWEGO	345	136703	OSWEGO 6G	22.0	1		-750.3	-1030.0	-0.15371		-0.15371	-750.0	-1029.6		
				C:GEN:SEAB&OMS						1575									

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				Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
8903	1819.6	630.6	L:	136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.3 -1030.0 -0.15371		-0.15371	-750.0	-1029.7
				C:GEN:MLS3&OMS				1574					
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
8904	1819.6	630.6	L:	136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.3 -1030.0 -0.15371		-0.15371	-750.0	-1029.7
				C:GEN:MILLST 3				1572					
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
8905	1819.8	630.6	L:	136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.3 -1030.0 -0.15371		-0.15371	-750.0	-1029.7
				C:GEN:9 MI PT2				1561					
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch						
8906	1819.9	630.6	L:	136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.3 -1030.0 -0.15371		-0.15371	-750.0	-1029.7
				C:GEN:SALEM				1567					
				Remove unit 1 from bus 36 SALEM-G1	22.0	1117.3 MW	dispatch						
8907	1820.0	630.6	L:	136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.3 -1030.0 -0.15371		-0.15371	-750.0	-1029.7
				C:GEN:IND PT 3				1555					
				Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8 MW	dispatch						
8908	1820.0	630.6	L:	136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.2 -1030.0 -0.15371		-0.15371	-750.0	-1029.7
				C:GEN:PEACHBTM				1568					
				Remove unit 1 from bus 34 PCHBTM 2	22.0	1060.3 MW	dispatch						
8909	1820.0	630.7	L:	136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.2 -1030.0 -0.15371		-0.15371	-750.0	-1029.7
				C:GEN:IND PT 2				1554					
				Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7 MW	dispatch						
8910	1820.0	630.7	*L:	136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.2 -1030.0 -0.15371		-0.15371	-750.0	-1029.7
				C:GEN:IND PT 3-New				1775					
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1		0.00000	0.00000	522.5	522.5
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2		0.00027	0.00000	-1041.8	-1041.8
9865	1821.9	631.1	L:	136154 OSWEGO	345	136703 OSWGO 6G	22.0	1	-750.0 -1030.0 -0.15371				
				Base Case									
10671	1827.0	632.3	L:	135277 FALCONER	115	200579 WARREN	115	1	-30.9 116.0 0.08043		0.07505	-35.9	101.2
				C:SER:C398/NWES				1605					
				Open 409 GROVER	230	200675 E.TWANDA	230	1		-0.02475	-0.00479	-15.6	-24.3
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.02688	0.13510	117.6	364.5
				Open 381 TOWANDA	115	200675 E.TWANDA	230	1		-0.00306	0.00389	-52.1	-45.0
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.02915	0.05635	43.0	145.9
10672	1835.0	634.2	L:	135277 FALCONER	115	200579 WARREN	115	1	-31.5 116.0 0.08036		0.07505	-35.9	101.8
				C:SER:ETHS/NWES				1606					
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.02748	0.13510	117.6	365.5
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.02836	0.05635	43.0	146.4
10673	1879.8	644.9	L:	136150 CLAY	345	136156 VOLNEY	345	1	-1001.3 -1434.0 -0.23019		-0.18049	-705.9	-1045.2
				C:136150 CLAY	345	136158 INDEPNDC	345	1	712				

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			Open 136150 CLAY	345	136158 INDEPNDC	345	1		0.36035	-0.13793	-819.8	-1079.1	
10674	1891.7	647.7	L: 135277 FALCONER	115	200579 WARREN	115	1	-32.8	116.0	0.07866	0.07505	-35.9	106.1
			C:ETHS/LLGD									1649	
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.02066	0.13510	117.6	373.2	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1		0.01790	0.04595	38.0	124.9	
10675	1892.9	647.9	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-91.1	-239.0	-0.07815	-0.05968	-75.0	-188.0
			C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375					
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		-0.13669	0.13510	117.6	373.4	
10676	1923.6	655.2	L: 135277 FALCONER	115	200579 WARREN	115	1	-31.4	116.0	0.07663	0.07505	-35.9	108.5
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209					
			Open 130755 OAKDL345	345	131128 LAPEER	345	1		-0.00781	-0.20313	-575.7	-966.5	
10677	1929.7	656.7	L: 135277 FALCONER	115	200579 WARREN	115	1	-33.7	116.0	0.07758	0.07505	-35.9	108.9
			C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375					
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.01873	0.13510	117.6	378.3	
10678	1934.2	657.8	*L: 135277 FALCONER	115	200579 WARREN	115	1	-31.5	116.0	0.07627	0.07505	-35.9	109.3
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392					
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1		-0.00672	-0.18174	-652.6	-1004.1	
10697	1974.0	667.2	L: Interface 47 C-PJMWest					-508.1	-0.0	0.25741	0.21524	-543.5	-118.6
			C:ETHS/NWES/LLGD									1648	
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.19169	0.13510	117.6	384.3	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.16723	0.05635	43.0	154.2	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1		0.14912	0.04595	38.0	128.7	
10698	1974.0	667.2	L: Interface 48 PJMWest-C					508.1	0.0	-0.25741	-0.21524	543.5	118.6
			C:ETHS/NWES/LLGD									1648	
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		-0.19169	0.13510	117.6	384.3	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.16723	0.05635	43.0	154.2	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1		-0.14912	0.04595	38.0	128.7	
10705	1978.9	668.4	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-106.7	-239.0	-0.06685	-0.05968	-75.0	-193.1
			C:130814 HILSD115	115	131162 CHEMU115	115	1	311					
			Open 130814 HILSD115	115	131162 CHEMU115	115	1		-0.46401	0.01545	68.3	98.9	
10709	1981.7	669.0	L: 130792 CORN TP2	115	131397 E.ITH115	115	1	68.8	143.0	0.03746	0.01851	37.1	73.8
			C:130787 CODNT115	115	130800 ETNA 115	115	1	255					
			Open 130787 CODNT115	115	130800 ETNA 115	115	1		-0.75959	-0.02495	-41.7	-91.1	
10718	1992.0	671.5	L: 130787 CODNT115	115	130830 MONTR115	115	1	15.5	108.0	0.04642			
			Base Case										
10753	2000.7	673.6	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-105.2	-239.0	-0.06685	-0.05968	-75.0	-194.4
			C:130836 N.WAV115	115	131162 CHEMU115	115	1	347					
			Open 130836 N.WAV115	115	131162 CHEMU115	115	1		0.46401	-0.01545	-65.2	-96.1	
10760	2002.5	674.0	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-110.4	-239.0	-0.06422	-0.05968	-75.0	-194.5
			C:130757 WATRC345	345	130768 WATRC230	230	1	213					
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.13751	0.03295	257.6	323.5	
10825	2015.0	676.9	L: 130830 MONTR115	115	130845 RIDGT115	115	1	60.0	133.0	0.03624	0.03305	48.5	115.1

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				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1											
12057	2025.0	679.3	L:	130807 GOUDY115	115	130848 S.OWE115	115	1		52.8	143.0	0.04455							
				C:130757 WATRC345	345	130768 WATRC230	230	1	213										
				Open 130757 WATRC345	345	130768 WATRC230	230	1											
12094	2025.5	679.4	L:	130807 GOUDY115	115	130838 OAKDL115	115	1		-67.3	-239.0	-0.08477							
				C:BUS:WATERCURE_345					1632										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1											
				Open 130757 WATRC345	345	130768 WATRC230	230	1											
				Open 130755 OAKDL345	345	130757 WATRC345	345	1											
12248	2032.1	681.0	L:	Interface	50	PJMCentral-C				-198.6	-681.0	-0.23740							
				Base Case															
12249	2032.1	681.0	L:	Interface	49	C-PJMCentral				198.6	681.0	0.23740							
				Base Case															
12324	2041.1	683.1	L:	130807 GOUDY115	115	130848 S.OWE115	115	1		26.3	143.0	0.05715							
				C:BUS:WATERCURE_345					1632										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1											
				Open 130757 WATRC345	345	130768 WATRC230	230	1											
				Open 130755 OAKDL345	345	130757 WATRC345	345	1											
12357	2054.1	686.2	L:	136150 CLAY	345	136156 VOLNEY	345	1		-944.4	-1434.0	-0.23835							
				C:136152 ELBRIDGE	345	136154 OSWEGO	345	1	722										
				Open 136152 ELBRIDGE	345	136154 OSWEGO	345	1											
12373	2060.4	687.7	L:	130830 MONTR115	115	130845 RIDGT115	115	1		66.9	133.0	0.03208							
				C:130751 CNDGUA_T	230	130761 AVOCA230	230	1	197										
				Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1											
12374	2060.7	687.8	*L:	130830 MONTR115	115	130845 RIDGT115	115	1		66.9	133.0	0.03208							
				C:SER:MEYER_HILLS_68					1604										
				Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1											
				Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1											
12389	2069.2	689.8	L:	130848 S.OWE115	115	131850 CNYOG115	115	1		20.4	143.0	0.05924							
				C:130763 HILSD230	230	130768 WATRC230	230	1	219										
				Open 130763 HILSD230	230	130768 WATRC230	230	1											
12390	2069.4	689.8	L:	136150 CLAY	345	136156 VOLNEY	345	1		-940.1	-1434.0	-0.23865							
				C:SER:OSWEG->LAFAY					1586										
				Open 136152 ELBRIDGE	345	136153 LAFAYTTE	345	1											
				Open 136152 ELBRIDGE	345	136154 OSWEGO	345	1											
				Open 136152 ELBRIDGE	345	136191 ELBRIDGE	115	1											
12409	2102.1	697.6	L:	131018 LOUNSD115	115	131850 CNYOG115	115	1		-18.5	-143.0	-0.05924							
				C:130763 HILSD230	230	130768 WATRC230	230	1	219										
				Open 130763 HILSD230	230	130768 WATRC230	230	1											
12411	2105.0	698.3	L:	130787 CODNT115	115	130830 MONTR115	115	1		26.5	144.0	0.05583							
				C:BUS:WATERCURE_345					1632										

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			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.02840	0.21524	-543.5	-90.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.10010	0.03295	257.6	326.9
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.02681	0.00000	22.4	22.4
12412	2105.4	698.4	L: 130787 CODNT115	115	130830 MONTR115	115	1	39.7	144.0	0.04952	0.04642	15.5	113.3
			C:130757 WATRC345	345	130768 WATRC230	230	1	213					
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.09401	0.03295	257.6	326.9
12414	2108.2	699.1	L: Interface 48 PJMWest-C					517.9	0.0	-0.24566	-0.21524	543.5	89.8
			C:SER:C398/NWES					1605					
			Open 409 GROVER	230	200675 E.TWANDA	230	1			0.00895	-0.00479	-15.6	-25.7
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.16699	0.13510	117.6	402.5
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			-0.00167	0.00389	-52.1	-43.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.13855	0.05635	43.0	161.8
12415	2108.2	699.1	L: Interface 47 C-PJMWest					-517.9	-0.0	0.24566	0.21524	-543.5	-89.8
			C:SER:C398/NWES					1605					
			Open 409 GROVER	230	200675 E.TWANDA	230	1			-0.00895	-0.00479	-15.6	-25.7
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.16699	0.13510	117.6	402.5
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			0.00167	0.00389	-52.1	-43.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.13855	0.05635	43.0	161.8
12416	2108.3	699.1	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-107.6	-239.0	-0.06233	-0.05968	-75.0	-200.8
			C:130835 N.END115	115	130838 OAKDL115	115	1	343					
			Open 130835 N.END115	115	130838 OAKDL115	115	1			0.82074	-0.00322	-39.7	-46.5
12417	2108.6	699.2	L: Interface 47 C-PJMWest					-517.9	-0.0	0.24563	0.21524	-543.5	-89.7
			C:SER:ETHS/NWES					1606					
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.16695	0.13510	117.6	402.5
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.13898	0.05635	43.0	161.8
12418	2108.6	699.2	L: Interface 48 PJMWest-C					517.9	0.0	-0.24563	-0.21524	543.5	89.7
			C:SER:ETHS/NWES					1606					
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.16695	0.13510	117.6	402.5
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.13898	0.05635	43.0	161.8
12425	2124.5	702.9	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-37.8	-239.0	-0.09470	-0.05968	-75.0	-201.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.14107	0.24819	-263.5	263.7
12426	2126.4	703.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	12.9	143.0	0.06117	0.04090	-16.7	70.2
			C:BUS:WATERCURE_230					1633					
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.24198	-0.05896	71.0	-54.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.18211	0.03295	257.6	327.6
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.12849	0.00000	0.5	0.5
12431	2141.7	707.0	L: Interface 47 C-PJMWest					-487.9	-0.0	0.22782	0.21524	-543.5	-82.6
			C:BUS:WATERCURE_230					1633					
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.08038	-0.05896	71.0	-55.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.23795	0.03295	257.6	328.1
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.06465	0.00000	0.5	0.5

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12432	2141.7	707.0	L: Interface 48 PJMWest-C			487.9	0.0	-0.22782		-0.21524	543.5	82.6		
			C:BUS:WATERCURE_230		1633									
			Open 130768 WATRC230	230	130772 SHRED230	230	1		0.08038	-0.05896	71.0	-55.3		
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.23795	0.03295	257.6	328.1		
			Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.06465	0.00000	0.5	0.5		
12434	2144.8	707.8	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	24.3	112.0	0.04090				
			Base Case											
12439	2158.3	711.0	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	-11.0	-143.0	-0.06117		-0.04090	18.7	-69.6
			C:BUS:WATERCURE_230											
			Open 130768 WATRC230	230	130772 SHRED230	230	1		0.24198	-0.05896	71.0	-56.2		
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.18211	0.03295	257.6	328.7		
			Open 130763 HILSD230	230	130768 WATRC230	230	1		0.12849	0.00000	0.5	0.5		
12449	2180.6	716.3	L: Interface 47 C-PJMWest			-507.8	0.0	0.23288		0.21524	-543.5	-74.2		
			C:130763 HILSD230	230	130768 WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.19194	-0.09191	-186.1	-386.5		
12450	2180.6	716.3	L: Interface 48 PJMWest-C			507.8	-0.0	-0.23288		-0.21524	543.5	74.2		
			C:130763 HILSD230	230	130768 WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1		0.19194	-0.09191	-186.1	-386.5		
12451	2181.0	716.3	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	-3.7	143.0	0.06728		0.04090	24.3	113.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.10628	0.24819	-263.5	277.8		
12458	2196.9	720.1	L: Interface 47 C-PJMWest			-488.4	0.0	0.22230		0.21524	-543.5	-70.7		
			C:130757 WATRC345	345	130768 WATRC230	230	1	213						
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.21423	0.03295	257.6	330.0		
12459	2196.9	720.1	L: Interface 48 PJMWest-C			488.4	-0.0	-0.22230		-0.21524	543.5	70.7		
			C:130757 WATRC345	345	130768 WATRC230	230	1	213						
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.21423	0.03295	257.6	330.0		
12460	2197.4	720.2	L: 130830 MONTR115	115	130844 RIDGR115	115	1	55.2	145.0	0.04085		0.03167	35.0	104.6
			C:BUS:WATERCURE_230											
			Open 130768 WATRC230	230	130772 SHRED230	230	1		-0.09677	-0.05896	71.0	-58.5		
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.10530	0.03295	257.6	330.0		
			Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.09855	0.00000	0.5	0.5		
12461	2201.4	721.2	L: Interface 47 C-PJMWest			-523.9	0.0	0.23799		0.21524	-543.5	-69.7		
			C:ETHS/LLGD											
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.13473	0.13510	117.6	415.1		
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1		0.09905	0.04595	38.0	139.1		
12462	2201.4	721.2	L: Interface 48 PJMWest-C			523.9	-0.0	-0.23799		-0.21524	543.5	69.7		
			C:ETHS/LLGD											
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		-0.13473	0.13510	117.6	415.1		
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1		-0.09905	0.04595	38.0	139.1		
12463	2208.8	722.9	L: 130830 MONTR115	115	130844 RIDGR115	115	1	54.2	145.0	0.04112		0.03167	35.0	105.0
			C:130763 HILSD230	230	130768 WATRC230	230	1	219						

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			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.10281	-0.09191	-186.1	-389.1
12467	2225.4	726.9	L: 130814 HILSD115	115	131162 CHEMU115	115	1	84.4	179.0	0.04250		0.01545	68.3	102.7
			C:130807 GOUDY115	115	130848 S.OWE115	115	1 299							
			Open 130807 GOUDY115	115	130848 S.OWE115	115	1				0.66158	0.04090	24.3	115.3
12472	2247.0	732.0	L: 130787 CODNT115	115	130830 MONTR115	115	1	-6.1	144.0	0.06681		0.04642	15.5	119.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.08214	0.24819	-263.5	294.1
12473	2248.5	732.4	L: 130791 CORN TP1	115	131397 E.ITH115	115	1	-58.8	-143.0	-0.03746		-0.01851	-27.1	-68.7
			C:130787 CODNT115	115	130800 ETNA 115	115	1 255							
			Open 130787 CODNT115	115	130800 ETNA 115	115	1				0.75959	-0.02495	-41.7	-97.8
12474	2249.1	732.5	L: 130787 CODNT115	115	130830 MONTR115	115	1	36.9	144.0	0.04761		0.04642	15.5	119.9
			C:130800 ETNA 115	115	130863 WILET115	115	1 288							
			Open 130800 ETNA 115	115	130863 WILET115	115	1				0.23641	0.00502	90.5	101.8
12480	2279.9	739.8	L: Interface 48 PJMWest-C					528.9	0.0	-0.23200		-0.21524	543.5	52.8
			C:130763 HILSD230	230	200675 E.TWANDA	230	1 1375							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				-0.12409	0.13510	117.6	425.7
12481	2279.9	739.8	L: Interface 47 C-PJMWest					-528.9	-0.0	0.23200		0.21524	-543.5	-52.8
			C:130763 HILSD230	230	200675 E.TWANDA	230	1 1375							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.12409	0.13510	117.6	425.7
12489	2299.3	744.4	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	-81.3	-179.0	-0.04250		-0.01545	-65.2	-100.7
			C:130807 GOUDY115	115	130848 S.OWE115	115	1 299							
			Open 130807 GOUDY115	115	130848 S.OWE115	115	1				-0.66158	0.04090	24.3	118.3
12491	2301.5	745.0	L: Interface 47 C-PJMWest					-562.8	-0.0	0.24453		0.21524	-543.5	-48.2
			C:LKWANA-OXBW				1651							
			Open 417 OXBOW	230	3070 LACKAWNA	230	1				0.16069	0.18226	-119.7	299.7
12492	2301.5	745.0	L: Interface 48 PJMWest-C					562.8	0.0	-0.24453		-0.21524	543.5	48.2
			C:LKWANA-OXBW				1651							
			Open 417 OXBOW	230	3070 LACKAWNA	230	1				-0.16069	0.18226	-119.7	299.7
12493	2303.6	745.5	L: 130830 MONTR115	115	130844 RIDGR115	115	1	35.0	108.0	0.03167				
			Base Case											
12494	2319.3	749.2	*L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-102.8	-239.0	-0.05871		-0.05968	-75.0	-213.4
			C:130750 COOPC345	345	130753 FRASR345	345	1 192							
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.02793	0.03498	-997.1	-915.9
12496	2320.8	749.5	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	30.5	143.0	0.04846		0.04090	24.3	119.2
			C:130807 GOUDY115	115	200680 LAUREL L	115	1 1376							
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1				0.16462	0.04595	38.0	144.6
12498	2326.8	751.0	L: 130787 CODNT115	115	130830 MONTR115	115	1	33.2	144.0	0.04761		0.04642	15.5	123.5
			C:130796 E.NOR115	115	130863 WILET115	115	1 277							
			Open 130796 E.NOR115	115	130863 WILET115	115	1				-0.23641	-0.00502	-74.9	-86.5
12500	2333.7	752.6	*L: Interface 48 PJMWest-C					565.8	0.0	-0.24245		-0.21524	543.5	41.2
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL				1650							
			Open 505 SHELOCTA	230	521 KEYSTONE	230	1				0.16584	-0.13775	50.1	-271.4

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		Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1				0.13926	-0.03135	100.2	27.1
12501	2333.7	752.6*L:	Interface	47	C-PJMWest					-565.8	-0.0	0.24245		0.21524	-543.5	-41.2
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL						1650							
		Open	505	SHELOCTA	230	521	KEYSTONE	230	1				-0.16584	-0.13775	50.1	-271.4
		Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1				-0.13926	-0.03135	100.2	27.1
12507	2342.7	754.7	L: 136150	CLAY	345	136156	VOLNEY	345	1	-930.1	-1434.0	-0.21511		-0.18049	-705.9	-1128.7
			C:136150	CLAY	345	136157	9MI PT1	345	1	711						
		Open	136150	CLAY		345	136157	9MI PT1	345	1			0.34265	-0.10105	-654.3	-891.0
12533	2409.0	770.5	L: 136150	CLAY	345	136156	VOLNEY	345	1	-943.5	-1434.0	-0.20360		-0.18049	-705.9	-1140.7
			C:136156	VOLNEY	345	147833	MARCY T1	345	1	734						
		Open	136156	VOLNEY		345	147833	MARCY T1	345	1			-0.30016	0.07699	791.7	977.2
12544	2433.7	776.3	L: 130824	LAPER115	115	136247	TULLER H	115	1	-42.5	-145.0	-0.04211		-0.01997	37.0	-11.6
			C:131128	LAPEER	345	136153	LAFAYTTE	345	1	392						
		Open	131128	LAPEER		345	136153	LAFAYTTE	345	1			0.12181	-0.18174	-652.6	-1094.8
12546	2438.3	777.4	L: 130787	CODNT115	115	130830	MONTR115	115	1	21.4	144.0	0.05029		0.04642	15.5	128.7
			C:130776	BORDR115	115	130823	GUARD115	115	1	237						
		Open	130776	BORDR115		115	130823	GUARD115	115	1			0.22235	0.01739	26.3	68.7
12547	2438.6	777.5*L:	130787	CODNT115	115	130830	MONTR115	115	1	21.4	144.0	0.05029		0.04642	15.5	128.7
			C:130809	HALEY115	115	130823	GUARD115	115	1	301						
		Open	130809	HALEY115		115	130823	GUARD115	115	1			-0.22235	-0.01739	-26.3	-68.7
12560	2447.9	779.7*L:	130807	GOUDY115	115	130848	S.OWE115	115	1	29.2	143.0	0.04651		0.04090	24.3	124.4
			C:130763	HILSD230	230	200675	E.TWANDA	230	1	1375						
		Open	130763	HILSD230		230	200675	E.TWANDA	230	1			0.04149	0.13510	117.6	448.4
12594	2476.2	786.4	L: 130787	CODNT115	115	130791	CORN TP1	115	1	-45.3	-143.0	-0.03946		-0.02051	-13.6	-64.4
			C:130787	CODNT115	115	130800	ETNA	115	1	255						
		Open	130787	CODNT115		115	130800	ETNA	115	1			0.75959	-0.02495	-41.7	-103.5
12726	2509.7	794.4	L: 130814	HILSD115	115	130844	RIDGR115	115	1	-27.5	-145.0	-0.04683		-0.03020	-3.1	-78.9
			C:130830	MONTR115	115	130845	RIDGT115	115	1	334						
		Open	130830	MONTR115		115	130845	RIDGT115	115	1			-0.50307	0.03305	48.5	131.5
12825	2516.0	795.9	L: 130848	S.OWE115	115	131850	CNYOG115	115	1	-2.4	143.0	0.05779		0.04090	-16.7	86.2
			C:ETHS/LLGD						1649							
		Open	130763	HILSD230		230	200675	E.TWANDA	230	1			0.06154	0.13510	117.6	457.6
		Open	130807	GOUDY115		115	200680	LAUREL L	115	1			0.18664	0.04595	38.0	153.6
12842	2516.8	796.1	L: 130814	HILSD115	115	130844	RIDGR115	115	1	-38.0	-145.0	-0.04252		-0.03020	-3.1	-79.1
			C:130755	OAKDL345	345	131128	LAPEER	345	1	209						
		Open	130755	OAKDL345		345	131128	LAPEER	345	1			0.06064	-0.20313	-575.7	-1087.0
16119	2549.7	803.9	L: 131018	LOUN5115	115	131850	CNYOG115	115	1	4.4	-143.0	-0.05779		-0.04090	18.7	-85.6
			C:ETHS/LLGD						1649							
		Open	130763	HILSD230		230	200675	E.TWANDA	230	1			-0.06154	0.13510	117.6	462.1
		Open	130807	GOUDY115		115	200680	LAUREL L	115	1			-0.18664	0.04595	38.0	155.1
17625	2591.4	813.8	L: 130848	S.OWE115	115	131850	CNYOG115	115	1	17.2	143.0	0.04856		0.04090	-16.7	89.3
			C:130814	HILSD115	115	131162	CHEMU115	115	1	311						

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			Open 130814 HILSD115	115	131162	CHEMU115	115	1				0.49588	0.01545	68.3	108.4
17692	2623.4	821.4	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	15.6	143.0	0.04856		0.04090	-16.7	90.6
			C:130836 N.WAV115	115	131162	CHEMU115	115	1							
			Open 130836 N.WAV115	115	131162	CHEMU115	115	1				-0.49588	-0.01545	-65.2	-105.7
17701	2631.5	823.3	L: 131018 LOUNSD115	115	131850	CNYOG115	115	1	-15.2	-143.0	-0.04856		-0.04090	18.7	-89.0
			C:130814 HILSD115	115	131162	CHEMU115	115	1							
			Open 130814 HILSD115	115	131162	CHEMU115	115	1				-0.49588	0.01545	68.3	109.0
17706	2635.4	824.2	L: 130830 MONTR115	115	130844	RIDGR115	115	1	54.6	145.0	0.03430		0.03167	35.0	118.5
			C:BUS:WATERCURE_345												
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.00043	0.21524	-543.5	23.7
			Open 130757 WATRC345	345	130768	WATRC230	230	1				0.07684	0.03295	257.6	344.4
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.00082	0.00000	22.4	22.4
17708	2637.1	824.6	L: 130830 MONTR115	115	130844	RIDGR115	115	1	54.8	145.0	0.03420		0.03167	35.0	118.6
			C:130757 WATRC345	345	130768	WATRC230	230	1							
			Open 130757 WATRC345	345	130768	WATRC230	230	1				0.07675	0.03295	257.6	344.5
17710	2637.6	824.7	L: 136158 INDEPNDC	345	136719	SITH-S5	18.0	1	-161.9	-255.0	-0.03528		-0.03528	-161.9	-254.9
			C:GEN:SEAB&OMS												
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch								
17711	2637.6	824.7	L: 136158 INDEPNDC	345	136719	SITH-S5	18.0	1	-161.9	-255.0	-0.03528		-0.03528	-161.9	-254.9
			C:GEN:SEABROOK												
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch								
17712	2637.6	824.7	L: 136158 INDEPNDC	345	136720	SITH-S6	18.0	1	-161.9	-255.0	-0.03528		-0.03528	-161.9	-254.9
			C:GEN:SEAB&OMS												
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch								
17713	2637.6	824.7	L: 136158 INDEPNDC	345	136720	SITH-S6	18.0	1	-161.9	-255.0	-0.03528		-0.03528	-161.9	-254.9
			C:GEN:SEABROOK												
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch								
17714	2637.6	824.8	L: 136158 INDEPNDC	345	136719	SITH-S5	18.0	1	-161.9	-255.0	-0.03528		-0.03528	-161.9	-254.9
			C:GEN:MLS3&OMS												
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch								
17715	2637.6	824.8	L: 136158 INDEPNDC	345	136720	SITH-S6	18.0	1	-161.9	-255.0	-0.03528		-0.03528	-161.9	-254.9
			C:GEN:MILLST 3												
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch								
17716	2637.6	824.8	L: 136158 INDEPNDC	345	136719	SITH-S5	18.0	1	-161.9	-255.0	-0.03528		-0.03528	-161.9	-254.9
			C:GEN:MILLST 3												
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch								
17717	2637.6	824.8	L: 136158 INDEPNDC	345	136720	SITH-S6	18.0	1	-161.9	-255.0	-0.03528		-0.03528	-161.9	-254.9
			C:GEN:MLS3&OMS												
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.1	-0.1

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						Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
17718	2637.8	824.8	L:	136158	INDEPNDC	345 136719 SITH-S5	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9	
						C:GEN:9 MI PT2						1561				
						Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch						
17719	2637.8	824.8	L:	136158	INDEPNDC	345 136720 SITH-S6	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9	
						C:GEN:9 MI PT2						1561				
						Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch						
17720	2637.9	824.8	L:	136158	INDEPNDC	345 136720 SITH-S6	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9	
						C:GEN:SALEM						1567				
						Remove unit 1 from bus 36 SALEM-G1	22.0	1117.3	MW	dispatch						
17721	2637.9	824.8	L:	136158	INDEPNDC	345 136719 SITH-S5	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9	
						C:GEN:SALEM						1567				
						Remove unit 1 from bus 36 SALEM-G1	22.0	1117.3	MW	dispatch						
17722	2638.0	824.8	L:	136158	INDEPNDC	345 136719 SITH-S5	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9	
						C:GEN:IND PT 3						1555				
						Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW	dispatch						
17723	2638.0	824.8	L:	136158	INDEPNDC	345 136720 SITH-S6	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9	
						C:GEN:IND PT 3						1555				
						Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW	dispatch						
17724	2638.0	824.8	L:	136158	INDEPNDC	345 136720 SITH-S6	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9	
						C:GEN:PEACHBTM						1568				
						Remove unit 1 from bus 34 PCHBTM 2	22.0	1060.3	MW	dispatch						
17725	2638.0	824.8	L:	136158	INDEPNDC	345 136719 SITH-S5	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9	
						C:GEN:PEACHBTM						1568				
						Remove unit 1 from bus 34 PCHBTM 2	22.0	1060.3	MW	dispatch						
17726	2638.0	824.9	L:	136158	INDEPNDC	345 136720 SITH-S6	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9	
						C:GEN:IND PT 2						1554				
						Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7	MW	dispatch						
17727	2638.0	824.9	L:	136158	INDEPNDC	345 136719 SITH-S5	18.0	1		-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9	
						C:GEN:IND PT 2						1554				
						Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7	MW	dispatch						
17728	2638.1	824.9*L:	136158	INDEPNDC	345 136719 SITH-S5	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9	
						C:GEN:IND PT 3-New						1775				
						Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		0.00000	0.00000	522.5	522.5
						Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		0.00006	0.00000	-1041.8	-1041.8
17729	2638.1	824.9*L:	136158	INDEPNDC	345 136720 SITH-S6	18.0	1			-161.9	-255.0	-0.03528	-0.03528	-161.9	-254.9	
						C:GEN:IND PT 3-New						1775				
						Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		0.00000	0.00000	522.5	522.5
						Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		0.00006	0.00000	-1041.8	-1041.8
21282	2663.6	830.9	L:	131018	LOUNSI115	115 131850 CNYOG115	115	1		-13.7	-143.0	-0.04856	-0.04090	18.7	-90.3	
						C:130836 N.WAV115	115	131162	CHEMU115	115	1	347				
						Open 130836 N.WAV115	115	131162	CHEMU115	115	1		0.49588	-0.01545	-65.2	-106.3

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21303	2668.3	832.0	L: 130836 N.WAV115	115	131018 LOUNSD115	115	1	-14.9	-173.0	-0.05924	-0.04090	22.2	-86.9
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.19959	-0.09191	-186.1	-431.3
21383	2704.3	840.6	L: 130763 HILSD230	230	200675 E.TWANDA	230	1	117.6	483.0	0.13510			
			Base Case										
21398	2706.7	841.2	L: 130836 N.WAV115	115	131018 LOUNSD115	115	1	-7.4	-173.0	-0.06117	-0.04090	22.2	-88.5
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.24198	-0.05896	71.0	-88.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.18211	0.03295	257.6	346.8
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.12849	0.00000	0.5	0.5
21441	2721.4	844.6	L: 130830 MONTR115	115	130844 RIDGR115	115	1	19.8	145.0	0.04599	0.03167	35.0	121.2
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.05770	0.24819	-263.5	411.9
21495	2731.2	847.0	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-75.0	-238.0	-0.05968			
			Base Case										
21579	2738.2	848.6	L: 136150 CLAY	345	136156 VOLNEY	345	1	-833.0	-1434.0	-0.21947	-0.18049	-705.9	-1200.1
			C:136152 ELBRIDGE	345	136153 LAFAYTTE	345	1 721						
			Open 136152 ELBRIDGE	345	136153 LAFAYTTE	345	1			-0.27186	0.14340	467.7	860.4
21639	2741.2	849.3	L: 136184 CORTLAND	115	136247 TULLER H	115	1	43.6	159.0	0.04211	0.01997	-35.9	18.8
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1 392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			-0.12181	-0.18174	-652.6	-1150.7
23101	2758.6	853.5	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-14.7	143.0	0.05715	0.04090	-16.7	96.1
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.05669	0.21524	-543.5	50.2
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.12286	0.03295	257.6	348.5
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.05534	0.00000	22.4	22.4
24580	2783.7	859.4	L: 130830 MONTR115	115	130844 RIDGR115	115	1	29.5	145.0	0.04149	0.03167	35.0	123.2
			C:130814 HILSD115	115	130845 RIDGT115	115	1 310						
			Open 130814 HILSD115	115	130845 RIDGT115	115	1			-0.35028	-0.02802	15.8	-62.2
24609	2790.4	861.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-44.7	143.0	0.06728	0.04090	-16.7	97.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.10628	0.24819	-263.5	429.0
24620	2792.7	861.6	L: 131018 LOUNSD115	115	131850 CNYOG115	115	1	16.6	-143.0	-0.05715	-0.04090	18.7	-95.5
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.05669	0.21524	-543.5	57.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.12286	0.03295	257.6	349.6
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.05534	0.00000	22.4	22.4
24688	2819.4	867.9	L: 131018 LOUNSD115	115	131850 CNYOG115	115	1	46.7	-143.0	-0.06728	-0.04090	18.7	-96.6
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.10628	0.24819	-263.5	436.2
24727	2840.4	872.9	L: 130830 MONTR115	115	130844 RIDGR115	115	1	46.2	145.0	0.03478	0.03167	35.0	125.0
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1 392						

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			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				-0.01711	-0.18174	-652.6	-1168.8
24785	2863.7	878.4	L: 130814 HILSD115	115	131162 CHEMU115	115	1	57.3	179.0	0.04250		0.01545	68.3	112.6
			C:130848 S.OWE115	115	131850 CNYOG115	115	1							
			Open 130848 S.OWE115	115	131850 CNYOG115	115	1				0.66158	0.04090	-16.7	100.4
24918	2894.0	885.6	L: 130814 HILSD115	115	131162 CHEMU115	115	1	56.0	179.0	0.04250		0.01545	68.3	113.0
			C:131018 LOUNS115	115	131850 CNYOG115	115	1							
			Open 131018 LOUNS115	115	131850 CNYOG115	115	1				-0.66158	-0.04090	18.7	-99.7
26435	2937.5	896.0	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	-54.1	-179.0	-0.04250		-0.01545	-65.2	-110.6
			C:130848 S.OWE115	115	131850 CNYOG115	115	1							
			Open 130848 S.OWE115	115	131850 CNYOG115	115	1				-0.66158	0.04090	-16.7	103.4
26442	2945.4	897.8	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	11.8	143.0	0.04455		0.04090	-16.7	103.7
			C:130757 WATRC345	345	130768 WATRC230	230	1							
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.11071	0.03295	257.6	354.6
26445	2949.2	898.7	L: 130814 HILSD115	115	131162 CHEMU115	115	1	53.6	179.0	0.04250		0.01545	68.3	113.9
			C:130836 N.WAV115	115	131018 LOUNS115	115	1							
			Open 130836 N.WAV115	115	131018 LOUNS115	115	1				-0.66158	-0.04090	22.2	-98.4
26459	2967.9	903.2	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	-52.9	-179.0	-0.04250		-0.01545	-65.2	-111.0
			C:131018 LOUNS115	115	131850 CNYOG115	115	1							
			Open 131018 LOUNS115	115	131850 CNYOG115	115	1				0.66158	-0.04090	18.7	-102.7
26460	2968.2	903.2	L: 136152 ELBRIDGE	345	136154 OSWEGO	345	1	-701.1	-1206.0	-0.17010				
			Base Case											
26469	2974.4	904.7	L: 130755 OAKDL345	345	131128 LAPEER	345	1	-732.8	-1380.0	-0.21758		-0.20313	-575.7	-1179.9
			C:130753 FRASR345	345	137200 EDIC	345	1							
			Open 130753 FRASR345	345	137200 EDIC	345	1				0.22229	-0.06501	-706.7	-900.1
26475	2989.1	908.2	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	-9.8	-143.0	-0.04455		-0.04090	18.7	-103.6
			C:130757 WATRC345	345	130768 WATRC230	230	1							
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.11071	0.03295	257.6	356.1
26477	2990.4	908.5	L: 136150 CLAY	345	136156 VOLNEY	345	1	-791.4	-1434.0	-0.21490		-0.18049	-705.9	-1245.6
			C:GEN:9 MI PT1				1560							
			Open 136150 CLAY	345	136157 9MI PT1	345	1				0.34265	-0.10105	-654.3	-956.5
			Open 136155 SCRIBA	345	136157 9MI PT1	345	1				-0.22452	-0.00093	14.9	12.2
			Remove unit 1 from bus	136701	9M PT 1G	23.0	642.4	MW	dispatch					
26479	2992.0	908.9	*L: 130830 MONTR115	115	130844 RIDGR115	115	1	53.1	145.0	0.03072		0.03167	35.0	129.8
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1							
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1				0.13399	-0.00710	134.7	113.4
26498	3013.0	913.9	L: 131128 LAPEER	345	136153 LAFAYTTE	345	1	-793.4	-1380.0	-0.19469		-0.18174	-652.6	-1200.1
			C:130753 FRASR345	345	137200 EDIC	345	1							
			Open 130753 FRASR345	345	137200 EDIC	345	1				0.19928	-0.06501	-706.7	-902.6
26504	3023.1	916.3	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	-50.5	-179.0	-0.04250		-0.01545	-65.2	-111.9
			C:130836 N.WAV115	115	131018 LOUNS115	115	1							
			Open 130836 N.WAV115	115	131018 LOUNS115	115	1				0.66158	-0.04090	22.2	-101.4
26526	3067.6	926.8	L: 130816 HYATT115	115	136191 ELBRIDGE	115	1	-55.6	-160.0	-0.03403		-0.02856	-36.0	-123.6

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			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392											
			Open 131128 LAPEER		345 136153 LAFAYTTE		345	1				0.03011	-0.18174	-652.6	-1210.0				
26537	3103.3	935.3	L: 136150 CLAY	345	136156 VOLNEY	345	1		-842.2	-1434.0	-0.19069		-0.18049	-705.9	-1266.0				
			C:137200 EDIC	345	147830 JA FITZP	345	1	947											
			Open 137200 EDIC		345 147830 JA FITZP		345	1				0.17592	-0.05798	-775.2	-955.1				
26547	3130.3	941.7	L: 130836 N.WAV115	115	131018 LOUN115	115	1		7.9	-173.0	-0.05779		-0.04090	22.2	-105.8				
			C:ETHS/LLGD					1649											
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1					-0.06154	0.13510	117.6	540.5				
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1					-0.18664	0.04595	38.0	181.8				
26551	3146.3	945.5	L: 130814 HILSD115	115	130844 RIDGR115	115	1		-22.4	-145.0	-0.03897		-0.03020	-3.1	-98.1				
			C:BUS:WATERCURE_230					1633											
			Open 130768 WATRC230	230	130772 SHRED230	230	1					0.09253	-0.05896	71.0	-114.5				
			Open 130757 WATRC345	345	130768 WATRC230	230	1					-0.10066	0.03295	257.6	361.2				
			Open 130763 HILSD230	230	130768 WATRC230	230	1					0.09422	0.00000	0.5	0.5				
26552	3147.4	945.8	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-16.7	112.0	0.04090								
			Base Case																
26553	3151.5	946.7	L: 130814 HILSD115	115	130844 RIDGR115	115	1		-21.4	-145.0	-0.03923		-0.03020	-3.1	-98.2				
			C:130763 HILSD230	230	130768 WATRC230	230	1	219											
			Open 130763 HILSD230	230	130768 WATRC230	230	1					0.09828	-0.09191	-186.1	-475.7				
26560	3166.8	950.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-10.5	143.0	0.04846		0.04090	-16.7	112.8				
			C:130807 GOUDY115	115	200680 LAUREL L	115	1	1376											
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1					0.16462	0.04595	38.0	183.5				
26571	3195.0	957.1	L: 131018 LOUN115	115	131850 CNYOG115	115	1		18.7	-112.0	-0.04090								
			Base Case																
26576	3207.0	959.9	L: 131018 LOUN115	115	131850 CNYOG115	115	1		12.4	-143.0	-0.04846		-0.04090	18.7	-112.5				
			C:130807 GOUDY115	115	200680 LAUREL L	115	1	1376											
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1					-0.16462	0.04595	38.0	185.3				
26583	3243.3	968.5	L: 130814 HILSD115	115	130845 RIDGT115	115	1		-16.8	-145.0	-0.03952		-0.02802	15.8	-75.1				
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1					0.05662	-0.20313	-575.7	-1234.6				
26595	3276.7	976.5	L: 135277 FALCONER	115	200579 WARREN	115	1		-35.9	210.0	0.07505								
			Base Case																
26596	3276.8	976.5	L: 130816 HYATT115	115	136191 ELBRIDGE	115	1		-50.1	-160.0	-0.03354		-0.02856	-36.0	-129.5				
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1					0.02454	-0.20313	-575.7	-1241.3				
26601	3293.4	980.4	L: 136152 ELBRIDGE	345	136153 LAFAYTTE	345	1		467.7	940.0	0.14340								
			Base Case																
26612	3314.9	985.5	L: 131128 LAPEER	345	136153 LAFAYTTE	345	1		-652.6	-1255.0	-0.18174								
			Base Case																
26613	3318.1	986.3	L: 130836 N.WAV115	115	131018 LOUN115	115	1		50.2	-173.0	-0.06728		-0.04090	22.2	-113.5				
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206											
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					-0.10628	0.24819	-263.5	560.0				

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26615	3322.4	987.3	L: 130836 N.WAV115	115	131018 LOUNSD115	115	1	-11.7	-173.0	-0.04856	-0.04090	22.2	-113.7
			C:130814 HILSD115	115	131162 CHEMU115	115	1 311						
			Open 130814 HILSD115	115	131162 CHEMU115	115	1			-0.49588	0.01545	68.3	119.7
26617	3329.6	989.0	*L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-11.8	143.0	0.04651	0.04090	-16.7	119.5
			C:130763 HILSD230	230	200675 E.TWANDA	230	1 1375						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.04149	0.13510	117.6	567.5
26622	3344.0	992.4	L: 130755 OAKDL345	345	131128 LAPEER	345	1	-575.7	-1255.0	-0.20313			
			Base Case										
26623	3344.2	992.5	L: 130816 HYATT115	115	136191 ELBRIDGE	115	1	-39.2	-160.0	-0.03612	-0.02856	-36.0	-131.5
			C:136150 CLAY	345	149001 PANNELL3	345	2 718						
			Open 136150 CLAY	345	149001 PANNELL3	345	2			-0.03648	0.20732	88.8	782.1
26625	3346.8	993.1	L: 136150 CLAY	345	136156 VOLNEY	345	1	-715.1	-1434.0	-0.21479	-0.18049	-705.9	-1309.9
			C:136155 SCRIBA	345	136157 9MI PT1	345	1 729						
			Open 136155 SCRIBA	345	136157 9MI PT1	345	1			-0.34265	0.10012	27.0	362.1
26626	3348.2	993.4	L: 130816 HYATT115	115	136191 ELBRIDGE	115	1	-39.2	-160.0	-0.03608	-0.02856	-36.0	-131.6
			C:136150 CLAY	345	149001 PANNELL3	345	1 717						
			Open 136150 CLAY	345	149001 PANNELL3	345	1			-0.03642	0.20665	88.5	780.4
26630	3354.4	994.9	L: 130836 N.WAV115	115	131018 LOUNSD115	115	1	-10.1	-173.0	-0.04856	-0.04090	22.2	-115.0
			C:130836 N.WAV115	115	131162 CHEMU115	115	1 347						
			Open 130836 N.WAV115	115	131162 CHEMU115	115	1			0.49588	-0.01545	-65.2	-117.0
26634	3371.5	999.0	*L: 131018 LOUNSD115	115	131850 CNYOG115	115	1	13.8	-143.0	-0.04651	-0.04090	18.7	-119.2
			C:130763 HILSD230	230	200675 E.TWANDA	230	1 1375						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.04149	0.13510	117.6	573.1
26641	3379.8	1000.9	L: 130836 N.WAV115	115	131018 LOUNSD115	115	1	20.2	-173.0	-0.05715	-0.04090	22.2	-116.0
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.05669	0.21524	-543.5	183.9
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.12286	0.03295	257.6	368.9
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.05534	0.00000	22.4	22.4
26645	3385.1	1002.2	L: 130814 HILSD115	115	130845 RIDGT115	115	1	-0.5	-145.0	-0.04270	-0.02802	15.8	-79.1
			C:130830 MONTR115	115	130844 RIDGR115	115	1 333						
			Open 130830 MONTR115	115	130844 RIDGR115	115	1			-0.46344	0.03167	35.0	142.3
26653	3411.3	1008.4	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	11.3	499.0	0.14296			
			Base Case										
26659	3423.1	1011.2	L: 130755 OAKDL345	345	131128 LAPEER	345	1	-675.4	-1380.0	-0.20582	-0.20313	-575.7	-1271.1
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.09491	-0.02831	-916.1	-1013.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.10706	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00074	-0.00001	88.8	88.7
26660	3423.2	1011.2	L: 130755 OAKDL345	345	131128 LAPEER	345	1	-675.4	-1380.0	-0.20582	-0.20313	-575.7	-1271.1
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.09491	-0.02831	-916.1	-1013.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.10715	0.00000	119.9	119.9

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			Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00111	-0.00002	74.8	74.8	
26707	3444.1	1016.2	L: 131128 LAPEER	345	136153 LAFAYTTE	345	1	-745.5	-1380.0	-0.18424	-0.18174	-652.6	-1278.5
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.08839	-0.02831	-916.1	-1013.6	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.09954	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	147905 ILION	115	1		0.00006	-0.00001	88.8	88.7	
26708	3444.1	1016.2	L: 131128 LAPEER	345	136153 LAFAYTTE	345	1	-745.5	-1380.0	-0.18424	-0.18174	-652.6	-1278.5
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.08839	-0.02831	-916.1	-1013.6	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.09955	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00009	-0.00002	74.8	74.8	
26722	3450.1	1017.6	L: 130755 OAKDL345	345	131128 LAPEER	345	1	-669.2	-1380.0	-0.20601	-0.20313	-575.7	-1276.6
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196					
			Open 130750 COOPC345	345	147833 MARCY T1	345	1		0.12652	-0.02271	-739.1	-817.5	
26760	3456.2	1019.1	L: 131128 LAPEER	345	136153 LAFAYTTE	345	1	-726.9	-1380.0	-0.18897	-0.18174	-652.6	-1280.7
			C:136156 VOLNEY	345	147833 MARCY T1	345	1	734					
			Open 136156 VOLNEY	345	147833 MARCY T1	345	1		-0.09389	0.07699	791.7	1057.8	
26777	3459.1	1019.8	L: 130763 HILSD230	230	130768 WATRC230	230	1	-186.1	-504.0	-0.09191			
			Base Case										
28104	3474.5	1023.4	L: 130755 OAKDL345	345	131128 LAPEER	345	1	-649.3	-1380.0	-0.21029	-0.20313	-575.7	-1281.5
			C:136156 VOLNEY	345	147833 MARCY T1	345	1	734					
			Open 136156 VOLNEY	345	147833 MARCY T1	345	1		-0.09298	0.07699	791.7	1059.2	
28106	3474.5	1023.4	L: 130814 HILSD115	115	130844 RIDGR115	115	1	-3.1	-108.0	-0.03020			
			Base Case										
28190	3479.0	1024.5	L: 131128 LAPEER	345	136153 LAFAYTTE	345	1	-738.5	-1380.0	-0.18438	-0.18174	-652.6	-1284.8
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196					
			Open 130750 COOPC345	345	147833 MARCY T1	345	1		0.11633	-0.02271	-739.1	-818.2	
28207	3482.3	1025.3	L: 130755 OAKDL345	345	131128 LAPEER	345	1	-664.4	-1380.0	-0.20550	-0.20313	-575.7	-1283.1
			C:SIN:150				1669						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.09278	0.02549	819.4	908.2	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.10595	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	147905 ILION	115	1		0.00074	-0.00001	88.8	88.7	
28208	3482.3	1025.3	L: 130755 OAKDL345	345	131128 LAPEER	345	1	-664.4	-1380.0	-0.20550	-0.20313	-575.7	-1283.1
			C:SIN:160				1670						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.09278	0.02549	819.4	908.2	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.10604	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00111	-0.00002	74.8	74.8	
28268	3495.6	1028.4	L: 130816 HYATT115	115	136191 ELBRIDGE	115	1	-47.6	-160.0	-0.03214	-0.02856	-36.0	-135.8
			C:136152 ELBRIDGE	345	136153 LAFAYTTE	345	1	721					
			Open 136152 ELBRIDGE	345	136153 LAFAYTTE	345	1		-0.02498	0.14340	467.7	969.0	
28286	3504.8	1030.6	L: 130755 OAKDL345	345	131128 LAPEER	345	1	-659.0	-1380.0	-0.20571	-0.20313	-575.7	-1287.7
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012					

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			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.09095	-0.02831	-916.1	-1015.3	
28288	3506.0	1030.9	L: 131128 LAPEER	345	136153 LAFAYTTE	345	1	-735.1	-1380.0	-0.18394	-0.18174	-652.6	-1289.7
			C:SIN:150				1669						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.08635	0.02549	819.4	908.8	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.09850	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	147905 ILION	115	1		0.00006	-0.00001	88.8	88.7	
28289	3506.0	1030.9	L: 131128 LAPEER	345	136153 LAFAYTTE	345	1	-735.1	-1380.0	-0.18394	-0.18174	-652.6	-1289.7
			C:SIN:160				1670						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.08635	0.02549	819.4	908.8	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.09851	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00009	-0.00002	74.8	74.8	
28302	3515.5	1033.2	L: 130816 HYATT115	115	136191 ELBRIDGE	115	1	-48.6	-160.0	-0.03168	-0.02856	-36.0	-136.4
			C:130855 STATE115	115	136191 ELBRIDGE	115	1	364					
			Open 130855 STATE115	115	136191 ELBRIDGE	115	1		0.17127	-0.01821	-74.0	-138.0	
28307	3516.4	1033.4	L: 130755 OAKDL345	345	131128 LAPEER	345	1	-657.1	-1380.0	-0.20557	-0.20313	-575.7	-1290.0
			C:BUS:N.S._77				1614						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.01313	0.01281	-248.0	-203.0	
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.02689	-0.00075	111.8	109.2	
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.10180	0.02549	819.4	909.1	
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.02433	-0.00048	-92.7	-94.4	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		0.00369	0.00000	-0.0	-0.0	
28312	3523.6	1035.1	*L: 130755 OAKDL345	345	131128 LAPEER	345	1	-649.1	-1380.0	-0.20742	-0.20313	-575.7	-1291.5
			C:BUS:N.S._99				1615						
			Open 137453 N.SCOT99	345	147831 GILB	345	1		-0.06054	0.02921	-310.7	-207.8	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.07679	-0.02831	-916.1	-1015.8	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		0.00730	-0.00083	118.7	115.8	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.02645	-0.01274	-858.5	-903.4	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.02316	0.00000	1.6	1.6	
28319	3529.3	1036.4	L: 131128 LAPEER	345	136153 LAFAYTTE	345	1	-730.1	-1380.0	-0.18414	-0.18174	-652.6	-1294.0
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012					
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.08469	-0.02831	-916.1	-1016.0	
28320	3533.4	1037.4	*L: 136150 CLAY	345	136156 VOLNEY	345	1	-777.0	-1434.0	-0.18593	-0.18049	-705.9	-1343.6
			C:136154 OSWEGO	345	136225 OSW 3&4	115	1	726					
			Open 136154 OSWEGO	345	136225 OSW 3&4	115	1		-0.25961	0.02096	274.1	348.2	
28323	3539.7	1038.9	L: 131128 LAPEER	345	136153 LAFAYTTE	345	1	-728.7	-1380.0	-0.18400	-0.18174	-652.6	-1295.9
			C:BUS:N.S._77				1614						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.01247	0.01281	-248.0	-202.7	
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.02302	-0.00075	111.8	109.1	
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.09460	0.02549	819.4	909.6	
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.02038	-0.00048	-92.7	-94.4	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		-0.00205	0.00000	-0.0	-0.0	
28327	3543.6	1039.8	*L: 131128 LAPEER	345	136153 LAFAYTTE	345	1	-722.2	-1380.0	-0.18563	-0.18174	-652.6	-1296.6

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			C:BUS:N.S._99											1615			
			Open 137453 N.SCOT99	345	147831	GILB	345	345	1					-0.05278	0.02921	-310.7	-207.2
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	345	1					0.07217	-0.02831	-916.1	-1016.4
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	115	1					0.00532	-0.00083	118.7	115.7
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	345	2					0.02390	-0.01274	-858.5	-903.6
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	345	1					-0.02616	0.00000	1.6	1.6
28339	3565.3	1045.0	L: 130814 HILSD115	115	130844	RIDGR115	115	115	1	11.5	-145.0	-0.04388		-0.03020	-3.1	-110.7	
			C:130755 OAKDL345	345	130757	WATRC345	345	345	1								
			Open 130755 OAKDL345	345	130757	WATRC345	345	345	1					-0.05514	0.24819	-263.5	621.3
28340	3566.6	1045.3	L: 135251 S RIPLEY	230	200654	ERIE E	230	230	1	-114.5	637.0	0.21070		0.14296	11.3	521.2	
			C:SER:HC-SR_37&W-F_171														
			Open 135398 SW345	345	200769	HOMER CY	345	345	1					0.28847	0.11431	-378.4	29.3
			Open 135277 FALCONER	115	200579	WARREN	115	115	1					0.46324	0.07505	-35.9	231.8
28351	3591.3	1051.2	L: 135460 PACK(N)E	115	147850	NIAG115E	115	115	2	-218.9	-328.0	-0.03039		-0.01896	-136.5	-204.6	
			C:135460 PACK(N)E	115	147850	NIAG115E	115	115	1								
			Open 135460 PACK(N)E	115	147850	NIAG115E	115	115	1					0.63484	-0.01801	-129.7	-194.4
28352	3593.9	1051.8	L: 135251 S RIPLEY	230	200654	ERIE E	230	230	1	-49.3	637.0	0.19097		0.14296	11.3	525.1	
			C:SER:HC-WC_30&W-F_171														
			Open 130757 WATRC345	345	200769	HOMER CY	345	345	1					0.08545	0.21524	-543.5	230.0
			Open 135277 FALCONER	115	200579	WARREN	115	115	1					0.39454	0.07505	-35.9	233.8
28370	3667.0	1069.1	L: 130814 HILSD115	115	130844	RIDGR115	115	115	1	2.6	-145.0	-0.04025		-0.03020	-3.1	-113.8	
			C:130814 HILSD115	115	130845	RIDGT115	115	115	1								
			Open 130814 HILSD115	115	130845	RIDGT115	115	115	1					0.35861	-0.02802	15.8	-87.0
28372	3675.7	1071.2	L: 130814 HILSD115	115	130845	RIDGT115	115	115	1	-29.1	-145.0	-0.03153		-0.02802	15.8	-87.2	
			C:130813 HICK 115	115	130845	RIDGT115	115	115	1								
			Open 130813 HICK 115	115	130845	RIDGT115	115	115	1					0.69795	-0.00504	-64.3	-82.8
28387	3709.8	1079.3	L: 135251 S RIPLEY	230	200654	ERIE E	230	230	1	-2.8	637.0	0.17246		0.14296	11.3	541.7	
			C:135277 FALCONER	115	200579	WARREN	115	115	1								
			Open 135277 FALCONER	115	200579	WARREN	115	115	1					0.39308	0.07505	-35.9	242.5
28393	3728.3	1083.7	L: 130816 HYATT115	115	136191	ELBRIDGE	115	115	1	-42.3	-160.0	-0.03156		-0.02856	-36.0	-142.4	
			C:BUS:WATERCURE_230														
			Open 130768 WATRC230	230	130772	SHRED230	230	230	1					0.03220	-0.05896	71.0	-148.8
			Open 130757 WATRC345	345	130768	WATRC230	230	230	1					-0.03361	0.03295	257.6	380.4
			Open 130763 HILSD230	230	130768	WATRC230	230	230	1					0.02535	0.00000	0.5	0.5
28394	3728.6	1083.8	L: 130816 HYATT115	115	136191	ELBRIDGE	115	115	1	-42.1	-160.0	-0.03161		-0.02856	-36.0	-142.4	
			C:130763 HILSD230	230	130768	WATRC230	230	230	1								
			Open 130763 HILSD230	230	130768	WATRC230	230	230	1					0.03320	-0.09191	-186.1	-528.8
28395	3729.7	1084.0	L: 130800 ETNA 115	115	130827	MILKN115	115	115	2	-131.9	-255.0	-0.03302		-0.02652	-108.5	-207.5	
			C:131128 LAPEER	345	136153	LAFAYTTE	345	345	1								
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	345	1					0.03573	-0.18174	-652.6	-1330.4
28399	3738.0	1086.0	L: 136150 CLAY	345	136157	9MI PT1	345	345	1	-654.3	-1032.0	-0.10105					
			Base Case														

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28400	3742.2	1087.0	L: 130836 N.WAV115	115	131018 LOUNSD115	115	1	-6.3	-173.0	-0.04455	-0.04090	22.2	-130.8
			C:130757 WATRC345	345	130768 WATRC230	230	1 213						
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.11071	0.03295	257.6	380.9
28408	3757.4	1090.6	L: 130776 BORDR115	115	130816 HYATT115	115	1	-31.6	-160.0	-0.03416	-0.02932	-14.2	-124.4
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1 392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			0.02666	-0.18174	-652.6	-1335.4
28414	3767.6	1093.0	L: 130814 HILSD115	115	130844 RIDGR115	115	1	-21.8	-145.0	-0.03270	-0.03020	-3.1	-116.9
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.00037	0.21524	-543.5	267.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.07344	0.03295	257.6	381.7
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.00076	0.00000	22.4	22.4
28416	3772.2	1094.1	L: 130814 HILSD115	115	130844 RIDGR115	115	1	-22.0	-145.0	-0.03262	-0.03020	-3.1	-117.0
			C:130757 WATRC345	345	130768 WATRC230	230	1 213						
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.07336	0.03295	257.6	381.9
28421	3782.3	1096.5	L: 130776 BORDR115	115	130816 HYATT115	115	1	-29.2	-160.0	-0.03459	-0.02932	-14.2	-125.1
			C:130755 OAKDL345	345	131128 LAPEER	345	1 209						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			0.02595	-0.20313	-575.7	-1344.0
28432	3806.9	1102.3	L: 130816 HYATT115	115	136191 ELBRIDGE	115	1	-30.0	-160.0	-0.03414	-0.02856	-36.0	-144.7
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.02249	0.24819	-263.5	681.3
28436	3812.6	1103.7	L: 130763 HILSD230	230	130768 WATRC230	230	1	31.0	-657.0	-0.18044	-0.09191	-186.1	-536.5
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.40212	0.21524	-543.5	277.1
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.03525	0.05635	43.0	257.8
28445	3825.5	1106.8	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-64.9	482.0	0.14296			
			Base Case										
28463	3840.8	1110.4	*L: 130816 HYATT115	115	136191 ELBRIDGE	115	1	-40.8	-160.0	-0.03104	-0.02856	-36.0	-145.6
			C:130811 HAML115	115	136191 ELBRIDGE	115	1 304						
			Open 130811 HAML115	115	136191 ELBRIDGE	115	1			0.11430	-0.02173	-42.1	-125.6
28510	3857.9	1114.4	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	24.5	637.0	0.15876	0.14296	11.3	562.8
			C:ETHS/NWES/LLGD				1648						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.06808	0.13510	117.6	638.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.06848	0.05635	43.0	260.4
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.05961	0.04595	38.0	215.2
28521	3864.9	1116.1	L: 130763 HILSD230	230	130768 WATRC230	230	1	31.8	-657.0	-0.17822	-0.09191	-186.1	-541.3
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.40085	0.21524	-543.5	288.3
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.00048	0.07505	-35.9	254.1
28524	3865.6	1116.3	L: 130763 HILSD230	230	130768 WATRC230	230	1	31.8	-657.0	-0.17818	-0.09191	-186.1	-541.4
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.40084	0.21524	-543.5	288.5
28559	3876.1	1118.8	L: 130814 HILSD115	115	130845 RIDGT115	115	1	14.4	-145.0	-0.04113	-0.02802	15.8	-92.8

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				C:130814 HILSD115	115	130844 RIDGR115	115	1	309										
				Open 130814 HILSD115	115	130844 RIDGR115	115	1				0.43428	-0.03020	-3.1	-120.1				
28586	3882.2	1120.2	L:	130776 BORDR115	115	130816 HYATT115	115	1		-17.4	-160.0	-0.03673	-0.02932	-14.2	-128.1				
				C:136150 CLAY	345	149001 PANNELL3	345	2	718										
				Open 136150 CLAY	345	149001 PANNELL3	345	2				-0.03575	0.20732	88.8	893.7				
28604	3886.6	1121.3	L:	130776 BORDR115	115	130816 HYATT115	115	1		-17.4	-160.0	-0.03669	-0.02932	-14.2	-128.2				
				C:136150 CLAY	345	149001 PANNELL3	345	1	717										
				Open 136150 CLAY	345	149001 PANNELL3	345	1				-0.03568	0.20665	88.5	891.7				
28778	3899.3	1124.3	L:	130836 N.WAV115	115	131018 LOUNSD115	115	1		16.0	-173.0	-0.04846	-0.04090	22.2	-137.3				
				C:130807 GOUDY115	115	200680 LAUREL L	115	1	1376										
				Open 130807 GOUDY115	115	200680 LAUREL L	115	1				-0.16462	0.04595	38.0	217.1				
30297	3928.3	1131.2	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1		-190.7	637.0	0.21070	0.14296	-64.9	496.7				
				C:SER:HC-SR_37&W-F_171					1600										
				Open 135398 SW345	345	200769 HOMER CY	345	1				0.28847	0.11431	-378.4	70.6				
				Open 135277 FALCONER	115	200579 WARREN	115	1				0.46324	0.07505	-35.9	258.9				
30420	3939.0	1133.7	L:	130814 HILSD115	115	130845 RIDGT115	115	1		-1.3	-145.0	-0.03647	-0.02802	15.8	-94.6				
				C:130763 HILSD230	230	130768 WATRC230	230	1	219										
				Open 130763 HILSD230	230	130768 WATRC230	230	1				0.09197	-0.09191	-186.1	-548.1				
30422	3939.2	1133.7	L:	130814 HILSD115	115	130845 RIDGT115	115	1		-2.3	-145.0	-0.03622	-0.02802	15.8	-94.6				
				C:BUS:WATERCURE_230					1633										
				Open 130768 WATRC230	230	130772 SHRED230	230	1				0.08652	-0.05896	71.0	-161.2				
				Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.09422	0.03295	257.6	387.4				
				Open 130763 HILSD230	230	130768 WATRC230	230	1				0.08838	0.00000	0.5	0.5				
32199	3956.1	1137.8	L:	130814 HILSD115	115	130844 RIDGR115	115	1		-13.8	-145.0	-0.03317	-0.03020	-3.1	-122.5				
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				0.01637	-0.18174	-652.6	-1371.5				
33564	3977.5	1142.8	L:	136150 CLAY	345	149001 PANNELL3	345	2		139.4	1434.0	0.32548	0.20732	88.8	913.4				
				C:136150 CLAY	345	149001 PANNELL3	345	1	717										
				Open 136150 CLAY	345	149001 PANNELL3	345	1				0.57178	0.20665	88.5	910.5				
33630	3983.6	1144.3	L:	136150 CLAY	345	149001 PANNELL3	345	1		139.2	1434.0	0.32503	0.20665	88.5	911.7				
				C:136150 CLAY	345	149001 PANNELL3	345	2	718										
				Open 136150 CLAY	345	149001 PANNELL3	345	2				0.57099	0.20732	88.8	914.7				
33781	3993.0	1146.5	L:	135250 DUNKIRK	230	135251 S RIPLEY	230	1		-125.5	637.0	0.19097	0.14296	-64.9	505.9				
				C:SER:HC-WC_30&W-F_171					1601										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.08545	0.21524	-543.5	315.9				
				Open 135277 FALCONER	115	200579 WARREN	115	1				0.39454	0.07505	-35.9	263.8				
33952	3998.4	1147.8	L:	135251 S RIPLEY	230	200654 ERIE E	230	1		20.9	637.0	0.15409	0.14296	11.3	582.9				
				C:SER:C398/NWES					1605										
				Open 409 GROVER	230	200675 E.TWANDA	230	1				-0.01506	-0.00479	-15.6	-34.7				
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.05790	0.13510	117.6	657.8				
				Open 381 TOWANDA	115	200675 E.TWANDA	230	1				-0.00101	0.00389	-52.1	-36.6				
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.05745	0.05635	43.0	268.3				

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34167	4001.3	1148.5	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	20.6	637.0	0.15405	0.14296	11.3	583.3
			C:SER:ETHS/NWES					1606						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.05819	0.13510	117.6	658.2
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.05719	0.05635	43.0	268.4
36436	4034.5	1156.4	L: 130763 HILSD230	230	130768	WATRC230	230	1	-198.9	-657.0	-0.11354	-0.09191	-186.1	-556.9
			C:130807 GOUDY115	115	130848	S.OWE115	115	1	299					
			Open 130807 GOUDY115	115	130848	S.OWE115	115	1			-0.52892	0.04090	24.3	189.3
36904	4049.2	1159.9	L: 136154 OSWEGO	345	136156	VOLNEY	345	1	299.4	1685.0	0.34220	0.18860	165.0	928.7
			C:136154 OSWEGO	345	136156	VOLNEY	345	2	725					
			Open 136154 OSWEGO	345	136156	VOLNEY	345	2			0.81438	0.18860	165.0	928.7
36905	4049.2	1159.9	L: 136154 OSWEGO	345	136156	VOLNEY	345	2	299.4	1685.0	0.34220	0.18860	165.0	928.7
			C:136154 OSWEGO	345	136156	VOLNEY	345	1	724					
			Open 136154 OSWEGO	345	136156	VOLNEY	345	1			0.81438	0.18860	165.0	928.7
37006	4092.9	1170.2	*L: 130836 N.WAV115	115	131018	LOUNTS115	115	1	17.3	-173.0	-0.04651	-0.04090	22.2	-145.2
			C:130763 HILSD230	230	200675	E.TWANDA	230	1	1375					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.04149	0.13510	117.6	670.6
37022	4104.2	1172.9	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	18.1	637.0	0.15081	0.14296	11.3	598.1
			C:ETHS/LLGD					1649						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.04475	0.13510	117.6	672.1
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.03911	0.04595	38.0	226.6
37053	4124.2	1177.7	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	-32.1	637.0	0.16225	0.14296	11.3	600.9
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.08215	0.21524	-543.5	344.1
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.02839	0.05635	43.0	275.4
37056	4127.8	1178.5	L: 130776 BORDR115	115	130816	HYATT115	115	1	-25.2	-160.0	-0.03267	-0.02932	-14.2	-135.3
			C:136152 ELBRIDGE	345	136153	LAFAYTTE	345	1	721					
			Open 136152 ELBRIDGE	345	136153	LAFAYTTE	345	1			-0.02335	0.14340	467.7	1059.7
37061	4132.3	1179.6	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	25.5	637.0	0.14798	0.14296	11.3	602.1
			C:130755 OAKDL345	345	131128	LAPEER	345	1	209					
			Open 130755 OAKDL345	345	131128	LAPEER	345	1			-0.02468	-0.20313	-575.7	-1415.1
37070	4151.8	1184.2	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	-79.0	637.0	0.17246	0.14296	-64.9	528.6
			C:135277 FALCONER	115	200579	WARREN	115	1	1379					
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.39308	0.07505	-35.9	275.7
37071	4151.8	1184.2	*L: 135251 S RIPLEY	230	200654	ERIE E	230	1	5.3	637.0	0.15216	0.14296	11.3	604.9
			C:LKWANA-OXBW					1651						
			Open 417 OXBOW	230	3070	LACKAWNA	230	1			0.05046	0.18226	-119.7	636.9
37097	4189.6	1193.2	*L: 130814 HILSD115	115	130844	RIDGR115	115	1	-5.0	-145.0	-0.03342	-0.03020	-3.1	-129.6
			C:130807 GOUDY115	115	130848	S.OWE115	115	1	299					
			Open 130807 GOUDY115	115	130848	S.OWE115	115	1			-0.07876	0.04090	24.3	195.6
37099	4202.0	1196.1	L: 130763 HILSD230	230	130768	WATRC230	230	1	-192.3	-657.0	-0.11058	-0.09191	-186.1	-572.3
			C:130787 CODNT115	115	130830	MONTR115	115	1	256					
			Open 130787 CODNT115	115	130830	MONTR115	115	1			-0.40230	0.04642	15.5	210.6

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37105	4210.8	1198.2	L: 130836 N.WAV115	115	131018 LOUNSI115	115	1	22.2	-150.0	-0.04090				
			Base Case											
37113	4225.5	1201.7	L: 130763 HILSD230	230	130768 WATRC230	230	1	-177.2	-657.0	-0.11354	-0.09191	-186.1	-574.4	
			C:130848 S.OWE115	115	131850 CNYOG115	115	1 356							
			Open 130848 S.OWE115	115	131850 CNYOG115	115	1				-0.52892	0.04090	-16.7	156.1
37118	4234.6	1203.9	L: 130763 HILSD230	230	130768 WATRC230	230	1	-176.2	-657.0	-0.11354	-0.09191	-186.1	-575.3	
			C:131018 LOUNSI115	115	131850 CNYOG115	115	1 386							
			Open 131018 LOUNSI115	115	131850 CNYOG115	115	1				0.52892	-0.04090	18.7	-154.5
37128	4251.1	1207.8	L: 130763 HILSD230	230	130768 WATRC230	230	1	-174.3	-657.0	-0.11354	-0.09191	-186.1	-576.8	
			C:130836 N.WAV115	115	131018 LOUNSI115	115	1 346							
			Open 130836 N.WAV115	115	131018 LOUNSI115	115	1				0.52892	-0.04090	22.2	-151.6
37144	4270.3	1212.3	L: 130763 HILSD230	230	130768 WATRC230	230	1	-198.8	-657.0	-0.10730	-0.09191	-186.1	-578.5	
			C:130807 GOUDY115	115	200680 LAUREL L	115	1 1376							
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1				-0.33500	0.04595	38.0	234.2
37149	4273.1	1213.0	L: 130814 HILSD115	115	130845 RIDGT115	115	1	29.3	-145.0	-0.04080	-0.02802	15.8	-104.0	
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.05150	0.24819	-263.5	797.0
37158	4280.5	1214.8	L: 135437 CLSP-181	115	135495 YNG-181	115	1	-43.4	-183.0	-0.03262	-0.02803	-23.0	-143.0	
			C:135327 AM.S-54	115	135450 GRDNVL1	115	1 508							
			Open 135327 AM.S-54	115	135450 GRDNVL1	115	1				0.40789	-0.01126	-49.9	-98.1
37159	4280.8	1214.8	L: 135437 CLSP-181	115	135495 YNG-181	115	1	-43.4	-183.0	-0.03262	-0.02803	-23.0	-143.0	
			C:135327 AM.S-54	115	135493 LUDWIG	115	1 509							
			Open 135327 AM.S-54	115	135493 LUDWIG	115	1				-0.40789	0.01126	49.9	98.1
37175	4297.0	1218.7	L: 130776 BORDR115	115	130816 HYATT115	115	1	-20.6	-160.0	-0.03245	-0.02932	-14.2	-140.2	
			C:130763 HILSD230	230	130768 WATRC230	230	1 219							
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.03405	-0.09191	-186.1	-581.0
37176	4297.4	1218.8	L: 130776 BORDR115	115	130816 HYATT115	115	1	-20.7	-160.0	-0.03241	-0.02932	-14.2	-140.2	
			C:BUS:WATERCURE_230				1633							
			Open 130768 WATRC230	230	130772 SHRED230	230	1				0.03313	-0.05896	71.0	-182.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.03443	0.03295	257.6	399.2
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.02565	0.00000	0.5	0.5
37181	4303.3	1220.2	L: 136152 ELBRIDGE	345	136154 OSWEGO	345	1	-821.1	-1685.0	-0.20077	-0.17010	-701.1	-1433.1	
			C:136150 CLAY	345	136156 VOLNEY	345	1 710							
			Open 136150 CLAY	345	136156 VOLNEY	345	1				0.16991	-0.18049	-705.9	-1482.6
37191	4316.4	1223.3	L: 135452 LOCKPORT	115	135537 S138-36	115	1	28.4	185.0	0.03628	0.02747	21.5	140.1	
			C:135452 LOCKPORT	115	135474 S138-37	115	1 593							
			Open 135452 LOCKPORT	115	135474 S138-37	115	1				0.31140	0.02831	22.0	144.2
37199	4324.5	1225.2	L: 135452 LOCKPORT	115	135474 S138-37	115	1	28.8	189.0	0.03704	0.02831	22.0	144.4	
			C:135452 LOCKPORT	115	135537 S138-36	115	1 595							
			Open 135452 LOCKPORT	115	135537 S138-36	115	1				0.31788	0.02747	21.5	140.3
37206	4330.8	1226.7	L: 130776 BORDR115	115	130816 HYATT115	115	1	-8.1	-160.0	-0.03507	-0.02932	-14.2	-141.2	
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206							

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			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.02317	0.24819	-263.5	811.3
37223	4338.0	1228.4	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-51.7	637.0	0.15876		0.14296	-64.9	555.3
			C:ETHS/NWES/LLGD											1648
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.06808	0.13510	117.6	703.7
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.06848	0.05635	43.0	287.4
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1				0.05961	0.04595	38.0	237.3
37298	4358.0	1233.2	L: 130776 BORDR115	115	130816 HYATT115	115	1	-15.5	-160.0	-0.03315		-0.02932	-14.2	-142.0
			C:130787 CODNT115	115	130830 MONTR115	115	1	256						
			Open 130787 CODNT115	115	130830 MONTR115	115	1				-0.08263	0.04642	15.5	217.8
37331	4362.6	1234.3	L: 130800 ETNA 115	115	130827 MILKN115	115	1	-122.8	-255.0	-0.03031		-0.02435	-101.4	-207.6
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				0.03280	-0.18174	-652.6	-1445.4
38776	4397.8	1242.6	L: 136152 ELBRIDGE	345	136154 OSWEGO	345	1	-901.1	-1685.0	-0.17825		-0.17010	-701.1	-1449.2
			C:136150 CLAY	345	136151 DEWITT 3	345	1	709						
			Open 136150 CLAY	345	136151 DEWITT 3	345	1				-0.44847	0.01818	445.9	525.8
38848	4431.2	1250.5	L: 135437 CLSP-181	115	135495 YNG-181	115	1	-34.6	-183.0	-0.03349		-0.02803	-23.0	-147.2
			C:135493 LUDWIG	115	135494 COOPER	115	1	647						
			Open 135493 LUDWIG	115	135494 COOPER	115	1				-0.45753	0.01194	25.3	78.2
38849	4431.6	1250.6	*L: 130776 BORDR115	115	130816 HYATT115	115	1	-15.2	-160.0	-0.03266		-0.02932	-14.2	-144.2
			C:BUS:WATERCURE_345											1632
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.01140	0.21524	-543.5	410.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.02710	0.03295	257.6	403.6
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.01010	0.00000	22.4	22.4
38898	4493.0	1265.2	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-55.3	637.0	0.15409		0.14296	-64.9	577.4
			C:SER:C398/NWES											1605
			Open 409 GROVER	230	200675 E.TWANDA	230	1				-0.01506	-0.00479	-15.6	-37.1
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.05790	0.13510	117.6	724.7
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1				-0.00101	0.00389	-52.1	-34.6
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.05745	0.05635	43.0	296.1
38899	4496.1	1265.9	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-55.6	637.0	0.15405		0.14296	-64.9	577.9
			C:SER:ETHS/NWES											1606
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.05819	0.13510	117.6	725.1
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.05719	0.05635	43.0	296.3
38917	4510.4	1269.3	L: 130835 N.END115	115	130838 OAKDL115	115	1	-76.9	-225.0	-0.03283		-0.00322	-39.7	-54.3
			C:130807 GOUDY115	115	130838 OAKDL115	115	1	298						
			Open 130807 GOUDY115	115	130838 OAKDL115	115	1				0.49607	-0.05968	-75.0	-344.2
38920	4512.2	1269.8	L: 130757 WATRC345	345	130768 WATRC230	230	1	13.5	600.0	0.12999		0.03295	257.6	406.2
			C:SER:HCWC/NWES											1607
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.44952	0.21524	-543.5	427.7
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00510	0.05635	43.0	297.2
38924	4521.2	1271.9	L: 130757 WATRC345	345	130768 WATRC230	230	1	13.3	600.0	0.12977		0.03295	257.6	406.5
			C:SER:HC-WC_30&W-F_171											1601

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				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.44935	0.21524	-543.5	429.6
				Open 135277 FALCONER	115	200579 WARREN	115	1				0.00138	0.07505	-35.9	303.4
38928	4524.5	1272.7	L:	130757 WATRC345	345	130768 WATRC230	230	1	13.3	600.0	0.12966		0.03295	257.6	406.6
			C:	130757 WATRC345	345	200769 HOMER CY	345	1 1374							
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.44934	0.21524	-543.5	430.3
38931	4525.1	1272.8	L:	130834 N.BRW115	115	135437 CLSP-181	115	1	-33.4	-181.0	-0.03262		-0.02803	-13.0	-139.9
			C:	135327 AM.S-54	115	135450 GRDNVL1	115	1 508							
				Open 135327 AM.S-54	115	135450 GRDNVL1	115	1				0.40789	-0.01126	-49.9	-100.9
38932	4525.3	1272.9	L:	130834 N.BRW115	115	135437 CLSP-181	115	1	-33.4	-181.0	-0.03262		-0.02803	-13.0	-139.9
			C:	135327 AM.S-54	115	135493 LUDWIG	115	1 509							
				Open 135327 AM.S-54	115	135493 LUDWIG	115	1				-0.40789	0.01126	49.9	100.8
38934	4528.9	1273.8	L:	135437 CLSP-181	115	135495 YNG-181	115	1	-31.3	-183.0	-0.03349		-0.02803	-23.0	-149.9
			C:	135438 CLSP-54	115	135494 COOPER	115	1 558							
				Open 135438 CLSP-54	115	135494 COOPER	115	1				0.45753	-0.01194	-18.2	-72.2
38950	4554.3	1279.8	L:	136150 CLAY	345	149001 PANNELL3	345	2	88.8	1033.0	0.20732				
				Base Case											
38958	4570.5	1283.6	L:	136150 CLAY	345	149001 PANNELL3	345	1	88.5	1033.0	0.20665				
				Base Case											
38961	4573.7	1284.4	L:	135452 LOCKPORT	115	135537 S138-36	115	1	24.3	185.0	0.03514		0.02747	21.5	147.2
			C:	135474 S138-37	115	135489 TONCRK37	115	1 629							
				Open 135474 S138-37	115	135489 TONCRK37	115	1				0.27116	0.02829	10.1	139.5
38962	4576.7	1285.1	L:	136154 OSWEGO	345	136156 VOLNEY	345	1	476.2	1685.0	0.26411		0.18860	165.0	1028.2
			C:	136152 ELBRIDGE	345	136154 OSWEGO	345	1 722							
				Open 136152 ELBRIDGE	345	136154 OSWEGO	345	1				-0.44392	-0.17010	-701.1	-1479.6
38963	4576.7	1285.1	L:	136154 OSWEGO	345	136156 VOLNEY	345	2	476.2	1685.0	0.26411		0.18860	165.0	1028.2
			C:	136152 ELBRIDGE	345	136154 OSWEGO	345	1 722							
				Open 136152 ELBRIDGE	345	136154 OSWEGO	345	1				-0.44392	-0.17010	-701.1	-1479.6
38964	4578.7	1285.6	L:	135452 LOCKPORT	115	135474 S138-37	115	1	24.6	189.0	0.03590		0.02831	22.0	151.6
			C:	135490 TONCRK36	115	135537 S138-36	115	1 643							
				Open 135490 TONCRK36	115	135537 S138-36	115	1				-0.27618	-0.02749	-9.6	-135.5
38965	4583.1	1286.6	*L:	130763 HILSD230	230	130768 WATRC230	230	1	-251.6	-657.0	-0.08845		-0.09191	-186.1	-607.3
			C:	130751 CNDGUA_T	230	130761 AVOCA230	230	1 197							
				Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1				-0.48667	-0.00710	134.7	102.1
38971	4587.3	1287.6	L:	136154 OSWEGO	345	136156 VOLNEY	345	2	471.9	1685.0	0.26445		0.18860	165.0	1030.2
			C:	SER:OSWEG->LAFAY				1586							
				Open 136152 ELBRIDGE	345	136153 LAFAYTTE	345	1				0.04929	0.14340	467.7	1125.6
				Open 136152 ELBRIDGE	345	136154 OSWEGO	345	1				-0.40434	-0.17010	-701.1	-1481.4
				Open 136152 ELBRIDGE	345	136191 ELBRIDGE	115	1				0.05278	0.00000	6.5	6.5
38972	4587.3	1287.6	L:	136154 OSWEGO	345	136156 VOLNEY	345	1	471.9	1685.0	0.26445		0.18860	165.0	1030.2
			C:	SER:OSWEG->LAFAY				1586							
				Open 136152 ELBRIDGE	345	136153 LAFAYTTE	345	1				0.04929	0.14340	467.7	1125.6
				Open 136152 ELBRIDGE	345	136154 OSWEGO	345	1				-0.40434	-0.17010	-701.1	-1481.4

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			Open 136152 ELBRIDGE	345	136191 ELBRIDGE	115	1			0.05278	0.00000	6.5	6.5
38979	4593.9	1289.2	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-108.3	637.0	0.16225	0.14296	-64.9	591.9
			C:SER:HCWC/NWES										1607
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.08215	0.21524	-543.5	445.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.02839	0.05635	43.0	301.8
38997	4609.6	1292.9	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-58.2	637.0	0.15081	0.14296	-64.9	594.1
			C:ETHS/LLGD										1649
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.04475	0.13510	117.6	740.4
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.03911	0.04595	38.0	249.8
39019	4642.6	1300.7	L: 130765 OAKDL230	230	130838 OAKDL115	115	1	132.6	-440.0	-0.12334	-0.05896	64.3	-209.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1						206
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.25941	0.24819	-263.5	888.7
39021	4644.8	1301.2	L: 130765 OAKDL230	230	130772 SHRED230	230	1	-132.9	440.0	0.12334	0.05896	-64.5	209.3
			C:130755 OAKDL345	345	130757 WATRC345	345	1						206
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.25941	0.24819	-263.5	889.2
39023	4647.3	1301.9	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-50.7	637.0	0.14798	0.14296	-64.9	599.5
			C:130755 OAKDL345	345	131128 LAPEER	345	1						209
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			-0.02468	-0.20313	-575.7	-1519.8
39030	4650.2	1302.5	*L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-109.0	637.0	0.16042	0.14296	-64.9	599.9
			C:130757 WATRC345	345	200769 HOMER CY	345	1						1374
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.08112	0.21524	-543.5	457.4
39038	4652.9	1303.2	L: 136152 ELBRIDGE	345	136154 OSWEGO	345	1	-799.0	-1685.0	-0.19041	-0.17010	-701.1	-1492.6
			C:136151 DEWITT 3	345	136153 LAFAYTTE	345	1						719
			Open 136151 DEWITT 3	345	136153 LAFAYTTE	345	1			-0.52982	0.03833	184.8	363.2
39039	4654.8	1303.6	L: 130753 FRASR345	345	137200 EDIC	345	1	-847.0	-1380.0	-0.11450	-0.06501	-706.7	-1009.3
			C:130755 OAKDL345	345	131128 LAPEER	345	1						209
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			0.24366	-0.20313	-575.7	-1521.3
39065	4664.7	1306.0	L: 135437 CLSP-181	115	135495 YNG-181	115	1	-26.8	-183.0	-0.03349	-0.02803	-23.0	-153.8
			C:135438 CLSP-54	115	135439 TUNGSTEN	115	1						557
			Open 135438 CLSP-54	115	135439 TUNGSTEN	115	1			-0.45753	0.01194	8.2	63.9
39086	4669.4	1307.1	L: 130834 N.BRW115	115	135437 CLSP-181	115	1	-24.6	-181.0	-0.03349	-0.02803	-13.0	-143.9
			C:135493 LUDWIG	115	135494 COOPER	115	1						647
			Open 135493 LUDWIG	115	135494 COOPER	115	1			-0.45753	0.01194	25.3	81.1
39095	4672.9	1307.9	L: 135474 S138-37	115	135489 TONCRK37	115	1	13.1	185.0	0.03679	0.02829	10.1	142.3
			C:135490 TONCRK36	115	135537 S138-36	115	1						643
			Open 135490 TONCRK36	115	135537 S138-36	115	1			-0.30930	-0.02749	-9.6	-138.1
39115	4677.8	1309.1	L: 135437 CLSP-181	115	135495 YNG-181	115	1	-26.3	-183.0	-0.03349	-0.02803	-23.0	-154.1
			C:130795 DEPEW115	115	135439 TUNGSTEN	115	1						275
			Open 130795 DEPEW115	115	135439 TUNGSTEN	115	1			0.45753	-0.01194	-7.3	-63.1
39504	4697.4	1313.8	L: 130768 WATRC230	230	130772 SHRED230	230	1	139.4	-440.0	-0.12334	-0.05896	71.0	-205.9
			C:130755 OAKDL345	345	130757 WATRC345	345	1						206
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.25941	0.24819	-263.5	902.3

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40512	4702.7	1315.0	L: 136150 CLAY	345	136157 9MI PT1	345	1	-911.4	-1590.0	-0.14431	-0.10105	-654.3	-1129.5
			C:136150 CLAY	345	136158 INDEPNDC	345	1 712						
			Open 136150 CLAY	345	136158 INDEPNDC	345	1			0.31362	-0.13793	-819.8	-1468.4
40685	4721.0	1319.4	L: 135474 S138-37	115	135489 TONCRK37	115	1	16.0	185.0	0.03580	0.02829	10.1	143.7
			C:135452 LOCKPORT	115	135537 S138-36	115	1 595						
			Open 135452 LOCKPORT	115	135537 S138-36	115	1			0.27337	0.02747	21.5	151.2
40695	4724.0	1320.1	L: 130814 HILSD115	115	130845 RIDGT115	115	1	-1.9	-145.0	-0.03029	-0.02802	15.8	-116.6
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.00004	0.21524	-543.5	473.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.06869	0.03295	257.6	413.2
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.00043	0.00000	22.4	22.4
40698	4725.0	1320.3	L: 130814 HILSD115	115	130845 RIDGT115	115	1	-1.9	-145.0	-0.03028	-0.02802	15.8	-116.6
			C:130757 WATRC345	345	130768 WATRC230	230	1 213						
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.06869	0.03295	257.6	413.2
40752	4741.7	1324.3	L: 135451 PARADISE	115	135458 NI.B-181	115	1	74.0	226.0	0.03206	0.02770	54.6	186.0
			C:135327 AM.S-54	115	135450 GRDNVLL1	115	1 508						
			Open 135327 AM.S-54	115	135450 GRDNVLL1	115	1			-0.38761	-0.01126	-49.9	-103.3
40753	4741.9	1324.3	L: 135451 PARADISE	115	135458 NI.B-181	115	1	74.0	226.0	0.03206	0.02770	54.6	186.0
			C:135327 AM.S-54	115	135493 LUDWIG	115	1 509						
			Open 135327 AM.S-54	115	135493 LUDWIG	115	1			0.38761	0.01126	49.9	103.3
40925	4767.1	1330.3	L: 130834 N.BRW115	115	135437 CLSP-181	115	1	-21.3	-181.0	-0.03349	-0.02803	-13.0	-146.6
			C:135438 CLSP-54	115	135494 COOPER	115	1 558						
			Open 135438 CLSP-54	115	135494 COOPER	115	1			0.45753	-0.01194	-18.2	-75.1
42274	4778.1	1332.9	L: 135490 TONCRK36	115	135537 S138-36	115	1	-12.7	-185.0	-0.03606	-0.02749	-9.6	-141.0
			C:135474 S138-37	115	135489 TONCRK37	115	1 629						
			Open 135474 S138-37	115	135489 TONCRK37	115	1			-0.30319	0.02829	10.1	145.3
42353	4792.9	1336.4	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-263.5	926.0	0.24819			
			Base Case										
42420	4819.2	1342.7	L: 136152 ELBRIDGE	345	136154 OSWEGO	345	1	-791.8	-1685.0	-0.18535	-0.17010	-701.1	-1520.9
			C:136150 CLAY	345	136158 INDEPNDC	345	1 712						
			Open 136150 CLAY	345	136158 INDEPNDC	345	1			0.11057	-0.13793	-819.8	-1484.5
42423	4820.9	1343.1	L: 135437 CLSP-181	115	135495 YNG-181	115	1	-21.5	-183.0	-0.03349	-0.02803	-23.0	-158.1
			C:130795 DEPEW115	115	130799 ERIE 115	115	1 274						
			Open 130795 DEPEW115	115	130799 ERIE 115	115	1			-0.45753	0.01194	-3.2	54.4
42429	4827.6	1344.6	L: 135452 LOCKPORT	115	135537 S138-36	115	1	20.2	185.0	0.03413	0.02747	21.5	154.1
			C:135489 TONCRK37	115	135843 AYERTP37	115	1 642						
			Open 135489 TONCRK37	115	135843 AYERTP37	115	1			0.23570	0.02827	-5.6	130.9
42430	4828.0	1344.7	L: 136150 CLAY	345	136151 DEWITT 3	345	1	860.5	1434.0	0.11878	0.01818	445.9	533.7
			C:136152 ELBRIDGE	345	136154 OSWEGO	345	1 722						
			Open 136152 ELBRIDGE	345	136154 OSWEGO	345	1			-0.59142	-0.17010	-701.1	-1522.3
42432	4829.0	1345.0	L: 135452 LOCKPORT	115	135474 S138-37	115	1	20.5	189.0	0.03488	0.02831	22.0	158.7
			C:135490 TONCRK36	115	135842 AYERTP36	115	1 644						

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			Open 135490 TONCRK36	115	135842 AYERTP36	115	1		0.23915	0.02751	-6.0	126.8		
42444	4835.4	1346.5	L: 135490 TONCRK36	115	135537 S138-36	115	1	-15.5	-185.0	-0.03505	-0.02749	-9.6	-142.5	
			C:135452 LOCKPORT	115	135474 S138-37	115	1	593						
			Open 135452 LOCKPORT	115	135474 S138-37	115	1				-0.26737	0.02831	22.0	158.9
42482	4859.5	1352.2	L: 135451 PARADISE	115	135458 NI.B-181	115	1	64.0	226.0	0.03334	0.02770	54.6	189.2	
			C:135451 PARADISE	115	135459 NI.B-182	115	1	584						
			Open 135451 PARADISE	115	135459 NI.B-182	115	1				0.24184	0.02334	38.7	152.1
42494	4865.7	1353.7	L: 136152 ELBRIDGE	345	136154 OSWEGO	345	1	-724.9	-1685.0	-0.19732	-0.17010	-701.1	-1528.8	
			C:136154 OSWEGO	345	136156 VOLNEY	345	2	725						
			Open 136154 OSWEGO	345	136156 VOLNEY	345	2				-0.14431	0.18860	165.0	1082.7
42495	4865.7	1353.7	L: 136152 ELBRIDGE	345	136154 OSWEGO	345	1	-724.9	-1685.0	-0.19732	-0.17010	-701.1	-1528.8	
			C:136154 OSWEGO	345	136156 VOLNEY	345	1	724						
			Open 136154 OSWEGO	345	136156 VOLNEY	345	1				-0.14431	0.18860	165.0	1082.7
42510	4870.3	1354.8	L: 135437 CLSP-181	115	135495 YNG-181	115	1	-17.5	-183.0	-0.03398	-0.02803	-23.0	-159.5	
			C:130806 GARDV115	115	130858 GIRD115	115	1	295						
			Open 130806 GARDV115	115	130858 GIRD115	115	1				-0.15945	0.03734	-34.6	147.3
42520	4871.6	1355.1	L: 136152 ELBRIDGE	345	136154 OSWEGO	345	1	-806.4	-1685.0	-0.18034	-0.17010	-701.1	-1529.8	
			C:136156 VOLNEY	345	147833 MARCY T1	345	1	734						
			Open 136156 VOLNEY	345	147833 MARCY T1	345	1				-0.13303	0.07699	791.7	1166.8
42532	4875.3	1356.0	L: 135451 PARADISE	115	135458 NI.B-181	115	1	65.6	226.0	0.03289	0.02770	54.6	189.7	
			C:135493 LUDWIG	115	135494 COOPER	115	1	647						
			Open 135493 LUDWIG	115	135494 COOPER	115	1				0.43499	0.01194	25.3	83.5
42537	4877.7	1356.5	L: 135415 PACKARD2	230	147842 NIAGAR2W	230	1	-284.5	-840.0	-0.11389	-0.06506	-162.5	-479.9	
			C:135415 PACKARD2	230	147842 NIAGAR2W	230	2	539						
			Open 135415 PACKARD2	230	147842 NIAGAR2W	230	2				0.76570	-0.06376	-159.3	-470.3
42544	4879.8	1357.0	*L: 130814 HILSD115	115	130845 RIDGT115	115	1	5.6	-145.0	-0.03086	-0.02802	15.8	-121.0	
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				0.01562	-0.18174	-652.6	-1539.4
42701	4902.9	1362.5	L: 130834 N.BRW115	115	135437 CLSP-181	115	1	-16.8	-181.0	-0.03349	-0.02803	-13.0	-150.4	
			C:135438 CLSP-54	115	135439 TUNGSTEN	115	1	557						
			Open 135438 CLSP-54	115	135439 TUNGSTEN	115	1				-0.45753	0.01194	8.2	66.8
43904	4913.0	1364.9	L: 135415 PACKARD2	230	147842 NIAGAR2W	230	2	-283.2	-840.0	-0.11334	-0.06376	-159.3	-472.6	
			C:135415 PACKARD2	230	147842 NIAGAR2W	230	1	538						
			Open 135415 PACKARD2	230	147842 NIAGAR2W	230	1				0.76205	-0.06506	-162.5	-482.2
43936	4916.0	1365.6	L: 130834 N.BRW115	115	135437 CLSP-181	115	1	-16.4	-181.0	-0.03349	-0.02803	-13.0	-150.8	
			C:130795 DEPEW115	115	135439 TUNGSTEN	115	1	275						
			Open 130795 DEPEW115	115	135439 TUNGSTEN	115	1				0.45753	-0.01194	-7.3	-66.0
44110	4941.5	1371.7	L: 135474 S138-37	115	135489 TONCRK37	115	1	8.5	185.0	0.03572	0.02829	10.1	149.9	
			C:135490 TONCRK36	115	135842 AYERTP36	115	1	644						
			Open 135490 TONCRK36	115	135842 AYERTP36	115	1				0.27018	0.02751	-6.0	129.9
44163	4969.5	1378.3	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-293.4	1076.0	0.27556	0.24819	-263.5	969.8	
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223						

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			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				-0.46423	-0.05896	64.3	-228.7
44164	4969.9	1378.4	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-293.5	1076.0	0.27556		0.24819	-263.5	969.9
			C:130765 OAKDL230	230	130772 SHRED230	230	1							222
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				0.46423	0.05896	-64.5	228.5
44165	4970.0	1378.5	L: 135451 PARADISE	115	135458 NI.B-181	115	1	62.5	226.0	0.03289		0.02770	54.6	192.3
			C:135438 CLSP-54	115	135494 COOPER	115	1							558
			Open 135438 CLSP-54	115	135494 COOPER	115	1				-0.43499	-0.01194	-18.2	-77.5
44173	4976.1	1379.9	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-295.2	1076.0	0.27556		0.24819	-263.5	971.5
			C:SER:OAKDALE_WATRC230											1594
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.46423	-0.05896	71.0	-222.4
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				NA			
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.19473	0.00000	6.8	6.8
44178	4980.9	1381.0	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-296.5	1076.0	0.27556		0.24819	-263.5	972.6
			C:130768 WATRC230	230	130772 SHRED230	230	1							227
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.46423	-0.05896	71.0	-222.6
44188	4988.2	1382.8	L: 130799 ERIE 115	115	130834 N.BRW115	115	1	-6.8	-159.0	-0.03051		-0.02597	13.3	-116.2
			C:135327 AM.S-54	115	135450 GRDNVL1	115	1							508
			Open 135327 AM.S-54	115	135450 GRDNVL1	115	1				0.40314	-0.01126	-49.9	-106.1
44190	4988.4	1382.8	L: 130799 ERIE 115	115	130834 N.BRW115	115	1	-6.8	-159.0	-0.03051		-0.02597	13.3	-116.2
			C:135327 AM.S-54	115	135493 LUDWIG	115	1							509
			Open 135327 AM.S-54	115	135493 LUDWIG	115	1				-0.40314	0.01126	49.9	106.1

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, MAY 07 2009 16:37
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-pjm-ny-3-115-os.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, MAY 07 2009 16:37
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 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From C_EXPORT To PENELEC_IMPORT. Transfer level - 5000.0 MW

Violations report ordered by transfer capability. Total 28083 violations

Interface-1 Interface 49 C-PJMCentral Init.Flow= 167.16 TDF= 0.2066

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating	LODF	Init Final
1	-6099.4	-1092.9	L: Interface 23 QFW C:147834 NIAG 345 345 149000 ROCH 345 345 1 1226 Open 147834 NIAG 345 345 149000 ROCH 345 345 1	1187.7	-0.0	0.19473	0.24332	1101.5 -382.6
2	-5563.2	-982.1	L: Interface 23 QFW C:GEN:BRUCE 6 1561 Remove unit 1 from bus 159617 BRUCEBG5 24.0 815.5 MW dispatch	1353.6	-0.0	0.24332	0.24332	1101.5 -252.2
3	-5519.5	-973.1	L: Interface 23 QFW C:130754 KINTI345 345 149000 ROCH 345 345 1 205 Open 130754 KINTI345 345 149000 ROCH 345 345 1	1191.3	-0.0	0.21584	0.24332	1101.5 -241.5
4	-5186.4	-904.3	L: Interface 23 QFW C:GEN:NANTCK 8 1562 Remove unit 1 from bus 158743 NANTICG8 22.0 490.0 MW dispatch	1261.9	-0.0	0.24332	0.24332	1101.5 -160.5
5	-5169.4	-900.8	L: Interface 23 QFW	1257.8	-0.0	0.24332	0.24332	1101.5 -156.4

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			C:GEN:PICKER 6					1563											
			Remove unit 1 from bus 156683 PIC B G5	24.0	510.9	MW	dispatch												
6	-5111.5	-888.8	L: Interface 23 QFW						1087.5	-0.0	0.21276		0.24332	1101.5	-142.3				
			C:136150 CLAY	345	149001	PANNELL3	345 2 718												
			Open 136150 CLAY	345	149001	PANNELL3	345 2					-0.14291	0.21383	97.5	-995.5				
7	-5108.1	-888.1	L: Interface 23 QFW						1087.6	0.0	0.21292		0.24332	1101.5	-141.4				
			C:136150 CLAY	345	149001	PANNELL3	345 1 717												
			Open 136150 CLAY	345	149001	PANNELL3	345 1					-0.14265	0.21313	97.2	-991.5				
8	-5060.5	-878.2	L: Interface 23 QFW						1092.3	-0.0	0.21584		0.24332	1101.5	-129.8				
			C:130754 KINTI345	345	147834	NIAG 345	345 1 204												
			Open 130754 KINTI345	345	147834	NIAG 345	345 1					-0.17356	0.15832	53.1	-748.1				
9	-4961.3	-857.7	L: Interface 23 QFW						1145.8	-0.0	0.23095		0.24332	1101.5	-105.7				
			C:130767 STOLE230	230	130770	SHLDN230	230 1 226												
			Open 130767 STOLE230	230	130770	SHLDN230	230 1					0.20775	-0.05952	213.5	508.8				
10	-4959.9	-857.5	*L: Interface 23 QFW						1148.0	0.0	0.23145		0.24332	1101.5	-105.4				
			C:130770 SHLDN230	230	131122	WTHRS230	230 1 228												
			Open 130770 SHLDN230	230	131122	WTHRS230	230 1					0.20775	-0.05712	223.9	507.3				
1721	-4288.7	-718.8	L: Interface 50 PJMCentral-C						-300.3	0.0	-0.07003		-0.20658	-167.2	718.8				
			C:LKWANA-OXBW				1648												
			Open 417 OXBOW	230	3070	LACKAWNA	230 1					0.89722	0.15220	-148.4	-801.2				
1722	-4288.7	-718.8	L: Interface 49 C-PJMCentral						300.3	-0.0	0.07003		0.20658	167.2	-718.8				
			C:LKWANA-OXBW				1648												
			Open 417 OXBOW	230	3070	LACKAWNA	230 1					-0.89722	0.15220	-148.4	-801.2				
1763	-3507.7	-557.5	L: Interface 26 ONTARIO-MICH						779.8	-0.0	0.22232		0.24332	742.5	-111.0				
			C:147834 NIAG 345	345	149000	ROCH 345	345 1 1226												
			Open 147834 NIAG 345	345	149000	ROCH 345	345 1					0.09047	-0.23213	412.2	1226.4				
1767	-3376.1	-530.3	L: Interface 26 ONTARIO-MICH						781.4	-0.0	0.23144		0.24332	742.5	-78.9				
			C:130754 KINTI345	345	149000	ROCH 345	345 1 205												
			Open 130754 KINTI345	345	149000	ROCH 345	345 1					0.07501	-0.15832	517.8	1052.3				
1768	-3297.5	-514.1	L: Interface 26 ONTARIO-MICH						756.6	-0.0	0.22946		0.24332	742.5	-59.8				
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL				1647												
			Open 505 SHELOCTA	230	521	KEYSTONE	230 1					0.09010	-0.12419	55.8	465.3				
			Open 473 BLAIRSVL	138	235253	01SOCIAL	138 1					0.09015	-0.02964	100.7	198.5				
1769	-3253.5	-504.9	L: Interface 26 ONTARIO-MICH						796.6	0.0	0.24484		0.24332	742.5	-49.1				
			C:BUS:N.S._99				1612												
			Open 137453 N.SCOT99	345	147831	GILB 345	345 1					0.00308	0.02792	-312.3	-403.1				
			Open 137453 N.SCOT99	345	147833	MARCY T1	345 1					-0.04637	-0.02700	-914.5	-826.6				
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115 1					-0.00404	-0.00084	118.7	121.4				
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345 2					-0.01487	-0.01218	-857.7	-818.1				
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345 1					0.20434	0.00000	1.6	1.6				
1770	-3241.4	-502.5	L: Interface 26 ONTARIO-MICH						793.1	0.0	0.24468		0.24332	742.5	-46.2				
			C:SIN:180				1669												

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			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1		-0.05033	-0.02700	-914.5	-826.9	
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1		0.03792	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	147905	ILION	115	1		-0.00004	-0.00001	88.8	88.8	
1771	-3241.4	-502.5	L: Interface 26 ONTARIO-MICH						793.1	-0.0	0.24468	0.24332	742.5	-46.2
			C:SIN:170					1668						
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1		-0.05033	-0.02700	-914.5	-826.9	
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1		0.03792	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	137246	VALLEY	115	1		-0.00006	-0.00002	74.8	74.9	
1772	-3240.5	-502.3	L: Interface 26 ONTARIO-MICH						768.6	-0.0	0.23719	0.24332	742.5	-45.9
			C:W44LC					1639						
			Open 160062 LONGWOOD	220	160074	COWALJ44	220	1		-0.15913	0.02058	189.8	123.1	
			Open 160074 COWALJ44	220	160134	BUCHJW44	220	1		0.16154	-0.01759	334.0	391.0	
			Open 160054 BUCHANAN	220	160134	BUCHJW44	220	1		-0.00034	0.01759	-255.7	-312.7	
			Open 160055 CHATHAM	220	160074	COWALJ44	220	1		0.72213	0.00000	3.1	3.1	
1773	-3240.3	-502.2	L: Interface 26 ONTARIO-MICH						768.6	-0.0	0.23720	0.24332	742.5	-45.9
			C:W45LC					1640						
			Open 160062 LONGWOOD	220	160075	COWALJ45	220	1		-0.15907	0.02056	189.8	123.2	
			Open 160075 COWALJ45	220	160135	BUCHJW45	220	1		0.16149	-0.01758	333.8	390.8	
			Open 160054 BUCHANAN	220	160135	BUCHJW45	220	1		-0.00034	0.01758	-262.0	-319.0	
			Open 160055 CHATHAM	220	160075	COWALJ45	220	1		0.72209	0.00000	3.1	3.1	
1774	-3237.9	-501.7	L: Interface 26 ONTARIO-MICH						787.4	-0.0	0.24320	0.24332	742.5	-45.3
			C:SIN:440					1680						
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1		0.04028	-0.00301	1115.0	1124.7	
1775	-3237.9	-501.7	*L: Interface 26 ONTARIO-MICH						787.4	-0.0	0.24320	0.24332	742.5	-45.3
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1	7					
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1		0.04028	-0.00301	1115.0	1124.7	
3530	-1231.5	-87.2	L: Interface 50 PJMCentral-C						-235.8	0.0	-0.19146	-0.20658	-167.2	87.2
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755	OAKDL345	345	1		0.11764	0.12852	-583.4	-741.7	
3531	-1231.5	-87.2	L: Interface 49 C-PJMCentral						235.8	-0.0	0.19146	0.20658	167.2	-87.2
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755	OAKDL345	345	1		-0.11764	0.12852	-583.4	-741.7	
3532	-1220.7	-85.0	L: Interface 50 PJMCentral-C						-203.2	0.0	-0.16651	-0.20658	-167.2	85.0
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.14592	0.27465	-247.3	-582.5	
3533	-1220.7	-85.0	L: Interface 49 C-PJMCentral						203.2	-0.0	0.16651	0.20658	167.2	-85.0
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.14592	0.27465	-247.3	-582.5	
3534	-1091.7	-58.4	L: Interface 50 PJMCentral-C						-223.5	-0.0	-0.20470	-0.20658	-167.2	58.4
			C:130750 COOPC345	345	130753	FRASR345	345	1	192					
			Open 130750 COOPC345	345	130753	FRASR345	345	1		0.05637	0.03344	-998.8	-1035.3	
3535	-1091.7	-58.4	L: Interface 49 C-PJMCentral						223.5	0.0	0.20470	0.20658	167.2	-58.4

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			C:130750 COOPC345	345	130753 FRASR345	345	1	192											
			Open 130750 COOPC345	345	130753 FRASR345	345	1												
3536	-995.8	-38.5	L: Interface	50	PJMCentral-C														
			C:SIN:440					1680											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
3537	-995.8	-38.5	L: Interface	49	C-PJMCentral														
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
3538	-995.8	-38.5	L: Interface	50	PJMCentral-C														
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
3539	-995.8	-38.5	L: Interface	49	C-PJMCentral														
			C:SIN:440					1680											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
3540	-960.2	-31.2	L: Interface	49	C-PJMCentral														
			C:BUS:N.S._99					1612											
			Open 137453 N.SCOT99	345	147831 GILB	345	1												
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1												
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1												
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2												
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1												
3541	-960.2	-31.2	L: Interface	50	PJMCentral-C														
			C:BUS:N.S._99					1612											
			Open 137453 N.SCOT99	345	147831 GILB	345	1												
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1												
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1												
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2												
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1												
3542	-959.9	-31.1	L: Interface	49	C-PJMCentral														
			C:GEN:SALEM					1564											
			Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch										
3543	-959.9	-31.1	L: Interface	50	PJMCentral-C														
			C:GEN:SALEM					1564											
			Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch										
3544	-952.7	-29.6	L: Interface	49	C-PJMCentral														
			C:GEN:MARTN CK					1566											
			Remove unit 4 from bus	3151	MTN CK 4	24.0	704.3	MW	dispatch										
3545	-952.7	-29.6	L: Interface	50	PJMCentral-C														
			C:GEN:MARTN CK					1566											
			Remove unit 4 from bus	3151	MTN CK 4	24.0	704.3	MW	dispatch										
3546	-949.9	-29.1	*L: Interface	50	PJMCentral-C														
			C:SER:CMT34&MTR34					1590											

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			Open 130750 COOPC345	345	146754	MDTN TAP	345	1			-0.04092	-0.00603	874.4	880.1
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1			-0.01611	0.00525	-425.6	-430.6
3547	-949.9	-29.1	*L: Interface 49 C-PJMCentral						196.1	-0.0	0.20642	0.20658	167.2	-29.1
			C:SER:CMT34&MTR34					1590						
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1			0.04092	-0.00603	874.4	880.1
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1			0.01611	0.00525	-425.6	-430.6
6646	-805.5	0.8	L: Interface 52 PJMEast-G						-63.2	-0.0	-0.07848	-0.00000	0.3	0.3
			C:130763 HILSD230	230	200675	E.TWANDA	230	1	1375					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.37991	0.20658	167.2	0.8
6647	-805.5	0.8	L: Interface 52 PJMEast-G						-63.2	-0.0	-0.07848	-0.00000	0.3	0.3
			C:ETHS/LLGD					1646						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.37991	0.20658	167.2	0.8
6648	-805.5	0.8	L: Interface 51 G-PJMEast						63.2	0.0	0.07848	0.00000	-0.3	-0.3
			C:SER:ETHS/NWES					1603						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.37991	0.20658	167.2	0.8
6649	-805.5	0.8	L: Interface 52 PJMEast-G						-63.2	-0.0	-0.07848	-0.00000	0.3	0.3
			C:ETHS/NWES/LLGD					1645						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.37991	0.20658	167.2	0.8
6650	-805.5	0.8	L: Interface 51 G-PJMEast						63.2	0.0	0.07848	0.00000	-0.3	-0.3
			C:130763 HILSD230	230	200675	E.TWANDA	230	1	1375					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.37991	0.20658	167.2	0.8
6651	-805.5	0.8	L: Interface 52 PJMEast-G						-63.2	-0.0	-0.07848	-0.00000	0.3	0.3
			C:SER:ETHS/NWES					1603						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.37991	0.20658	167.2	0.8
6652	-805.5	0.8	L: Interface 51 G-PJMEast						63.2	0.0	0.07848	0.00000	-0.3	-0.3
			C:ETHS/LLGD					1646						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.37991	0.20658	167.2	0.8
6653	-805.5	0.8	L: Interface 51 G-PJMEast						63.2	0.0	0.07848	0.00000	-0.3	-0.3
			C:ETHS/NWES/LLGD					1645						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.37991	0.20658	167.2	0.8
6806	-798.8	2.2	L: Interface 51 G-PJMEast						62.6	-0.0	0.07837	0.00000	-0.3	-0.3
			C:SER:C398/NWES					1602						
			Open 409 GROVER	230	200675	E.TWANDA	230	1			0.02785	-0.00578	-15.8	-11.2
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.38058	0.20658	167.2	2.2
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1			0.00407	-0.02242	-71.6	-53.7
6807	-798.8	2.2	L: Interface 52 PJMEast-G						-62.6	0.0	-0.07837	-0.00000	0.3	0.3
			C:SER:C398/NWES					1602						
			Open 409 GROVER	230	200675	E.TWANDA	230	1			-0.02785	-0.00578	-15.8	-11.2
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.38058	0.20658	167.2	2.2
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1			-0.00407	-0.02242	-71.6	-53.7
7050	-226.4	120.4	L: Interface 63 PJMW2C						-50.1	-0.0	-0.22117	-0.43660	368.9	467.8
			C:BUS:WATERCURE_345					1629						

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				Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.89184	0.23002	-536.1	-588.2	
				Open 130757 WATRC345	345	130768	WATRC230	230	1		0.23049	0.04463	267.1	256.9	
				Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.11241	0.00000	21.8	21.8	
7051	-226.4	120.4	L:	Interface 62 C2PJM						50.1	0.0	0.22117	0.43660	-368.9	-467.8
				C:BUS:WATERCURE_345					1629						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.89184	0.23002	-536.1	-588.2	
				Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.23049	0.04463	267.1	256.9	
				Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.11241	0.00000	21.8	21.8	
7058	-207.6	124.3	L:	Interface 63 PJMW2C						-53.0	-0.0	-0.25555	-0.43660	368.9	459.6
				C:SER:HC-WC_30&W-F_171					1598						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.78714	0.23002	-536.1	-583.9	
7059	-207.6	124.3	L:	Interface 63 PJMW2C						-53.0	-0.0	-0.25555	-0.43660	368.9	459.6
				C:SER:HCWC/NWES					1604						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.78714	0.23002	-536.1	-583.9	
7060	-207.6	124.3	L:	Interface 62 C2PJM						53.0	0.0	0.25555	0.43660	-368.9	-459.6
				C:130757 WATRC345	345	200769	HOMER CY	345	1	1374					
				Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.78714	0.23002	-536.1	-583.9	
7061	-207.6	124.3	L:	Interface 63 PJMW2C						-53.0	-0.0	-0.25555	-0.43660	368.9	459.6
				C:130757 WATRC345	345	200769	HOMER CY	345	1	1374					
				Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.78714	0.23002	-536.1	-583.9	
7062	-207.6	124.3	L:	Interface 62 C2PJM						53.0	0.0	0.25555	0.43660	-368.9	-459.6
				C:SER:HC-WC_30&W-F_171					1598						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.78714	0.23002	-536.1	-583.9	
7063	-207.6	124.3	L:	Interface 62 C2PJM						53.0	0.0	0.25555	0.43660	-368.9	-459.6
				C:SER:HCWC/NWES					1604						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.78714	0.23002	-536.1	-583.9	
7064	-4.9	166.2	L:	Interface 52 PJMEast-G						-0.2	-0.0	-0.03210	-0.00000	0.3	0.3
				C:SER:EESR/NWES					1605						
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1		-0.17668	0.18167	2.5	1.6	
7065	-4.9	166.2	L:	Interface 51 G-PJMEast						0.2	0.0	0.03210	0.00000	-0.3	-0.3
				C:135251 S RIPLEY	230	200654	ERIE E	230	1	1376					
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1		0.17668	0.18167	2.5	1.6	
7066	-4.9	166.2	L:	Interface 51 G-PJMEast						0.2	0.0	0.03210	0.00000	-0.3	-0.3
				C:SER:EESR/WF/NWES					1608						
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1		0.17668	0.18167	2.5	1.6	
7067	-4.9	166.2	L:	Interface 51 G-PJMEast						0.2	0.0	0.03210	0.00000	-0.3	-0.3
				C:SER:EESR/NWES					1605						
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1		0.17668	0.18167	2.5	1.6	
7068	-4.9	166.2	L:	Interface 51 G-PJMEast						0.2	0.0	0.03210	0.00000	-0.3	-0.3
				C:SER:EESR/WRFL					1606						
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1		0.17668	0.18167	2.5	1.6	
7069	-4.9	166.2	L:	Interface 52 PJMEast-G						-0.2	-0.0	-0.03210	-0.00000	0.3	0.3

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			C:SER:EESR/WF/NWES												1608
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				-0.17668	0.18167	2.5	1.6
7070	-4.9	166.2	L: Interface 52 PJMEast-G						-0.2	-0.0	-0.03210	-0.00000	0.3	0.3	
			C:SER:EESR/WRFL												1606
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				-0.17668	0.18167	2.5	1.6
7071	-4.9	166.2	L: Interface 52 PJMEast-G						-0.2	-0.0	-0.03210	-0.00000	0.3	0.3	
			C:135251 S RIPLEY	230	200654	ERIE E	230	1							1376
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				-0.17668	0.18167	2.5	1.6
7072	138.2	195.7	*L: Interface 52 PJMEast-G						4.4	-0.0	-0.03214	-0.00000	0.3	0.3	
			C:SER:ESEE/WRFL												1607
			Open 270 ERIE SO.	230	531	ERIE SE	230	1				0.00073	-0.15903	27.8	5.8
			Open 531 ERIE SE	230	200654	ERIE E	230	1				0.17626	-0.18167	23.5	-1.7
7073	138.2	195.7	*L: Interface 51 G-PJMEast						-4.4	0.0	0.03214	0.00000	-0.3	-0.3	
			C:SER:ESEE/WRFL												1607
			Open 270 ERIE SO.	230	531	ERIE SE	230	1				-0.00073	-0.15903	27.8	5.8
			Open 531 ERIE SE	230	200654	ERIE E	230	1				-0.17626	-0.18167	23.5	-1.7
7076	580.7	287.1	L: Interface 63 PJMW2C						236.6	-0.0	-0.40745	-0.43660	368.9	115.4	
			C:130753 FRASR345	345	130755	OAKDL345	345	1							200
			Open 130753 FRASR345	345	130755	OAKDL345	345	1				0.22684	0.12852	-583.4	-508.8
7077	580.7	287.1	L: Interface 62 C2PJMW						-236.6	0.0	0.40745	0.43660	-368.9	-115.4	
			C:130753 FRASR345	345	130755	OAKDL345	345	1							200
			Open 130753 FRASR345	345	130755	OAKDL345	345	1				-0.22684	0.12852	-583.4	-508.8
7078	623.9	296.1	L: Interface 63 PJMW2C						270.3	0.0	-0.43330	-0.43660	368.9	96.5	
			C:130750 COOPC345	345	130753	FRASR345	345	1							192
			Open 130750 COOPC345	345	130753	FRASR345	345	1				0.09871	0.03344	-998.8	-978.0
7079	623.9	296.1	L: Interface 62 C2PJMW						-270.3	-0.0	0.43330	0.43660	-368.9	-96.5	
			C:130750 COOPC345	345	130753	FRASR345	345	1							192
			Open 130750 COOPC345	345	130753	FRASR345	345	1				-0.09871	0.03344	-998.8	-978.0
7080	703.0	312.4	L: Interface 63 PJMW2C						306.8	0.0	-0.43643	-0.43660	368.9	62.0	
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1							7
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.05574	-0.00301	1115.0	1112.9
7081	703.0	312.4	L: Interface 63 PJMW2C						306.8	0.0	-0.43643	-0.43660	368.9	62.0	
			C:SIN:440												1680
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.05574	-0.00301	1115.0	1112.9
7082	703.0	312.4	L: Interface 62 C2PJMW						-306.8	-0.0	0.43643	0.43660	-368.9	-62.0	
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1							7
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.05574	-0.00301	1115.0	1112.9
7083	703.0	312.4	L: Interface 62 C2PJMW						-306.8	-0.0	0.43643	0.43660	-368.9	-62.0	
			C:SIN:440												1680
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.05574	-0.00301	1115.0	1112.9
7084	736.0	319.2	L: Interface 62 C2PJMW						-321.7	0.0	0.43709	0.43660	-368.9	-47.6	
			C:BUS:N.S._99												1612

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			Open 137453 N.SCOT99	345	147831	GILB	345	345	1				-0.02116	0.02792	-312.3	-291.7
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	345	1				-0.03552	-0.02700	-914.5	-934.4
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	115	1				-0.00183	-0.00084	118.7	118.1
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	345	2				-0.00957	-0.01218	-857.7	-866.7
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	345	1				0.10899	0.00000	1.6	1.6
7085	736.0	319.2	L: Interface 63 PJMW2C							321.7	-0.0	-0.43709		-0.43660	368.9	47.6
			C:BUS:N.S._99						1612							
			Open 137453 N.SCOT99	345	147831	GILB	345	345	1				0.02116	0.02792	-312.3	-291.7
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	345	1				0.03552	-0.02700	-914.5	-934.4
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	115	1				0.00183	-0.00084	118.7	118.1
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	345	2				0.00957	-0.01218	-857.7	-866.7
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	345	1				-0.10899	0.00000	1.6	1.6
7086	736.5	319.3	*L: Interface 62 C2PJM							-321.3	0.0	0.43633		0.43660	-368.9	-47.4
			C:SER:CMT34&MTR34						1590							
			Open 130750 COOPC345	345	146754	MDTN TAP	345	345	1				0.06712	-0.00603	874.4	869.9
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	345	1				0.02604	0.00525	-425.6	-421.7
7087	736.5	319.3	*L: Interface 63 PJMW2C							321.3	-0.0	-0.43633		-0.43660	368.9	47.4
			C:SER:CMT34&MTR34						1590							
			Open 130750 COOPC345	345	146754	MDTN TAP	345	345	1				-0.06712	-0.00603	874.4	869.9
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	345	1				-0.02604	0.00525	-425.6	-421.7
10564	1031.6	380.3	L: 130787 CODNT115	115	130830	MONTR115	115	115	1	74.8	144.0	0.06709		0.04666	15.7	63.8
			C:130755 OAKDL345	345	131128	LAPEER	345	345	1	209						
			Open 130755 OAKDL345	345	131128	LAPEER	345	345	1				-0.10460	-0.19534	-565.0	-766.5
10579	1079.4	390.2	L: 130830 MONTR115	115	130845	RIDGT115	115	115	1	84.8	133.0	0.04469		0.03154	46.7	80.8
			C:130755 OAKDL345	345	131128	LAPEER	345	345	1	209						
			Open 130755 OAKDL345	345	131128	LAPEER	345	345	1				-0.06731	-0.19534	-565.0	-775.9
10586	1138.1	402.3	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	22.0	1	-558.2	-1030.0	-0.41455		-0.41455	-557.9	-1029.7
			C:GEN:SEABROOK						1570							
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch									
10587	1138.1	402.3	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	22.0	1	-558.2	-1030.0	-0.41455		-0.41455	-557.9	-1029.7
			C:GEN:SEAB&OMS						1572							
			Open 100508 SANDB115	115	100509	SB RCTOR	115	115	2				0.00000	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch									
10588	1138.2	402.3	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	22.0	1	-558.2	-1030.0	-0.41455		-0.41455	-557.9	-1029.7
			C:GEN:MLS3&OMS						1571							
			Open 100508 SANDB115	115	100509	SB RCTOR	115	115	2				0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch									
10589	1138.2	402.3	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	22.0	1	-558.2	-1030.0	-0.41455		-0.41455	-557.9	-1029.7
			C:GEN:MILLST 3						1569							
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch									
10590	1138.2	402.3	L: 136154 OSWEGO	345	136702	OSWGO 5G	22.0	22.0	1	-558.2	-1030.0	-0.41455		-0.41455	-557.9	-1029.7
			C:GEN:9 MI PT2						1558							

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10591	1138.2	402.3	L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1	25.0	1197.5 MW	dispatch	-558.1	-1030.0	-0.41455	-0.41455	-557.9	-1029.8
			C:GEN:SALEM													
			Remove unit 1 from bus		36 SALEM-G1	22.0	1117.3 MW		dispatch							
10592	1138.3	402.3	L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1				-558.1	-1030.0	-0.41455	-0.41455	-557.9	-1029.8
			C:GEN:IND PT 3													
			Remove unit 1 from bus		147798 IP#3 GEN	22.0	1072.8 MW		dispatch							
10593	1138.3	402.3	L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1				-558.1	-1030.0	-0.41455	-0.41455	-557.9	-1029.8
			C:GEN:PEACHBTM													
			Remove unit 1 from bus		34 PCHBTM 2	22.0	1060.3 MW		dispatch							
10594	1138.3	402.3	L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1				-558.1	-1030.0	-0.41455	-0.41455	-557.9	-1029.8
			C:GEN:IND PT 2													
			Remove unit 2 from bus		126651 IND PT 2	22.0	1053.7 MW		dispatch							
10595	1138.3	402.3	*L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1				-558.1	-1030.0	-0.41455	-0.41455	-557.9	-1029.8
			C:GEN:IND PT 3-New													
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1				0.00000	0.00000		522.5	522.5	
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2				0.00021	0.00000		-1041.8	-1041.8	
11050	1138.8	402.4	L: 136154 OSWEGO	345	136702 OSWGO 5G	22.0	1				-557.9	-1030.0	-0.41455			
			Base Case													
12357	1372.7	450.7	L: 130830 MONTR115	115	130845 RIDGT115	115	1				65.9	133.0	0.04890	0.03154	46.7	90.0
			C:130830 MONTR115	115	130844 RIDGR115	115	1	333								
			Open 130830 MONTR115	115	130844 RIDGR115	115	1				0.57515	0.03018		33.3	74.7	
12358	1416.6	459.8	L: 130830 MONTR115	115	130845 RIDGT115	115	1				70.4	133.0	0.04421	0.03154	46.7	91.4
			C:BUS:WATERCURE_230					1630								
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.10325	-0.07436		59.5	-45.8	
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.11176	0.04463		267.1	330.3	
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.10454	0.00000		0.5	0.5	
12359	1428.4	462.2	L: 130830 MONTR115	115	130845 RIDGT115	115	1				69.4	133.0	0.04455	0.03154	46.7	91.8
			C:130763 HILSD230	230	130768 WATRC230	230	1	219								
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.10933	-0.11899		-207.1	-377.0	
12360	1506.2	478.3	L: 136158 INDEPNDC	345	136719 SITH-S5	18.0	1				-161.9	-215.0	-0.03528			
			Base Case													
12361	1506.2	478.3	L: 136158 INDEPNDC	345	136720 SITH-S6	18.0	1				-161.9	-215.0	-0.03528			
			Base Case													
12362	1528.9	483.0	L: 130763 HILSD230	230	200675 E.TWANDA	230	1				167.2	483.0	0.20658			
			Base Case													
12365	1559.9	489.4	L: 130807 GOUDY115	115	130848 S.OWE115	115	1				58.6	143.0	0.05411	0.02912	15.1	60.5
			C:130763 HILSD230	230	130768 WATRC230	230	1	219								
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.21004	-0.11899		-207.1	-392.7	
12366	1583.0	494.2	L: 130800 ETNA 115	115	130827 MILKN115	115	2				-184.8	-255.0	-0.04434	-0.02611	-108.0	-149.4
			C:130800 ETNA 115	115	130827 MILKN115	115	1	286								
			Open 130800 ETNA 115	115	130827 MILKN115	115	1				0.76086	-0.02396		-100.9	-138.8	

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12367	1600.8	497.9	L: 130787 CODNT115	115	130830	MONTR115	115	1	43.9	144.0	0.06252	0.04666	15.7	90.4
			C:BUS:WATERCURE_230					1630						
			Open 130768 WATRC230	230	130772	SHRED230	230	1			-0.13208	-0.07436	59.5	-59.5
			Open 130757 WATRC345	345	130768	WATRC230	230	1			0.13534	0.04463	267.1	338.5
			Open 130763 HILSD230	230	130768	WATRC230	230	1			-0.10781	0.00000	0.5	0.5
12368	1603.8	498.5	L: 130787 CODNT115	115	130830	MONTR115	115	1	43.5	144.0	0.06265	0.04666	15.7	90.5
			C:130763 HILSD230	230	130768	WATRC230	230	1	219					
			Open 130763 HILSD230	230	130768	WATRC230	230	1			-0.13441	-0.11899	-207.1	-397.9
12369	1609.2	499.6	L: 130792 CORN TP2	115	130800	ETNA 115	115	1	-82.4	-143.0	-0.03768	-0.01862	-50.6	-80.6
			C:130787 CODNT115	115	130800	ETNA 115	115	1	255					
			Open 130787 CODNT115	115	130800	ETNA 115	115	1			0.76003	-0.02508	-41.7	-82.1
12370	1618.1	501.4	L: 130807 GOUDY115	115	130848	S.OWE115	115	1	51.6	143.0	0.05651	0.02912	15.1	62.2
			C:BUS:WATERCURE_230					1630						
			Open 130768 WATRC230	230	130772	SHRED230	230	1			-0.25255	-0.07436	59.5	-60.8
			Open 130757 WATRC345	345	130768	WATRC230	230	1			0.19304	0.04463	267.1	339.3
			Open 130763 HILSD230	230	130768	WATRC230	230	1			-0.14175	0.00000	0.5	0.5
12371	1695.9	517.5	L: 130800 ETNA 115	115	130827	MILKN115	115	1	-181.4	-255.0	-0.04341	-0.02396	-100.9	-141.5
			C:130800 ETNA 115	115	130827	MILKN115	115	2	287					
			Open 130800 ETNA 115	115	130827	MILKN115	115	2			0.74493	-0.02611	-108.0	-152.3
12372	1754.0	529.5	L: 130830 MONTR115	115	130844	RIDGR115	115	1	69.9	145.0	0.04283	0.03018	33.3	86.2
			C:130755 OAKDL345	345	131128	LAPEER	345	1	209					
			Open 130755 OAKDL345	345	131128	LAPEER	345	1			-0.06475	-0.19534	-565.0	-907.7
12373	1778.5	534.6	L: 136150 CLAY	345	136156	VOLNEY	345	1	-708.1	-1032.0	-0.18212			
			Base Case											
12374	1797.3	538.5	L: 130830 MONTR115	115	130844	RIDGR115	115	1	59.3	145.0	0.04771	0.03018	33.3	87.5
			C:130830 MONTR115	115	130845	RIDGT115	115	1	334					
			Open 130830 MONTR115	115	130845	RIDGT115	115	1			0.55565	0.03154	46.7	103.4
12375	1819.5	543.0	L: 136154 OSWEGO	345	136703	OSWGO 6G	22.0	1	-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.6
			C:GEN:SEABROOK					1570						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch								
12376	1819.5	543.0	L: 136154 OSWEGO	345	136703	OSWGO 6G	22.0	1	-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.6
			C:GEN:SEAB&OMS					1572						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00000	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch								
12377	1819.6	543.1	L: 136154 OSWEGO	345	136703	OSWGO 6G	22.0	1	-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:MILLST 3					1569						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch								
12378	1819.6	543.1	L: 136154 OSWEGO	345	136703	OSWGO 6G	22.0	1	-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.7
			C:GEN:MLS3&OMS					1571						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch								
12379	1819.8	543.1	L: 136154 OSWEGO	345	136703	OSWGO 6G	22.0	1	-750.3	-1030.0	-0.15371	-0.15371	-750.0	-1029.7

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			C:GEN:9 MI PT2			1558														
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch													
12380	1819.9	543.1	L: 136154 OSWEGO 345 136703 OSWGO 6G	22.0	1			-750.3	-1030.0	-0.15371		-0.15371	-750.0	-1029.7						
			C:GEN:SALEM			1564														
			Remove unit 1 from bus 36 SALEM-G1	22.0	1117.3	MW	dispatch													
12381	1820.0	543.1	L: 136154 OSWEGO 345 136703 OSWGO 6G	22.0	1			-750.3	-1030.0	-0.15371		-0.15371	-750.0	-1029.7						
			C:GEN:IND PT 3			1552														
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW	dispatch													
12382	1820.0	543.1	L: 136154 OSWEGO 345 136703 OSWGO 6G	22.0	1			-750.2	-1030.0	-0.15371		-0.15371	-750.0	-1029.7						
			C:GEN:PEACHBTM			1565														
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1060.3	MW	dispatch													
12383	1820.0	543.1	L: 136154 OSWEGO 345 136703 OSWGO 6G	22.0	1			-750.2	-1030.0	-0.15371		-0.15371	-750.0	-1029.7						
			C:GEN:IND PT 2			1551														
			Remove unit 2 from bus 126651 IND PT 2	22.0	1053.7	MW	dispatch													
12384	1820.0	543.1	*L: 136154 OSWEGO 345 136703 OSWGO 6G	22.0	1			-750.2	-1030.0	-0.15371		-0.15371	-750.0	-1029.7						
			C:GEN:IND PT 3-New			1770														
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	1			0.00000	0.00000			522.5	522.5							
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	2			0.00027	0.00000			-1041.8	-1041.8							
13361	1821.9	543.5	L: 136154 OSWEGO 345 136703 OSWGO 6G	22.0	1			-750.0	-1030.0	-0.15371										
			Base Case																	
14140	1842.7	547.8	L: 130830 MONTR115 115 130845 RIDGT115	115	1			68.6	133.0	0.03497		0.03154	46.7	104.8						
			C:BUS:WATERCURE_345			1629														
			Open 130757 WATRC345 345 200769 HOMER CY	345	1			-0.00071	0.23002			-536.1	-112.2							
			Open 130757 WATRC345 345 130768 WATRC230	230	1			0.08039	0.04463			267.1	349.3							
			Open 130755 OAKDL345 345 130757 WATRC345	345	1			-0.00028	0.00000			21.8	21.8							
14141	1843.3	548.0	L: 130830 MONTR115 115 130845 RIDGT115	115	1			68.2	133.0	0.03514		0.03154	46.7	104.9						
			C:130757 WATRC345 345 130768 WATRC230	230	1	213														
			Open 130757 WATRC345 345 130768 WATRC230	230	1			0.08054	0.04463			267.1	349.3							
14142	1851.4	549.6	L: 136150 CLAY 345 136156 VOLNEY	345	1			-1004.1	-1434.0	-0.23222		-0.18212	-708.1	-1045.3						
			C:136150 CLAY 345 136158 INDEPNDC	345	1	712														
			Open 136150 CLAY 345 136158 INDEPNDC	345	1			0.36036	-0.13903			-821.3	-1078.7							
14145	1866.8	552.8	L: Interface 48 PJMWest-C					503.7	0.0	-0.26983		-0.23002	536.1	106.7						
			C:SER:C398/NWES			1602														
			Open 409 GROVER 230 200675 E.TWANDA	230	1			0.00850	-0.00578			-15.8	-26.6							
			Open 130763 HILSD230 230 200675 E.TWANDA	230	1			-0.19236	0.20658			167.2	552.8							
			Open 381 TOWANDA 115 200675 E.TWANDA	230	1			0.00124	-0.02242			-71.6	-113.5							
14146	1866.8	552.8	L: Interface 60 C2PJMC					-503.7	-0.0	0.26983		0.23002	-536.1	-106.7						
			C:SER:C398/NWES			1602														
			Open 409 GROVER 230 200675 E.TWANDA	230	1			-0.00850	-0.00578			-15.8	-26.6							
			Open 130763 HILSD230 230 200675 E.TWANDA	230	1			0.19236	0.20658			167.2	552.8							
			Open 381 TOWANDA 115 200675 E.TWANDA	230	1			-0.00124	-0.02242			-71.6	-113.5							
14147	1866.8	552.8	L: Interface 61 PJMC2C					503.7	0.0	-0.26983		-0.23002	536.1	106.7						

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			C:SER:C398/NWES		1602								
			Open 409 GROVER	230	200675	E.TWANDA	230	1		0.00850	-0.00578	-15.8	-26.6
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		-0.19236	0.20658	167.2	552.8
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1		0.00124	-0.02242	-71.6	-113.5
14148	1866.8	552.8	L: Interface 47 C-PJMWest						-503.7	-0.0	0.26983	0.23002	-536.1 -106.7
			C:SER:C398/NWES					1602					
			Open 409 GROVER	230	200675	E.TWANDA	230	1		-0.00850	-0.00578	-15.8	-26.6
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		0.19236	0.20658	167.2	552.8
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1		-0.00124	-0.02242	-71.6	-113.5
14151	1867.7	553.0	L: Interface 60 C2PJMC						-503.9	-0.0	0.26980	0.23002	-536.1 -106.5
			C:ETHS/LLGD					1646					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		0.19257	0.20658	167.2	553.0
14152	1867.7	553.0	L: Interface 48 PJMWest-C						503.9	0.0	-0.26980	-0.23002	536.1 106.5
			C:ETHS/LLGD					1646					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		-0.19257	0.20658	167.2	553.0
14153	1867.7	553.0	L: Interface 48 PJMWest-C						503.9	0.0	-0.26980	-0.23002	536.1 106.5
			C:SER:ETHS/NWES					1603					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		-0.19257	0.20658	167.2	553.0
14154	1867.7	553.0	L: Interface 60 C2PJMC						-503.9	-0.0	0.26980	0.23002	-536.1 -106.5
			C:SER:ETHS/NWES					1603					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		0.19257	0.20658	167.2	553.0
14157	1867.7	553.0	L: Interface 47 C-PJMWest						-503.9	-0.0	0.26980	0.23002	-536.1 -106.5
			C:SER:ETHS/NWES					1603					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		0.19257	0.20658	167.2	553.0
14160	1867.7	553.0	L: Interface 61 PJMC2C						503.9	0.0	-0.26980	-0.23002	536.1 106.5
			C:130763 HILSD230	230	200675	E.TWANDA	230	1 1375					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		-0.19257	0.20658	167.2	553.0
14161	1867.7	553.0	L: Interface 60 C2PJMC						-503.9	-0.0	0.26980	0.23002	-536.1 -106.5
			C:130763 HILSD230	230	200675	E.TWANDA	230	1 1375					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		0.19257	0.20658	167.2	553.0
14162	1867.7	553.0	L: Interface 61 PJMC2C						503.9	0.0	-0.26980	-0.23002	536.1 106.5
			C:ETHS/LLGD					1646					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		-0.19257	0.20658	167.2	553.0
14163	1867.7	553.0	L: Interface 48 PJMWest-C						503.9	0.0	-0.26980	-0.23002	536.1 106.5
			C:130763 HILSD230	230	200675	E.TWANDA	230	1 1375					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		-0.19257	0.20658	167.2	553.0
14164	1867.7	553.0	L: Interface 47 C-PJMWest						-503.9	-0.0	0.26980	0.23002	-536.1 -106.5
			C:ETHS/NWES/LLGD					1645					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		0.19257	0.20658	167.2	553.0
14165	1867.7	553.0	L: Interface 47 C-PJMWest						-503.9	-0.0	0.26980	0.23002	-536.1 -106.5
			C:130763 HILSD230	230	200675	E.TWANDA	230	1 1375					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		0.19257	0.20658	167.2	553.0

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14166	1867.7	553.0	L: Interface 48 PJMWest-C			503.9	0.0	-0.26980		-0.23002	536.1	106.5
			C:ETHS/NWES/LLGD		1645							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		-0.19257	0.20658	167.2	553.0
14167	1867.7	553.0	L: Interface 47 C-PJMWest			-503.9	-0.0	0.26980		0.23002	-536.1	-106.5
			C:ETHS/LLGD		1646							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.19257	0.20658	167.2	553.0
14168	1867.7	553.0	L: Interface 61 PJMC2C			503.9	0.0	-0.26980		-0.23002	536.1	106.5
			C:SER:ETHS/NWES		1603							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		-0.19257	0.20658	167.2	553.0
14171	1867.7	553.0	L: Interface 60 C2PJMC			-503.9	-0.0	0.26980		0.23002	-536.1	-106.5
			C:ETHS/NWES/LLGD		1645							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.19257	0.20658	167.2	553.0
14172	1867.7	553.0	L: Interface 61 PJMC2C			503.9	0.0	-0.26980		-0.23002	536.1	106.5
			C:ETHS/NWES/LLGD		1645							
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		-0.19257	0.20658	167.2	553.0
14173	1887.4	557.1	L: 130830 MONTR115 115 130845 RIDGT115 115 1			47.4	133.0	0.04535		0.03154	46.7	106.3
			C:130814 HILSD115 115 130844 RIDGR115 115 1 309									
			Open 130814 HILSD115 115 130844 RIDGR115 115 1						-0.47932	-0.02880	-1.4	-55.8
14174	1921.5	564.1	L: Interface 47 C-PJMWest			-476.2	0.0	0.24781		0.23002	-536.1	-94.1
			C:BUS:WATERCURE_230		1630							
			Open 130768 WATRC230 230 130772 SHRED230 230 1						-0.09231	-0.07436	59.5	-83.4
			Open 130757 WATRC345 345 130768 WATRC230 230 1						0.24486	0.04463	267.1	352.8
			Open 130763 HILSD230 230 130768 WATRC230 230 1						0.06349	0.00000	0.5	0.5
14175	1921.5	564.1	L: Interface 48 PJMWest-C			476.2	-0.0	-0.24781		-0.23002	536.1	94.1
			C:BUS:WATERCURE_230		1630							
			Open 130768 WATRC230 230 130772 SHRED230 230 1						0.09231	-0.07436	59.5	-83.4
			Open 130757 WATRC345 345 130768 WATRC230 230 1						-0.24486	0.04463	267.1	352.8
			Open 130763 HILSD230 230 130768 WATRC230 230 1						-0.06349	0.00000	0.5	0.5
14176	1921.5	564.1	L: Interface 61 PJMC2C			476.2	-0.0	-0.24781		-0.23002	536.1	94.1
			C:BUS:WATERCURE_230		1630							
			Open 130768 WATRC230 230 130772 SHRED230 230 1						0.09231	-0.07436	59.5	-83.4
			Open 130757 WATRC345 345 130768 WATRC230 230 1						-0.24486	0.04463	267.1	352.8
			Open 130763 HILSD230 230 130768 WATRC230 230 1						-0.06349	0.00000	0.5	0.5
14177	1921.5	564.1	L: Interface 60 C2PJMC			-476.2	0.0	0.24781		0.23002	-536.1	-94.1
			C:BUS:WATERCURE_230		1630							
			Open 130768 WATRC230 230 130772 SHRED230 230 1						-0.09231	-0.07436	59.5	-83.4
			Open 130757 WATRC345 345 130768 WATRC230 230 1						0.24486	0.04463	267.1	352.8
			Open 130763 HILSD230 230 130768 WATRC230 230 1						0.06349	0.00000	0.5	0.5
14178	1942.7	568.5	L: 130830 MONTR115 115 130845 RIDGT115 115 1			46.7	108.0	0.03154				
			Base Case									
14179	1946.8	569.3	L: Interface 47 C-PJMWest			-494.4	-0.0	0.25397		0.23002	-536.1	-88.3
			C:130763 HILSD230 230 130768 WATRC230 230 1 219									

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			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.20129	-0.11899	-207.1	-438.7
14180	1946.8	569.3	L: Interface 48 PJMWest-C					494.4	0.0	-0.25397		-0.23002	536.1	88.3
			C:130763 HILSD230	230	130768 WATRC230	230	1 219							
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.20129	-0.11899	-207.1	-438.7
14181	1946.8	569.3	L: Interface 60 C2PJMC					-494.4	-0.0	0.25397		0.23002	-536.1	-88.3
			C:130763 HILSD230	230	130768 WATRC230	230	1 219							
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.20129	-0.11899	-207.1	-438.7
14182	1946.8	569.3	L: Interface 61 PJMC2C					494.4	0.0	-0.25397		-0.23002	536.1	88.3
			C:130763 HILSD230	230	130768 WATRC230	230	1 219							
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.20129	-0.11899	-207.1	-438.7
14183	1966.2	573.4	L: 130792 CORN TP2	115	131397 E.ITH115	115	1	68.9	143.0	0.03768		0.01862	37.2	73.8
			C:130787 CODNT115	115	130800 ETNA 115	115	1 255							
			Open 130787 CODNT115	115	130800 ETNA 115	115	1				-0.76003	-0.02508	-41.7	-91.1
14184	1978.5	575.9	L: 130787 CODNT115	115	130830 MONTR115	115	1	15.7	108.0	0.04666				
			Base Case											
14185	1994.9	579.3	L: Interface 60 C2PJMC					-478.2	0.0	0.23970		0.23002	-536.1	-77.3
			C:130757 WATRC345	345	130768 WATRC230	230	1 213							
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.21695	0.04463	267.1	356.1
14186	1994.9	579.3	L: Interface 47 C-PJMWest					-478.2	0.0	0.23970		0.23002	-536.1	-77.3
			C:130757 WATRC345	345	130768 WATRC230	230	1 213							
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.21695	0.04463	267.1	356.1
14187	1994.9	579.3	L: Interface 48 PJMWest-C					478.2	-0.0	-0.23970		-0.23002	536.1	77.3
			C:130757 WATRC345	345	130768 WATRC230	230	1 213							
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.21695	0.04463	267.1	356.1
14188	1994.9	579.3	L: Interface 61 PJMC2C					478.2	-0.0	-0.23970		-0.23002	536.1	77.3
			C:130757 WATRC345	345	130768 WATRC230	230	1 213							
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.21695	0.04463	267.1	356.1
14189	2006.7	581.7	L: 130787 CODNT115	115	130830 MONTR115	115	1	28.2	144.0	0.05772		0.04666	15.7	109.3
			C:BUS:WATERCURE_345				1629							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.02837	0.23002	-536.1	-74.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.10155	0.04463	267.1	356.6
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.02677	0.00000	21.8	21.8
14190	2019.7	584.4	L: 130787 CODNT115	115	130830 MONTR115	115	1	41.2	144.0	0.05092		0.04666	15.7	109.9
			C:130757 WATRC345	345	130768 WATRC230	230	1 213							
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.09540	0.04463	267.1	357.2
14191	2036.7	587.9	L: 136150 CLAY	345	136156 VOLNEY	345	1	-946.0	-1434.0	-0.23958		-0.18212	-708.1	-1079.0
			C:136152 ELBRIDGE	345	136154 OSWEGO	345	1 722							
			Open 136152 ELBRIDGE	345	136154 OSWEGO	345	1				0.34028	-0.16887	-699.2	-1043.2
14192	2052.7	591.2	L: 136150 CLAY	345	136156 VOLNEY	345	1	-941.7	-1434.0	-0.23982		-0.18212	-708.1	-1081.9
			C:SER:OSWEG->LAFAY				1583							
			Open 136152 ELBRIDGE	345	136153 LAFAYTTE	345	1				-0.04365	0.14111	464.5	754.2
			Open 136152 ELBRIDGE	345	136154 OSWEGO	345	1				0.30523	-0.16887	-699.2	-1045.9

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			Open 136152 ELBRIDGE	345	136191 ELBRIDGE	115	1		0.01498	0.00000	6.5	6.5	
14193	2098.6	600.7	L: 130830 MONTR115	115	130844 RIDGR115	115	1	56.1	145.0	0.04237	0.03018	33.3	96.6
			C:BUS:WATERCURE_230									1630	
			Open 130768 WATRC230	230	130772 SHRED230	230	1		-0.09936	-0.07436	59.5	-96.5	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.10763	0.04463	267.1	360.7	
			Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.10082	0.00000	0.5	0.5	
14194	2104.7	601.9	L: 130830 MONTR115	115	130845 RIDGT115	115	1	31.9	133.0	0.04806	0.03154	46.7	113.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.06013	0.27465	-247.3	330.8	
14195	2105.2	602.1	L: 130830 MONTR115	115	130844 RIDGR115	115	1	55.1	145.0	0.04271	0.03018	33.3	96.8
			C:130763 HILSD230	230	130768 WATRC230	230	1	219					
			Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.10527	-0.11899	-207.1	-457.6	
14196	2132.1	607.6	L: 130830 MONTR115	115	130845 RIDGT115	115	1	58.8	133.0	0.03482	0.03154	46.7	114.0
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392					
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1		-0.01873	-0.17479	-642.9	-1015.6	
14197	2141.6	609.6	L: 130787 CODNT115	115	130830 MONTR115	115	1	-4.9	144.0	0.06953	0.04666	15.7	115.6
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.08328	0.27465	-247.3	340.9	
14198	2160.2	613.4	L: Interface 61 PJMC2C					493.8	0.0	-0.22860	-0.23002	536.1	39.2
			C:130750 COOPC345	345	130753 FRASR345	345	1	192					
			Open 130750 COOPC345	345	130753 FRASR345	345	1		0.04234	0.03344	-998.8	-926.6	
14199	2160.2	613.4	L: Interface 48 PJMWest-C					493.8	0.0	-0.22860	-0.23002	536.1	39.2
			C:130750 COOPC345	345	130753 FRASR345	345	1	192					
			Open 130750 COOPC345	345	130753 FRASR345	345	1		0.04234	0.03344	-998.8	-926.6	
14200	2160.2	613.4	L: Interface 47 C-PJMWest					-493.8	-0.0	0.22860	0.23002	-536.1	-39.2
			C:130750 COOPC345	345	130753 FRASR345	345	1	192					
			Open 130750 COOPC345	345	130753 FRASR345	345	1		-0.04234	0.03344	-998.8	-926.6	
14201	2160.2	613.4	L: Interface 60 C2PJMC					-493.8	-0.0	0.22860	0.23002	-536.1	-39.2
			C:130750 COOPC345	345	130753 FRASR345	345	1	192					
			Open 130750 COOPC345	345	130753 FRASR345	345	1		-0.04234	0.03344	-998.8	-926.6	
14202	2187.2	619.0	*L: Interface 60 C2PJMC					-472.4	0.0	0.21598	0.23002	-536.1	-33.0
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		-0.10921	0.12852	-583.4	-302.3	
14203	2187.2	619.0	*L: Interface 47 C-PJMWest					-472.4	0.0	0.21598	0.23002	-536.1	-33.0
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		-0.10921	0.12852	-583.4	-302.3	
14204	2187.2	619.0	*L: Interface 48 PJMWest-C					472.4	-0.0	-0.21598	-0.23002	536.1	33.0
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.10921	0.12852	-583.4	-302.3	
14205	2187.2	619.0	*L: Interface 61 PJMC2C					472.4	-0.0	-0.21598	-0.23002	536.1	33.0
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.10921	0.12852	-583.4	-302.3	

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14206	2195.1	620.6*L: 130830 MONTR115	115	130845 RIDGT115	115	1	65.0	133.0	0.03098	0.03154	46.7	116.0
		C:130751 CNDGUA_T	230	130761 AVOCA230	230	1 197						
		Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.13710	-0.00407	133.2	124.3
14250	2231.7	628.2 L: 130791 CORN TP1	115	131397 E.ITH115	115	1	-58.9	-143.0	-0.03768	-0.01862	-27.2	-68.7
		C:130787 CODNT115	115	130800 ETNA 115	115	1 255						
		Open 130787 CODNT115	115	130800 ETNA 115	115	1			0.76003	-0.02508	-41.7	-97.7
14251	2249.8	631.9 L: 130787 CODNT115	115	130830 MONTR115	115	1	36.9	144.0	0.04762	0.04666	15.7	120.7
		C:130800 ETNA 115	115	130863 WILET115	115	1 288						
		Open 130800 ETNA 115	115	130863 WILET115	115	1			0.23590	0.00409	89.7	98.9
14429	2309.2	644.2 L: 136150 CLAY	345	136156 VOLNEY	345	1	-932.7	-1434.0	-0.21707	-0.18212	-708.1	-1128.7
		C:136150 CLAY	345	136157 9MI PT1	345	1 711						
		Open 136150 CLAY	345	136157 9MI PT1	345	1			0.34267	-0.10200	-655.6	-891.1
14558	2318.3	646.1 L: 130848 S.OWE115	115	131850 CNYOG115	115	1	17.6	143.0	0.05411	0.02912	-25.9	41.6
		C:130763 HILSD230	230	130768 WATRC230	230	1 219						
		Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.21004	-0.11899	-207.1	-482.9
15231	2327.2	647.9 L: 130787 CODNT115	115	130830 MONTR115	115	1	33.2	144.0	0.04762	0.04666	15.7	124.3
		C:130796 E.NOR115	115	130863 WILET115	115	1 277						
		Open 130796 E.NOR115	115	130863 WILET115	115	1			-0.23590	-0.00409	-74.1	-83.6

PJMCent-ZoneC

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, APR 30 2009 13:38
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, APR 30 2009 13:38
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From PJM_EXPORT To C_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 23092 violations

Interface-1 Interface 50 PJMCentral-C Init.Flow= -198.58 TDF= 0.3006

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
			C: Contingency description	Ncon	Flow	Rating	LODF	Init	Final
1	-4243.7	-1474.1	L: Interface 55 PJME-NYEnoRE C:130753 FRASR345 345 130755 OAKDL345 345 1 200 Open 130753 FRASR345 345 130755 OAKDL345 345 1	1454.4	1287.0	0.03946	0.00000	1299.1	1299.1
2	-4243.7	-1474.1	L: Interface 56 NYE-PJMEnoRE C:130753 FRASR345 345 130755 OAKDL345 345 1 200 Open 130753 FRASR345 345 130755 OAKDL345 345 1	-1454.4	-1287.0	-0.03946	-0.00000	-1299.1	-1299.1
3	-4191.4	-1458.4	L: Interface 48 PJMWest-C C:130755 OAKDL345 345 130757 WATRC345 345 1 206 Open 130755 OAKDL345 345 130757 WATRC345 345 1	477.5	0.0	0.11393	0.17499	543.5	-189.9
4	-4191.4	-1458.4	L: Interface 47 C-PJMWest C:130755 OAKDL345 345 130757 WATRC345 345 1 206 Open 130755 OAKDL345 345 130757 WATRC345 345 1	-477.5	-0.0	-0.11393	-0.17499	-543.5	189.9
5	-3813.2	-1344.7	L: Interface 48 PJMWest-C C:130755 OAKDL345 345 130757 WATRC345 345 1 206 Open 130755 OAKDL345 345 130757 WATRC345 345 1	596.0	0.0	0.15631	0.17499	543.5	-123.7

PJMCent-ZoneC

				C:130755 OAKDL345	345	131128 LAPEER	345	1	209										
				Open 130755 OAKDL345	345	131128 LAPEER	345	1				-0.09120	0.20481	-575.7	-1356.7				
6	-3813.2	-1344.7	L:	Interface 47 C-PJMWest						-596.0	-0.0	-0.15631	-0.17499	-543.5	123.7				
				C:130755 OAKDL345	345	131128 LAPEER	345	1	209										
				Open 130755 OAKDL345	345	131128 LAPEER	345	1				0.09120	0.20481	-575.7	-1356.7				
7	-3752.9	-1326.6	L:	Interface 47 C-PJMWest						-597.3	-0.0	-0.15915	-0.17499	-543.5	113.2				
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				0.08234	0.19239	-652.6	-1374.6				
8	-3752.9	-1326.6	L:	Interface 48 PJMWest-C						597.3	0.0	0.15915	0.17499	543.5	-113.2				
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				-0.08234	0.19239	-652.6	-1374.6				
9	-3670.4	-1301.8	L:	Interface 47 C-PJMWest						-596.6	0.0	-0.16253	-0.17499	-543.5	98.8				
				C:GEN:FITZPATR					1559										
				Open 136155 SCRIBA	345	147830 JA FITZP	345	1				0.00489	0.07942	-67.9	-359.4				
				Open 137200 EDIC	345	147830 JA FITZP	345	1				0.07693	0.15694	43.5	-532.6				
				Remove unit 1 from bus 147797 JAFITZ1G	24.0		886.8	MW	dispatch										
10	-3670.4	-1301.8	L:	Interface 48 PJMWest-C						596.6	-0.0	0.16253	0.17499	543.5	-98.8				
				C:GEN:FITZPATR					1559										
				Open 136155 SCRIBA	345	147830 JA FITZP	345	1				-0.00489	0.07942	-67.9	-359.4				
				Open 137200 EDIC	345	147830 JA FITZP	345	1				-0.07693	0.15694	43.5	-532.6				
				Remove unit 1 from bus 147797 JAFITZ1G	24.0		886.8	MW	dispatch										
11	-3611.1	-1284.0	L:	Interface 47 C-PJMWest						-565.8	0.0	-0.15668	-0.17499	-543.5	88.4				
				C:KEY-SHELOCTA/BLAIRSVL-SOCIAL					1650										
				Open 505 SHELOCTA	230	521 KEYSTONE	230	1				-0.16584	-0.10493	50.1	429.0				
				Open 473 BLAIRSVL	138	235253 01SOCIAL	138	1				-0.13926	-0.00651	100.2	123.8				
12	-3611.1	-1284.0	L:	Interface 48 PJMWest-C						565.8	-0.0	0.15668	0.17499	543.5	-88.4				
				C:KEY-SHELOCTA/BLAIRSVL-SOCIAL					1650										
				Open 505 SHELOCTA	230	521 KEYSTONE	230	1				0.16584	-0.10493	50.1	429.0				
				Open 473 BLAIRSVL	138	235253 01SOCIAL	138	1				0.13926	-0.00651	100.2	123.8				
13	-3599.3	-1280.4	L:	Interface 48 PJMWest-C						629.8	-0.0	0.17499	0.17499	543.5	-86.3				
				C:HQ-NY-765-New					1776										
				Open 147827 MARCY765	765	147828 MASS 765	765	1											
				Open 147828 MASS 765	765	180819 CHA-NY	765	1											
				Open 147827 MARCY765	765	147833 MARCY T1	345	1				0.02483	-0.00004	624.7	624.9				
				Open 147827 MARCY765	765	147833 MARCY T1	345	2				0.02483	-0.00004	543.6	543.8				
				Open 156 MCY765SW	0.0	147827 MARCY765	765	1											
				Open 147838 MASS230B	230	147839 MOSES E	230	1				-0.00000	0.00004	10.3	10.2				
				Open 147828 MASS 765	765	147838 MASS230B	230	1											
				Open 147837 MASS230A	230	147839 MOSES E	230	1				-0.05514	0.00000	18.8	18.8				
				Open 147828 MASS 765	765	147837 MASS230A	230	1											
				Open 158 MS765SW2	0.0	147828 MASS 765	765	1											
				Open 157 MS765SW1	0.0	147828 MASS 765	765	1											

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			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch					
14	-3599.3	-1280.4	L: Interface 47 C-PJMWest			-629.8	0.0	-0.17499		-0.17499	-543.5	86.3
			C:HQ-NY-765-New									
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA				
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA				
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.02483	-0.00004	624.7	624.9
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.02483	-0.00004	543.6	543.8
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA				
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	0.00004	10.3	10.2
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA				
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.05514	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA				
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA				
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA				
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch					
15	-3566.3	-1270.5	L: Interface 48 PJMWest-C			624.1	0.0	0.17499		0.17499	543.5	-80.5
			C:GEN:9 MI PT2									
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch						
16	-3566.3	-1270.5	L: Interface 47 C-PJMWest			-624.1	-0.0	-0.17499		-0.17499	-543.5	80.5
			C:GEN:9 MI PT2									
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch						
17	-3495.3	-1249.2	L: Interface 47 C-PJMWest			-611.7	-0.0	-0.17499		-0.17499	-543.5	68.1
			C:SIN:250									
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		-0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
18	-3495.3	-1249.2	L: Interface 48 PJMWest-C			611.7	0.0	0.17499		0.17499	543.5	-68.1
			C:SIN:250									
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
19	-3494.9	-1249.1	L: Interface 47 C-PJMWest			-611.6	0.0	-0.17499		-0.17499	-543.5	68.0
			C:GEN:SEABROOK									
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
20	-3494.9	-1249.1	L: Interface 48 PJMWest-C			611.6	-0.0	0.17499		0.17499	543.5	-68.0
			C:GEN:SEABROOK									
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
21	-3494.9	-1249.1	*L: Interface 47 C-PJMWest			-611.6	0.0	-0.17499		-0.17499	-543.5	68.0

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			C:GEN:SEAB&OMS							1575										
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2						-0.00000	0.00000	-0.1	-0.1			
			Remove unit 1 from bus 102869 SBRK G1	25.0			1318.0	MW	dispatch											
22	-3494.9	-1249.1	*L: Interface 48 PJMWest-C											611.6	-0.0	0.17499		0.17499	543.5	-68.0
			C:GEN:SEAB&OMS																	
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2												
			Remove unit 1 from bus 102869 SBRK G1	25.0			1318.0	MW	dispatch											
49	-3302.1	-1191.1	L: Interface 56 NYE-PJMENoRE											-1490.4	-1287.0	-0.06159		-0.00000	-1299.1	-1299.1
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374											
			Open 130757 WATRC345	345	200769	HOMER CY	345	1						0.35195	-0.17499	-543.5	34.3			
50	-3302.1	-1191.1	L: Interface 55 PJME-NYEnoRE											1490.4	1287.0	0.06159		0.00000	1299.1	1299.1
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374											
			Open 130757 WATRC345	345	200769	HOMER CY	345	1						-0.35195	-0.17499	-543.5	34.3			
293	-3116.4	-1135.3	L: Interface 51 G-PJMEast											-127.0	-0.0	-0.04074		-0.00000	-0.4	-0.4
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374											
			Open 130757 WATRC345	345	200769	HOMER CY	345	1												
294	-3116.4	-1135.3	L: Interface 52 PJMEast-G											127.0	0.0	0.04074		0.00000	0.4	0.4
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374											
			Open 130757 WATRC345	345	200769	HOMER CY	345	1						-0.23281	-0.17499	-543.5	1.8			
3351	-3088.1	-1126.8	L: Interface 55 PJME-NYEnoRE											1496.2	1287.0	0.06773		0.00000	1299.1	1299.1
			C:SER:HC-WC_30&W-F_171																	
			Open 130757 WATRC345	345	200769	HOMER CY	345	1						-0.35346	-0.17499	-543.5	-3.1			
			Open 135277 FALCONER	115	200579	WARREN	115	1						-0.13824	-0.04251	-35.9	95.4			
3352	-3088.1	-1126.8	L: Interface 56 NYE-PJMENoRE											-1496.2	-1287.0	-0.06773		-0.00000	-1299.1	-1299.1
			C:SER:HC-WC_30&W-F_171																	
			Open 130757 WATRC345	345	200769	HOMER CY	345	1												
			Open 135277 FALCONER	115	200579	WARREN	115	1						0.13824	-0.04251	-35.9	95.4			
3511	-2918.6	-1075.8	L: Interface 51 G-PJMEast											-130.8	0.0	-0.04482		-0.00000	-0.4	-0.4
			C:SER:HC-WC_30&W-F_171																	
			Open 130757 WATRC345	345	200769	HOMER CY	345	1												
			Open 135277 FALCONER	115	200579	WARREN	115	1						0.23382	-0.17499	-543.5	-32.8			
3512	-2918.6	-1075.8	L: Interface 52 PJMEast-G											130.8	-0.0	0.04482		0.00000	0.4	0.4
			C:SER:HC-WC_30&W-F_171																	
			Open 130757 WATRC345	345	200769	HOMER CY	345	1						-0.23382	-0.17499	-543.5	-32.8			
			Open 135277 FALCONER	115	200579	WARREN	115	1						-0.09178	-0.04251	-35.9	88.2			
3527	-2559.0	-967.8	L: Interface 56 NYE-PJMENoRE											-1485.4	-1287.0	-0.07752		-0.00000	-1299.1	-1299.1
			C:SER:HCWC/NWES																	
			Open 130757 WATRC345	345	200769	HOMER CY	345	1												
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1						0.35975	-0.17499	-543.5	-95.7			
3528	-2559.0	-967.8	L: Interface 55 PJME-NYEnoRE											1485.4	1287.0	0.07752		0.00000	1299.1	1299.1
			C:SER:HCWC/NWES																	
			Open 130757 WATRC345	345	200769	HOMER CY	345	1						-0.35975	-0.17499	-543.5	-95.7			

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			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.21488	-0.06778	43.0	216.4
3537	-2388.3	-916.4	L: Interface 52 PJMEast-G						123.5	0.0	0.05172		0.00000	0.4	0.4
			C:SER:HCWC/NWES					1607							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.23819	-0.17499	-543.5	-125.6
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.14809	-0.06778	43.0	204.9
3538	-2388.3	-916.4	L: Interface 51 G-PJMEast						-123.5	-0.0	-0.05172		-0.00000	-0.4	-0.4
			C:SER:HCWC/NWES					1607							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.23819	-0.17499	-543.5	-125.6
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.14809	-0.06778	43.0	204.9
3541	-2091.5	-827.2	L: Interface 55 PJME-NYEnoRE						1477.4	1287.0	0.09103		0.00000	1299.1	1299.1
			C:BUS:WATERCURE_345					1632							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.44167	-0.17499	-543.5	-177.5
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.19968	-0.06882	257.6	401.5
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.45967	0.00000	22.4	22.4
3542	-2091.5	-827.2	L: Interface 56 NYE-PJMENoRE						-1477.4	-1287.0	-0.09103		-0.00000	-1299.1	-1299.1
			C:BUS:WATERCURE_345					1632							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.44167	-0.17499	-543.5	-177.5
			Open 130757 WATRC345	345	130768	WATRC230	230	1				0.19968	-0.06882	257.6	401.5
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.45967	0.00000	22.4	22.4
3543	-1940.9	-782.0	L: Interface 52 PJMEast-G						118.3	-0.0	0.06094		0.00000	0.4	0.4
			C:BUS:WATERCURE_345					1632							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.29437	-0.17499	-543.5	-203.9
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.13699	-0.06882	257.6	391.1
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.30557	0.00000	22.4	22.4
3544	-1940.9	-782.0	L: Interface 51 G-PJMEast						-118.3	0.0	-0.06094		-0.00000	-0.4	-0.4
			C:BUS:WATERCURE_345					1632							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.29437	-0.17499	-543.5	-203.9
			Open 130757 WATRC345	345	130768	WATRC230	230	1				0.13699	-0.06882	257.6	391.1
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.30557	0.00000	22.4	22.4
3545	-1271.1	-580.6	L: Interface 56 NYE-PJMENoRE						-1367.7	-1287.0	-0.06346		-0.00000	-1299.1	-1299.1
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.26028	-0.24381	-263.5	46.4
3546	-1271.1	-580.6	L: Interface 55 PJME-NYEnoRE						1367.7	1287.0	0.06346		0.00000	1299.1	1299.1
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.26028	-0.24381	-263.5	46.4
3547	-1090.7	-526.4	L: Interface 51 G-PJMEast						-46.9	0.0	-0.04301		-0.00000	-0.4	-0.4
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.17641	-0.24381	-263.5	2.4
3548	-1090.7	-526.4	L: Interface 52 PJMEast-G						46.9	-0.0	0.04301		0.00000	0.4	0.4
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.17641	-0.24381	-263.5	2.4
3549	-578.6	-372.5	L: Interface 56 NYE-PJMENoRE						-1311.2	-1287.0	-0.04190		-0.00000	-1299.1	-1299.1

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			Open 135277 FALCONER	115	200579	WARREN	115	1				-0.15831	-0.04251	-35.9	-38.2
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.14357	-0.06778	43.0	39.4
3562	53.4	-182.5	L: Interface 51 G-PJMEast						2.0	0.0	-0.03800	-0.00000	-0.4	-0.4	
			C:SER:EESR/WF/NWES					1611							
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1				0.17354	-0.12410	11.3	4.7
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.15831	-0.04251	-35.9	-38.2
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.14357	-0.06778	43.0	39.4
3563	192.5	-140.7	L: Interface 50 PJMCentral-C						-66.5	-0.0	0.34526	0.30057	-198.6	-140.7	
			C:SER:HC-WC_30&W-F_171					1601							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.23847	-0.17499	-543.5	-577.2
			Open 135277 FALCONER	115	200579	WARREN	115	1				-0.06952	-0.04251	-35.9	-44.1
3564	192.5	-140.7	L: Interface 49 C-PJMCentral						66.5	0.0	-0.34526	-0.30057	198.6	140.7	
			C:SER:HC-WC_30&W-F_171					1601							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.23847	-0.17499	-543.5	-577.2
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.06952	-0.04251	-35.9	-44.1
3565	194.1	-140.2	L: Interface 49 C-PJMCentral						61.6	-0.0	-0.31743	-0.30057	198.6	140.2	
			C:SER:HCWC/NWES					1607							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.22559	-0.17499	-543.5	-577.5
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.33367	-0.06778	43.0	29.8
3566	194.1	-140.2	L: Interface 50 PJMCentral-C						-61.6	0.0	0.31743	0.30057	-198.6	-140.2	
			C:SER:HCWC/NWES					1607							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.22559	-0.17499	-543.5	-577.5
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.33367	-0.06778	43.0	29.8
3567	202.8	-137.6	L: Interface 49 C-PJMCentral						69.4	-0.0	-0.34217	-0.30057	198.6	137.6	
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.23771	-0.17499	-543.5	-579.0
3568	202.8	-137.6	L: Interface 50 PJMCentral-C						-69.4	0.0	0.34217	0.30057	-198.6	-137.6	
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.23771	-0.17499	-543.5	-579.0
3569	224.4	-131.1	L: Interface 49 C-PJMCentral						70.0	0.0	-0.31173	-0.30057	198.6	131.1	
			C:BUS:WATERCURE_345					1632							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.14495	-0.17499	-543.5	-582.8
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.20645	-0.06882	257.6	242.1
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.14892	0.00000	22.4	22.4
3570	224.4	-131.1	L: Interface 50 PJMCentral-C						-70.0	-0.0	0.31173	0.30057	-198.6	-131.1	
			C:BUS:WATERCURE_345					1632							
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.14495	-0.17499	-543.5	-582.8
			Open 130757 WATRC345	345	130768	WATRC230	230	1				0.20645	-0.06882	257.6	242.1
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.14892	0.00000	22.4	22.4
3571	358.8	-90.7	L: Interface 50 PJMCentral-C						-107.9	-0.0	0.30057	0.30057	-198.6	-90.7	
			C:GEN:9 MI PT2					1561							
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch								

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3572	358.8	-90.7	L: Interface 49 C-PJMCentral			107.9	0.0	-0.30057	-0.30057	198.6	90.7
			C:GEN:9 MI PT2		1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch					
3573	379.1	-84.6	L: Interface 49 C-PJMCentral			114.0	0.0	-0.30057	-0.30057	198.6	84.6
			C:HQ-NY-765-New		1776						
			Open 147827 MARCY765	765 147828 MASS 765	765 1	NA					
			Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA					
			Open 147827 MARCY765	765 147833 MARCY T1	345 1			-0.01633	-0.00004	624.7	624.7
			Open 147827 MARCY765	765 147833 MARCY T1	345 2			-0.01633	-0.00004	543.6	543.6
			Open 156 MCY765SW	0.0 147827 MARCY765	765 1	NA					
			Open 147838 MASS230B	230 147839 MOSES E	230 1			-0.00000	0.00004	10.3	10.4
			Open 147828 MASS 765	765 147838 MASS230B	230 1	NA					
			Open 147837 MASS230A	230 147839 MOSES E	230 1			0.05989	0.00000	18.8	18.8
			Open 147828 MASS 765	765 147837 MASS230A	230 1	NA					
			Open 158 MS765SW2	0.0 147828 MASS 765	765 1	NA					
			Open 157 MS765SW1	0.0 147828 MASS 765	765 1	NA					
			Decrease bus 180001 BEA-DLX	13.8 generation by	100.0	percent dispatch					
			Set bus 181319 CHAT G3	120 load to	357.0	MW dispatch					
			Decrease bus 180002 BEA-DL	13.8 generation by	100.0	percent dispatch					
			Set bus 181419 CHAT G4	120 load to	357.0	MW dispatch					
3574	379.1	-84.6	L: Interface 50 PJMCentral-C			-114.0	-0.0	0.30057	0.30057	-198.6	-84.6
			C:HQ-NY-765-New		1776						
			Open 147827 MARCY765	765 147828 MASS 765	765 1	NA					
			Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA					
			Open 147827 MARCY765	765 147833 MARCY T1	345 1			0.01633	-0.00004	624.7	624.7
			Open 147827 MARCY765	765 147833 MARCY T1	345 2			0.01633	-0.00004	543.6	543.6
			Open 156 MCY765SW	0.0 147827 MARCY765	765 1	NA					
			Open 147838 MASS230B	230 147839 MOSES E	230 1			0.00000	0.00004	10.3	10.4
			Open 147828 MASS 765	765 147838 MASS230B	230 1	NA					
			Open 147837 MASS230A	230 147839 MOSES E	230 1			-0.05989	0.00000	18.8	18.8
			Open 147828 MASS 765	765 147837 MASS230A	230 1	NA					
			Open 158 MS765SW2	0.0 147828 MASS 765	765 1	NA					
			Open 157 MS765SW1	0.0 147828 MASS 765	765 1	NA					
			Decrease bus 180001 BEA-DLX	13.8 generation by	100.0	percent dispatch					
			Set bus 181319 CHAT G3	120 load to	357.0	MW dispatch					
			Decrease bus 180002 BEA-DL	13.8 generation by	100.0	percent dispatch					
			Set bus 181419 CHAT G4	120 load to	357.0	MW dispatch					
3575	385.2	-82.8	L: 135277 FALCONER	115 200579 WARREN	115 1	-94.0	-116.0	-0.05714	-0.04251	-35.9	-52.3
			C:135398 SW345	345 200769 HOMER CY	345 1 1380						
			Open 135398 SW345	345 200769 HOMER CY	345 1			0.15350	-0.09532	-378.4	-415.1
3576	434.6	-68.0	L: Interface 49 C-PJMCentral			130.6	-0.0	-0.30057	-0.30057	198.6	68.0
			C:126250 RAMAPO 5	500 126296 RAM PAR	345 1 78						

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			Open 126250 RAMAPO 5	500 126296 RAM PAR	345 1				-0.06789	0.00000	1001.1	1001.1
3577	434.6	-68.0	L: Interface 50 PJMCentral-C			-130.6	0.0	0.30057		0.30057	-198.6	-68.0
			C:126250 RAMAPO 5	500 126296 RAM PAR	345 1 78							
			Open 126250 RAMAPO 5	500 126296 RAM PAR	345 1				0.06789	0.00000	1001.1	1001.1
3578	434.6	-68.0	L: Interface 50 PJMCentral-C			-130.6	0.0	0.30057		0.30057	-198.6	-68.0
			C: 91 JEFFERSN	500 126250 RAMAPO 5	500 1 1351							
			Open 91 JEFFERSN	500 126250 RAMAPO 5	500 1				0.06789	0.00000	1001.1	1001.1
3579	434.6	-68.0	L: Interface 49 C-PJMCentral			130.6	-0.0	-0.30057		-0.30057	198.6	68.0
			C: 91 JEFFERSN	500 126250 RAMAPO 5	500 1 1351							
			Open 91 JEFFERSN	500 126250 RAMAPO 5	500 1				-0.06789	0.00000	1001.1	1001.1
3582	483.4	-53.3	L: Interface 49 C-PJMCentral			137.4	0.0	-0.28423		-0.30057	198.6	53.3
			C:130757 WATRC345	345 130768 WATRC230	230 1 213							
			Open 130757 WATRC345	345 130768 WATRC230	230 1				-0.23750	-0.06882	257.6	224.3
3583	483.4	-53.3	L: Interface 50 PJMCentral-C			-137.4	-0.0	0.28423		0.30057	-198.6	-53.3
			C:130757 WATRC345	345 130768 WATRC230	230 1 213							
			Open 130757 WATRC345	345 130768 WATRC230	230 1				0.23750	-0.06882	257.6	224.3
3584	488.4	-51.8	*L: Interface 50 PJMCentral-C			-138.1	0.0	0.28273		0.30057	-198.6	-51.8
			C:131128 LAPEER	345 136153 LAFAYTTE	345 1 392							
			Open 131128 LAPEER	345 136153 LAFAYTTE	345 1				-0.09272	0.19239	-652.6	-558.6
3585	488.4	-51.8	*L: Interface 49 C-PJMCentral			138.1	-0.0	-0.28273		-0.30057	198.6	51.8
			C:131128 LAPEER	345 136153 LAFAYTTE	345 1 392							
			Open 131128 LAPEER	345 136153 LAFAYTTE	345 1				0.09272	0.19239	-652.6	-558.6
3702	631.8	-8.7	L: Interface 51 G-PJMEast			48.0	0.0	-0.07593		-0.00000	-0.4	-0.4
			C:SER:C398/NWES		1605							
			Open 409 GROVER	230 200675 E.TWANDA	230 1				0.02734	0.00298	-15.6	-13.7
			Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.30865	-0.17868	117.6	4.7
			Open 381 TOWANDA	115 200675 E.TWANDA	230 1				0.01228	-0.01033	-52.1	-58.7
			Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.30588	-0.06778	43.0	0.2
3703	631.8	-8.7	L: Interface 52 PJMEast-G			-48.0	-0.0	0.07593		0.00000	0.4	0.4
			C:SER:C398/NWES		1605							
			Open 409 GROVER	230 200675 E.TWANDA	230 1				-0.02734	0.00298	-15.6	-13.7
			Open 130763 HILSD230	230 200675 E.TWANDA	230 1				-0.30865	-0.17868	117.6	4.7
			Open 381 TOWANDA	115 200675 E.TWANDA	230 1				-0.01228	-0.01033	-52.1	-58.7
			Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.30588	-0.06778	43.0	0.2
3780	646.1	-4.4	L: Interface 51 G-PJMEast			49.0	0.0	-0.07583		-0.00000	-0.4	-0.4
			C:SER:ETHS/NWES		1606							
			Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.30717	-0.17868	117.6	2.2
			Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.30905	-0.06778	43.0	-0.8
3781	646.1	-4.4	L: Interface 52 PJMEast-G			-49.0	-0.0	0.07583		0.00000	0.4	0.4
			C:SER:ETHS/NWES		1606							
			Open 130763 HILSD230	230 200675 E.TWANDA	230 1				-0.30717	-0.17868	117.6	2.2
			Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.30905	-0.06778	43.0	-0.8

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3792	647.2	-4.0*L: Interface	52 PJMEast-G				-24.5	0.0	0.03785		0.00000	0.4	0.4	
		C:130763 HILSD230	230 200675 E.TWANDA	230	1	1375								
		Open 130763 HILSD230	230 200675 E.TWANDA	230	1						-0.21186	-0.17868	117.6	2.0
3793	647.2	-4.0*L: Interface	51 G-PJMEast				24.5	-0.0	-0.03785		-0.00000	-0.4	-0.4	
		C:130763 HILSD230	230 200675 E.TWANDA	230	1	1375								
		Open 130763 HILSD230	230 200675 E.TWANDA	230	1						0.21186	-0.17868	117.6	2.0
7112	975.4	94.6 L: Interface	35 NY-PJM				-2394.6	-3114.0	-0.73749		-0.73749	-1498.2	-2217.5	
		C:GEN:SEAB&OMS				1575								
		Open 100508 SANDB115	115 100509 SB RCTOR	115	2						0.00004	0.00000	-0.1	-0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW dispatch								
7113	975.4	94.6 L: Interface	19 PJM-NY				2394.6	3114.0	0.73749		0.73749	1498.2	2217.5	
		C:GEN:SEABROOK				1573								
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW dispatch								
7114	975.4	94.6 L: Interface	19 PJM-NY				2394.6	3114.0	0.73749		0.73749	1498.2	2217.5	
		C:GEN:SEAB&OMS				1575								
		Open 100508 SANDB115	115 100509 SB RCTOR	115	2						-0.00004	0.00000	-0.1	-0.1
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW dispatch								
7115	975.4	94.6 L: Interface	35 NY-PJM				-2394.6	-3114.0	-0.73749		-0.73749	-1498.2	-2217.5	
		C:GEN:SEABROOK				1573								
		Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW dispatch								
7116	981.2	96.3 L: Interface	35 NY-PJM				-2390.4	-3114.0	-0.73749		-0.73749	-1498.2	-2221.8	
		C:SIN:250				1677								
		Open 100508 SANDB115	115 100509 SB RCTOR	115	2						0.00004	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW dispatch								
7117	981.2	96.3 L: Interface	19 PJM-NY				2390.4	3114.0	0.73749		0.73749	1498.2	2221.8	
		C:SIN:250				1677								
		Open 100508 SANDB115	115 100509 SB RCTOR	115	2						-0.00004	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW dispatch								
7118	987.5	98.2 L: 135277 FALCONER	115 200579 WARREN	115	1		-49.1	-116.0	-0.06774		-0.04251	-35.9	-77.9	
		C:135250 DUNKIRK	230 135251 S RIPLEY	230	1	422								
		Open 135250 DUNKIRK	230 135251 S RIPLEY	230	1						0.20334	-0.12410	-64.9	-187.5
7119	997.1	101.1 L: Interface	19 PJM-NY				2378.6	3114.0	0.73749		0.73749	1498.2	2233.6	
		C:GEN:MILLST 3				1572								
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW dispatch								
7120	997.1	101.1 L: Interface	35 NY-PJM				-2378.6	-3114.0	-0.73749		-0.73749	-1498.2	-2233.6	
		C:GEN:MLS3&OMS				1574								
		Open 100508 SANDB115	115 100509 SB RCTOR	115	2						0.00004	0.00000	-0.1	-0.1
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW dispatch								
7121	997.1	101.1 L: Interface	35 NY-PJM				-2378.6	-3114.0	-0.73749		-0.73749	-1498.2	-2233.6	
		C:GEN:MILLST 3				1572								
		Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW dispatch								
7122	997.1	101.1 L: Interface	19 PJM-NY				2378.6	3114.0	0.73749		0.73749	1498.2	2233.6	

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			C:GEN:MLS3&OMS			1574							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00004	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW dispatch								
7125	1058.2	119.5	L: Interface 19 PJM-NY					2333.6	3114.0	0.73747	0.73749	1498.2	2278.6
			C:HQ-NY-765-New			1776							
			Open 147827 MARCY765	765	147828 MASS 765	765	1						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.14597	-0.00004	624.7	624.7
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.14597	-0.00004	543.6	543.6
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	0.00004	10.3	10.4
			Open 147828 MASS 765	765	147838 MASS230B	230	1						
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.61013	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1						
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1						
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0							
			Set bus 181319 CHAT G3	120	load to	357.0							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0							
			Set bus 181419 CHAT G4	120	load to	357.0							
7126	1058.2	119.5	L: Interface 35 NY-PJM					-2333.6	-3114.0	-0.73747	-0.73749	-1498.2	-2278.6
			C:HQ-NY-765-New			1776							
			Open 147827 MARCY765	765	147828 MASS 765	765	1						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.14597	-0.00004	624.7	624.7
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.14597	-0.00004	543.6	543.6
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	0.00004	10.3	10.4
			Open 147828 MASS 765	765	147838 MASS230B	230	1						
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.61013	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1						
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1						
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0							
			Set bus 181319 CHAT G3	120	load to	357.0							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0							
			Set bus 181419 CHAT G4	120	load to	357.0							
7127	1079.7	125.9	L: 135277 FALCONER	115	200579 WARREN	115	1			-65.6	-116.0	-0.04669	-0.04251
			C:135398 SW345	345	135564 SW115	115	1						
			Open 135398 SW345	345	135564 SW115	115	1			-0.20297	0.02062	146.2	168.5
7128	1147.6	146.4	L: Interface 19 PJM-NY					2267.6	3114.0	0.73749	0.73749	1498.2	2344.6
			C:GEN:IND PT 3			1555							

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7129	1147.6	146.4	L: Interface	35 NY-PJM	22.0	1072.8	MW	dispatch	-2267.6	-3114.0	-0.73749	-0.73749	-1498.2	-2344.6	
			C:GEN:IND PT 3						1555						
7130	1161.4	150.5	L: Interface	19 PJM-NY	22.0	1072.8	MW	dispatch	2257.5	3114.0	0.73749	0.73749	1498.2	2354.7	
			C:GEN:IND PT 2						1554						
7131	1161.4	150.5	L: Interface	35 NY-PJM	22.0	1053.7	MW	dispatch	-2257.5	-3114.0	-0.73749	-0.73749	-1498.2	-2354.7	
			C:GEN:IND PT 2						1554						
7132	1170.0	153.1	L: Interface	35 NY-PJM	22.0	1053.7	MW	dispatch	-2251.1	-3114.0	-0.73749	-0.73749	-1498.2	-2361.1	
			C:GEN:9 MI PT2						1561						
7133	1170.0	153.1	L: Interface	19 PJM-NY	25.0	1197.5	MW	dispatch	2251.1	3114.0	0.73749	0.73749	1498.2	2361.1	
			C:GEN:9 MI PT2						1561						
7134	1177.9	155.4	L: Interface	19 PJM-NY	25.0	1197.5	MW	dispatch	2245.4	3114.0	0.73749	0.73749	1498.2	2366.8	
			C:GEN:IND PT 3-New						1773						
			Open 147798	IP#3 GEN	22.0	147832	IP3	345	345	1	0.00000	0.00000	522.5	522.5	
			Open 147798	IP#3 GEN	22.0	147832	IP3	345	345	2	-0.71720	0.00000	-1041.8	-1041.8	
7135	1177.9	155.4	L: Interface	35 NY-PJM	25.0	1197.5	MW	dispatch	-2245.4	-3114.0	-0.73749	-0.73749	-1498.2	-2366.8	
			C:GEN:IND PT 3-New						1773						
			Open 147798	IP#3 GEN	22.0	147832	IP3	345	345	1	0.00000	0.00000	522.5	522.5	
			Open 147798	IP#3 GEN	22.0	147832	IP3	345	345	2	0.71720	0.00000	-1041.8	-1041.8	
7142	1205.4	163.7	L: 135277	FALCONER	115	200579	WARREN	115	1	-32.8	-116.0	-0.06900	-0.04251	-35.9	-87.1
			C:SER:EESR/NWES						1608						
			Open 135251	S RIPLEY	230	200654	ERIE E	230	1	0.20363	-0.12410	11.3	-138.3		
			Open 130836	N.WAV115	115	200676	E.SAYRE	115	1	0.01801	-0.06778	43.0	-38.7		
7143	1208.4	164.6	L: 130757	WATRC345	345	200769	HOMER CY	345	1	-543.5	-755.0	-0.17499			
			Base Case												
7144	1208.4	164.6	L: Interface	47 C-PJMWest						-543.5	-755.0	-0.17499			
			Base Case												
7145	1208.4	164.6	L: Interface	48 PJMWest-C						543.5	755.0	0.17499			
			Base Case												
7146	1216.3	167.0	L: 135277	FALCONER	115	200579	WARREN	115	1	-33.6	-116.0	-0.06774	-0.04251	-35.9	-87.6
			C:135251	S RIPLEY	230	200654	ERIE E	230	1	1378					
			Open 135251	S RIPLEY	230	200654	ERIE E	230	1	0.20334	-0.12410	11.3	-139.6		
7147	1271.8	183.7	L: 130757	WATRC345	345	130768	WATRC230	230	1	455.1	600.0	0.11393	-0.06882	257.6	170.0
			C:130755	OAKDL345	345	130757	WATRC345	345	1	206					
			Open 130755	OAKDL345	345	130757	WATRC345	345	1	-0.74956	-0.24381	-263.5	-573.6		
7148	1328.1	200.6	L: 131018	LOUNSL115	115	131850	CNYOG115	115	1	46.7	143.0	0.07252	0.04661	18.7	80.6
			C:130755	OAKDL345	345	130757	WATRC345	345	1	206					

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			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.10628	-0.24381	-263.5	-587.3		
7149	1354.9	208.7	L: 130848 S.OWE115	115	131850 CNYOG115	115	1			-44.7	-143.0	-0.07252	-0.04661	-16.7	-79.9
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					0.10628	-0.24381	-263.5	-593.9
7150	1400.0	222.2	L: Interface	26	ONTARIO-MICH					367.5	0.0	-0.26251	-0.26251	736.0	368.5
			C:GEN:BRUCE 6					1564							
			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5 MW										
7151	1433.9	232.4	L: 135277 FALCONER	115	200579 WARREN	115	1			-55.1	-116.0	-0.04251	-0.04251	-35.9	-96.9
			C:GEN:9 MI PT2					1561							
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW										
7154	1454.8	238.7	L: 135277 FALCONER	115	200579 WARREN	115	1			-54.2	-116.0	-0.04251	-0.04251	-35.9	-97.7
			C:HQ-NY-765-New					1776							
			Open 147827 MARCY765	765	147828 MASS 765	765	1								
			Open 147828 MASS 765	765	180819 CHA-NY	765	1								
			Open 147827 MARCY765	765	147833 MARCY T1	345	1					0.00291	-0.00004	624.7	624.6
			Open 147827 MARCY765	765	147833 MARCY T1	345	2					0.00291	-0.00004	543.6	543.6
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1								
			Open 147838 MASS230B	230	147839 MOSES E	230	1					-0.00000	0.00004	10.3	10.4
			Open 147828 MASS 765	765	147838 MASS230B	230	1								
			Open 147837 MASS230A	230	147839 MOSES E	230	1					0.02013	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1								
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1								
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1								
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0									
			Set bus 181319 CHAT G3	120	load to	357.0									
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0									
			Set bus 181419 CHAT G4	120	load to	357.0									
7155	1476.8	245.3	L: 135277 FALCONER	115	200579 WARREN	115	1			-53.2	-116.0	-0.04251	-0.04251	-35.9	-98.7
			C:GEN:KINTIGH-New					1775							
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	1					0.00000	0.00000	-288.5	-288.5
			Open 130754 KINTI345	345	130873 KINTIG24	24.0	2					0.02998	0.00000	-577.7	-577.7
7156	1518.6	257.9	L: 135277 FALCONER	115	200579 WARREN	115	1			-51.5	-116.0	-0.04251	-0.04251	-35.9	-100.5
			C:GEN:BRUCE 6					1564							
			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5 MW										
7157	1535.7	263.0	*L: 135277 FALCONER	115	200579 WARREN	115	1			-50.7	-116.0	-0.04251	-0.04251	-35.9	-101.2
			C:GEN:GINNA					1562							
			Remove unit 1 from bus 149140 GINNA 19	19.0	605.0 MW										
7158	1541.1	264.6	L: Interface	26	ONTARIO-MICH					398.7	-0.0	-0.25874	-0.26251	736.0	331.4
			C:LAMBT7/LAMBGEN					1646							
			Open 160050 LAMB L4D	345	B\$1020 LAMBTON T7	1.00	T7					0.06606	0.05720	-234.0	-145.8
			Open 160064 LAMB T78	220	B\$1020 LAMBTON T7	1.00	T7					0.72540	0.00000	0.3	0.3
			Set bus 160705 LAMBTNG4	24.0	generation to	0.0									

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7159	1541.6	264.8	L: Interface 26 ONTARIO-MICH		398.9	-0.0	-0.25878	-0.26251	736.0	331.3
			C:LAMBT8/LAMBGEN	1647						
			Open 160050 LAMB L4D	345 B\$1021 LAMBTON T8 1.00 T8			0.06583	0.05676	-232.1	-144.6
			Open 160064 LAMB T78	220 B\$1021 LAMBTON T8 1.00 T8			0.72556	0.00000	0.4	0.4
			Set bus 160705 LAMBTNG4	24.0 generation to	0.0 MW dispatch					
7178	1692.8	310.2	L: 130836 N.WAV115	115 131018 LOUNSI15 115 1	50.2	173.0	0.07252	0.04661	22.2	101.1
			C:130755 OAKDL345	345 130757 WATRC345 345 1 206						
			Open 130755 OAKDL345	345 130757 WATRC345 345 1			-0.10628	-0.24381	-263.5	-676.3
7181	1698.8	312.0	L: Interface 26 ONTARIO-MICH		439.6	-0.0	-0.25874	-0.26251	736.0	290.0
			C:L4D+G3	1644						
			Open 160050 LAMB L4D	345 B\$1020 LAMBTON T7 1.00 T7			0.06606	0.05720	-234.0	-136.8
			Open 160064 LAMB T78	220 B\$1020 LAMBTON T7 1.00 T7			0.72540	0.00000	0.3	0.3
			Open 160069 LAMBTPK2	220 160704 LAMBTNG3 24.0 T3			0.65716	0.00000	62.1	62.1
			Remove unit 1 from bus 160704 LAMBTNG3	24.0 490.0 MW dispatch						
7184	1699.3	312.2	L: Interface 26 ONTARIO-MICH		439.8	0.0	-0.25878	-0.26251	736.0	289.9
			C:L51D+G3	1645						
			Open 160050 LAMB L4D	345 B\$1021 LAMBTON T8 1.00 T8			0.06583	0.05676	-232.1	-135.6
			Open 160064 LAMB T78	220 B\$1021 LAMBTON T8 1.00 T8			0.72556	0.00000	0.4	0.4
			Open 160069 LAMBTPK2	220 160704 LAMBTNG3 24.0 T3			0.65727	0.00000	62.1	62.1
			Remove unit 1 from bus 160704 LAMBTNG3	24.0 490.0 MW dispatch						
8784	1908.3	375.0	L: Interface 53 PJME-NYE		621.4	787.0	0.08678	-0.00000	451.8	451.8
			C:BUS:WATERCURE_345	1632						
			Open 130757 WATRC345	345 200769 HOMER CY 345 1			-0.42068	-0.17499	-543.5	-877.5
			Open 130757 WATRC345	345 130768 WATRC230 230 1			-0.19124	-0.06882	257.6	126.2
			Open 130755 OAKDL345	345 130757 WATRC345 345 1			-0.43761	0.00000	22.4	22.4
8785	1908.3	375.0	L: Interface 54 NYE-PJME		-621.4	-787.0	-0.08678	0.00000	-451.8	-451.8
			C:BUS:WATERCURE_345	1632						
			Open 130757 WATRC345	345 200769 HOMER CY 345 1			0.42068	-0.17499	-543.5	-877.5
			Open 130757 WATRC345	345 130768 WATRC230 230 1			0.19124	-0.06882	257.6	126.2
			Open 130755 OAKDL345	345 130757 WATRC345 345 1			0.43761	0.00000	22.4	22.4
8799	1909.7	375.4	L: 135859 LAPPINS1	115 135866 NLEROYTA 115 1	99.3	173.0	0.03859	0.02751	78.2	130.8
			C:147834 NIAG 345	345 149000 ROCH 345 345 1 1226						
			Open 147834 NIAG 345	345 149000 ROCH 345 345 1			0.04986	0.22228	422.3	846.8
8822	1920.3	378.6	L: 130807 GOUDY115	115 130848 S.OWE115 115 1	-3.7	-143.0	-0.07252	-0.04661	24.3	-65.2
			C:130755 OAKDL345	345 130757 WATRC345 345 1 206						
			Open 130755 OAKDL345	345 130757 WATRC345 345 1			0.10628	-0.24381	-263.5	-731.7
8827	1921.3	378.9	L: Interface 53 PJME-NYE		514.6	787.0	0.14176	-0.00000	451.8	451.8
			C:LKWANA-OXBW	1651						
			Open 417 OXBOW	230 3070 LACKAWNA 230 1			-0.52445	-0.27031	-119.7	-639.1
8828	1921.3	378.9	L: Interface 54 NYE-PJME		-514.6	-787.0	-0.14176	0.00000	-451.8	-451.8
			C:LKWANA-OXBW	1651						
			Open 417 OXBOW	230 3070 LACKAWNA 230 1			0.52445	-0.27031	-119.7	-639.1

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8829	1921.4	378.9	L: Interface	26	ONTARIO-MICH			504.4	0.0	-0.26253		-0.26251	736.0	231.6	
			C:HQ-NY-765-New				1776								
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA				
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA				
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		0.13560	-0.00004	624.7	624.6
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		0.13560	-0.00004	543.6	543.5
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA				
			Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	0.00004	10.3	10.4
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA				
			Open	147837	MASS230A	230	147839	MOSES E	230	1		0.35776	0.00000	18.8	18.8
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA				
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA				
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA				
			Decrease bus	180001	BEA-DLX	13.8	generation by		100.0	percent dispatch					
			Set bus	181319	CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus	180002	BEA-DL	13.8	generation by		100.0	percent dispatch					
			Set bus	181419	CHAT G4	120	load to	357.0	MW dispatch						
8892	1945.0	386.0	L: 131018	LOUNSI15	115	131850	CNYOG115	115	1	16.6	143.0	0.06498	0.04661	18.7	109.3
			C:BUS:WATERCURE_345												
			Open	130757	WATRC345	345	200769	HOMER CY	345	1		-0.05669	-0.17499	-543.5	-883.9
			Open	130757	WATRC345	345	130768	WATRC230	230	1		-0.12286	-0.06882	257.6	123.7
			Open	130755	OAKDL345	345	130757	WATRC345	345	1		-0.05534	0.00000	22.4	22.4
8900	1948.6	387.1	L: Interface	26	ONTARIO-MICH			511.5	0.0	-0.26251		-0.26251	736.0	224.5	
			C:GEN:9 MI PT2												
			Remove unit 2	from bus	136700	9M PT 2G	25.0	1197.5	MW dispatch						
8911	1961.9	391.1	L: 130836	N.WAV115	115	200676	E.SAYRE	115	1	43.0	-90.0	-0.06778			
			Base Case												
8916	1969.1	393.3	L: 130801	PAVMT115	115	130857	STOLE115	115	1	-100.4	-179.0	-0.03991	-0.02824	-76.0	-131.6
			C:130857	STOLE115	115	130858	GIRD115	115	1	367					
			Open	130857	STOLE115	115	130858	GIRD115	115	1		-0.37783	0.03088	64.6	125.4
8927	1975.0	395.1	L: 130848	S.OWE115	115	131850	CNYOG115	115	1	-14.7	-143.0	-0.06498	-0.04661	-16.7	-108.8
			C:BUS:WATERCURE_345												
			Open	130757	WATRC345	345	200769	HOMER CY	345	1		0.05669	-0.17499	-543.5	-889.1
			Open	130757	WATRC345	345	130768	WATRC230	230	1		0.12286	-0.06882	257.6	121.7
			Open	130755	OAKDL345	345	130757	WATRC345	345	1		0.05534	0.00000	22.4	22.4
8933	1981.0	396.9	L: Interface	26	ONTARIO-MICH			520.0	0.0	-0.26251		-0.26251	736.0	216.0	
			C:GEN:NANTCK 8												
			Remove unit 1	from bus	158743	NANTICG8	22.0	490.0	MW dispatch						
8935	1983.4	397.6	L: Interface	26	ONTARIO-MICH			520.7	-0.0	-0.26251		-0.26251	736.0	215.3	
			C:GEN:PICKER 6												
			Remove unit 1	from bus	156683	PIC B G5	24.0	510.9	MW dispatch						
8945	2002.3	403.2	L: 131018	LOUNSI15	115	131850	CNYOG115	115	1	18.7	112.0	0.04661			

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Base Case													
8948	2004.4	403.9	L: 135452 LOCKPORT	115	135872 SOUR-111	115	1	93.0	159.0	0.03291	0.02346	75.1	122.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04252	0.22228	422.3	867.8
8973	2029.0	411.3	L: 131018 LOUN115	115	131850 CNYOG115	115	1	29.3	143.0	0.05601	0.04661	18.7	113.2
			C:130768 WATRC230	230	130772 SHRED230	230	1 227						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.15025	0.06259	71.0	198.0
8976	2041.3	415.0	L: 131018 LOUN115	115	131850 CNYOG115	115	1	28.7	143.0	0.05601	0.04661	18.7	113.8
			C:SER:OAKDALE_WATRC230				1594						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.15025	0.06259	71.0	198.8
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			-0.10162	0.00000	6.8	6.8
8977	2044.1	415.8	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-16.7	-112.0	-0.04661			
			Base Case										
8980	2046.4	416.5	L: 131018 LOUN115	115	131850 CNYOG115	115	1	28.4	143.0	0.05601	0.04661	18.7	114.1
			C:130765 OAKDL230	230	130772 SHRED230	230	1 222						
			Open 130765 OAKDL230	230	130772 SHRED230	230	1			-0.15025	-0.06259	-64.5	-192.6
8981	2047.2	416.7	L: 131018 LOUN115	115	131850 CNYOG115	115	1	28.3	143.0	0.05601	0.04661	18.7	114.1
			C:130765 OAKDL230	230	130838 OAKDL115	115	1 223						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			0.15025	0.06259	64.3	192.4
8982	2047.9	416.9	L: 131018 LOUN115	115	131850 CNYOG115	115	1	4.4	143.0	0.06770	0.04661	18.7	114.1
			C:ETHS/LLGD				1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.06154	-0.17868	117.6	-248.3
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			-0.18664	-0.05411	38.0	-72.8
8989	2063.8	421.7	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-27.4	-143.0	-0.05601	-0.04661	-16.7	-112.9
			C:130768 WATRC230	230	130772 SHRED230	230	1 227						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.15025	0.06259	71.0	200.2
8992	2072.8	424.4	L: 131018 LOUN115	115	131850 CNYOG115	115	1	-11.0	143.0	0.07429	0.04661	18.7	115.3
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.24198	0.06259	71.0	200.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.18211	-0.06882	257.6	114.9
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.12849	0.00000	0.5	0.5
8993	2076.1	425.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.7	-143.0	-0.05601	-0.04661	-16.7	-113.5
			C:SER:OAKDALE_WATRC230				1594						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.15025	0.06259	71.0	201.0
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			0.10162	0.00000	6.8	6.8
8994	2076.6	425.6	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-2.4	-143.0	-0.06770	-0.04661	-16.7	-113.5
			C:ETHS/LLGD				1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.06154	-0.17868	117.6	-253.4
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.18664	-0.05411	38.0	-74.4
8997	2081.2	427.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.05601	-0.04661	-16.7	-113.7

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				C:130765 OAKDL230	230	130772 SHRED230	230	1	222										
				Open 130765 OAKDL230	230	130772 SHRED230	230	1				0.15025	-0.06259	-64.5	-194.8				
9000	2081.9	427.2	L:	130848 S.OWE115	115	131850 CNYOG115	115	1		-26.4	-143.0	-0.05601	-0.04661	-16.7	-113.8				
				C:130765 OAKDL230	230	130838 OAKDL115	115	1	223										
				Open 130765 OAKDL230	230	130838 OAKDL115	115	1				-0.15025	0.06259	64.3	194.6				
9001	2083.0	427.5	L:	130787 CODNT115	115	130830 MONTR115	115	1		-6.1	-144.0	-0.06620	-0.04617	15.5	-80.6				
				C:130755 OAKDL345	345	130757 WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.08214	-0.24381	-263.5	-771.4				
9013	2099.0	432.3	L:	130848 S.OWE115	115	131850 CNYOG115	115	1		12.9	-143.0	-0.07429	-0.04661	-16.7	-114.6				
				C:BUS:WATERCURE_230					1633										
				Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.24198	0.06259	71.0	202.4				
				Open 130757 WATRC345	345	130768 WATRC230	230	1				0.18211	-0.06882	257.6	113.1				
				Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.12849	0.00000	0.5	0.5				
9016	2103.4	433.6	L:	135872 SOUR-111	115	135873 SWDN-111	115	1		89.8	159.0	0.03291	0.02346	71.8	121.2				
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04252	0.22228	422.3	889.8				
9017	2104.5	434.0	*L:	Interface 26 ONTARIO-MICH						552.5	0.0	-0.26251	-0.26251	736.0	183.5				
				C:GEN:SEABROOK					1573										
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW													
9076	2139.5	444.5	L:	Interface 53 PJME-NYE						629.0	787.0	0.07386	-0.00000	451.8	451.8				
				C:SER:HCWC/NWES					1607										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.34224	-0.17499	-543.5	-917.9				
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.20609	-0.06778	43.0	-102.0				
9077	2139.5	444.5	L:	Interface 54 NYE-PJME						-629.0	-787.0	-0.07386	0.00000	-451.8	-451.8				
				C:SER:HCWC/NWES					1607										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.34224	-0.17499	-543.5	-917.9				
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.20609	-0.06778	43.0	-102.0				
9122	2162.7	451.5	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1		99.9	173.0	0.03378	0.02751	78.2	137.7				
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.04136	0.15160	524.7	852.5				
12325	2216.8	467.7	L:	131018 LOUNS115	115	131850 CNYOG115	115	1		-18.5	143.0	0.07284	0.04661	18.7	122.0				
				C:130763 HILSD230	230	130768 WATRC230	230	1	219										
				Open 130763 HILSD230	230	130768 WATRC230	230	1				0.19959	0.13141	-186.1	105.2				
12393	2232.6	472.5	L:	130801 PAVMT115	115	130857 STOLE115	115	1		-98.6	-179.0	-0.03602	-0.02824	-76.0	-139.1				
				C:SER:HCWC/NWES					1607										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04202	-0.17499	-543.5	-934.2				
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00621	-0.06778	43.0	-108.3				
12410	2243.5	475.8	L:	130848 S.OWE115	115	131850 CNYOG115	115	1		20.4	-143.0	-0.07284	-0.04661	-16.7	-121.3				
				C:130763 HILSD230	230	130768 WATRC230	230	1	219										
				Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.19959	0.13141	-186.1	108.7				
12417	2257.4	479.9	L:	130801 PAVMT115	115	130857 STOLE115	115	1		-98.7	-179.0	-0.03556	-0.02824	-76.0	-139.8				
				C:130757 WATRC345	345	200769 HOMER CY	345	1	1374										

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			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04180	-0.17499	-543.5	-938.6
12418	2262.8	481.6	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-98.4	-179.0	-0.03561	-0.02824	-76.0	-139.9
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04197	-0.17499	-543.5	-939.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.00038	-0.06882	257.6	101.8
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.01405	0.00000	22.4	22.4
12422	2271.8	484.3	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-83.8	-173.0	-0.03924	-0.02797	-62.4	-126.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05070	0.22228	422.3	927.3
12438	2292.4	490.5	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-88.1	-179.0	-0.03966	-0.02824	-64.2	-129.0
			C:130857 STOLE115	115	130858 GIRD115	115	1	367					
			Open 130857 STOLE115	115	130858 GIRD115	115	1			-0.36975	0.03088	64.6	135.4
12439	2292.6	490.5	L: Interface 53 PJME-NYE					639.3	787.0	0.06443	-0.00000	451.8	451.8
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.33620	-0.17499	-543.5	-944.7
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.13169	-0.04251	-35.9	-133.4
12440	2292.6	490.5	L: Interface 54 NYE-PJME					-639.3	-787.0	-0.06443	0.00000	-451.8	-451.8
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.33620	-0.17499	-543.5	-944.7
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.13169	-0.04251	-35.9	-133.4
12445	2315.2	497.3	*L: 131018 LOUNS115	115	131850 CNYOG115	115	1	35.1	143.0	0.04661	0.04661	18.7	126.6
			C:HQ-NY-765-New				1776						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.00629	-0.00004	624.7	624.6
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.00629	-0.00004	543.6	543.5
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	0.00004	10.3	10.4
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.00867	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
12449	2318.7	498.4	L: 135452 LOCKPORT	115	135876 TELRDTP1	115	1	104.1	180.0	0.03275	0.02334	86.2	140.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04231	0.22228	422.3	937.7
12455	2329.4	501.6	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-88.5	-179.0	-0.03884	-0.02824	-76.0	-141.8
			C:130806 GARDV115	115	130858 GIRD115	115	1	295					

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			Open 130806 GARDV115	115	130858 GIRD115	115	1			0.36205	-0.02926	-34.6	-102.7
12460	2352.1	508.4	L: 130836 N.WAV115	115	131018 LOUNS115	115	1	20.2	173.0	0.06498	0.04661	22.2	131.9
			C:BUS:WATERCURE_345										1632
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.05669	-0.17499	-543.5	-955.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.12286	-0.06882	257.6	95.7
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.05534	0.00000	22.4	22.4
12462	2357.0	509.9	*L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-33.1	-143.0	-0.04661	-0.04661	-16.7	-126.6
			C:HQ-NY-765-New										1776
			Open 147827 MARCY765	765	147828 MASS 765	765	1						NA
			Open 147828 MASS 765	765	180819 CHA-NY	765	1						NA
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.00629	-0.00004	624.7	624.6
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.00629	-0.00004	543.6	543.5
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1						NA
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	0.00004	10.3	10.4
			Open 147828 MASS 765	765	147838 MASS230B	230	1						NA
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.00867	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1						NA
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1						NA
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1						NA
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0							percent dispatch
			Set bus 181319 CHAT G3	120	load to	357.0							MW dispatch
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0							percent dispatch
			Set bus 181419 CHAT G4	120	load to	357.0							MW dispatch
12463	2360.4	510.9	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-97.7	-179.0	-0.03445	-0.02824	-76.0	-142.7
			C:SER:HC-WC_30&W-F_171										1601
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04152	-0.17499	-543.5	-956.6
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.02497	-0.04251	-35.9	-136.2
12481	2388.9	519.5	L: 130768 WATRC230	230	130772 SHRED230	230	1	139.4	440.0	0.12584	0.06259	71.0	220.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1						206
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.25941	-0.24381	-263.5	-846.0
12483	2394.2	521.1	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	71.0	153.0	0.03425	0.02441	52.3	110.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1						1226
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04425	0.22228	422.3	954.5
12496	2423.3	529.8	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-101.8	-179.0	-0.03187	-0.02824	-76.0	-144.5
			C:135398 SW345	345	135564 SW115	115	1						517
			Open 135398 SW345	345	135564 SW115	115	1			-0.17605	0.02062	146.2	196.2
12500	2428.9	531.5	L: 130836 N.WAV115	115	131018 LOUNS115	115	1	-7.4	173.0	0.07429	0.04661	22.2	135.4
			C:BUS:WATERCURE_230										1633
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.24198	0.06259	71.0	223.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.18211	-0.06882	257.6	90.4
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.12849	0.00000	0.5	0.5
12501	2431.9	532.4	L: 130794 DELHI115	115	130804 DEL T115	115	1	68.4	164.0	0.03931	0.02207	0.5	54.2

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				C:130753 FRASR345	345	130755 OAKDL345	345	1	200										
				Open 130753 FRASR345	345	130755 OAKDL345	345	1											
12502	2438.5	534.4	L:	130836 N.WAV115	115	131018 LOUNSL115	115	1		7.9	173.0	0.06770							
				C:ETHS/LLGD					1649										
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1											
				Open 130807 GOUDY115	115	200680 LAUREL L	115	1											
12505	2440.6	535.0	L:	130765 OAKDL230	230	130772 SHRED230	230	1		-132.9	-440.0	-0.12584							
				C:130755 OAKDL345	345	130757 WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1											
12509	2442.7	535.6	L:	130765 OAKDL230	230	130838 OAKDL115	115	1		132.6	440.0	0.12584							
				C:130755 OAKDL345	345	130757 WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1											
12516	2454.2	539.1	L:	135452 LOCKPORT	115	135851 SHEL-113	115	1		98.3	180.0	0.03330							
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1											
12517	2459.5	540.7	L:	130807 GOUDY115	115	130838 OAKDL115	115	1		-37.8	239.0	0.11255							
				C:130755 OAKDL345	345	130757 WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1											
12522	2470.5	544.0	L:	130824 LAPER115	115	136247 TULLER H	115	1		65.8	145.0	0.03205							
				C:130753 FRASR345	345	130755 OAKDL345	345	1	200										
				Open 130753 FRASR345	345	130755 OAKDL345	345	1											
12529	2501.2	553.2	L:	130836 N.WAV115	115	131018 LOUNSL115	115	1		32.9	173.0	0.05601							
				C:130768 WATRC230	230	130772 SHRED230	230	1	227										
				Open 130768 WATRC230	230	130772 SHRED230	230	1											
12534	2513.5	556.9	L:	130836 N.WAV115	115	131018 LOUNSL115	115	1		32.2	173.0	0.05601							
				C:SER:OAKDALE_WATRC230					1594										
				Open 130768 WATRC230	230	130772 SHRED230	230	1											
				Open 130765 OAKDL230	230	130772 SHRED230	230	1		NA									
				Open 130765 OAKDL230	230	130838 OAKDL115	115	1											
12539	2518.7	558.5	L:	130836 N.WAV115	115	131018 LOUNSL115	115	1		31.9	173.0	0.05601							
				C:130765 OAKDL230	230	130772 SHRED230	230	1	222										
				Open 130765 OAKDL230	230	130772 SHRED230	230	1											
12540	2519.4	558.7	L:	130836 N.WAV115	115	131018 LOUNSL115	115	1		31.9	173.0	0.05601							
				C:130765 OAKDL230	230	130838 OAKDL115	115	1	223										
				Open 130765 OAKDL230	230	130838 OAKDL115	115	1											
12554	2560.1	570.9	L:	130799 ERIE 115	115	130801 PAVMT115	115	1		-86.8	-179.0	-0.03602							
				C:SER:HCWC/NWES					1607										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1											
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1											
12567	2576.4	575.8	L:	135862 MUMFORD1	115	135866 NLEROYTA	115	1		-84.5	-173.0	-0.03435							
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1											

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12569	2579.9	576.9	L: 130836 N.WAV115	115	131018 LOUNSD115	115	1	-14.9	173.0	0.07284	0.04661	22.2	142.5
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.19959	0.13141	-186.1 152.9
12577	2589.1	579.6	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-86.9	-179.0	-0.03556	-0.02824	-64.2	-137.3
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04181	-0.17499	-543.5 -996.6
12584	2594.2	581.2	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-86.6	-179.0	-0.03561	-0.02824	-64.2	-137.5
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04198	-0.17499	-543.5 -997.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.00037	-0.06882	257.6 79.0
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.01405	0.00000	22.4 22.4
12592	2605.6	584.6	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-190.7	-637.0	-0.17128	-0.12410	-64.9	-388.3
			C:SER:HC-SR_37&W-F_171				1600						
			Open 135398 SW345	345	200769 HOMER CY	345	1				0.28847	-0.09532	-378.4 -626.8
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.46324	-0.04251	-35.9 -146.7
12593	2606.0	584.7	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	26.3	-143.0	-0.06498	-0.04661	24.3	-97.2
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.05669	-0.17499	-543.5 -999.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.12286	-0.06882	257.6 78.2
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.05534	0.00000	22.4 22.4
12615	2615.7	587.6	L: Interface 53 PJME-NYE					633.8	787.0	0.05858	-0.00000	451.8	451.8
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.33475	-0.17499	-543.5 -1001.3
12616	2615.7	587.6	L: Interface 54 NYE-PJME					-633.8	-787.0	-0.05858	0.00000	-451.8	-451.8
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.33475	-0.17499	-543.5 -1001.3
12631	2626.9	591.0	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-76.8	-179.0	-0.03890	-0.02824	-64.2	-138.4
			C:130806 GARDV115	115	130858 GIRD115	115	1 295						
			Open 130806 GARDV115	115	130858 GIRD115	115	1				0.36437	-0.02926	-34.6 -111.4
12690	2651.0	598.2	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	53.9	-143.0	-0.07429	-0.04661	24.3	-99.3
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.24198	0.06259	71.0 236.9
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.18211	-0.06882	257.6 75.1
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.12849	0.00000	0.5 0.5
14207	2675.7	605.7	L: 130787 CODNT115	115	130830 MONTR115	115	1	15.5	-108.0	-0.04617			
			Base Case										
14266	2682.3	607.6	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	38.6	-143.0	-0.06770	-0.04661	24.3	-100.7
			C:ETHS/LLGD				1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.06154	-0.17868	117.6 -361.6
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1				0.18664	-0.05411	38.0 -107.2
14357	2697.5	612.2	L: 130807 GOUDY115	115	200680 LAUREL L	115	1	38.0	-108.0	-0.05411			
			Base Case										

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14416	2702.8	613.8	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-85.9	-179.0	-0.03445	-0.02824	-64.2	-140.5
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04154	-0.17499	-543.5	-1016.5
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.02496	-0.04251	-35.9	-150.8
15856	2717.1	618.1	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-263.5	-926.0	-0.24381			
			Base Case										
15972	2741.4	625.4	L: 130836 N.WAV115	115	131018 LOUNS115	115	1	22.2	150.0	0.04661			
			Base Case										
15992	2748.8	627.6	L: Interface 53 PJME-NYE					345.7	787.0	0.16056	-0.00000	451.8	451.8
			C:ETHS/NWES/LLGD				1648						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.52034	-0.17868	117.6	-373.5
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.53724	-0.06778	43.0	-143.3
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			-0.57599	-0.05411	38.0	-110.8
15993	2748.8	627.6	L: Interface 54 NYE-PJME					-345.7	-787.0	-0.16056	0.00000	-451.8	-451.8
			C:ETHS/NWES/LLGD				1648						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.52034	-0.17868	117.6	-373.5
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.53724	-0.06778	43.0	-143.3
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.57599	-0.05411	38.0	-110.8
15994	2749.2	627.8	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	88.4	180.0	0.03330	0.02374	70.3	135.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04303	0.22228	422.3	1033.4
16064	2774.1	635.2	L: 135850 SOUR-114	115	135876 TELRDTP1	115	1	-85.0	-180.0	-0.03425	-0.02441	-66.3	-134.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04426	0.22228	422.3	1038.9
16123	2793.0	640.9	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-90.0	-179.0	-0.03187	-0.02824	-64.2	-143.1
			C:135398 SW345	345	135564 SW115	115	1 517						
			Open 135398 SW345	345	135564 SW115	115	1			-0.17620	0.02062	146.2	203.8
16154	2795.4	641.7	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-63.3	-173.0	-0.03924	-0.02797	-41.9	-120.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05070	0.22228	422.3	1043.6
16158	2795.8	641.8	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	13.6	-143.0	-0.05601	-0.04661	24.3	-106.0
			C:130768 WATRC230	230	130772 SHRED230	230	1 227						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.15025	0.06259	71.0	246.0
16258	2801.4	643.4	L: 130814 HILSD115	115	130845 RIDGT115	115	1	29.3	145.0	0.04128	0.02873	15.8	96.3
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.05150	-0.24381	-263.5	-946.5
17328	2806.5	645.0	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	61.4	-143.0	-0.07284	-0.04661	24.3	-106.5
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.19959	0.13141	-186.1	182.7
17388	2808.1	645.5	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	14.3	-143.0	-0.05601	-0.04661	24.3	-106.6
			C:SER:OAKDALE_WATRC230				1594						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.15025	0.06259	71.0	246.8

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			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1		0.10162	0.00000	6.8	6.8	
17495	2813.3	647.0	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	14.6	-143.0	-0.05601	-0.04661	24.3	-106.8
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222					
			Open 130765 OAKDL230	230	130772 SHRED230	230	1		0.15025	-0.06259	-64.5	-240.6	
17510	2814.0	647.2	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	14.6	-143.0	-0.05601	-0.04661	24.3	-106.9
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1		-0.15026	0.06259	64.3	240.4	
17616	2828.4	651.6	*L: 130836 N.WAV115	115	131018 LOUNSI15	115	1	16.0	173.0	0.05552	0.04661	22.2	154.1
			C:130807 GOUDY115	115	200680 LAUREL L	115	1	1376					
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1		-0.16462	-0.05411	38.0	-115.1	
17626	2830.4	652.2	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-54.4	-153.0	-0.03482	-0.02482	-35.4	-105.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.04499	0.22228	422.3	1051.4	
17634	2833.0	652.9	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	85.8	173.0	0.03078	0.02751	78.2	156.2
			C:BUS:WATERCURE_345					1632					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.01677	-0.17499	-543.5	-1039.3	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.00494	-0.06882	257.6	62.6	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.01331	0.00000	22.4	22.4	
17672	2844.9	656.5	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-89.5	-179.0	-0.03145	-0.02824	-76.0	-156.4
			C:130806 GARDV115	115	135450 GRDNVLI	115	1	297					
			Open 130806 GARDV115	115	135450 GRDNVLI	115	1		-0.12156	0.02636	111.2	186.2	
17694	2856.7	660.1	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-296.5	-1076.0	-0.27287	-0.24381	-263.5	-960.0
			C:130768 WATRC230	230	130772 SHRED230	230	1	227					
			Open 130768 WATRC230	230	130772 SHRED230	230	1		-0.46423	0.06259	71.0	249.8	
17702	2861.5	661.5	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	76.3	173.0	0.03378	0.02751	78.2	157.0
			C:130754 KINTI345	345	147834 NIAG 345	345	1	204					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1		-0.04136	-0.15160	46.0	-387.8	
17703	2861.5	661.5	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-295.2	-1076.0	-0.27287	-0.24381	-263.5	-961.2
			C:SER:OAKDALE_WATRC230					1594					
			Open 130768 WATRC230	230	130772 SHRED230	230	1		-0.46423	0.06259	71.0	250.1	
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1		0.19473	0.00000	6.8	6.8	
17711	2863.4	662.1	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	86.1	173.0	0.03036	0.02751	78.2	157.0
			C:SER:HCWC/NWES					1607					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.01471	-0.17499	-543.5	-1044.6	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.00415	-0.06778	43.0	-151.1	
17718	2867.7	663.4	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-293.5	-1076.0	-0.27287	-0.24381	-263.5	-962.7
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222					
			Open 130765 OAKDL230	230	130772 SHRED230	230	1		0.46423	-0.06259	-64.5	-244.0	
17719	2868.2	663.5	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-293.4	-1076.0	-0.27287	-0.24381	-263.5	-962.8
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223					

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17731	2883.4	668.1	Open 130765 OAKDL230	230	130838 OAKDL115	115	1						-0.46423	0.06259	64.3	243.8
			L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	85.7	173.0	0.03026			0.02751	78.2	157.6	
			C:135850 SOUR-114	115	135876 TELRDTP1	115	1 673									
			Open 135850 SOUR-114	115	135876 TELRDTP1	115	1						-0.11295	-0.02441	-66.3	-136.7
17732	2887.8	669.4	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	86.3	173.0	0.03002			0.02751	78.2	157.7	
			C:135452 LOCKPORT	115	135872 SOUR-111	115	1 599									
			Open 135452 LOCKPORT	115	135872 SOUR-111	115	1						0.10725	0.02346	75.1	142.8
17734	2889.2	669.8	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-87.3	-179.0	-0.03174			-0.02824	-76.0	-157.6	
			C:130857 STOLE115	115	131466 DAVIS115	115	1 368									
			Open 130857 STOLE115	115	131466 DAVIS115	115	1						-0.28642	0.01221	39.4	74.7
17735	2889.5	669.9	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	86.2	173.0	0.03005			0.02751	78.2	157.7	
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374									
			Open 130757 WATRC345	345	200769 HOMER CY	345	1						-0.01456	-0.17499	-543.5	-1049.2
17736	2892.5	670.8	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-50.8	-153.0	-0.03532			-0.02517	-31.6	-104.4	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1 1226									
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1						-0.04563	0.22228	422.3	1065.2
17740	2899.0	672.8	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	84.6	173.0	0.03048			0.02751	78.2	158.0	
			C:135850 SOUR-114	115	135861 MORTIMER	115	1 672									
			Open 135850 SOUR-114	115	135861 MORTIMER	115	1						0.12194	0.02441	52.3	123.1
17741	2899.4	672.9	*L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	86.0	173.0	0.03002			0.02751	78.2	158.0	
			C:135872 SOUR-111	115	135873 SWDN-111	115	1 706									
			Open 135872 SOUR-111	115	135873 SWDN-111	115	1						0.10725	0.02346	71.8	139.8
17742	2904.0	674.3	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-368.0	-1076.0	-0.24381			-0.24381	-263.5	-971.6	
			C:HQ-NY-765-New				1776									
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA								
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA								
			Open 147827 MARCY765	765	147833 MARCY T1	345	1						-0.03770	-0.00004	624.7	624.6
			Open 147827 MARCY765	765	147833 MARCY T1	345	2						-0.03770	-0.00004	543.6	543.5
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA								
			Open 147838 MASS230B	230	147839 MOSES E	230	1						0.00000	0.00004	10.3	10.5
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA								
			Open 147837 MASS230A	230	147839 MOSES E	230	1						0.05810	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA								
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA								
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA								
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch									
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch									
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch									
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch									
17743	2904.5	674.4	L: 130787 CODNT115	115	130830 MONTR115	115	1	39.7	-144.0	-0.06326			-0.04617	15.5	-118.6	
			C:130763 HILSD230	230	130768 WATRC230	230	1 219									
			Open 130763 HILSD230	230	130768 WATRC230	230	1						-0.13003	0.13141	-186.1	195.6

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17748	2912.8	676.9	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-67.3	239.0	0.10516	0.07815	-75.0	152.7
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.09245	-0.17499	-543.5	-1053.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.15732	-0.06882	257.6	57.1
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.09121	0.00000	22.4	22.4
17751	2919.3	678.9	L: 130787 CODNT115	115	130830 MONTR115	115	1	40.3	-144.0	-0.06314	-0.04617	15.5	-119.2
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.12671	0.06259	71.0	253.7
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.13140	-0.06882	257.6	56.7
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.10511	0.00000	0.5	0.5
17754	2923.8	680.2	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	24.3	-112.0	-0.04661			
			Base Case										
17755	2926.3	681.0	L: Interface	50	PJMCentral-C			-198.6	681.0	0.30057			
			Base Case										
17756	2926.3	681.0	L: Interface	49	C-PJMCentral			198.6	-681.0	-0.30057			
			Base Case										
17761	2937.9	684.5	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-359.7	-1076.0	-0.24381	-0.24381	-263.5	-979.8
			C:GEN:9 MI PT2				1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch							
17762	2937.9	684.5	L: 130787 CODNT115	115	130830 MONTR115	115	1	26.5	-144.0	-0.05803	-0.04617	15.5	-120.1
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.02840	-0.17499	-543.5	-1057.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.10010	-0.06882	257.6	55.4
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.02681	0.00000	22.4	22.4
17763	2940.2	685.2	L: 136184 CORTLAND	115	136247 TULLER H	115	1	-64.8	-159.0	-0.03205	-0.02472	-35.9	-108.6
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			0.04998	-0.14666	-577.5	-1008.7

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, APR 30 2009 11:19
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-rmp-jef-1k.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From NYCA_EXPORT To PJM_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 31311 violations

Interface-1 Interface 35 NY-PJM Init.Flow= 1075.99 TDF= 0.7339

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
			C: Contingency description	Ncon	Flow	Rating	LODF	Init	Final
1	-66598.1-47803.0	L: Interface	52 PJMEast-G	-2019.2	0.0	-0.03032	-0.00000	-1999.8	-1999.8
		C:SER:EESR/WRFL		1609					
		Open	135251 S RIPLEY	230	200654	ERIE E	-0.16153	0.14036	123.5 -9223.9
		Open	135277 FALCONER	115	200579	WARREN	-0.14665	0.05215	-3.5 -3476.5
2	-66598.1-47803.0	L: Interface	51 G-PJMEast	2019.2	-0.0	0.03032	0.00000	1999.8	1999.8
		C:SER:EESR/WRFL		1609					
		Open	135251 S RIPLEY	230	200654	ERIE E	0.16153	0.14036	123.5 -9223.9
		Open	135277 FALCONER	115	200579	WARREN	0.14665	0.05215	-3.5 -3476.5
3	-66443.7-47689.7	L: Interface	52 PJMEast-G	-2015.0	-0.0	-0.03033	-0.00000	-1999.8	-1999.8
		C:SER:ESEE/WRFL		1610					
		Open	270 ERIE SO.	230	531	ERIE SE	0.00051	-0.08582	-38.0 5664.0
		Open	531 ERIE SE	230	200654	ERIE E	0.16123	-0.14036	-97.6 9228.2
		Open	135277 FALCONER	115	200579	WARREN	-0.14675	0.05215	-3.5 -3468.5

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4	-66443.7-47689.7	L: Interface	51	G-PJMEast		2015.0	0.0	0.03033	0.00000	1999.8	1999.8
		C:SER:ESEE/WRFL			1610						
		Open	270	ERIE SO.	230 531 ERIE SE	230 1			-0.00051	-0.08582	-38.0 5664.0
		Open	531	ERIE SE	230 200654 ERIE E	230 1			-0.16123	-0.14036	-97.6 9228.2
		Open	135277	FALCONER	115 200579 WARREN	115 1			0.14675	0.05215	-3.5 -3468.5
5	-61074.5-43749.0	L: Interface	51	G-PJMEast		2044.8	-0.0	0.03348	0.00000	1999.8	1999.8
		C:130763 HILSD230	230	200675 E.TWANDA	230 1 1375						
		Open	130763	HILSD230	230 200675 E.TWANDA	230 1			0.20092	0.16664	224.1 -9953.1
6	-61074.5-43749.0	L: Interface	52	PJMEast-G		-2044.8	0.0	-0.03348	-0.00000	-1999.8	-1999.8
		C:130763 HILSD230	230	200675 E.TWANDA	230 1 1375						
		Open	130763	HILSD230	230 200675 E.TWANDA	230 1			-0.20092	0.16664	224.1 -9953.1
7	-54777.2-39127.2	L: Interface	51	G-PJMEast		1915.8	-0.0	0.03497	0.00000	1999.8	1999.8
		C:130757 WATRC345	345	200769 HOMER CY	345 1 1374						
		Open	130757	WATRC345	345 200769 HOMER CY	345 1			0.21985	0.15908	-382.1 -9096.2
8	-54777.2-39127.2	L: Interface	52	PJMEast-G		-1915.8	0.0	-0.03497	-0.00000	-1999.8	-1999.8
		C:130757 WATRC345	345	200769 HOMER CY	345 1 1374						
		Open	130757	WATRC345	345 200769 HOMER CY	345 1			-0.21985	0.15908	-382.1 -9096.2
9	-53189.5-37961.9	L: Interface	51	G-PJMEast		1990.9	0.0	0.03743	0.00000	1999.8	1999.8
		C:130755 OAKDL345	345	130757 WATRC345	345 1 206						
		Open	130755	OAKDL345	345 130757 WATRC345	345 1			0.16685	0.22434	-53.2-11985.5
10	-53189.5-37961.9	L: Interface	52	PJMEast-G		-1990.9	-0.0	-0.03743	-0.00000	-1999.8	-1999.8
		C:130755 OAKDL345	345	130757 WATRC345	345 1 206						
		Open	130755	OAKDL345	345 130757 WATRC345	345 1			-0.16685	0.22434	-53.2-11985.5
11	-51765.4-36916.7	L: Interface	52	PJMEast-G		-2030.9	-0.0	-0.03923	-0.00000	-1999.8	-1999.8
		C:SER:EESR/WF/NWES			1611						
		Open	135251	S RIPLEY	230 200654 ERIE E	230 1			-0.16436	0.14036	123.5 -7142.0
		Open	135277	FALCONER	115 200579 WARREN	115 1			-0.14996	0.05215	-3.5 -2703.0
		Open	130836	N.WAV115	115 200676 E.SAYRE	115 1			-0.13607	0.06132	83.3 -3091.1
12	-51765.4-36916.7	L: Interface	51	G-PJMEast		2030.9	0.0	0.03923	0.00000	1999.8	1999.8
		C:SER:EESR/WF/NWES			1611						
		Open	135251	S RIPLEY	230 200654 ERIE E	230 1			0.16436	0.14036	123.5 -7142.0
		Open	135277	FALCONER	115 200579 WARREN	115 1			0.14996	0.05215	-3.5 -2703.0
		Open	130836	N.WAV115	115 200676 E.SAYRE	115 1			0.13607	0.06132	83.3 -3091.1
13	-51314.7-36585.9	L: Interface	51	G-PJMEast		1946.5	0.0	0.03793	0.00000	1999.8	1999.8
		C:130753 FRASR345	345	130755 OAKDL345	345 1 200						
		Open	130753	FRASR345	345 130755 OAKDL345	345 1			0.17629	0.21516	-302.4-11343.5
14	-51314.7-36585.9	L: Interface	52	PJMEast-G		-1946.5	-0.0	-0.03793	-0.00000	-1999.8	-1999.8
		C:130753 FRASR345	345	130755 OAKDL345	345 1 200						
		Open	130753	FRASR345	345 130755 OAKDL345	345 1			-0.17629	0.21516	-302.4-11343.5
15	-48288.3-34364.7	L: Interface	51	G-PJMEast		1915.1	-0.0	0.03966	0.00000	1999.8	1999.8
		C:SER:HC-WC_30&W-F_171			1601						
		Open	130757	WATRC345	345 200769 HOMER CY	345 1			0.22080	0.15908	-382.1 -8063.9

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	Open 135277 FALCONER	115	200579	WARREN	115	1			0.08694	0.05215	-3.5	-2521.7
16	-48288.3-34364.7	L: Interface	52	PJMEast-G			-1915.1	0.0	-0.03966	-0.00000	-1999.8	-1999.8
	C:SER:HC-WC_30&W-F_171					1601						
	Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.22080	0.15908	-382.1	-8063.9
	Open 135277 FALCONER	115	200579	WARREN	115	1			-0.08694	0.05215	-3.5	-2521.7
17	-43378.6-30761.3	L: Interface	52	PJMEast-G			-1925.5	-0.0	-0.04439	-0.00000	-1999.8	-1999.8
	C:SER:HCWC/NWES					1607						
	Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.22494	0.15908	-382.1	-7282.9
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.14032	0.06132	83.3	-2576.8
18	-43378.6-30761.3	L: Interface	51	G-PJMEast			1925.5	0.0	0.04439	0.00000	1999.8	1999.8
	C:SER:HCWC/NWES					1607						
	Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.22494	0.15908	-382.1	-7282.9
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.14032	0.06132	83.3	-2576.8
19	-39215.1-27705.5*L:	Interface	51	G-PJMEast			2073.0	0.0	0.05286	0.00000	1999.8	1999.8
	C:ETHS/LLGD					1649						
	Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.23142	0.16664	224.1	-6310.6
	Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.28385	0.05038	75.2	-1900.3
20	-39215.1-27705.5*L:	Interface	52	PJMEast-G			-2073.0	-0.0	-0.05286	-0.00000	-1999.8	-1999.8
	C:ETHS/LLGD					1649						
	Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.23142	0.16664	224.1	-6310.6
	Open 130807 GOUDY115	115	200680	LAUREL L	115	1			-0.28385	0.05038	75.2	-1900.3
27	-31059.2-21719.6	L: Interface	21	PJM-WEST			4828.1	0.0	0.15545	0.20783	4706.6	-1748.3
	C:SER:HC-WC_30&W-F_171					1601						
	Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.31754	0.15908	-382.1	-5323.1
	Open 135277 FALCONER	115	200579	WARREN	115	1			-0.03571	0.05215	-3.5	-1623.2
28	-30677.6-21439.5	L: Interface	21	PJM-WEST			4827.8	0.0	0.15737	0.20783	4706.6	-1669.0
	C:130757 WATRC345	345	200769	HOMER CY	345	1	1374					
	Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.31715	0.15908	-382.1	-5262.4
29	-30676.2-21438.5	L: Interface	21	PJM-WEST			4825.6	-0.0	0.15731	0.20783	4706.6	-1668.7
	C:BUS:WATERCURE_345					1632						
	Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.31737	0.15908	-382.1	-5262.2
	Open 130757 WATRC345	345	130768	WATRC230	230	1			-0.00048	0.06525	318.7	-1683.0
	Open 130755 OAKDL345	345	130757	WATRC345	345	1			-0.21141	0.00000	10.2	10.2
30	-30173.0-21069.2	L: Interface	21	PJM-WEST			4830.6	0.0	0.16010	0.20783	4706.6	-1564.1
	C:SER:HCWC/NWES					1607						
	Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.31568	0.15908	-382.1	-5182.1
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.04062	0.06132	83.3	-1767.0
31	-27168.4-18864.0	L: Interface	21	PJM-WEST			4570.4	-0.0	0.16823	0.20783	4706.6	-939.7
	C:KEY-SHELOCTA/BLAIRSVL-SOCIAL					1650						
	Open 505 SHELOCTA	230	521	KEYSTONE	230	1			-0.40191	0.09409	266.1	-2290.2
	Open 473 BLAIRSVL	138	235253	01SOCIAL	138	1			-0.24479	0.00729	119.5	-78.4
32	-25670.6-17764.7	L: Interface	21	PJM-WEST			4759.4	-0.0	0.18540	0.20783	4706.6	-628.4

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	C:SER:HC-SR_37&W-F_171				1600						
	Open 135398 SW345	345	200769	HOMER CY	345	1			-0.17862	0.10402	-293.9 -2964.1
	Open 135277 FALCONER	115	200579	WARREN	115	1			-0.07371	0.05215	-3.5 -1342.2
33	-25575.4-17694.8	L: Interface	21	PJM-WEST			4693.0	0.0	0.18350	0.20783	4706.6 -608.6
	C:SER:ESEE/WRFL				1610						
	Open 270 ERIE SO.	230	531	ERIE SE	230	1			-0.00480	-0.08582	-38.0 2156.8
	Open 531 ERIE SE	230	200654	ERIE E	230	1			0.14464	-0.14036	-97.6 3492.1
	Open 135277 FALCONER	115	200579	WARREN	115	1			-0.08513	0.05215	-3.5 -1337.3
34	-25565.4-17687.4	L: Interface	21	PJM-WEST			4689.4	-0.0	0.18343	0.20783	4706.6 -606.5
	C:SER:EESR/WRFL				1609						
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			-0.14186	0.14036	123.5 -3464.7
	Open 135277 FALCONER	115	200579	WARREN	115	1			-0.08604	0.05215	-3.5 -1336.7
35	-25136.3-17372.5	L: Interface	21	PJM-WEST			4693.7	-0.0	0.18673	0.20783	4706.6 -517.3
	C:SER:EESR/WF/NWES				1611						
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			-0.14081	0.14036	123.5 -3404.5
	Open 135277 FALCONER	115	200579	WARREN	115	1			-0.08481	0.05215	-3.5 -1314.4
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.05043	0.06132	83.3 -1458.1
36	-24974.9-17254.1	*L: Interface	21	PJM-WEST			4755.8	0.0	0.19042	0.20783	4706.6 -483.8
	C:135398 SW345	345	200769	HOMER CY	345	1	1380				
	Open 135398 SW345	345	200769	HOMER CY	345	1			-0.16731	0.10402	-293.9 -2891.8
1773	-22495.5-15434.3	L: Interface	54	NYE-PJME			1485.8	787.0	0.03106	-0.00000	1547.9 1547.9
	C:SER:HC-SR_37&W-F_171				1600						
	Open 135398 SW345	345	200769	HOMER CY	345	1			0.20937	0.10402	-293.9 -2633.9
	Open 135277 FALCONER	115	200579	WARREN	115	1			0.17804	0.05215	-3.5 -1176.7
1774	-22495.5-15434.3	L: Interface	53	PJME-NYE			-1485.8	-787.0	-0.03106	0.00000	-1547.9 -1547.9
	C:SER:HC-SR_37&W-F_171				1600						
	Open 135398 SW345	345	200769	HOMER CY	345	1			-0.20937	0.10402	-293.9 -2633.9
	Open 135277 FALCONER	115	200579	WARREN	115	1			-0.17804	0.05215	-3.5 -1176.7
1796	-19656.5-13350.7	L: Interface	53	PJME-NYE			-1589.6	-787.0	-0.04083	0.00000	-1547.9 -1547.9
	C:SER:EESR/NWES				1608						
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			-0.20505	0.14036	123.5 -2635.4
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.19657	0.06132	83.3 -1122.1
1797	-19656.5-13350.7	L: Interface	54	NYE-PJME			1589.6	787.0	0.04083	-0.00000	1547.9 1547.9
	C:SER:EESR/NWES				1608						
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			0.20505	0.14036	123.5 -2635.4
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			0.19657	0.06132	83.3 -1122.1
1802	-17023.0-11417.9	L: Interface	54	NYE-PJME			1577.7	787.0	0.04645	-0.00000	1547.9 1547.9
	C:SER:EESR/WRFL				1609						
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			0.24756	0.14036	123.5 -2265.7
	Open 135277 FALCONER	115	200579	WARREN	115	1			0.22443	0.05215	-3.5 -891.3
1803	-17023.0-11417.9	L: Interface	53	PJME-NYE			-1577.7	-787.0	-0.04645	0.00000	-1547.9 -1547.9
	C:SER:EESR/WRFL				1609						

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	Open 135251 S RIPLEY	230	200654	ERIE E	230	1				-0.24756	0.14036	123.5	-2265.7
	Open 135277 FALCONER	115	200579	WARREN	115	1				-0.22443	0.05215	-3.5	-891.3
1804	-16880.6-11313.3	L: Interface	53	PJME-NYE			-1571.3	-787.0	-0.04646		0.00000	-1547.9	-1547.9
	C:SER:ESEE/WRFL					1610							
	Open 270 ERIE SO.	230	531	ERIE SE	230	1				0.00073	-0.08582	-38.0	1410.6
	Open 531 ERIE SE	230	200654	ERIE E	230	1				0.24714	-0.14036	-97.6	2271.7
	Open 135277 FALCONER	115	200579	WARREN	115	1				-0.22457	0.05215	-3.5	-883.8
1805	-16880.6-11313.3	L: Interface	54	NYE-PJME			1571.3	787.0	0.04646		-0.00000	1547.9	1547.9
	C:SER:ESEE/WRFL					1610							
	Open 270 ERIE SO.	230	531	ERIE SE	230	1				-0.00073	-0.08582	-38.0	1410.6
	Open 531 ERIE SE	230	200654	ERIE E	230	1				-0.24714	-0.14036	-97.6	2271.7
	Open 135277 FALCONER	115	200579	WARREN	115	1				0.22457	0.05215	-3.5	-883.8
1806	-16856.7-11295.8	L: Interface	54	NYE-PJME			1613.9	787.0	0.04905		-0.00000	1547.9	1547.9
	C:130763 HILSD230	230	200675	E.TWANDA	230	1	1375						
	Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.29438	0.16664	224.1	-2584.9
1807	-16856.7-11295.8	L: Interface	53	PJME-NYE			-1613.9	-787.0	-0.04905		0.00000	-1547.9	-1547.9
	C:130763 HILSD230	230	200675	E.TWANDA	230	1	1375						
	Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.29438	0.16664	224.1	-2584.9
1808	-13556.7 -8873.8	L: Interface	53	PJME-NYE			-1594.9	-787.0	-0.05960		0.00000	-1547.9	-1547.9
	C:SER:EESR/WF/NWES					1611							
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1				-0.25173	0.14036	123.5	-1779.2
	Open 135277 FALCONER	115	200579	WARREN	115	1				-0.22931	0.05215	-3.5	-710.5
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.20070	0.06132	83.3	-748.0
1809	-13556.7 -8873.8	L: Interface	54	NYE-PJME			1594.9	787.0	0.05960		-0.00000	1547.9	1547.9
	C:SER:EESR/WF/NWES					1611							
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1				0.25173	0.14036	123.5	-1779.2
	Open 135277 FALCONER	115	200579	WARREN	115	1				0.22931	0.05215	-3.5	-710.5
	Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.20070	0.06132	83.3	-748.0
1810	-13332.1 -8709.0	L: Interface	53	PJME-NYE			-1534.6	-787.0	-0.05608		0.00000	-1547.9	-1547.9
	C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
	Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.24998	0.22434	-53.2	-3044.1
1811	-13332.1 -8709.0	L: Interface	54	NYE-PJME			1534.6	787.0	0.05608		-0.00000	1547.9	1547.9
	C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
	Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.24998	0.22434	-53.2	-3044.1
1812	-12260.2 -7922.2	L: Interface	53	PJME-NYE			-1469.7	-787.0	-0.05568		0.00000	-1547.9	-1547.9
	C:130753 FRASR345	345	130755	OAKDL345	345	1	200						
	Open 130753 FRASR345	345	130755	OAKDL345	345	1				-0.25880	0.21516	-302.4	-2940.3
1813	-12260.2 -7922.2	L: Interface	54	NYE-PJME			1469.7	787.0	0.05568		-0.00000	1547.9	1547.9
	C:130753 FRASR345	345	130755	OAKDL345	345	1	200						
	Open 130753 FRASR345	345	130755	OAKDL345	345	1				0.25880	0.21516	-302.4	-2940.3
1814	-11799.8 -7584.4	L: Interface	53	PJME-NYE			-1419.2	-787.0	-0.05358		0.00000	-1547.9	-1547.9
	C:130757 WATRC345	345	200769	HOMER CY	345	1	1374						

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			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.33681	0.15908	-382.1	-2259.3
1815	-11799.8	-7584.4	L: Interface	54		NYE-PJME			1419.2	787.0	0.05358		-0.00000	1547.9	1547.9
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.33681	0.15908	-382.1	-2259.3
1816	-11197.0	-7141.9	*L: Interface	53		PJME-NYE			-1655.3	-787.0	-0.07755		0.00000	-1547.9	-1547.9
			C:ETHS/LLGD						1649						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.33923	0.16664	224.1	-1641.8
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1				-0.41735	0.05038	75.2	-488.8
1817	-11197.0	-7141.9	*L: Interface	54		NYE-PJME			1655.3	787.0	0.07755		-0.00000	1547.9	1547.9
			C:ETHS/LLGD						1649						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.33923	0.16664	224.1	-1641.8
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1				0.41735	0.05038	75.2	-488.8
1818	-10393.4	-6552.1	L: Interface	20		PJM-CENT			3023.9	-0.0	0.29095		0.36071	2864.3	-884.7
			C:SER:HC-WC_30&W-F_171						1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.41715	0.15908	-382.1	-2035.5
			Open 135277 FALCONER	115	200579	WARREN	115	1				-0.06515	0.05215	-3.5	-545.5
1821	-10276.4	-6466.3	L: Interface	20		PJM-CENT			3017.8	-0.0	0.29366		0.36071	2864.3	-842.5
			C:BUS:WATERCURE_345						1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.41905	0.15908	-382.1	-2016.9
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.00582	0.06525	318.7	-351.9
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.46685	0.00000	10.2	10.2
1822	-10267.8	-6459.9	L: Interface	20		PJM-CENT			3023.4	-0.0	0.29446		0.36071	2864.3	-839.3
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.41643	0.15908	-382.1	-2015.6
1823	-10147.1	-6371.4	L: Interface	20		PJM-CENT			3027.5	-0.0	0.29836		0.36071	2864.3	-795.8
			C:SER:HCWC/NWES						1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.41432	0.15908	-382.1	-1996.4
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.05811	0.06132	83.3	-539.0
1824	-9700.9	-6043.8	L: Interface	20		PJM-CENT			3499.2	-0.0	0.36071		0.36071	2864.3	-634.9
			C:GEN:SALEM						1567						
			Remove unit 1 from bus	36	SALEM-G1	22.0	1100.0	MW	dispatch						
1827	-9377.6	-5806.6	L: Interface	20		PJM-CENT			3382.6	-0.0	0.36071		0.36071	2864.3	-518.3
			C:SIN:250						1677						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				-0.00004	0.00000	-0.1	-0.1
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch						
1828	-9278.3	-5733.7	L: Interface	20		PJM-CENT			3346.7	0.0	0.36071		0.36071	2864.3	-482.4
			C:GEN:MILLST 3						1572						
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch						
1829	-9278.3	-5733.7	L: Interface	20		PJM-CENT			3346.7	0.0	0.36071		0.36071	2864.3	-482.4
			C:GEN:MLS3&OMS						1574						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				-0.00004	0.00000	-0.1	-0.1
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch						

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1830	-9270.4	-5727.9	L: Interface	20	PJM-CENT					3343.9	0.0	0.36071	0.36071	2864.3	-479.6			
			C:GEN:SEAB&OMS															
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1		
			Remove unit 1		from bus	102869	SBRK	G1		25.0	1318.0	MW	dispatch					
1831	-9270.4	-5727.9	*L: Interface	20	PJM-CENT					3343.9	0.0	0.36071	0.36071	2864.3	-479.6			
			C:GEN:SEABROOK															
			Remove unit 1		from bus	102869	SBRK	G1		25.0	1318.0	MW	dispatch					
1853	-8654.9	-5276.2	L: Interface	50	PJMCentral-C					-342.4	-0.0	-0.03957	-0.27833	-382.6	2026.4			
			C:LKWANA-OXBW															
			Open	417	OXBOW	230	3070	LACKAWNA		230	1		0.92585	0.25789	43.4	-2188.7		
1854	-8654.9	-5276.2	L: Interface	49	C-PJMCentral					342.4	0.0	0.03957	0.27833	382.6	-2026.4			
			C:LKWANA-OXBW															
			Open	417	OXBOW	230	3070	LACKAWNA		230	1		-0.92585	0.25789	43.4	-2188.7		
3596	-6776.2	-3897.3	L: 129265	CARLE	PL	138	129270	E.G.C.		138	1		-683.3	-339.0	-0.05081	-0.03689	-500.2	-250.2
			C:129281	GLNWD	GT	138	129282	GLNWD	NO	138	1	1425						
			Open	129281	GLNWD	GT	138	129282	GLNWD	NO	138	1						
3597	-6546.0	-3728.4	L: 129265	CARLE	PL	138	129270	E.G.C.		138	1		-680.2	-339.0	-0.05213	-0.03689	-500.2	-258.7
			C:129282	GLNWD	NO	138	129293	SHORE	RD	138	1	1427						
			Open	129282	GLNWD	NO	138	129293	SHORE	RD	138	1						
3601	-6429.4	-3642.8	L: 129265	CARLE	PL	138	129270	E.G.C.		138	1		-500.2	-263.0	-0.03689			
			Base Case															
3602	-6423.2	-3638.3	L: 129265	CARLE	PL	138	129270	E.G.C.		138	1		-665.3	-339.0	-0.05081	-0.03689	-500.2	-263.2
			C:129270	E.G.C.		138	129288	ROSLYN		138	1	1419						
			Open	129270	E.G.C.	138	129288	ROSLYN		138	1							
3603	-6071.4	-3380.0	L: 129265	CARLE	PL	138	129270	E.G.C.		138	1		-647.5	-339.0	-0.05081	-0.03689	-500.2	-276.2
			C:129281	GLNWD	GT	138	129288	ROSLYN		138	1	1426						
			Open	129281	GLNWD	GT	138	129288	ROSLYN	138	1							
3604	-6048.2	-3363.0	L: Interface	23	QFW					1609.2	-0.0	0.26606	0.26606	1355.8	-253.4			
			C:GEN:BRUCE 6															
			Remove unit 1		from bus	159617	BRUCEBG5			24.0	815.5	MW	dispatch					
3605	-5980.6	-3313.4	L: Interface	23	QFW					1400.7	0.0	0.23421	0.26606	1355.8	-235.4			
			C:147834	NIAG	345	345	149000	ROCH	345	345	1	1226						
			Open	147834	NIAG	345	345	149000	ROCH	345	345	1						
3606	-5920.3	-3269.2	L: 129281	GLNWD	GT	138	129282	GLNWD	NO	138	1		684.5	379.0	0.05161	0.03779	497.1	273.4
			C:129265	CARLE	PL	138	129270	E.G.C.		138	1	1416						
			Open	129265	CARLE	PL	138	129270	E.G.C.	138	1							
3609	-5751.9	-3145.6	L: 129270	E.G.C.		138	129288	ROSLYN		138	1		635.8	339.0	0.05161	0.03779	448.4	231.1
			C:129265	CARLE	PL	138	129270	E.G.C.		138	1	1416						
			Open	129265	CARLE	PL	138	129270	E.G.C.	138	1							
3610	-5702.3	-3109.2	L: Interface	23	QFW					1517.2	0.0	0.26606	0.26606	1355.8	-161.3			
			C:GEN:NANTCK 8															
			Remove unit 1		from bus	158743	NANTICG8			22.0	490.0	MW	dispatch					

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3611	-5685.8	-3097.1	L: Interface	23	QFW			1512.8	0.0	0.26606		0.26606	1355.8	-157.0			
			C:GEN:PICKER	6							1566						
			Remove unit 1	from bus	156683	PIC B G5	24.0	510.9	MW	dispatch							
3612	-5665.2	-3081.9	L: Interface	23	QFW			1421.3	-0.0	0.25088		0.26606	1355.8	-151.5			
			C:130754	KINTI345	345	149000	ROCH	345	345	1	205						
			Open 130754	KINTI345	345	149000	ROCH	345	345	1		0.17348	-0.08752	377.2	873.0		
3613	-5442.8	-2918.7	L: Interface	23	QFW			1434.3	-0.0	0.26353		0.26606	1355.8	-92.3			
			C:LAMBT7/LAMGEN								1646						
			Open 160050	LAMB	L4D	345	B\$1020	LAMBTON	T7	1.00	T7	0.04366	-0.05797	-291.9	23.6		
			Open 160064	LAMB	T78	220	B\$1020	LAMBTON	T7	1.00	T7	-0.17693	0.00000	0.3	0.3		
			Set bus 160705	LAMBTNG4	24.0	generation	to	0.0	MW	dispatch							
3614	-5442.5	-2918.5	L: Interface	23	QFW			1434.4	-0.0	0.26356		0.26606	1355.8	-92.2			
			C:LAMBT8/LAMGEN								1647						
			Open 160050	LAMB	L4D	345	B\$1021	LAMBTON	T8	1.00	T8	0.04351	-0.05752	-289.6	23.5		
			Open 160064	LAMB	T78	220	B\$1021	LAMBTON	T8	1.00	T8	-0.17682	0.00000	0.5	0.5		
			Set bus 160705	LAMBTNG4	24.0	generation	to	0.0	MW	dispatch							
3615	-5428.4	-2908.1	L: Interface	23	QFW			1324.4	0.0	0.24398		0.26606	1355.8	-88.5			
			C:130754	KINTI345	345	147834	NIAG	345	345	1	204						
			Open 130754	KINTI345	345	147834	NIAG	345	345	1		-0.17348	0.12729	181.0	-509.9		
3616	-5398.9	-2886.4	L: Interface	23	QFW			1422.8	-0.0	0.26353		0.26606	1355.8	-80.6			
			C:L4D+G3								1644						
			Open 160050	LAMB	L4D	345	B\$1020	LAMBTON	T7	1.00	T7	0.04366	-0.05797	-291.9	21.0		
			Open 160064	LAMB	T78	220	B\$1020	LAMBTON	T7	1.00	T7	-0.17693	0.00000	0.3	0.3		
			Open 160069	LAMBT	PK2	220	160704	LAMBTNG3	24.0	T3		-0.18636	0.00000	62.1	62.1		
			Remove unit 1	from bus	160704	LAMBTNG3	24.0	490.0	MW	dispatch							
3617	-5398.6	-2886.3	*L: Interface	23	QFW			1422.9	0.0	0.26356		0.26606	1355.8	-80.5			
			C:L51D+G3								1645						
			Open 160050	LAMB	L4D	345	B\$1021	LAMBTON	T8	1.00	T8	0.04351	-0.05752	-289.6	20.9		
			Open 160064	LAMB	T78	220	B\$1021	LAMBTON	T8	1.00	T8	-0.17682	0.00000	0.5	0.5		
			Open 160069	LAMBT	PK2	220	160704	LAMBTNG3	24.0	T3		-0.18629	0.00000	62.1	62.1		
			Remove unit 1	from bus	160704	LAMBTNG3	24.0	490.0	MW	dispatch							
3624	-5296.6	-2811.4	L: 129281	GLNWD	GT	138	129282	GLNWD	NO	138	1						
			Base Case														
3632	-5216.2	-2752.4	L: 129281	GLNWD	GT	138	129282	GLNWD	NO	138	1						
			C:129265	CARLE	PL	138	129283	GLNWD	SO	138	1	1417					
			Open 129265	CARLE	PL	138	129283	GLNWD	SO	138	1		0.37464	0.03689	403.2	210.8	
5298	-5054.0	-2633.3	L: 129265	CARLE	PL	138	129270	E.G.C.		138	1						
			C:129234	VLY	STRM	138	129235	V	STRM	P	138	1	1409				
			Open 129234	VLY	STRM	138	129235	V	STRM	P	138	1		-0.20642	0.00000	122.4	122.4
5300	-5051.3	-2631.4	L: 129265	CARLE	PL	138	129270	E.G.C.		138	1						
			C:126455	JAMAICA		138	129235	V	STRM	P	138	1	1497				
			Open 126455	JAMAICA		138	129235	V	STRM	P	138	1		0.20642	0.00000	-121.9	-121.9

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5303	-5047.8	-2628.8	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	599.5	339.0	0.05161	0.03779	448.4	257.7
			C:129265 CARLE PL	138	129283	GLNWD SO	138	1 1417						
			Open 129265 CARLE PL	138	129283	GLNWD SO	138	1			0.37464	0.03689	403.2	217.0
5322	-4963.9	-2567.2	L: 129281 GLNWD GT	138	129282	GLNWD NO	138	1	638.4	379.0	0.05225	0.03779	497.1	309.6
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1 1428						
			Open 129283 GLNWD SO	138	129293	SHORE RD	138	1			0.34714	0.04168	406.9	200.0
5333	-4920.1	-2535.0	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-516.3	-339.0	-0.03603	-0.03689	-500.2	-318.7
			C:SER:PV_LM_398					1597						
			Open 103105 LONG MTN	345	103117	CTNY398	345	1			-0.07048	-0.01224	228.1	288.3
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1			0.00121	0.00000	0.1	0.1
5334	-4919.8	-2534.9	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-516.2	-339.0	-0.03603	-0.03689	-500.2	-318.7
			C:103117 CTNY398	345	126294	PLTVLLEY	345	1 1362						
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1			-0.07048	-0.01224	228.0	288.2
5341	-4907.8	-2526.1	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	448.4	263.0	0.03779			
			Base Case											
5351	-4824.6	-2465.0	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-519.6	-339.0	-0.03744	-0.03689	-500.2	-322.2
			C:129270 E.G.C.	138	129580	E.G.C.1	69.0	1 1523						
			Open 129270 E.G.C.	138	129580	E.G.C.1	69.0	1			-0.12878	0.00426	151.0	130.4
5355	-4797.6	-2445.2	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	589.7	339.0	0.05225	0.03779	448.4	267.2
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1 1428						
			Open 129283 GLNWD SO	138	129293	SHORE RD	138	1			0.34714	0.04168	406.9	206.9
5370	-4639.2	-2328.9	*L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-511.6	-339.0	-0.03721	-0.03689	-500.2	-329.0
			C:129234 VLY STRM	138	129528	VLYSTRM2	69.0	2 1518						
			Open 129234 VLY STRM	138	129528	VLYSTRM2	69.0	2			-0.07549	0.00420	151.4	131.9
7100	-4079.8	-1918.3	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	586.3	379.0	0.05081	0.03689	403.2	252.7
			C:129281 GLNWD GT	138	129282	GLNWD NO	138	1 1425						
			Open 129281 GLNWD GT	138	129282	GLNWD NO	138	1			0.36828	0.03779	497.1	343.0
7101	-4072.7	-1913.2	L: Interface 26 ONTARIO-MICH						1028.8	-0.0	0.25261	0.26606	1009.8	-73.7
			C:147834 NIAG 345	345	149000	ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1			0.08830	-0.15234	214.7	835.2
7103	-4036.2	-1886.4	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	-587.3	-379.0	-0.05161	-0.03779	-399.9	-247.4
			C:129265 CARLE PL	138	129270	E.G.C.	138	1 1416						
			Open 129265 CARLE PL	138	129270	E.G.C.	138	1			0.37464	-0.03689	-500.2	-351.3
7104	-4020.9	-1875.1	L: Interface 26 ONTARIO-MICH						1059.6	0.0	0.26351	0.26606	1009.8	-59.9
			C:SIN:440					1683						
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1			0.03801	-0.06703	1307.8	1577.3
7105	-4020.9	-1875.1	L: Interface 26 ONTARIO-MICH						1059.6	0.0	0.26351	0.26606	1009.8	-59.9
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1 7						
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1			0.03801	-0.06703	1307.8	1577.3
7106	-4007.5	-1865.3	L: Interface 26 ONTARIO-MICH						1052.5	0.0	0.26263	0.26606	1009.8	-56.4
			C:BUS:N.S._99					1615						
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1			0.00353	0.03063	-261.9	-384.6

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			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.04523	0.06572	-745.4	-1008.8
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				-0.00402	-0.01673	119.4	186.4
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				-0.01459	0.04308	-692.8	-865.5
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				0.20183	0.00000	1.1	1.1
7107	-4007.3	-1865.2	L: Interface	26	ONTARIO-MICH				1066.2	0.0	0.26606		0.26606	1009.8	-56.3
			C: 91 JEFFERSN	500	126250	RAMAPO 5	500	1	1351						
			Open 91 JEFFERSN	500	126250	RAMAPO 5	500	1				-0.05641	0.00000	-998.9	-998.9
7108	-4007.3	-1865.2	L: Interface	26	ONTARIO-MICH				1066.2	0.0	0.26606		0.26606	1009.8	-56.3
			C:126250 RAMAPO 5	500	126296	RAM PAR	345	1	78						
			Open 126250 RAMAPO 5	500	126296	RAM PAR	345	1				-0.05641	0.00000	-998.9	-998.9
7109	-3999.0	-1859.1	L: Interface	26	ONTARIO-MICH				1051.0	-0.0	0.26282		0.26606	1009.8	-54.1
			C:SIN:180					1672							
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.04923	0.06572	-745.4	-1008.2
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1				0.03757	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905	ILION	115	1				-0.00003	-0.00012	88.8	89.3
7110	-3999.0	-1859.1	L: Interface	26	ONTARIO-MICH				1051.0	0.0	0.26282		0.26606	1009.8	-54.1
			C:SIN:170					1671							
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.04923	0.06572	-745.4	-1008.2
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1				0.03757	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246	VALLEY	115	1				-0.00005	-0.00017	75.0	75.7
7112	-3995.7	-1856.6	L: Interface	26	ONTARIO-MICH				1037.5	-0.0	0.25965		0.26606	1009.8	-53.3
			C:130754 KINTI345	345	149000	ROCH 345	345	1	205						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.07327	-0.08752	377.2	726.9
7113	-3991.7	-1853.7	*L: Interface	26	ONTARIO-MICH				1048.6	0.0	0.26270		0.26606	1009.8	-52.2
			C:BUS:N.S._77					1614							
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				-0.01441	0.03654	-193.9	-339.8
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1				-0.01779	-0.01575	112.6	175.5
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				0.05805	-0.06194	664.9	912.1
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1				0.01218	0.03963	-49.7	-207.9
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1				0.18784	0.00000	-0.0	-0.0
7124	-3917.9	-1799.5	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	583.2	379.0	0.05213		0.03689	403.2	258.7
			C:129282 GLNWD NO	138	129293	SHORE RD	138	1	1427						
			Open 129282 GLNWD NO	138	129293	SHORE RD	138	1				0.34543	0.04411	521.2	348.4
7272	-3811.4	-1721.4	L: 129281 GLNWD GT	138	129282	GLNWD NO	138	1	523.0	379.0	0.03779		0.03779	497.1	353.1
			C:129234 VLY STRM	138	129235	V STRM P	138	1	1409						
			Open 129234 VLY STRM	138	129235	V STRM P	138	1				0.21150	0.00000	122.4	122.4
7301	-3808.8	-1719.4	L: 129281 GLNWD GT	138	129282	GLNWD NO	138	1	522.9	379.0	0.03779		0.03779	497.1	353.2
			C:126455 JAMAICA	138	129235	V STRM P	138	1	1497						
			Open 126455 JAMAICA	138	129235	V STRM P	138	1				-0.21150	0.00000	-121.9	-121.9
8806	-3726.8	-1659.3	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	568.3	379.0	0.05081		0.03689	403.2	265.7
			C:129270 E.G.C.	138	129288	ROSLYN	138	1	1419						
			Open 129270 E.G.C.	138	129288	ROSLYN	138	1				0.36828	0.03779	448.4	307.6

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8828	-3647.8	-1601.3	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	513.6	379.0	0.03690	0.03779	497.1	359.3
			C:SER:PV_LM_398				1597						
			Open 103105 LONG MTN	345	103117 CTNY398	345	1			0.07223	-0.01224	228.1	272.7
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			-0.00124	0.00000	0.1	0.1
8830	-3647.6	-1601.1	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	513.6	379.0	0.03690	0.03779	497.1	359.3
			C:103117 CTNY398	345	126294 PLTVLLEY	345	1 1362						
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			0.07223	-0.01224	228.0	272.6
8834	-3604.4	-1569.4	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	517.2	379.0	0.03835	0.03779	497.1	360.9
			C:129270 E.G.C.	138	129580 E.G.C.1	69.0	1 1523						
			Open 129270 E.G.C.	138	129580 E.G.C.1	69.0	1			0.13314	0.00426	151.0	135.6
8842	-3581.4	-1552.5	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	474.3	339.0	0.03779	0.03779	448.4	313.1
			C:129234 VLY STRM	138	129235 V STRM P	138	1 1409						
			Open 129234 VLY STRM	138	129235 V STRM P	138	1			0.21150	0.00000	122.4	122.4
8844	-3578.8	-1550.6	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	474.2	339.0	0.03779	0.03779	448.4	313.2
			C:126455 JAMAICA	138	129235 V STRM P	138	1 1497						
			Open 126455 JAMAICA	138	129235 V STRM P	138	1			-0.21150	0.00000	-121.9	-121.9
8866	-3412.3	-1428.4	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	464.9	339.0	0.03690	0.03779	448.4	319.5
			C:SER:PV_LM_398				1597						
			Open 103105 LONG MTN	345	103117 CTNY398	345	1			0.07223	-0.01224	228.1	269.9
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			-0.00124	0.00000	0.1	0.1
8867	-3412.1	-1428.3	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	464.9	339.0	0.03690	0.03779	448.4	319.5
			C:103117 CTNY398	345	126294 PLTVLLEY	345	1 1362						
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			0.07223	-0.01224	228.0	269.7
8868	-3408.4	-1425.6	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	508.9	379.0	0.03811	0.03779	497.1	368.3
			C:129234 VLY STRM	138	129528 VLYSTRM2	69.0	2 1518						
			Open 129234 VLY STRM	138	129528 VLYSTRM2	69.0	2			0.07771	0.00420	151.4	137.1
8873	-3377.8	-1403.1	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	468.5	339.0	0.03835	0.03779	448.4	320.8
			C:129270 E.G.C.	138	129580 E.G.C.1	69.0	1 1523						
			Open 129270 E.G.C.	138	129580 E.G.C.1	69.0	1			0.13314	0.00426	151.0	136.6
8875	-3375.5	-1401.4	*L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	505.1	379.0	0.03737	0.03779	497.1	369.6
			C:126281 FISHKILL	345	126292 PL VILLE	345	1 108						
			Open 126281 FISHKILL	345	126292 PL VILLE	345	1			0.00963	-0.04288	831.9	976.6
8876	-3375.0	-1401.0	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	550.5	379.0	0.05081	0.03689	403.2	278.7
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1 1426						
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1			-0.36828	-0.03779	-399.9	-272.4
8891	-3352.4	-1384.5	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	465.7	339.0	0.03779	0.03779	448.4	321.8
			C:128958 GLNWDMID	13.8	129281 GLNWD GT	138	1 1504						
			Open 128958 GLNWDMID	13.8	129281 GLNWD GT	138	1			-0.17199	0.00000	-100.2	-100.2
8901	-3332.1	-1369.6	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-551.0	-379.0	-0.05161	-0.03779	-399.9	-274.0
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1 1417						
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1			-0.37464	0.03689	403.2	280.3
8915	-3263.1	-1318.9	L: 126295 RAINNEY	345	126561 8E DUM	138	8	-480.3	-342.0	-0.04239	-0.04239	-377.6	-239.2

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			C:GEN:RAVNWD 3-New								1774									
			Open 126652 RAV 3	22.0	126865	RAV3 60M	345	2				0.00000	0.00000	481.0	481.0					
			Open 126652 RAV 3	22.0	126866	RAV3 60L	345	1				0.10683	0.00000	-962.0	-962.0					
8942	-3180.4	-1258.2	*L: 129270 E.G.C.	138	129288	ROSLYN	138	1	460.2	339.0	0.03811		0.03779	448.4	328.3					
			C:129234 VLY STRM	138	129528	VLYSTRM2	69.0	2 1518												
			Open 129234 VLY STRM	138	129528	VLYSTRM2	69.0	2				0.07771	0.00420	151.4	138.1					
10547	-3103.3	-1201.6	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	-541.2	-379.0	-0.05225		-0.03779	-399.9	-282.6					
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1 1428												
			Open 129283 GLNWD SO	138	129293	SHORE RD	138	1				-0.34714	0.04168	406.9	277.6					
10653	-2961.9	-1097.9	L: 126295 RAINEY	345	126561	8E DUM	138	8	-377.6	-252.0	-0.04239									
			Base Case																	
12243	-2878.6	-1036.7	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	403.2	297.0	0.03689									
			Base Case																	
12336	-2723.4	-922.8	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	-399.9	-297.0	-0.03779									
			Base Case																	
12392	-2052.6	-430.5	L: 126295 RAINEY	345	126562	8W DUM	138	8	-340.8	-256.0	-0.04131									
			Base Case																	
12399	-1841.9	-275.8	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-420.1	-342.0	-0.04239		-0.04239	-324.1	-246.0					
			C:GEN:RAVNWD 3-New																	
			Open 126652 RAV 3	22.0	126865	RAV3 60M	345	2				0.00000	0.00000	481.0	481.0					
			Open 126652 RAV 3	22.0	126866	RAV3 60L	345	1				0.09975	0.00000	-962.0	-962.0					
12406	-1760.2	-215.9	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	416.6	342.0	0.04239		0.04239	320.7	246.0					
			C:GEN:RAVNWD 3-New																	
			Open 126652 RAV 3	22.0	126865	RAV3 60M	345	2				-0.00000	0.00000	481.0	481.0					
			Open 126652 RAV 3	22.0	126866	RAV3 60L	345	1				-0.09975	0.00000	-962.0	-962.0					
12409	-1724.9	-190.0	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-324.1	-251.0	-0.04239									
			Base Case																	
12410	-1723.7	-189.1	L: Interface 50 PJMCentral-C						-426.2	0.0	-0.24728		-0.27833	-382.6	97.2					
			C:130753 FRASR345	345	130755	OAKDL345	345	1 200												
			Open 130753 FRASR345	345	130755	OAKDL345	345	1				0.14435	0.21516	-302.4	-673.2					
12411	-1723.7	-189.1	L: Interface 49 C-PJMCentral						426.2	-0.0	0.24728		0.27833	382.6	-97.2					
			C:130753 FRASR345	345	130755	OAKDL345	345	1 200												
			Open 130753 FRASR345	345	130755	OAKDL345	345	1				-0.14435	0.21516	-302.4	-673.2					
12414	-1621.3	-113.9	L: Interface 49 C-PJMCentral						440.7	0.0	0.27181		0.27833	382.6	-68.7					
			C:130750 COOPC345	345	130753	FRASR345	345	1 192												
			Open 130750 COOPC345	345	130753	FRASR345	345	1				-0.06928	0.09417	-838.6	-991.2					
12415	-1621.3	-113.9	L: Interface 50 PJMCentral-C						-440.7	-0.0	-0.27181		-0.27833	-382.6	68.7					
			C:130750 COOPC345	345	130753	FRASR345	345	1 192												
			Open 130750 COOPC345	345	130753	FRASR345	345	1				0.06928	0.09417	-838.6	-991.2					
12416	-1619.7	-112.8	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	320.7	252.0	0.04239									
			Base Case																	
12417	-1612.2	-107.3	L: Interface 50 PJMCentral-C						-448.7	-0.0	-0.27833		-0.27833	-382.6	66.2					

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				C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78										
				Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1				0.06622	0.00000	-998.9	-998.9				
12418	-1612.2	-107.3	L:	Interface 49 C-PJMCentral						448.7	0.0	0.27833		0.27833	382.6	-66.2			
				C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78										
				Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1				-0.06622	0.00000	-998.9	-998.9				
12419	-1612.2	-107.3	L:	Interface 49 C-PJMCentral						448.7	0.0	0.27833		0.27833	382.6	-66.2			
				C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351										
				Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1				-0.06622	0.00000	-998.9	-998.9				
12420	-1612.2	-107.3	L:	Interface 50 PJMCentral-C						-448.7	-0.0	-0.27833		-0.27833	-382.6	66.2			
				C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351										
				Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1				0.06622	0.00000	-998.9	-998.9				
12422	-1596.9	-96.0	L:	126295 RAINEY	345	126562 8W DUM	138	8		-438.0	-372.0	-0.04131		-0.04131	-340.8	-274.8			
				C:GEN:RAVNWD 3-New					1774										
				Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2				0.00000	0.00000	481.0	481.0				
				Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1				0.10101	0.00000	-962.0	-962.0				
12423	-1585.1	-87.4	L:	129282 GLNWD NO	138	129293 SHORE RD	138	1		730.4	636.0	0.05953		0.04411	521.2	451.3			
				C:129265 CARLE PL	138	129270 E.G.C.	138	1	1416										
				Open 129265 CARLE PL	138	129270 E.G.C.	138	1				-0.41823	-0.03689	-500.2	-441.7				
12424	-1583.0	-85.9	L:	Interface 50 PJMCentral-C						-436.3	0.0	-0.27558		-0.27833	-382.6	58.0			
				C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.04104	-0.06703	1307.8	1413.9				
12425	-1583.0	-85.9	L:	Interface 49 C-PJMCentral						436.3	-0.0	0.27558		0.27833	382.6	-58.0			
				C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.04104	-0.06703	1307.8	1413.9				
12426	-1583.0	-85.9	L:	Interface 49 C-PJMCentral						436.3	-0.0	0.27558		0.27833	382.6	-58.0			
				C:SIN:440					1683										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.04104	-0.06703	1307.8	1413.9				
12427	-1583.0	-85.9	L:	Interface 50 PJMCentral-C						-436.3	0.0	-0.27558		-0.27833	-382.6	58.0			
				C:SIN:440					1683										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.04104	-0.06703	1307.8	1413.9				
12429	-1544.7	-57.7	L:	Interface 49 C-PJMCentral						388.9	-0.0	0.25176		0.27833	382.6	-47.3			
				C:130755 OAKDL345	345	130757 WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.11844	0.22434	-53.2	-399.7				
12430	-1544.7	-57.7	L:	Interface 50 PJMCentral-C						-388.9	0.0	-0.25176		-0.27833	-382.6	47.3			
				C:130755 OAKDL345	345	130757 WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.11844	0.22434	-53.2	-399.7				
12433	-1503.8	-27.7	L:	Interface 50 PJMCentral-C						-418.6	0.0	-0.27833		-0.27833	-382.6	36.0			
				C:GEN:SALEM					1567										
				Remove unit 1 from bus	36	SALEM-G1	22.0	1100.0	MW dispatch										
12434	-1503.8	-27.7	L:	Interface 49 C-PJMCentral						418.6	-0.0	0.27833		0.27833	382.6	-36.0			
				C:GEN:SALEM					1567										
				Remove unit 1 from bus	36	SALEM-G1	22.0	1100.0	MW dispatch										

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12435	-1500.3	-25.1*L: Interface 50 PJMCentral-C								-414.3	0.0	-0.27614	-0.27833	-382.6	35.0	
		C:SER:CMT34&MTR34														
		Open 130750 COOPC345	345	146754	MDTN TAP	345	1						-0.04934	-0.06467	760.4	857.5
		Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1						-0.01921	0.05172	-302.8	-380.4
12436	-1500.3	-25.1*L: Interface 49 C-PJMCentral								414.3	-0.0	0.27614	0.27833	382.6	-35.0	
		C:SER:CMT34&MTR34														
		Open 130750 COOPC345	345	146754	MDTN TAP	345	1						0.04934	-0.06467	760.4	857.5
		Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1						0.01921	0.05172	-302.8	-380.4
15859	-1340.5	92.2 L: 129265 CARLE PL	138	129283	GLNWD SO	138	1			428.5	379.0	0.03689	0.03689	403.2	353.7	
		C:129234 VLY STRM	138	129235	V STRM P	138	1	1409								
		Open 129234 VLY STRM	138	129235	V STRM P	138	1						0.20642	0.00000	122.4	122.4
15862	-1337.8	94.1 L: 129265 CARLE PL	138	129283	GLNWD SO	138	1			428.4	379.0	0.03689	0.03689	403.2	353.8	
		C:126455 JAMAICA	138	129235	V STRM P	138	1	1497								
		Open 126455 JAMAICA	138	129235	V STRM P	138	1						-0.20642	0.00000	-121.9	-121.9
15921	-1238.2	167.2 L: 129281 GLNWD GT	138	129288	ROSLYN	138	1			-425.8	-379.0	-0.03779	-0.03779	-399.9	-353.1	
		C:129234 VLY STRM	138	129235	V STRM P	138	1	1409								
		Open 129234 VLY STRM	138	129235	V STRM P	138	1						-0.21150	0.00000	122.4	122.4
15922	-1235.5	169.2 L: 129281 GLNWD GT	138	129288	ROSLYN	138	1			-425.7	-379.0	-0.03779	-0.03779	-399.9	-353.2	
		C:126455 JAMAICA	138	129235	V STRM P	138	1	1497								
		Open 126455 JAMAICA	138	129235	V STRM P	138	1						0.21150	0.00000	-121.9	-121.9
15947	-1165.6	220.5 L: 129265 CARLE PL	138	129283	GLNWD SO	138	1			422.6	379.0	0.03744	0.03689	403.2	360.2	
		C:129270 E.G.C.	138	129580	E.G.C.1	69.0	1	1523								
		Open 129270 E.G.C.	138	129580	E.G.C.1	69.0	1						0.12878	0.00426	151.0	146.0
15948	-1117.7	255.7 L: 129265 CARLE PL	138	129283	GLNWD SO	138	1			419.3	379.0	0.03603	0.03689	403.2	362.0	
		C:SER:PV_LM_398						1597								
		Open 103105 LONG MTN	345	103117	CTNY398	345	1						0.07048	-0.01224	228.1	241.8
		Open 103117 CTNY398	345	126294	PLTVLLEY	345	1						-0.00121	0.00000	0.1	0.1
15949	-1117.4	255.9 L: 129265 CARLE PL	138	129283	GLNWD SO	138	1			419.3	379.0	0.03603	0.03689	403.2	362.0	
		C:103117 CTNY398	345	126294	PLTVLLEY	345	1	1362								
		Open 103117 CTNY398	345	126294	PLTVLLEY	345	1						0.07048	-0.01224	228.0	241.7
15950	-1086.0	278.9 L: 126295 RAINEY	345	126561	8E DUM	138	8			-387.4	-342.0	-0.04177	-0.04239	-377.6	-331.5	
		C:126600 REAC71	345	126641	MOTT HAVEN	345	3	1371								
		Open 126600 REAC71	345	126641	MOTT HAVEN	345	3						-0.02159	-0.02897	453.7	485.1
15951	-1086.0	278.9 L: 126295 RAINEY	345	126561	8E DUM	138	8			-387.4	-342.0	-0.04177	-0.04239	-377.6	-331.5	
		C:126266 DUNWODIE	345	126600	REAC71	345	SR	95								
		Open 126266 DUNWODIE	345	126600	REAC71	345	SR						-0.02159	-0.02897	453.7	485.1
15952	-1083.9	280.5 L: 126295 RAINEY	345	126561	8E DUM	138	8			-387.3	-342.0	-0.04177	-0.04239	-377.6	-331.6	
		C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1372								
		Open 126601 REAC72	345	126641	MOTT HAVEN	345	4						-0.02156	-0.02877	450.6	481.8
15953	-1083.9	280.5 L: 126295 RAINEY	345	126561	8E DUM	138	8			-387.3	-342.0	-0.04177	-0.04239	-377.6	-331.6	
		C:126266 DUNWODIE	345	126601	REAC72	345	SR	96								
		Open 126266 DUNWODIE	345	126601	REAC72	345	SR						-0.02156	-0.02877	450.6	481.8

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15956	-1069.3	291.2	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-420.0	-379.0	-0.03835	-0.03779	-399.9	-359.5
			C:129270 E.G.C.	138	129580 E.G.C.1	69.0	1 1523						
			Open 129270 E.G.C.	138	129580 E.G.C.1	69.0	1			-0.13314	0.00426	151.0	146.5
15959	-1036.0	315.6	L: 126295 RAINEY	345	126561 8E DUM	138	8	-385.4	-342.0	-0.04192	-0.04239	-377.6	-333.6
			C:126298 SPRBROOK	345	126518 REACM52	345	SR 132						
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			-0.01681	-0.02821	467.6	496.8
15960	-1036.0	315.6	L: 126295 RAINEY	345	126561 8E DUM	138	8	-385.4	-342.0	-0.04192	-0.04239	-377.6	-333.6
			C:126298 SPRBROOK	345	126517 REACM51	345	SR 131						
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			-0.01681	-0.02821	467.6	496.8
15961	-1035.3	316.2	L: 126295 RAINEY	345	126561 8E DUM	138	8	-385.4	-342.0	-0.04192	-0.04239	-377.6	-333.7
			C:126304 W 49 ST	345	126517 REACM51	345	1 1366						
			Open 126304 W 49 ST	345	126517 REACM51	345	1			0.01681	0.02821	-465.8	-495.0
15962	-1035.3	316.2	L: 126295 RAINEY	345	126561 8E DUM	138	8	-385.4	-342.0	-0.04192	-0.04239	-377.6	-333.7
			C:126304 W 49 ST	345	126518 REACM52	345	2 1367						
			Open 126304 W 49 ST	345	126518 REACM52	345	2			0.01681	0.02821	-465.8	-495.0
15963	-1013.0	332.5	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-416.4	-379.0	-0.03690	-0.03779	-399.9	-361.6
			C:SER:PV_LM_398				1597						
			Open 103105 LONG MTN	345	103117 CTNY398	345	1			-0.07223	-0.01224	228.1	240.5
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			0.00124	0.00000	0.1	0.1
15964	-1012.7	332.7	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-416.4	-379.0	-0.03690	-0.03779	-399.9	-361.6
			C:103117 CTNY398	345	126294 PLTVLLEY	345	1 1362						
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1			-0.07223	-0.01224	228.0	240.4
15965	-1009.2	335.3	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-417.1	-379.0	-0.03779	-0.03779	-399.9	-361.8
			C:128958 GLNWD MID	13.8	129281 GLNWD GT	138	1 1504						
			Open 128958 GLNWD MID	13.8	129281 GLNWD GT	138	1			0.17199	0.00000	-100.2	-100.2
15966	-1007.7	336.4	*L: 126295 RAINEY	345	126561 8E DUM	138	8	-384.7	-342.0	-0.04239	-0.04239	-377.6	-334.8
			C:SER:41&25				1599						
			Open 126436 FGT_X10	138	126464 TAP X10	138	1			0.01739	0.00000	-88.6	-88.6
			Open 126452 HUDAVE E	138	126464 TAP X10	138	1			-0.00660	0.00000	-0.0	-0.0
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1			-0.00786	-0.00000	714.7	714.7
15968	-957.3	373.4	*L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	414.6	379.0	0.03721	0.03689	403.2	367.9
			C:129234 VLY STRM	138	129528 VLYSTRM2	69.0	2 1518						
			Open 129234 VLY STRM	138	129528 VLYSTRM2	69.0	2			0.07549	0.00420	151.4	147.4
15983	-903.8	412.7	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	689.8	636.0	0.05953	0.04411	521.2	481.3
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1 1417						
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1			0.41823	0.03689	403.2	369.8
15985	-898.4	416.6	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	691.3	636.0	0.06153	0.04411	521.2	481.6
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1 1428						
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1			0.41803	0.04168	406.9	369.5
16013	-857.3	446.8	*L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-411.7	-379.0	-0.03811	-0.03779	-399.9	-367.5
			C:129234 VLY STRM	138	129528 VLYSTRM2	69.0	2 1518						
			Open 129234 VLY STRM	138	129528 VLYSTRM2	69.0	2			-0.07771	0.00420	151.4	147.8

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17744	-775.9	506.5	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1	-680.4	-599.0	-0.10487				
			Base Case												
21009	-548.2	673.6	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	521.2	497.0	0.04411				
			Base Case												
21047	-543.9	676.8	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-278.5	-256.0	-0.04131				
			Base Case												
21082	-526.9	689.3	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	277.8	256.0	0.04131				
			Base Case												
21202	92.7	1144.0	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-368.2	-372.0	-0.04131		-0.04131	-278.5	-282.3
			C:GEN:RAVNWD 3-New												
			Open 126652 RAV 3	22.0	126865	RAV3 60M	345	2			0.00000	0.00000	481.0	481.0	
			Open 126652 RAV 3	22.0	126866	RAV3 60L	345	1			0.09324	0.00000	-962.0	-962.0	
21203	109.4	1156.3	L: 130836 N.WAV115	115	200676	E.SAYRE	115	1	83.3	90.0	0.06132				
			Base Case												
21204	109.7	1156.5	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	367.5	372.0	0.04131		0.04131	277.8	282.3
			C:GEN:RAVNWD 3-New												
			Open 126652 RAV 3	22.0	126865	RAV3 60M	345	2			-0.00000	0.00000	481.0	481.0	
			Open 126652 RAV 3	22.0	126866	RAV3 60L	345	1			-0.09324	0.00000	-962.0	-962.0	
21207	122.7	1166.0	L: 129361 RULND RD	138	129421	HOLBROOK	138	1	-490.2	-499.0	-0.07139				
			Base Case												
21211	163.4	1195.9	L: 130807 GOUDY115	115	130838	OAKDL115	115	1	-220.7	-239.0	-0.11233		-0.08223	-145.9	-159.3
			C:130763 HILSD230	230	130768	WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768	WATRC230	230	1			0.24697	-0.12186	-302.8	-322.7	
21216	193.5	1218.0	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-333.9	-342.0	-0.04177		-0.04239	-324.1	-332.3
			C:126266 DUNWODIE	345	126600	REAC71	345	SR	95						
			Open 126266 DUNWODIE	345	126600	REAC71	345	SR			-0.02159	-0.02897	453.7	448.0	
21217	193.5	1218.0	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-333.9	-342.0	-0.04177		-0.04239	-324.1	-332.3
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3	1371						
			Open 126600 REAC71	345	126641	MOTT HAVEN	345	3			-0.02159	-0.02897	453.7	448.0	
21218	195.4	1219.4	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-333.8	-342.0	-0.04177		-0.04239	-324.1	-332.4
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1372						
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4			-0.02156	-0.02877	450.6	445.0	
21219	195.4	1219.4	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-333.8	-342.0	-0.04177		-0.04239	-324.1	-332.4
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	96						
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR			-0.02156	-0.02877	450.6	445.0	
21222	227.4	1242.9	L: 130807 GOUDY115	115	130838	OAKDL115	115	1	-213.1	-239.0	-0.11386		-0.08223	-145.9	-164.6
			C:BUS:WATERCURE_230												
			Open 130768 WATRC230	230	130772	SHRED230	230	1			0.29869	-0.05660	15.4	2.5	
			Open 130757 WATRC345	345	130768	WATRC230	230	1			-0.22565	0.06525	318.7	333.5	
			Open 130763 HILSD230	230	130768	WATRC230	230	1			0.14334	0.00000	0.5	0.5	
21224	238.9	1251.3	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-332.0	-342.0	-0.04192		-0.04239	-324.1	-334.3
			C:126298 SPRBROOK	345	126517	REACM51	345	SR	131						

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			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			-0.01681	-0.02821	467.6	460.8
21225	238.9	1251.3	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-332.0	-342.0	-0.04192	-0.04239	-324.1	-334.3
			C:126298 SPRBROOK	345	126518 REACM52	345	SR 132						
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			-0.01681	-0.02821	467.6	460.8
21226	239.6	1251.9	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-332.0	-342.0	-0.04192	-0.04239	-324.1	-334.3
			C:126304 W 49 ST	345	126517 REACM51	345	1 1366						
			Open 126304 W 49 ST	345	126517 REACM51	345	1			0.01681	0.02821	-465.8	-459.0
21227	239.6	1251.9	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-332.0	-342.0	-0.04192	-0.04239	-324.1	-334.3
			C:126304 W 49 ST	345	126518 REACM52	345	2 1367						
			Open 126304 W 49 ST	345	126518 REACM52	345	2			0.01681	0.02821	-465.8	-459.0
21228	252.9	1261.6	*L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-331.3	-342.0	-0.04239	-0.04239	-324.1	-334.8
			C:SER:41&25				1599						
			Open 126436 FGT_X10	138	126464 TAP X10	138	1			0.01739	0.00000	-88.6	-88.6
			Open 126452 HUDAVE E	138	126464 TAP X10	138	1			-0.00660	0.00000	-0.0	-0.0
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1			-0.00786	-0.00000	714.7	714.7
21233	276.1	1278.6	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	619.5	636.0	0.05968	0.04168	406.9	418.4
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1 1427						
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1			0.40794	0.04411	521.2	533.4
21234	276.3	1278.8	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	330.5	342.0	0.04177	0.04239	320.7	332.4
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1371						
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3			0.02159	-0.02897	453.7	445.6
21235	276.3	1278.8	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	330.5	342.0	0.04177	0.04239	320.7	332.4
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 95						
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR			0.02159	-0.02897	453.7	445.6
21236	278.2	1280.2	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	330.4	342.0	0.04177	0.04239	320.7	332.5
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1372						
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4			0.02156	-0.02877	450.6	442.6
21237	278.2	1280.2	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	330.4	342.0	0.04177	0.04239	320.7	332.5
			C:126266 DUNWODIE	345	126601 REAC72	345	SR 96						
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR			0.02156	-0.02877	450.6	442.6
21240	307.0	1301.3	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	122.4	143.0	0.06709	0.04277	62.0	75.1
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.19958	-0.12186	-302.8	-340.2
21243	321.5	1311.9	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	328.5	342.0	0.04192	0.04239	320.7	334.3
			C:126298 SPRBROOK	345	126518 REACM52	345	SR 132						
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			0.01681	-0.02821	467.6	458.5
21244	321.5	1311.9	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	328.5	342.0	0.04192	0.04239	320.7	334.3
			C:126298 SPRBROOK	345	126517 REACM51	345	SR 131						
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			0.01681	-0.02821	467.6	458.5
21245	322.2	1312.4	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	328.5	342.0	0.04192	0.04239	320.7	334.3
			C:126304 W 49 ST	345	126518 REACM52	345	2 1367						
			Open 126304 W 49 ST	345	126518 REACM52	345	2			-0.01681	0.02821	-465.8	-456.7

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21246	322.2	1312.4	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	328.5	342.0	0.04192	0.04239	320.7	334.3
			C:126304 W 49 ST	345	126517 REACM51	345	1 1366						
			Open 126304 W 49 ST	345	126517 REACM51	345	1			-0.01681	0.02821	-465.8	-456.7
21247	334.5	1321.5	*L: 126480 RAINEY8E	138	126561 8E DUM	138	1	327.8	342.0	0.04239	0.04239	320.7	334.8
			C:SER:41&25				1599						
			Open 126436 FGT_X10	138	126464 TAP X10	138	1			-0.01739	0.00000	-88.6	-88.6
			Open 126452 HUDAVE E	138	126464 TAP X10	138	1			0.00660	0.00000	-0.0	-0.0
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1			0.00786	-0.00000	714.7	714.7
21264	391.9	1363.6	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	116.2	143.0	0.06835	0.04277	62.0	78.7
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.24196	-0.05660	15.4	-6.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.18210	0.06525	318.7	344.3
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.12855	0.00000	0.5	0.5
23051	498.5	1441.8	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	-471.5	-491.0	-0.03920	-0.02128	-225.5	-236.1
			C:129270 E.G.C.	138	129271 E.G.C.-2	138	1 1418						
			Open 129270 E.G.C.	138	129271 E.G.C.-2	138	1			0.46221	-0.03878	-532.2	-551.5
23596	503.3	1445.4	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	607.4	636.0	0.05692	0.04168	406.9	427.9
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1 1425						
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1			0.40320	0.03779	497.1	516.1
24682	520.8	1458.2	L: 130814 HILSD115	115	131162 CHEMU115	115	1	142.2	179.0	0.07073	0.01855	71.2	80.8
			C:ETHS/LLGD				1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.27905	0.16664	224.1	310.8
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.11279	0.05038	75.2	101.5
24715	532.2	1466.6	L: 126295 RAINEY	345	126562 8W DUM	138	8	-350.3	-372.0	-0.04070	-0.04131	-340.8	-362.8
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 95						
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR			-0.02102	-0.02897	453.7	438.2
24716	532.2	1466.6	L: 126295 RAINEY	345	126562 8W DUM	138	8	-350.3	-372.0	-0.04070	-0.04131	-340.8	-362.8
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1371						
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3			-0.02102	-0.02897	453.7	438.2
24717	534.1	1468.0	L: 126295 RAINEY	345	126562 8W DUM	138	8	-350.3	-372.0	-0.04071	-0.04131	-340.8	-362.9
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1372						
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4			-0.02099	-0.02877	450.6	435.2
24718	534.1	1468.0	L: 126295 RAINEY	345	126562 8W DUM	138	8	-350.3	-372.0	-0.04071	-0.04131	-340.8	-362.9
			C:126266 DUNWODIE	345	126601 REAC72	345	SR 96						
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR			-0.02099	-0.02877	450.6	435.2
24731	540.7	1472.8	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-189.7	-239.0	-0.09121	-0.08223	-145.9	-190.3
			C:130757 WATRC345	345	130768 WATRC230	230	1 213						
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.13752	0.06525	318.7	354.0
24753	567.1	1492.2	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	-138.9	-179.0	-0.07073	-0.01855	-67.9	-78.4
			C:ETHS/LLGD				1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.27905	0.16664	224.1	318.6
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			-0.11279	0.05038	75.2	103.8

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24756	576.5	1499.1	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-348.4	-372.0	-0.04085	-0.04131	-340.8	-364.6
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 131						
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR			-0.01636	-0.02821	467.6	451.3
24757	576.5	1499.1	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-348.4	-372.0	-0.04085	-0.04131	-340.8	-364.6
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 132						
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR			-0.01636	-0.02821	467.6	451.3
24758	577.2	1499.6	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-348.4	-372.0	-0.04085	-0.04131	-340.8	-364.6
			C:126304 W 49 ST	345	126518	REACM52	345	2 1367						
			Open 126304 W 49 ST	345	126518	REACM52	345	2			0.01636	0.02821	-465.8	-449.5
24759	577.2	1499.6	L: 126295 RAINNEY	345	126562	8W DUM	138	8	-348.4	-372.0	-0.04085	-0.04131	-340.8	-364.6
			C:126304 W 49 ST	345	126517	REACM51	345	1 1366						
			Open 126304 W 49 ST	345	126517	REACM51	345	1			0.01636	0.02821	-465.8	-449.5
24763	586.1	1506.2	*L: 126295 RAINNEY	345	126562	8W DUM	138	8	-347.8	-372.0	-0.04131	-0.04131	-340.8	-365.0
			C:SER:41&25					1599						
			Open 126436 FGT_X10	138	126464	TAP X10	138	1			0.01692	0.00000	-88.6	-88.6
			Open 126452 HUDAVE E	138	126464	TAP X10	138	1			-0.00641	0.00000	-0.0	-0.0
			Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1			-0.00768	-0.00000	714.7	714.7
24767	595.2	1512.9	L: 130807 GOUDY115	115	130838	OAKDL115	115	1	-176.5	-239.0	-0.10501	-0.08223	-145.9	-194.8
			C:130763 HILSD230	230	200675	E.TWANDA	230	1 1375						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.13671	0.16664	224.1	323.2
24779	650.4	1553.4	L: 130807 GOUDY115	115	200680	LAUREL L	115	1	75.2	108.0	0.05038			
			Base Case											
24783	660.3	1560.6	L: 130807 GOUDY115	115	130838	OAKDL115	115	1	-182.1	-239.0	-0.08622	-0.08223	-145.9	-200.2
			C:130835 N.END115	115	130838	OAKDL115	115	1 343						
			Open 130835 N.END115	115	130838	OAKDL115	115	1			0.82074	-0.00486	-44.1	-47.3
24784	661.9	1561.8	L: 130807 GOUDY115	115	130838	OAKDL115	115	1	-178.9	-239.0	-0.09084	-0.08223	-145.9	-200.3
			C:130814 HILSD115	115	131162	CHEMU115	115	1 311						
			Open 130814 HILSD115	115	131162	CHEMU115	115	1			-0.46402	0.01855	71.2	83.4
24789	678.6	1574.0	L: 130807 GOUDY115	115	130838	OAKDL115	115	1	-177.4	-239.0	-0.09084	-0.08223	-145.9	-201.7
			C:130836 N.WAV115	115	131162	CHEMU115	115	1 347						
			Open 130836 N.WAV115	115	131162	CHEMU115	115	1			0.46402	-0.01855	-67.9	-80.5
24791	684.5	1578.4	L: 130787 CODNT115	115	130830	MONTR115	115	1	110.7	144.0	0.04866	0.03650	48.6	73.5
			C:130755 OAKDL345	345	131128	LAPEER	345	1 209						
			Open 130755 OAKDL345	345	131128	LAPEER	345	1			-0.10385	-0.11709	-598.3	-678.5
24806	721.8	1605.7	L: 130807 GOUDY115	115	130838	OAKDL115	115	1	-161.6	-239.0	-0.10719	-0.08223	-145.9	-205.2
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.09235	0.15908	-382.1	-267.3
			Open 130757 WATRC345	345	130768	WATRC230	230	1			-0.15730	0.06525	318.7	365.8
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			-0.09109	0.00000	10.2	10.2
26431	762.2	1635.4	L: 130814 HILSD115	115	131162	CHEMU115	115	1	131.0	179.0	0.06303	0.01855	71.2	85.3
			C:130763 HILSD230	230	200675	E.TWANDA	230	1 1375						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.26693	0.16664	224.1	351.1

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26534	814.1	1673.5	L: 130836 N.WAV115	115	131162	CHEMU115	115	1	-127.7	-179.0	-0.06303	-0.01855	-67.9	-83.0
			C:130763 HILSD230	230	200675	E.TWANDA	230	1 1375						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.26693	0.16664	224.1	359.7
26548	848.2	1698.5	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1	587.7	636.0	0.05692	0.04168	406.9	442.3
			C:129270 E.G.C.	138	129288	ROSLYN	138	1 1419						
			Open 129270 E.G.C.	138	129288	ROSLYN	138	1			0.40320	0.03779	448.4	480.5
26551	852.2	1701.5	L: 130807 GOUDY115	115	130848	S.OWE115	115	1	89.8	143.0	0.06243	0.04277	62.0	98.4
			C:ETHS/LLGD					1649						
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.06155	0.16664	224.1	366.1
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1			0.18664	0.05038	75.2	118.2
26554	867.6	1712.8	L: 130807 GOUDY115	115	130838	OAKDL115	115	1	-167.5	-239.0	-0.08237	-0.08223	-145.9	-217.2
			C:130838 OAKDL115	115	131019	NSIDE115	115	1 350						
			Open 130838 OAKDL115	115	131019	NSIDE115	115	1			-0.54254	0.00026	39.9	40.2
26558	876.5	1719.3	*L: 130807 GOUDY115	115	130838	OAKDL115	115	1	-169.2	-239.0	-0.07961	-0.08223	-145.9	-217.9
			C:130750 COOPC345	345	130753	FRASR345	345	1 192						
			Open 130750 COOPC345	345	130753	FRASR345	345	1			0.02787	0.09417	-838.6	-756.0
26559	880.4	1722.2	L: 130807 GOUDY115	115	130848	S.OWE115	115	1	97.2	143.0	0.05197	0.04277	62.0	99.6
			C:130814 HILSD115	115	131162	CHEMU115	115	1 311						
			Open 130814 HILSD115	115	131162	CHEMU115	115	1			0.49588	0.01855	71.2	87.5
26565	911.6	1745.1	L: 130807 GOUDY115	115	130848	S.OWE115	115	1	95.6	143.0	0.05197	0.04277	62.0	101.0
			C:130836 N.WAV115	115	131162	CHEMU115	115	1 347						
			Open 130836 N.WAV115	115	131162	CHEMU115	115	1			-0.49588	-0.01855	-67.9	-84.8
26566	915.1	1747.7	L: 130807 GOUDY115	115	130848	S.OWE115	115	1	97.2	143.0	0.05000	0.04277	62.0	101.1
			C:130757 WATRC345	345	130768	WATRC230	230	1 213						
			Open 130757 WATRC345	345	130768	WATRC230	230	1			0.11071	0.06525	318.7	378.4
26569	918.8	1750.3	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	81.4	143.0	0.06709	0.04277	20.9	60.2
			C:130763 HILSD230	230	130768	WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768	WATRC230	230	1			-0.19958	-0.12186	-302.8	-414.8
26572	947.9	1771.7	L: 131018 LOUNS115	115	131850	CNYOG115	115	1	-79.4	-143.0	-0.06709	-0.04277	-19.0	-59.5
			C:130763 HILSD230	230	130768	WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768	WATRC230	230	1			0.19958	-0.12186	-302.8	-418.3
26573	954.5	1776.5	L: 130830 MONTR115	115	130845	RIDGT115	115	1	100.0	133.0	0.03456	0.02682	60.5	86.1
			C:130755 OAKDL345	345	131128	LAPEER	345	1 209						
			Open 130755 OAKDL345	345	131128	LAPEER	345	1			-0.06609	-0.11709	-598.3	-710.1
26574	983.4	1797.7	L: 126385 E179 ST	138	126730	15055 SR	138	1	171.3	246.0	0.07600			
			Base Case											
26575	987.2	1800.5	L: 126581 HG TAP	138	126730	15055 SR	138	1	-171.0	-246.0	-0.07600			
			Base Case											
26576	990.8	1803.2	L: 130830 MONTR115	115	130845	RIDGT115	115	1	93.7	133.0	0.03965	0.02682	60.5	87.0
			C:BUS:WATERCURE_230					1633						
			Open 130768 WATRC230	230	130772	SHRED230	230	1			-0.10053	-0.05660	15.4	-40.7
			Open 130757 WATRC345	345	130768	WATRC230	230	1			0.10933	0.06525	318.7	383.4

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			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.10220	0.00000	0.5	0.5
26577	992.4	1804.3	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	75.2	143.0	0.06835	0.04277	20.9	63.4	
			C:BUS:WATERCURE_230											1633
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.24196	-0.05660	15.4	-40.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.18210	0.06525	318.7	383.5
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.12855	0.00000	0.5	0.5
26578	1009.3	1816.7	L: 130830 MONTR115	115	130845 RIDGT115	115	1	92.8	133.0	0.03983	0.02682	60.5	87.5	
			C:130763 HILSD230	230	130768 WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.10676	-0.12186	-302.8	-425.8
26581	1021.0	1825.3	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	-73.2	-143.0	-0.06835	-0.04277	-19.0	-62.6	
			C:BUS:WATERCURE_230											1633
			Open 130768 WATRC230	230	130772 SHRED230	230	1				0.24196	-0.05660	15.4	-42.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.18210	0.06525	318.7	385.3
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.12855	0.00000	0.5	0.5
26593	1052.9	1848.8	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	80.0	143.0	0.05980	0.04277	62.0	107.0	
			C:BUS:WATERCURE_345											1632
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.05662	0.15908	-382.1	-214.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.12284	0.06525	318.7	387.4
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.05526	0.00000	10.2	10.2
26600	1063.6	1856.6	L: 130787 CODNT115	115	130830 MONTR115	115	1	88.4	144.0	0.05224	0.03650	48.6	87.4	
			C:BUS:WATERCURE_230											1633
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.12669	-0.05660	15.4	-44.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.13139	0.06525	318.7	388.1
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.10516	0.00000	0.5	0.5
26603	1071.2	1862.2	L: 130787 CODNT115	115	130830 MONTR115	115	1	87.9	144.0	0.05234	0.03650	48.6	87.7	
			C:130763 HILSD230	230	130768 WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.13002	-0.12186	-302.8	-433.4
26604	1072.1	1862.9	L: Interface 49 C-PJMCentral					382.6	681.0	0.27833				
			Base Case											
26605	1072.1	1862.9	L: Interface 50 PJMCentral-C					-382.6	-681.0	-0.27833				
			Base Case											
26607	1074.5	1864.6	L: 130792 CORN TP2	115	130800 ETNA 115	115	1	-110.2	-143.0	-0.03049	-0.01536	-64.6	-81.1	
			C:130787 CODNT115	115	130800 ETNA 115	115	1	255						
			Open 130787 CODNT115	115	130800 ETNA 115	115	1				0.75959	-0.01993	-60.1	-81.5
26671	1107.2	1888.6	L: 130830 MONTR115	115	130845 RIDGT115	115	1	87.0	133.0	0.04155	0.02682	60.5	90.2	
			C:130830 MONTR115	115	130844 RIDGR115	115	1	333						
			Open 130830 MONTR115	115	130844 RIDGR115	115	1				0.57182	0.02575	46.4	74.9
26722	1120.5	1898.4	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-145.9	-238.0	-0.08223				
			Base Case											
28145	1135.1	1909.1	L: 135277 FALCONER	115	200579 WARREN	115	1	23.1	116.0	0.08183	0.05215	-3.5	55.7	
			C:SER:EESR/NWES											1608
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1				0.20360	0.14036	123.5	282.9

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			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.01801	0.06132	83.3	152.9	
28231	1504.3	2180.1	L: Interface 47 C-PJMWest					-314.1	0.0	0.20878	0.15908	-382.1	-142.8
			C:ETHS/NWES/LLGD				1648						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.19165	0.16664	224.1	474.7	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.16718	0.06132	83.3	175.5	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1		0.14905	0.05038	75.2	151.0	
28232	1504.3	2180.1	L: Interface 48 PJMWest-C					314.1	-0.0	-0.20878	-0.15908	382.1	142.8
			C:ETHS/NWES/LLGD				1648						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		-0.19165	0.16664	224.1	474.7	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.16718	0.06132	83.3	175.5	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1		-0.14905	0.05038	75.2	151.0	
28233	1704.6	2327.0	L: Interface 47 C-PJMWest					-333.1	0.0	0.19543	0.15908	-382.1	-111.0
			C:SER:C398/NWES				1605						
			Open 409 GROVER	230	200675 E.TWANDA	230	1		-0.00892	-0.00156	-17.2	-19.9	
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.16697	0.16664	224.1	508.1	
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1		0.00167	0.01150	-46.0	-26.4	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.13851	0.06132	83.3	187.8	
28234	1704.6	2327.0	L: Interface 48 PJMWest-C					333.1	-0.0	-0.19543	-0.15908	382.1	111.0
			C:SER:C398/NWES				1605						
			Open 409 GROVER	230	200675 E.TWANDA	230	1		0.00892	-0.00156	-17.2	-19.9	
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		-0.16697	0.16664	224.1	508.1	
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1		-0.00167	0.01150	-46.0	-26.4	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.13851	0.06132	83.3	187.8	
28235	1704.9	2327.3	L: Interface 48 PJMWest-C					333.2	-0.0	-0.19542	-0.15908	382.1	110.9
			C:SER:ETHS/NWES				1606						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		-0.16693	0.16664	224.1	508.2	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.13894	0.06132	83.3	187.8	
28236	1704.9	2327.3	L: Interface 47 C-PJMWest					-333.2	0.0	0.19542	0.15908	-382.1	-110.9
			C:SER:ETHS/NWES				1606						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.16693	0.16664	224.1	508.2	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.13894	0.06132	83.3	187.8	
28237	1716.6	2335.9	L: Interface 47 C-PJMWest					-307.5	-0.0	0.17915	0.15908	-382.1	-109.1
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1		-0.08030	-0.05660	15.4	-81.8	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.23790	0.06525	318.7	430.7	
			Open 130763 HILSD230	230	130768 WATRC230	230	1		0.06449	0.00000	0.5	0.5	
28238	1716.6	2335.9	L: Interface 48 PJMWest-C					307.5	0.0	-0.17915	-0.15908	382.1	109.1
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1		0.08030	-0.05660	15.4	-81.8	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.23790	0.06525	318.7	430.7	
			Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.06449	0.00000	0.5	0.5	
28239	1847.1	2431.7	L: Interface 48 PJMWest-C					344.5	0.0	-0.18652	-0.15908	382.1	88.3

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				C:ETHS/LLGD		1649						
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1			
				Open 130807 GOUDY115	115	200680	LAUREL L	115	1			
28240	1847.1	2431.7		L: Interface 47 C-PJMWest								
				C:ETHS/LLGD		1649						
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1			
				Open 130807 GOUDY115	115	200680	LAUREL L	115	1			
28241	1871.1	2449.3		L: Interface 47 C-PJMWest								
				C:LKWANA-OXBW		1651						
				Open 417 OXBOW	230	3070	LACKAWNA	230	1			
28242	1871.1	2449.3		L: Interface 48 PJMWest-C								
				C:LKWANA-OXBW		1651						
				Open 417 OXBOW	230	3070	LACKAWNA	230	1			
28243	1971.3	2522.8		L: Interface 48 PJMWest-C								
				C:130763 HILSD230	230	200675	E.TWANDA	230	1	1375		
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1			
28244	1971.3	2522.8		L: Interface 47 C-PJMWest								
				C:130763 HILSD230	230	200675	E.TWANDA	230	1	1375		
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1			
28245	2106.3	2621.9		L: Interface 48 PJMWest-C								
				C:SER:EESR/WF/NWES		1611						
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1			
				Open 135277 FALCONER	115	200579	WARREN	115	1			
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			
28246	2106.3	2621.9		L: Interface 47 C-PJMWest								
				C:SER:EESR/WF/NWES		1611						
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1			
				Open 135277 FALCONER	115	200579	WARREN	115	1			
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			
28247	2160.7	2661.8		L: Interface 47 C-PJMWest								
				C:SER:EESR/NWES		1608						
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1			
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			
28248	2160.7	2661.8		L: Interface 48 PJMWest-C								
				C:SER:EESR/NWES		1608						
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1			
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			
28249	2168.8	2667.7	*	L: Interface 47 C-PJMWest								
				C:SER:EESR/WRFL		1609						
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1			
				Open 135277 FALCONER	115	200579	WARREN	115	1			
28250	2168.8	2667.7	*	L: Interface 48 PJMWest-C								

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			C:SER:EESR/WRFL							1609										
			Open 135251 S RIPLEY	230	200654	ERIE E	230	1						-0.07487	0.14036	123.5	427.9			
			Open 135277 FALCONER	115	200579	WARREN	115	1						-0.04654	0.05215	-3.5	109.6			
29128	2412.4	2846.5	L: Interface 55 PJME-NY	EnORE										-913.7	-1287.0	-0.15473		-0.00000	-700.7	-700.7
			C:ETHS/NWES/LLGD																	1648
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1						-0.54148	0.16664	224.1	626.1			
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1						-0.55922	0.06132	83.3	231.2			
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1						-0.59961	0.05038	75.2	196.8			
29129	2412.4	2846.5	L: Interface 56 NYE-PJM	EnORE										913.7	1287.0	0.15473		0.00000	700.7	700.7
			C:ETHS/NWES/LLGD																	1648
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1						0.54148	0.16664	224.1	626.1			
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1						0.55922	0.06132	83.3	231.2			
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1						0.59961	0.05038	75.2	196.8			
29190	2456.2	2878.7	L: Interface 35 NY-PJM											1311.3	3114.0	0.73394		0.73394	1076.0	2878.7
			C:GEN:SALEM																	1567
			Remove unit 1 from bus	36	SALEM-G1	22.0	1100.0	MW	dispatch											
29191	2456.2	2878.7	L: Interface 19 PJM-NY											-1311.3	-3114.0	-0.73394		-0.73394	-1076.0	-2878.7
			C:GEN:SALEM																	1567
			Remove unit 1 from bus	36	SALEM-G1	22.0	1100.0	MW	dispatch											
29238	2556.5	2952.3	L: Interface 19 PJM-NY											-1237.7	-3114.0	-0.73394		-0.73394	-1076.0	-2952.3
			C:GEN:MARTN CK																	1569
			Remove unit 4 from bus	3151	MTN CK 4	24.0	704.3	MW	dispatch											
29239	2556.5	2952.3	L: Interface 35 NY-PJM											1237.7	3114.0	0.73394		0.73394	1076.0	2952.3
			C:GEN:MARTN CK																	1569
			Remove unit 4 from bus	3151	MTN CK 4	24.0	704.3	MW	dispatch											
29248	2611.9	2993.0	L: Interface 19 PJM-NY											-1197.0	-3114.0	-0.73394		-0.73394	-1076.0	-2993.0
			C:GEN:PEACHBTM																	1568
			Remove unit 1 from bus	34	PCHBTM 2	22.0	604.3	MW	dispatch											
29249	2611.9	2993.0	L: Interface 35 NY-PJM											1197.0	3114.0	0.73394		0.73394	1076.0	2993.0
			C:GEN:PEACHBTM																	1568
			Remove unit 1 from bus	34	PCHBTM 2	22.0	604.3	MW	dispatch											
29272	2687.8	3048.6	L: Interface 35 NY-PJM											1120.6	3114.0	0.74167		0.73394	1076.0	3048.6
			C:Q29HM																	1639
			Open 157052 BECK2 DK	220	158105	HANONJ29	220	1						0.12448	0.05544	329.7	478.7			
			Open 158066 BEACH	220	158105	HANONJ29	220	1						-0.00918	-0.02781	-408.6	-483.3			
			Open 158105 HANONJ29	220	158148	NEBOJQ29	220	1						0.48834	0.00000	6.9	6.9			
			Open 158069 MIDDLEDK1	220	158148	NEBOJQ29	220	1						-0.02086	-0.02753	170.7	96.7			
29273	2687.8	3048.6	L: Interface 19 PJM-NY											-1120.6	-3114.0	-0.74167		-0.73394	-1076.0	-3048.6
			C:Q29HM																	1639
			Open 157052 BECK2 DK	220	158105	HANONJ29	220	1						-0.12448	0.05544	329.7	478.7			
			Open 158066 BEACH	220	158105	HANONJ29	220	1						0.00918	-0.02781	-408.6	-483.3			
			Open 158105 HANONJ29	220	158148	NEBOJQ29	220	1						-0.48834	0.00000	6.9	6.9			

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				Open 158069	MIDDLEDK1	220	158148	NEBOJQ29	220	1			0.02086	-0.02753	170.7	96.7		
29274	2688.8	3049.4	L:	Interface	19	PJM-NY							-1119.7	-3114.0	-0.74172	-0.73394	-1076.0	-3049.4
				C:Q24HM														1638
				Open 157052	BECK2 DK	220	158103	HANONJ24	220	1			-0.14722	0.05534	319.9	468.7		
				Open 158066	BEACH	220	158103	HANONJ24	220	1			-0.01453	-0.02537	-443.2	-511.4		
				Open 158103	HANONJ24	220	158147	NEBOJQ24	220	1			-0.46565	0.00000	6.5	6.5		
29275	2688.8	3049.4	L:	Interface	35	NY-PJM							1119.7	3114.0	0.74172	0.73394	1076.0	3049.4
				C:Q24HM														1638
				Open 157052	BECK2 DK	220	158103	HANONJ24	220	1			0.14722	0.05534	319.9	468.7		
				Open 158066	BEACH	220	158103	HANONJ24	220	1			0.01453	-0.02537	-443.2	-511.4		
				Open 158103	HANONJ24	220	158147	NEBOJQ24	220	1			0.46565	0.00000	6.5	6.5		
29276	2694.7	3053.7	L:	Interface	35	NY-PJM							1136.3	3114.0	0.73394	0.73394	1076.0	3053.7
				C:136269														1783
				Open 136269	SOLVTAP2	115	147940	SOLVBRDG	115	1			NA					
				Open 136200	GERES LK	115	136269	SOLVTAP2	115	1			-0.00105	-0.00015	91.5	91.1		
				Open 136238	SOLVAY-B	115	136269	SOLVTAP2	115	1			NA					
				Open 136238	SOLVAY-B	115	136602	SOLVAY34	34.5	1			0.72737	0.00000	83.0	83.0		
				Open 136238	SOLVAY-B	115	136707	IPGENBUS	13.8	1			NA					
29277	2694.7	3053.7	L:	Interface	19	PJM-NY							-1136.3	-3114.0	-0.73394	-0.73394	-1076.0	-3053.7
				C:136269														1783
				Open 136269	SOLVTAP2	115	147940	SOLVBRDG	115	1			NA					
				Open 136200	GERES LK	115	136269	SOLVTAP2	115	1			0.00105	-0.00015	91.5	91.1		
				Open 136238	SOLVAY-B	115	136269	SOLVTAP2	115	1			NA					
				Open 136238	SOLVAY-B	115	136602	SOLVAY34	34.5	1			-0.72737	0.00000	83.0	83.0		
				Open 136238	SOLVAY-B	115	136707	IPGENBUS	13.8	1			NA					
29278	2701.8	3059.0	L:	Interface	19	PJM-NY							-1131.0	-3114.0	-0.73394	-0.73394	-1076.0	-3059.0
				C:147849	MOS 115	115	147866	REYN T#3	115	1	1263							
				Open 147849	MOS 115	115	147866	REYN T#3	115	1			-0.68089	0.00000	80.8	80.8		
29279	2701.8	3059.0	L:	Interface	35	NY-PJM							1131.0	3114.0	0.73394	0.73394	1076.0	3059.0
				C:147849	MOS 115	115	147866	REYN T#3	115	1	1263							
				Open 147849	MOS 115	115	147866	REYN T#3	115	1			0.68089	0.00000	80.8	80.8		
29280	2708.2	3063.6	L:	Interface	19	PJM-NY							-1106.8	-3114.0	-0.74116	-0.73394	-1076.0	-3063.6
				C:Q25BM														1641
				Open 158104	HANONJ25	220	158123	NEALJQ25	220	1			NA					
				Open 157070	NWEST25J	220	158104	HANONJ25	220	1			-0.14213	0.05246	255.9	397.9		
				Open 158123	NEALJQ25	220	158144	BURL J25	220	1			0.01406	0.01733	456.3	503.3		
				Open 158071	MIDDLEDK2	220	158123	NEALJQ25	220	1			-0.46360	0.00000	1.8	1.8		
				Open 158067	BURLINGT	220	158144	BURL J25	220	1			0.00014	-0.01733	-354.3	-401.2		
29281	2708.2	3063.6	L:	Interface	35	NY-PJM							1106.8	3114.0	0.74116	0.73394	1076.0	3063.6
				C:Q25BM														1641
				Open 158104	HANONJ25	220	158123	NEALJQ25	220	1			NA					
				Open 157070	NWEST25J	220	158104	HANONJ25	220	1			0.14213	0.05246	255.9	397.9		

NY-PJM

			Open 158123 NEALJQ25	220	158144 BURL J25	220	1			-0.01406	0.01733	456.3	503.3		
			Open 158071 MIDDLEDK2	220	158123 NEALJQ25	220	1			0.46360	0.00000	1.8	1.8		
			Open 158067 BURLINGT	220	158144 BURL J25	220	1			-0.00014	-0.01733	-354.3	-401.2		
29282	2708.9	3064.2	L: Interface 35 NY-PJM							1106.6	3114.0	0.74105	0.73394	1076.0	3064.2
			C:Q23BM												1640
			Open 158102 HANONJ23	220	158122 NEALJQ23	220	1		NA						
			Open 157069 NWEST23J	220	158102 HANONJ23	220	1			0.14169	0.05190	254.0	394.6		
			Open 158122 NEALJQ23	220	158143 BURL J23	220	1			-0.01391	0.01747	453.5	500.8		
			Open 158067 BURLINGT	220	158143 BURL J23	220	1			-0.00014	-0.01747	-350.4	-397.7		
			Open 158071 MIDDLEDK2	220	158122 NEALJQ23	220	1			0.46382	0.00000	1.8	1.8		
29283	2708.9	3064.2	L: Interface 19 PJM-NY							-1106.6	-3114.0	-0.74105	-0.73394	-1076.0	-3064.2
			C:Q23BM												1640
			Open 158102 HANONJ23	220	158122 NEALJQ23	220	1		NA						
			Open 157069 NWEST23J	220	158102 HANONJ23	220	1			-0.14169	0.05190	254.0	394.6		
			Open 158122 NEALJQ23	220	158143 BURL J23	220	1			0.01391	0.01747	453.5	500.8		
			Open 158067 BURLINGT	220	158143 BURL J23	220	1			0.00014	-0.01747	-350.4	-397.7		
			Open 158071 MIDDLEDK2	220	158122 NEALJQ23	220	1			-0.46382	0.00000	1.8	1.8		
29284	2726.0	3076.7	*L: Interface 35 NY-PJM							1113.3	3114.0	0.73394	0.73394	1076.0	3076.7
			C:135357-6-CONT												1781
			Open 135357 PYRON187	115	135461 PACK(S)W	115	1			0.00000	0.00000	-67.1	-67.1		
			Open 135357 PYRON187	115	148007 GRTLK187	115	1		NA						
			Open 148007 GRTLK187	115	148008 HOOKS187	115	1		NA						
			Open 148002 CARBW187	115	148008 HOOKS187	115	1		NA						
			Open 135509 NFWWP187	115	148002 CARBW187	115	1		NA						
			Open 135509 NFWWP187	115	135823 S215-187	115	1		NA						
			Open 135823 S215-187	115	147997 DUPNT187	115	1		NA						
			Open 135820 S215BFAV	13.2	135823 S215-187	115	1			0.65570	0.00000	56.8	56.8		
29285	2726.0	3076.7	*L: Interface 19 PJM-NY							-1113.3	-3114.0	-0.73394	-0.73394	-1076.0	-3076.7
			C:135357-6-CONT												1781
			Open 135357 PYRON187	115	135461 PACK(S)W	115	1			-0.00000	0.00000	-67.1	-67.1		
			Open 135357 PYRON187	115	148007 GRTLK187	115	1		NA						
			Open 148007 GRTLK187	115	148008 HOOKS187	115	1		NA						
			Open 148002 CARBW187	115	148008 HOOKS187	115	1		NA						
			Open 135509 NFWWP187	115	148002 CARBW187	115	1		NA						
			Open 135509 NFWWP187	115	135823 S215-187	115	1		NA						
			Open 135823 S215-187	115	147997 DUPNT187	115	1		NA						
			Open 135820 S215BFAV	13.2	135823 S215-187	115	1			-0.65570	0.00000	56.8	56.8		

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, APR 30 2009 11:19
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-rmp-jef-1k-3-115-os.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From NYCA_EXPORT To PJM_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 49176 violations

Interface-1 Interface 35 NY-PJM Init.Flow= 1050.74 TDF= 0.7087

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating	LODF	Init Final
1	-55692.6-38419.1	L: Interface	52 PJMEast-G	-1947.3	-0.0	-0.03497	-0.00000	-2000.0 -2000.0
			C:130753 FRASR345 345 130755 OAKDL345 345 1 200					
			Open 130753 FRASR345 345 130755 OAKDL345 345 1				-0.16683	0.20959 -315.6-11988.4
2	-55692.6-38419.1	L: Interface	51 G-PJMEast	1947.3	0.0	0.03497	0.00000	2000.0 2000.0
			C:130753 FRASR345 345 130755 OAKDL345 345 1 200					
			Open 130753 FRASR345 345 130755 OAKDL345 345 1				0.16683	0.20959 -315.6-11988.4
3	-47192.8-32395.3	L: Interface	51 G-PJMEast	1914.4	0.0	0.04056	0.00000	2000.0 2000.0
			C:SER:HC-WC_30&W-F_171 1598					
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.23317	0.17397 -367.2 -8577.5
4	-47192.8-32395.3	L: Interface	51 G-PJMEast	1914.4	0.0	0.04056	0.00000	2000.0 2000.0
			C:SER:HCWC/NWES 1604					
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.23317	0.17397 -367.2 -8577.5
5	-47192.8-32395.3	L: Interface	52 PJMEast-G	-1914.4	-0.0	-0.04056	-0.00000	-2000.0 -2000.0

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	C:SER:HC-WC_30&W-F_171			1598										
	Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.23317	0.17397	-367.2	-8577.5	
6	-47192.8-32395.3	L: Interface	52	PJMEast-G			-1914.4	-0.0	-0.04056	-0.00000	-2000.0	-2000.0		
	C:SER:HCWC/NWES													1604
	Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.23317	0.17397	-367.2	-8577.5	
7	-47192.8-32395.3	L: Interface	52	PJMEast-G			-1914.4	-0.0	-0.04056	-0.00000	-2000.0	-2000.0		
	C:130757 WATRC345	345	200769	HOMER CY	345	1	1374							
	Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.23317	0.17397	-367.2	-8577.5	
8	-47192.8-32395.3	L: Interface	51	G-PJMEast			1914.4	0.0	0.04056	0.00000	2000.0	2000.0		
	C:130757 WATRC345	345	200769	HOMER CY	345	1	1374							
	Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.23317	0.17397	-367.2	-8577.5	
9	-43885.9-30051.6	L: Interface	52	PJMEast-G			-1996.3	0.0	-0.04549	-0.00000	-2000.0	-2000.0		
	C:130755 OAKDL345	345	130757	WATRC345	345	1	206							
	Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.18070	0.25174	-20.3	-11068.0	
10	-43885.9-30051.6	L: Interface	51	G-PJMEast			1996.3	-0.0	0.04549	0.00000	2000.0	2000.0		
	C:130755 OAKDL345	345	130757	WATRC345	345	1	206							
	Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.18070	0.25174	-20.3	-11068.0	
11	-30919.3-20862.1	L: Interface	52	PJMEast-G			-1941.5	0.0	-0.06279	-0.00000	-2000.0	-2000.0		
	C:BUS:WATERCURE_345													1629
	Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.29755	0.17397	-367.2	-5746.4	
	Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.14179	0.07776	337.6	-2066.8	
	Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.30868	0.00000	9.3	9.3	
12	-30919.3-20862.1	L: Interface	51	G-PJMEast			1941.5	-0.0	0.06279	0.00000	2000.0	2000.0		
	C:BUS:WATERCURE_345													1629
	Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.29755	0.17397	-367.2	-5746.4	
	Open 130757 WATRC345	345	130768	WATRC230	230	1				0.14179	0.07776	337.6	-2066.8	
	Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.30868	0.00000	9.3	9.3	
13	-28084.9-18853.3	L: Interface	21	PJM-WEST			4849.2	0.0	0.17266	0.22738	4733.8	-1652.3		
	C:SER:HC-WC_30&W-F_171													1598
	Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.31452	0.17397	-367.2	-5253.2	
14	-28084.9-18853.3	L: Interface	21	PJM-WEST			4849.2	0.0	0.17266	0.22738	4733.8	-1652.3		
	C:130757 WATRC345	345	200769	HOMER CY	345	1	1374							
	Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.31452	0.17397	-367.2	-5253.2	
15	-28084.9-18853.3	L: Interface	21	PJM-WEST			4849.2	0.0	0.17266	0.22738	4733.8	-1652.3		
	C:SER:HCWC/NWES													1604
	Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.31452	0.17397	-367.2	-5253.2	
16	-28019.6-18807.0	L: Interface	21	PJM-WEST			4847.7	0.0	0.17301	0.22738	4733.8	-1637.4		
	C:BUS:WATERCURE_345													1629
	Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.31352	0.17397	-367.2	-5241.9	
	Open 130757 WATRC345	345	130768	WATRC230	230	1				0.00222	0.07776	337.6	-1841.3	
	Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.20776	0.00000	9.3	9.3	
17	-27283.7-18285.5	L: Interface	53	PJME-NYE			-1617.3	-787.0	-0.03043	0.00000	-1547.6	-1547.6		

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		C:130763 HILSD230	230	130768 WATRC230	230	1	219												
		Open 130763 HILSD230	230	130768 WATRC230	230	1						0.20182	-0.15079	-345.3	3769.0				
18	-27283.7-18285.5	L: Interface 54 NYE-PJME						1617.3	787.0	0.03043		-0.00000	1547.6	1547.6					
		C:130763 HILSD230	230	130768 WATRC230	230	1	219												
		Open 130763 HILSD230	230	130768 WATRC230	230	1						-0.20182	-0.15079	-345.3	3769.0				
19	-25646.2-17125.0	L: Interface 53 PJME-NYE						-1612.3	-787.0	-0.03218		0.00000	-1547.6	-1547.6					
		C:BUS:WATERCURE_230					1630												
		Open 130768 WATRC230	230	130772 SHRED230	230	1						0.24343	-0.07303	-8.3	1864.7				
		Open 130757 WATRC345	345	130768 WATRC230	230	1						-0.18518	0.07776	337.6	-1656.8				
		Open 130763 HILSD230	230	130768 WATRC230	230	1						-0.16463	0.00000	0.5	0.5				
20	-25646.2-17125.0	L: Interface 54 NYE-PJME						1612.3	787.0	0.03218		-0.00000	1547.6	1547.6					
		C:BUS:WATERCURE_230					1630												
		Open 130768 WATRC230	230	130772 SHRED230	230	1						-0.24343	-0.07303	-8.3	1864.7				
		Open 130757 WATRC345	345	130768 WATRC230	230	1						0.18518	0.07776	337.6	-1656.8				
		Open 130763 HILSD230	230	130768 WATRC230	230	1						0.16463	0.00000	0.5	0.5				
21	-25603.2-17094.5	L: Interface 51 G-PJMEast						1996.4	0.0	0.07797		0.00000	2000.0	2000.0					
		C:LKWANA-OXBW					1648												
		Open 417 OXBOW	230	3070 LACKAWNA	230	1						0.34873	0.22359	-10.4	-5735.0				
22	-25603.2-17094.5	L: Interface 52 PJMEast-G						-1996.4	-0.0	-0.07797		-0.00000	-2000.0	-2000.0					
		C:LKWANA-OXBW					1648												
		Open 417 OXBOW	230	3070 LACKAWNA	230	1						-0.34873	0.22359	-10.4	-5735.0				
23	-25207.4-16814.0	L: Interface 21 PJM-WEST						4591.8	-0.0	0.18216		0.22738	4733.8	-997.9					
		C:KEY-SHELOCTA/BLAIRSVL-SOCIAL					1647												
		Open 505 SHELOCTA	230	521 KEYSTONE	230	1						-0.40143	0.10722	280.0	-2422.8				
		Open 473 BLAIRSVL	138	235253 01SOCIAL	138	1						-0.24447	0.00891	120.9	-103.8				
24	-24185.8-16089.9	L: Interface 51 G-PJMEast						2116.3	0.0	0.08750		0.00000	2000.0	2000.0					
		C:ETHS/NWES/LLGD					1645												
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1						0.36177	0.24187	321.5	-5528.4				
25	-24185.8-16089.9	L: Interface 52 PJMEast-G						-2116.3	-0.0	-0.08750		-0.00000	-2000.0	-2000.0					
		C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375												
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1						-0.36177	0.24187	321.5	-5528.4				
26	-24185.8-16089.9	L: Interface 52 PJMEast-G						-2116.3	-0.0	-0.08750		-0.00000	-2000.0	-2000.0					
		C:ETHS/LLGD					1646												
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1						-0.36177	0.24187	321.5	-5528.4				
27	-24185.8-16089.9	*L: Interface 52 PJMEast-G						-2116.3	-0.0	-0.08750		-0.00000	-2000.0	-2000.0					
		C:SER:ETHS/NWES					1603												
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1						-0.36177	0.24187	321.5	-5528.4				
28	-24185.8-16089.9	L: Interface 51 G-PJMEast						2116.3	0.0	0.08750		0.00000	2000.0	2000.0					
		C:SER:ETHS/NWES					1603												
		Open 130763 HILSD230	230	200675 E.TWANDA	230	1						0.36177	0.24187	321.5	-5528.4				
29	-24185.8-16089.9	*L: Interface 51 G-PJMEast						2116.3	0.0	0.08750		0.00000	2000.0	2000.0					
		C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375												

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	Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.36177	0.24187	321.5	-5528.4
34	-23267.7-15439.3	L: Interface	21	PJM-WEST			4784.6	-0.0	0.20563	0.22738	4733.8	-556.9
		C:SER:HC-SR_37&W-F_171				1597						
	Open 135398 SW345	345	200769	HOMER CY	345	1			-0.17737	0.12262	-286.7	-3139.8
35	-23267.7-15439.3	L: Interface	21	PJM-WEST			4784.6	-0.0	0.20563	0.22738	4733.8	-556.9
		C:135398 SW345	345	200769	HOMER CY	345	1	1377				
	Open 135398 SW345	345	200769	HOMER CY	345	1			-0.17737	0.12262	-286.7	-3139.8
36	-23171.2-15370.9	L: Interface	21	PJM-WEST			4718.6	0.0	0.20364	0.22738	4733.8	-535.0
		C:SER:ESEE/WRFL				1607						
	Open 270 ERIE SO.	230	531	ERIE SE	230	1			-0.00486	-0.11409	-44.8	2598.8
	Open 531 ERIE SE	230	200654	ERIE E	230	1			0.14273	-0.17024	-108.0	3836.7
37	-23162.3-15364.6	L: Interface	21	PJM-WEST			4715.0	-0.0	0.20356	0.22738	4733.8	-532.9
		C:SER:EESR/NWES				1605						
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			-0.13991	0.17024	133.9	-3809.2
38	-23162.3-15364.6	*L: Interface	21	PJM-WEST			4715.0	-0.0	0.20356	0.22738	4733.8	-532.9
		C:SER:EESR/WRFL				1606						
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			-0.13991	0.17024	133.9	-3809.2
1787	-18218.0-11860.5	L: Interface	53	PJME-NYE			-1582.0	-787.0	-0.04364	0.00000	-1547.6	-1547.6
		C:SER:EESR/NWES				1605						
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			-0.25633	0.17024	133.9	-2967.5
1788	-18218.0-11860.5	L: Interface	54	NYE-PJME			1582.0	787.0	0.04364	-0.00000	1547.6	1547.6
		C:135251 S RIPLEY	230	200654	ERIE E	230	1	1376				
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			0.25633	0.17024	133.9	-2967.5
1789	-18218.0-11860.5	L: Interface	54	NYE-PJME			1582.0	787.0	0.04364	-0.00000	1547.6	1547.6
		C:SER:EESR/NWES				1605						
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			0.25633	0.17024	133.9	-2967.5
1790	-18218.0-11860.5	L: Interface	54	NYE-PJME			1582.0	787.0	0.04364	-0.00000	1547.6	1547.6
		C:SER:EESR/WRFL				1606						
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			0.25633	0.17024	133.9	-2967.5
1791	-18218.0-11860.5	L: Interface	53	PJME-NYE			-1582.0	-787.0	-0.04364	0.00000	-1547.6	-1547.6
		C:SER:EESR/WRFL				1606						
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			-0.25633	0.17024	133.9	-2967.5
1792	-18218.0-11860.5	L: Interface	53	PJME-NYE			-1582.0	-787.0	-0.04364	0.00000	-1547.6	-1547.6
		C:SER:EESR/WF/NWES				1608						
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			-0.25633	0.17024	133.9	-2967.5
1793	-18218.0-11860.5	L: Interface	54	NYE-PJME			1582.0	787.0	0.04364	-0.00000	1547.6	1547.6
		C:SER:EESR/WF/NWES				1608						
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			0.25633	0.17024	133.9	-2967.5
1794	-18218.0-11860.5	L: Interface	53	PJME-NYE			-1582.0	-787.0	-0.04364	0.00000	-1547.6	-1547.6
		C:135251 S RIPLEY	230	200654	ERIE E	230	1	1376				
	Open 135251 S RIPLEY	230	200654	ERIE E	230	1			-0.25633	0.17024	133.9	-2967.5
1795	-18146.9-11810.1	L: Interface	53	PJME-NYE			-1562.5	-787.0	-0.04273	0.00000	-1547.6	-1547.6

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	C:135250 DUNKIRK	230	135251 S RIPLEY	230	1	422													
	Open	135250 DUNKIRK	230	135251 S RIPLEY	230	1													
1796	-18146.9-11810.1	L: Interface	54	NYE-PJME			1562.5	787.0	0.04273										
		C:135250 DUNKIRK	230	135251 S RIPLEY	230	1													
		Open	135250 DUNKIRK	230	135251 S RIPLEY	230													
1797	-18058.8-11747.7	L: Interface	54	NYE-PJME			1575.3	787.0	0.04365										
		C:SER:ESEE/WRFL				1607													
		Open	270	ERIE SO.	230	531	ERIE SE	230	1										
		Open	531	ERIE SE	230	200654	ERIE E	230	1										
1798	-18058.8-11747.7	L: Interface	53	PJME-NYE			-1575.3	-787.0	-0.04365										
		C:SER:ESEE/WRFL				1607													
		Open	270	ERIE SO.	230	531	ERIE SE	230	1										
		Open	531	ERIE SE	230	200654	ERIE E	230	1										
1805	-13361.1 -8418.4	L: Interface	54	NYE-PJME			1470.6	787.0	0.05116										
		C:130753 FRASR345	345	130755 OAKDL345	345	1													
		Open	130753 FRASR345	345	130755 OAKDL345	345													
1806	-13361.1 -8418.4	L: Interface	53	PJME-NYE			-1470.6	-787.0	-0.05116										
		C:130753 FRASR345	345	130755 OAKDL345	345	1													
		Open	130753 FRASR345	345	130755 OAKDL345	345													
1807	-11126.7 -6834.9	*L: Interface	53	PJME-NYE			-1542.2	-787.0	-0.06787										
		C:130755 OAKDL345	345	130757 WATRC345	345	1													
		Open	130755 OAKDL345	345	130757 WATRC345	345													
1808	-11126.7 -6834.9	*L: Interface	54	NYE-PJME			1542.2	787.0	0.06787										
		C:130755 OAKDL345	345	130757 WATRC345	345	1													
		Open	130755 OAKDL345	345	130757 WATRC345	345													
1815	-9595.6 -5749.7	L: Interface	20	PJM-CENT			3054.2	0.0	0.31830										
		C:SER:HCWC/NWES				1604													
		Open	130757 WATRC345	345	200769 HOMER CY	345													
1816	-9595.6 -5749.7	L: Interface	20	PJM-CENT			3054.2	0.0	0.31830										
		C:130757 WATRC345	345	200769 HOMER CY	345	1													
		Open	130757 WATRC345	345	200769 HOMER CY	345													
1817	-9595.6 -5749.7	L: Interface	20	PJM-CENT			3054.2	0.0	0.31830										
		C:SER:HC-WC_30&W-F_171				1598													
		Open	130757 WATRC345	345	200769 HOMER CY	345													
1818	-9590.8 -5746.4	L: Interface	20	PJM-CENT			3049.6	0.0	0.31797										
		C:BUS:WATERCURE_345				1629													
		Open	130757 WATRC345	345	200769 HOMER CY	345													
		Open	130757 WATRC345	345	130768 WATRC230	230													
		Open	130755 OAKDL345	345	130757 WATRC345	345													
1819	-9069.8 -5377.1	L: Interface	20	PJM-CENT			3538.4	-0.0	0.39013										
		C:GEN:SALEM				1564													
		Remove unit 1 from bus	36	SALEM-G1	22.0	1100.0	MW	dispatch											

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1820	-8765.9	-5161.8	L: Interface	20	PJM-CENT					3419.9	-0.0	0.39013		0.39013	2902.6	-517.2
			C:SIN:250													
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2						-0.00004	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch										
1821	-8674.2	-5096.7	L: Interface	20	PJM-CENT					3384.1	0.0	0.39013		0.39013	2902.6	-481.4
			C:GEN:MILLST 3													
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch										
1822	-8674.2	-5096.7	L: Interface	20	PJM-CENT					3384.1	0.0	0.39013		0.39013	2902.6	-481.4
			C:GEN:MLS3&OMS													
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2						-0.00004	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch										
1823	-8666.2	-5091.0	L: Interface	20	PJM-CENT					3380.9	-0.0	0.39013		0.39013	2902.6	-478.3
			C:GEN:SEAB&OMS													
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2						-0.00004	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch										
1824	-8666.2	-5091.0	*L: Interface	20	PJM-CENT					3380.9	-0.0	0.39013		0.39013	2902.6	-478.3
			C:GEN:SEABROOK													
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch										
1851	-8017.9	-4631.6	L: Interface	49	C-PJMCentral					330.8	-0.0	0.04126		0.24187	321.5	-1617.8
			C:LKWANA-OXBW													
			Open 417 OXBOW	230	3070 LACKAWNA	230	1						-0.89723	0.22359	-10.4	-1803.1
1852	-8017.9	-4631.6	L: Interface	50	PJMCentral-C					-330.8	0.0	-0.04126		-0.24187	-321.5	1617.8
			C:LKWANA-OXBW													
			Open 417 OXBOW	230	3070 LACKAWNA	230	1						0.89723	0.22359	-10.4	-1803.1
3587	-6794.7	-3764.7	L: 129265 CARLE PL	138	129270 E.G.C.	138	1			-683.4	-339.0	-0.05069		-0.03681	-500.3	-250.2
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1 1422									
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1						-0.36829	0.03770	497.2	241.1
3590	-6563.9	-3601.2	L: 129265 CARLE PL	138	129270 E.G.C.	138	1			-680.4	-339.0	-0.05201		-0.03681	-500.3	-258.7
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1 1424									
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1						-0.34544	0.04401	521.3	232.5
3596	-6447.2	-3518.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1			-500.3	-263.0	-0.03681				
			Base Case													
3597	-6440.9	-3514.0	L: 129265 CARLE PL	138	129270 E.G.C.	138	1			-665.5	-339.0	-0.05069		-0.03681	-500.3	-263.2
			C:129270 E.G.C.	138	129288 ROSLYN	138	1 1416									
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1						-0.36829	0.03770	448.6	205.7
3599	-6088.3	-3264.1	L: 129265 CARLE PL	138	129270 E.G.C.	138	1			-647.6	-339.0	-0.05069		-0.03681	-500.3	-276.2
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1 1423									
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1						0.36829	-0.03770	-400.0	-170.5
3600	-5936.8	-3156.8	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1			684.7	379.0	0.05149		0.03770	497.2	273.4
			C:129265 CARLE PL	138	129270 E.G.C.	138	1 1413									
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1						-0.37465	-0.03681	-500.3	-281.8
3601	-5768.1	-3037.2	L: 129270 E.G.C.	138	129288 ROSLYN	138	1			636.0	339.0	0.05149		0.03770	448.6	231.1

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				C:129265 CARLE PL	138	129270 E.G.C.	138	1	1413										
				Open 129265 CARLE PL	138	129270 E.G.C.	138	1											
3602	-5590.6	-2911.4	L:	Interface	23	QFW				1628.5	0.0	0.29129		0.29129	1378.1	-250.4			
				C:GEN:BRUCE 6					1561										
				Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5 MW	dispatch												
3603	-5523.0	-2863.4	L:	Interface	23	QFW				1419.6	0.0	0.25704		0.29129	1378.1	-230.7			
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1226										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1											
3604	-5311.7	-2713.7	L:	129281 GLNWD GT	138	129282 GLNWD NO	138	1		497.2	297.0	0.03770		0.21088	-0.16241	196.8	1093.8		
				Base Case															
3605	-5278.5	-2690.2	L:	Interface	23	QFW				1537.6	0.0	0.29129		0.29129	1378.1	-159.5			
				C:GEN:NANTCK 8					1562										
				Remove unit 1 from bus 158743 NANTICG8	22.0	490.0 MW	dispatch												
3606	-5263.2	-2679.3	L:	Interface	23	QFW				1533.1	0.0	0.29129		0.29129	1378.1	-155.0			
				C:GEN:PICKER 6					1563										
				Remove unit 1 from bus 156683 PIC B G5	24.0	510.9 MW	dispatch												
3607	-5247.5	-2668.2	L:	Interface	23	QFW				1442.0	0.0	0.27479		0.29129	1378.1	-150.4			
				C:130754 KINTI345	345	149000 ROCH 345	345	1	205										
				Open 130754 KINTI345	345	149000 ROCH 345	345	1											
3608	-5231.1	-2656.6	L:	129281 GLNWD GT	138	129282 GLNWD NO	138	1		648.3	379.0	0.05149		0.03770	497.2	300.0			
				C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1414										
				Open 129265 CARLE PL	138	129283 GLNWD SO	138	1											
3609	-5068.4	-2541.3	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		-525.6	-339.0	-0.03681		-0.03681	-500.3	-313.7			
				C:129234 VLY STRM	138	129235 V STRM P	138	1	1406										
				Open 129234 VLY STRM	138	129235 V STRM P	138	1											
3610	-5065.7	-2539.4	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		-525.5	-339.0	-0.03681		-0.03681	-500.3	-313.8			
				C:126455 JAMAICA	138	129235 V STRM P	138	1	1494										
				Open 126455 JAMAICA	138	129235 V STRM P	138	1											
3611	-5062.3	-2537.0	L:	129270 E.G.C.	138	129288 ROSLYN	138	1		599.7	339.0	0.05149		0.03770	448.6	257.7			
				C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1414										
				Open 129265 CARLE PL	138	129283 GLNWD SO	138	1											
3612	-5044.9	-2524.6	L:	Interface	23	QFW				1455.8	-0.0	0.28856		0.29129	1378.1	-91.4			
				C:LAMBT7/LAMBGEN					1643										
				Open 160050 LAMB L4D	345	B\$1020 LAMBTON T7	1.00	T7											
				Open 160064 LAMB T78	220	B\$1020 LAMBTON T7	1.00	T7											
				Set bus 160705 LAMBTNG4	24.0	generation to			0.0	MW dispatch									
3613	-5044.7	-2524.5	L:	Interface	23	QFW				1455.9	0.0	0.28859		0.29129	1378.1	-91.4			
				C:LAMBT8/LAMBGEN					1644										
				Open 160050 LAMB L4D	345	B\$1021 LAMBTON T8	1.00	T8											
				Open 160064 LAMB T78	220	B\$1021 LAMBTON T8	1.00	T8											
				Set bus 160705 LAMBTNG4	24.0	generation to			0.0	MW dispatch									
3614	-5019.6	-2506.7	L:	Interface	23	QFW				1344.4	-0.0	0.26782		0.29129	1378.1	-84.1			

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			C:130754 KINTI345	345	147834 NIAG	345	345	1	204										
			Open 130754 KINTI345	345	147834 NIAG	345	345	1											
3615	-5005.2	-2496.5	L: Interface	23	QFW					1444.3	0.0	0.28856		0.29129	1378.1				-480.6
			C:L4D+G3																
			Open 160050 LAMB L4D	345	B\$1020 LAMBTON	T7	1.00	T7											
			Open 160064 LAMB T78	220	B\$1020 LAMBTON	T7	1.00	T7											
			Open 160069 LAMBTPK2	220	160704 LAMBTNG3		24.0	T3											
			Remove unit 1 from bus	160704	LAMBTNG3		24.0	490.0	MW	dispatch									
3616	-5005.0	-2496.3	*L: Interface	23	QFW					1444.4	-0.0	0.28859		0.29129	1378.1				-79.8
			C:L51D+G3																
			Open 160050 LAMB L4D	345	B\$1021 LAMBTON	T8	1.00	T8											
			Open 160064 LAMB T78	220	B\$1021 LAMBTON	T8	1.00	T8											
			Open 160069 LAMBTPK2	220	160704 LAMBTNG3		24.0	T3											
			Remove unit 1 from bus	160704	LAMBTNG3		24.0	490.0	MW	dispatch									
3617	-4978.2	-2477.4	L: 129281 GLNWD	GT	138	129282 GLNWD	NO	138	1	638.5	379.0	0.05214		0.03770	497.2				309.6
			C:129283 GLNWD	SO	138	129293 SHORE	RD	138	1	1425									
			Open 129283 GLNWD	SO	138	129293 SHORE	RD	138	1										
3621	-4936.4	-2447.7	L: 129265 CARLE	PL	138	129270 E.G.C.		138	1	-516.4	-339.0	-0.03593		-0.03681	-500.3				-318.6
			C:SER:PV_LM_398																
			Open 103105 LONG	MTN	345	103117 CTNY398		345	1										
			Open 103117 CTNY398		345	126294 PLTVLLEY		345	1										
3622	-4936.2	-2447.6	L: 129265 CARLE	PL	138	129270 E.G.C.		138	1	-516.4	-339.0	-0.03593		-0.03681	-500.3				-318.6
			C:103117 CTNY398		345	126294 PLTVLLEY		345	1	1362									
			Open 103117 CTNY398		345	126294 PLTVLLEY		345	1										
3626	-4922.1	-2437.6	L: 129270 E.G.C.		138	129288 ROSLYN		138	1	448.6	263.0	0.03770							
			Base Case																
3634	-4838.7	-2378.5	L: 129265 CARLE	PL	138	129270 E.G.C.		138	1	-519.7	-339.0	-0.03735		-0.03681	-500.3				-322.2
			C:129270 E.G.C.		138	129580 E.G.C.1		69.0	1	1520									
			Open 129270 E.G.C.		138	129580 E.G.C.1		69.0	1										
3641	-4811.6	-2359.3	L: 129270 E.G.C.		138	129288 ROSLYN		138	1	589.9	339.0	0.05214		0.03770	448.6				267.2
			C:129283 GLNWD	SO	138	129293 SHORE	RD	138	1	1425									
			Open 129283 GLNWD	SO	138	129293 SHORE	RD	138	1										
5314	-4652.9	-2246.8	*L: 129265 CARLE	PL	138	129270 E.G.C.		138	1	-511.7	-339.0	-0.03712		-0.03681	-500.3				-329.0
			C:129234 VLY	STRM	138	129528 VLYSTRM2		69.0	2	1515									
			Open 129234 VLY	STRM	138	129528 VLYSTRM2		69.0	2										
7079	-4092.1	-1849.4	L: 129265 CARLE	PL	138	129283 GLNWD	SO	138	1	586.4	379.0	0.05069		0.03681	403.3				252.7
			C:129281 GLNWD	GT	138	129282 GLNWD	NO	138	1	1422									
			Open 129281 GLNWD	GT	138	129282 GLNWD	NO	138	1										
7082	-4048.5	-1818.5	L: 129281 GLNWD	GT	138	129288 ROSLYN		138	1	-587.5	-379.0	-0.05149		-0.03770	-400.0				-247.4
			C:129265 CARLE	PL	138	129270 E.G.C.		138	1	1413									
			Open 129265 CARLE	PL	138	129270 E.G.C.		138	1										
7090	-3929.8	-1734.4	L: 129265 CARLE	PL	138	129283 GLNWD	SO	138	1	583.4	379.0	0.05201		0.03681	403.3				258.7

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			C:129282	GLNWD	NO	138	129293	SHORE RD	138	1	1424									
			Open	129282	GLNWD	NO	138	129293	SHORE RD	138	1				0.34544	0.04401	521.3	348.4		
7096	-3822.9	-1658.6	L:	129281	GLNWD	GT	138	129282	GLNWD	NO	138	1	523.1	379.0	0.03770		0.03770	497.2	353.1	
			C:	129234	VLY	STRM	138	129235	V	STRM	P	138	1	1406						
			Open	129234	VLY	STRM	138	129235	V	STRM	P	138	1				0.21152	0.00000	122.3	122.3
7099	-3820.2	-1656.7	L:	129281	GLNWD	GT	138	129282	GLNWD	NO	138	1	523.0	379.0	0.03770		0.03770	497.2	353.2	
			C:	126455	JAMAICA		138	129235	V	STRM	P	138	1	1494						
			Open	126455	JAMAICA		138	129235	V	STRM	P	138	1				-0.21152	0.00000	-121.8	-121.8
7100	-3795.5	-1639.1	L:	Interface		26	ONTARIO-MICH						1050.4	0.0	0.27675		0.29129	1032.8	-72.8	
			C:	147834	NIAG	345	345	149000	ROCH	345	345	1	1226							
			Open	147834	NIAG	345	345	149000	ROCH	345	345	1					0.08951	-0.16241	196.8	813.3
7104	-3758.5	-1613.0	L:	Interface		26	ONTARIO-MICH						1084.8	-0.0	0.28863		0.29129	1032.8	-62.0	
			C:	125001	ROCK	TAV	345	126297	RAMAPO	345	1	7								
			Open	125001	ROCK	TAV	345	126297	RAMAPO	345	1						0.03979	-0.06679	1308.0	1559.1
7105	-3758.5	-1613.0	L:	Interface		26	ONTARIO-MICH						1084.8	-0.0	0.28863		0.29129	1032.8	-62.0	
			C:	SIN:440								1680								
			Open	125001	ROCK	TAV	345	126297	RAMAPO	345	1						0.03979	-0.06679	1308.0	1559.1
7106	-3748.2	-1605.7	L:	Interface		26	ONTARIO-MICH						1091.8	-0.0	0.29129		0.29129	1032.8	-59.0	
			C:	126250	RAMAPO	5	500	126296	RAM	PAR	345	1	78							
			Open	126250	RAMAPO	5	500	126296	RAM	PAR	345	1					-0.05907	0.00000	-999.4	-999.4
7107	-3748.2	-1605.7	L:	Interface		26	ONTARIO-MICH						1091.8	-0.0	0.29129		0.29129	1032.8	-59.0	
			C:	91	JEFFERSN		500	126250	RAMAPO	5	500	1	1351							
			Open	91	JEFFERSN		500	126250	RAMAPO	5	500	1					-0.05907	0.00000	-999.4	-999.4
7108	-3742.8	-1601.8	L:	Interface		26	ONTARIO-MICH						1076.7	0.0	0.28766		0.29129	1032.8	-57.5	
			C:	BUS:N.S._99								1612								
			Open	137453	N.SCOT99		345	147831	GILB	345	345	1					0.00315	0.02903	-265.2	-373.9
			Open	137453	N.SCOT99		345	147833	MARCY	T1	345	1					-0.04666	0.06708	-741.3	-992.4
			Open	137453	N.SCOT99		345	137516	N.SCOT1		115	1					-0.00411	-0.01662	119.1	181.3
			Open	137451	LEEDS	3	345	137453	N.SCOT99		345	2					-0.01501	0.04374	-691.2	-854.9
			Open	137452	N.SCOT77		345	137453	N.SCOT99		345	1					0.20498	0.00000	1.2	1.2
7110	-3738.4	-1598.7	L:	129265	CARLE	PL	138	129283	GLNWD	SO	138	1	568.5	379.0	0.05069		0.03681	403.3	265.7	
			C:	129270	E.G.C.		138	129288	ROSLYN		138	1	1416							
			Open	129270	E.G.C.		138	129288	ROSLYN		138	1					0.36829	0.03770	448.6	307.6
7111	-3733.8	-1595.4	L:	Interface		26	ONTARIO-MICH						1074.9	-0.0	0.28789		0.29129	1032.8	-54.8	
			C:	SIN:180								1669								
			Open	137453	N.SCOT99		345	147833	MARCY	T1	345	1					-0.05067	0.06708	-741.3	-991.8
			Open	137228	INGMS-CD		115	137886	INGHAM-E		115	1					0.03817	0.00000	119.9	119.9
			Open	137235	PORTER	1	115	147905	ILION		115	1					-0.00004	-0.00012	88.8	89.3
7112	-3733.8	-1595.4	L:	Interface		26	ONTARIO-MICH						1074.9	0.0	0.28789		0.29129	1032.8	-54.8	
			C:	SIN:170								1668								
			Open	137453	N.SCOT99		345	147833	MARCY	T1	345	1					-0.05067	0.06708	-741.3	-991.8
			Open	137228	INGMS-CD		115	137886	INGHAM-E		115	1					0.03818	0.00000	119.9	119.9

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			Open 137235 PORTER 1	115	137246 VALLEY	115	1				-0.00006	-0.00017	75.0	75.6
7113	-3728.2	-1591.5	L: Interface 26 ONTARIO-MICH					1059.9	-0.0	0.28429		0.29129	1032.8	-53.2
			C:130754 KINTI345	345	149000 ROCH 345	345	1							
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.07424	-0.09436	365.0	716.8
7114	-3727.7	-1591.1	*L: Interface 26 ONTARIO-MICH					1072.6	0.0	0.28775		0.29129	1032.8	-53.0
			C:BUS:N.S._77											
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.01495	0.03575	-195.0	-328.3
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1				-0.01831	-0.01565	112.3	170.7
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				0.05988	-0.06320	661.2	896.8
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				0.01237	0.03953	-49.0	-196.3
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				0.19060	0.00000	-0.0	-0.0
7127	-3660.6	-1543.6	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	513.7	379.0	0.03680		0.03770	497.2	359.2
			C:SER:PV_LM_398											
			Open 103105 LONG MTN	345	103117 CTNY398	345	1				0.07224	-0.01244	227.9	273.5
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1				-0.00117	0.00000	0.1	0.1
7128	-3660.4	-1543.4	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	513.7	379.0	0.03680		0.03770	497.2	359.3
			C:103117 CTNY398	345	126294 PLTVLLEY	345	1							
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1				0.07224	-0.01244	227.8	273.3
7141	-3615.6	-1511.7	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	517.4	379.0	0.03827		0.03770	497.2	360.9
			C:129270 E.G.C.	138	129580 E.G.C.1	69.0	1							
			Open 129270 E.G.C.	138	129580 E.G.C.1	69.0	1				0.13314	0.00425	151.0	135.6
7177	-3592.4	-1495.2	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	474.4	339.0	0.03770		0.03770	448.6	313.1
			C:129234 VLY STRM	138	129235 V STRM P	138	1							
			Open 129234 VLY STRM	138	129235 V STRM P	138	1				0.21152	0.00000	122.3	122.3
7183	-3589.7	-1493.3	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	474.3	339.0	0.03770		0.03770	448.6	313.2
			C:126455 JAMAICA	138	129235 V STRM P	138	1							
			Open 126455 JAMAICA	138	129235 V STRM P	138	1				-0.21152	0.00000	-121.8	-121.8
8820	-3424.5	-1376.3	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	465.0	339.0	0.03680		0.03770	448.6	319.5
			C:SER:PV_LM_398											
			Open 103105 LONG MTN	345	103117 CTNY398	345	1				0.07224	-0.01244	227.9	270.5
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1				-0.00117	0.00000	0.1	0.1
8821	-3424.3	-1376.1	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	465.0	339.0	0.03680		0.03770	448.6	319.5
			C:103117 CTNY398	345	126294 PLTVLLEY	345	1							
			Open 103117 CTNY398	345	126294 PLTVLLEY	345	1				0.07224	-0.01244	227.8	270.4
8822	-3419.2	-1372.5	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	509.0	379.0	0.03803		0.03770	497.2	368.3
			C:129234 VLY STRM	138	129528 VLYSTRM2	69.0	2							
			Open 129234 VLY STRM	138	129528 VLYSTRM2	69.0	2				0.07771	0.00419	151.4	137.1
8828	-3388.6	-1350.8	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	468.7	339.0	0.03827		0.03770	448.6	320.8
			C:129270 E.G.C.	138	129580 E.G.C.1	69.0	1							
			Open 129270 E.G.C.	138	129580 E.G.C.1	69.0	1				0.13314	0.00425	151.0	136.6
8829	-3386.7	-1349.4	*L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	505.3	379.0	0.03729		0.03770	497.2	369.6
			C:126281 FISHKILL	345	126292 PL VILLE	345	1							

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			Open 126281 FISHKILL	345	126292 PL VILLE	345	1				0.00965	-0.04285	831.6	976.7
8830	-3385.7	-1348.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	550.6	379.0	0.05069		0.03681	403.3	278.7
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1 1423							
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1							
8842	-3363.0	-1332.7	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	465.8	339.0	0.03770		0.03770	448.6	321.8
			C:128958 GLNWD MID	13.8	129281 GLNWD GT	138	1 1501							
			Open 128958 GLNWD MID	13.8	129281 GLNWD GT	138	1							
8853	-3342.8	-1318.3	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-551.1	-379.0	-0.05149		-0.03770	-400.0	-274.0
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1 1414							
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1							
8877	-3281.8	-1275.1	L: 126295 RAINEY	345	126561 8E DUM	138	8	-480.8	-342.0	-0.04230		-0.04230	-378.0	-239.2
			C:GEN:RAVNWD 3-New				1771							
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2						481.0	481.0
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1						-962.0	-962.0
8903	-3190.7	-1210.5	*L: 129270 E.G.C.	138	129288 ROSLYN	138	1	460.3	339.0	0.03803		0.03770	448.6	328.3
			C:129234 VLY STRM	138	129528 VLYSTRM2	69.0	2 1515							
			Open 129234 VLY STRM	138	129528 VLYSTRM2	69.0	2							
10513	-3113.4	-1155.7	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-541.3	-379.0	-0.05214		-0.03770	-400.0	-282.6
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1 1425							
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1							
10626	-2979.1	-1060.6	L: 126295 RAINEY	345	126561 8E DUM	138	8	-378.0	-252.0	-0.04230			407.0	277.6
			Base Case											
12214	-2888.1	-996.1	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	403.3	297.0	0.03681				
			Base Case											
12312	-2732.7	-885.9	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-400.0	-297.0	-0.03770				
			Base Case											
12369	-2067.9	-414.8	L: 126295 RAINEY	345	126562 8W DUM	138	8	-341.2	-256.0	-0.04122				
			Base Case											
12376	-1857.6	-265.7	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-420.6	-342.0	-0.04230		-0.04230	-324.6	-246.0
			C:GEN:RAVNWD 3-New				1771							
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2						481.0	481.0
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1						-962.0	-962.0
12383	-1775.6	-207.6	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	417.1	342.0	0.04230		0.04230	321.1	246.0
			C:GEN:RAVNWD 3-New				1771							
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2						481.0	481.0
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1						-962.0	-962.0
12386	-1739.5	-182.0	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-324.6	-251.0	-0.04230				
			Base Case											
12389	-1651.2	-119.5	L: Interface 49 C-PJMCentral					358.7	0.0	0.21722		0.24187	321.5	-77.8
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200							
			Open 130753 FRASR345	345	130755 OAKDL345	345	1							
12390	-1651.2	-119.5	L: Interface 50 PJMCentral-C					-358.7	-0.0	-0.21722		-0.24187	-321.5	77.8

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			C:130753 FRASR345	345	130755 OAKDL345	345	1	200											
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				0.11764	0.20959	-315.6	-661.7					
12391	-1633.9	-107.2	L: 126480 RAINEY8E	138	126561 8E DUM	138	1		321.1	252.0	0.04230								
			Base Case																
12392	-1612.0	-91.7	L: 126295 RAINEY	345	126562 8W DUM	138	8		-438.4	-372.0	-0.04122		-0.04122	-341.2	-274.8				
			C:GEN:RAVNWD 3-New					1771											
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2				0.00000	0.00000	481.0	481.0					
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1				0.10104	0.00000	-962.0	-962.0					
12394	-1591.8	-77.4	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		730.6	636.0	0.05940		0.04401	521.3	451.3				
			C:129265 CARLE PL	138	129270 E.G.C.	138	1	1413											
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1						-0.41823	-0.03681	-500.3	-441.7			
12396	-1581.9	-70.4	L: Interface 49 C-PJMCentral						324.5	0.0	0.20514		0.24187	321.5	-61.1				
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206											
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						-0.14593	0.25174	-20.3	-418.6			
12397	-1581.9	-70.4	L: Interface 50 PJMCentral-C						-324.5	-0.0	-0.20514		-0.24187	-321.5	61.1				
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206											
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						0.14593	0.25174	-20.3	-418.6			
12398	-1558.7	-53.9	L: Interface 49 C-PJMCentral						368.9	-0.0	0.23669		0.24187	321.5	-55.5				
			C:130750 COOPC345	345	130753 FRASR345	345	1	192											
			Open 130750 COOPC345	345	130753 FRASR345	345	1						-0.05624	0.09223	-842.4	-986.2			
12399	-1558.7	-53.9	L: Interface 50 PJMCentral-C						-368.9	0.0	-0.23669		-0.24187	-321.5	55.5				
			C:130750 COOPC345	345	130753 FRASR345	345	1	192											
			Open 130750 COOPC345	345	130753 FRASR345	345	1						0.05624	0.09223	-842.4	-986.2			
12400	-1555.8	-51.9	L: Interface 49 C-PJMCentral						376.3	-0.0	0.24187		0.24187	321.5	-54.8				
			C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78											
			Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1						-0.05481	0.00000	-999.4	-999.4			
12401	-1555.8	-51.9	L: Interface 50 PJMCentral-C						-376.3	0.0	-0.24187		-0.24187	-321.5	54.8				
			C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78											
			Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1						0.05481	0.00000	-999.4	-999.4			
12402	-1555.8	-51.9	L: Interface 50 PJMCentral-C						-376.3	0.0	-0.24187		-0.24187	-321.5	54.8				
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351											
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1						0.05481	0.00000	-999.4	-999.4			
12403	-1555.8	-51.9	L: Interface 49 C-PJMCentral						376.3	-0.0	0.24187		0.24187	321.5	-54.8				
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351											
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1						-0.05481	0.00000	-999.4	-999.4			
12405	-1527.0	-31.4	L: Interface 50 PJMCentral-C						-365.9	0.0	-0.23961		-0.24187	-321.5	47.8				
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1						-0.03390	-0.06679	1308.0	1410.0			
12406	-1527.0	-31.4	L: Interface 50 PJMCentral-C						-365.9	0.0	-0.23961		-0.24187	-321.5	47.8				
			C:SIN:440					1680											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1						-0.03390	-0.06679	1308.0	1410.0			
12407	-1527.0	-31.4	L: Interface 49 C-PJMCentral						365.9	-0.0	0.23961		0.24187	321.5	-47.8				

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				C:125001 ROCK TAV	345	126297	RAMAPO	345	1	7									
				Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			0.03390	-0.06679	1308.0	1410.0		
12408	-1527.0	-31.4	L:	Interface	49	C-PJMCentral							365.9	-0.0	0.23961		0.24187	321.5	-47.8
				C:SIN:440							1680								
				Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			0.03390	-0.06679	1308.0	1410.0		
12410	-1455.8	19.0	L:	Interface	50	PJMCentral-C							-352.1	-0.0	-0.24187		-0.24187	-321.5	30.6
				C:GEN:SALEM							1564								
				Remove unit 1	from bus	36	SALEM-G1	22.0	1100.0	MW	dispatch								
12411	-1455.8	19.0	L:	Interface	49	C-PJMCentral							352.1	0.0	0.24187		0.24187	321.5	-30.6
				C:GEN:SALEM							1564								
				Remove unit 1	from bus	36	SALEM-G1	22.0	1100.0	MW	dispatch								
12412	-1451.7	21.9	*L:	Interface	50	PJMCentral-C							-351.1	-0.0	-0.24187		-0.24187	-321.5	29.6
				C:GEN:MARTN CK							1566								
				Remove unit 4	from bus	3151	MTN CK 4	24.0	704.3	MW	dispatch								
12413	-1451.7	21.9	*L:	Interface	49	C-PJMCentral							351.1	0.0	0.24187		0.24187	321.5	-29.6
				C:GEN:MARTN CK							1566								
				Remove unit 4	from bus	3151	MTN CK 4	24.0	704.3	MW	dispatch								
12566	-1346.3	96.6	L:	129265	CARLE PL	138	129283	GLNWD SO	138	1			428.6	379.0	0.03681		0.03681	403.3	353.7
				C:129234	VLY STRM	138	129235	V STRM P	138	1	1406								
				Open	129234	VLY STRM	138	129235	V STRM P	138	1					0.20644	0.00000	122.3	122.3
12589	-1343.7	98.5	L:	129265	CARLE PL	138	129283	GLNWD SO	138	1			428.5	379.0	0.03681		0.03681	403.3	353.8
				C:126455	JAMAICA	138	129235	V STRM P	138	1	1494								
				Open	126455	JAMAICA	138	129235	V STRM P	138	1					-0.20644	0.00000	-121.8	-121.8
15870	-1243.9	169.2	L:	129281	GLNWD GT	138	129288	ROSLYN	138	1			-425.9	-379.0	-0.03770		-0.03770	-400.0	-353.1
				C:129234	VLY STRM	138	129235	V STRM P	138	1	1406								
				Open	129234	VLY STRM	138	129235	V STRM P	138	1					-0.21152	0.00000	122.3	122.3
15873	-1241.2	171.1	L:	129281	GLNWD GT	138	129288	ROSLYN	138	1			-425.8	-379.0	-0.03770		-0.03770	-400.0	-353.2
				C:126455	JAMAICA	138	129235	V STRM P	138	1	1494								
				Open	126455	JAMAICA	138	129235	V STRM P	138	1					0.21152	0.00000	-121.8	-121.8
15896	-1171.3	220.7	L:	129265	CARLE PL	138	129283	GLNWD SO	138	1			422.8	379.0	0.03735		0.03681	403.3	360.2
				C:129270	E.G.C.	138	129580	E.G.C.1	69.0	1	1520								
				Open	129270	E.G.C.	138	129580	E.G.C.1	69.0	1					0.12878	0.00425	151.0	146.0
15905	-1123.6	254.5	L:	129265	CARLE PL	138	129283	GLNWD SO	138	1			419.4	379.0	0.03593		0.03681	403.3	361.9
				C:SER:PV_LM_398							1594								
				Open	103105	LONG MTN	345	103117	CTNY398	345	1					0.07049	-0.01244	227.9	241.9
				Open	103117	CTNY398	345	126294	PLTVLLEY	345	1					-0.00114	0.00000	0.1	0.1
15906	-1123.3	254.6	L:	129265	CARLE PL	138	129283	GLNWD SO	138	1			419.4	379.0	0.03593		0.03681	403.3	362.0
				C:103117	CTNY398	345	126294	PLTVLLEY	345	1	1362								
				Open	103117	CTNY398	345	126294	PLTVLLEY	345	1					0.07049	-0.01244	227.8	241.8
15907	-1099.5	271.5	L:	126295	RAINEY	345	126561	8E DUM	138	8			-387.8	-342.0	-0.04167		-0.04230	-378.0	-331.5
				C:126600	REAC71	345	126641	MOTT HAVEN	345	3	1371								
				Open	126600	REAC71	345	126641	MOTT HAVEN	345	3					-0.02164	-0.02891	453.4	485.2

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15908	-1099.5	271.5	L: 126295 RAINNEY	345	126561	8E DUM	138	8	-387.8	-342.0	-0.04167	-0.04230	-378.0	-331.5
			C:126266 DUNWODIE	345	126600	REAC71	345	SR 95						
			Open 126266 DUNWODIE	345	126600	REAC71	345	SR			-0.02164	-0.02891	453.4	485.2
15909	-1097.4	273.0	L: 126295 RAINNEY	345	126561	8E DUM	138	8	-387.7	-342.0	-0.04168	-0.04230	-378.0	-331.6
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4 1372						
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4			-0.02160	-0.02870	450.3	481.8
15910	-1097.4	273.0	L: 126295 RAINNEY	345	126561	8E DUM	138	8	-387.7	-342.0	-0.04168	-0.04230	-378.0	-331.6
			C:126266 DUNWODIE	345	126601	REAC72	345	SR 96						
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR			-0.02160	-0.02870	450.3	481.8
15911	-1074.8	289.0	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	-420.1	-379.0	-0.03827	-0.03770	-400.0	-359.5
			C:129270 E.G.C.	138	129580	E.G.C.1	69.0	1 1520						
			Open 129270 E.G.C.	138	129580	E.G.C.1	69.0	1			-0.13314	0.00425	151.0	146.5
15918	-1049.4	307.0	L: 126295 RAINNEY	345	126561	8E DUM	138	8	-385.9	-342.0	-0.04182	-0.04230	-378.0	-333.6
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 131						
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR			-0.01686	-0.02814	467.3	496.9
15919	-1049.4	307.0	L: 126295 RAINNEY	345	126561	8E DUM	138	8	-385.9	-342.0	-0.04182	-0.04230	-378.0	-333.6
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 132						
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR			-0.01686	-0.02814	467.3	496.9
15920	-1048.7	307.5	L: 126295 RAINNEY	345	126561	8E DUM	138	8	-385.9	-342.0	-0.04182	-0.04230	-378.0	-333.7
			C:126304 W 49 ST	345	126518	REACM52	345	2 1367						
			Open 126304 W 49 ST	345	126518	REACM52	345	2			0.01686	0.02814	-465.5	-495.1
15921	-1048.7	307.5	L: 126295 RAINNEY	345	126561	8E DUM	138	8	-385.9	-342.0	-0.04182	-0.04230	-378.0	-333.7
			C:126304 W 49 ST	345	126517	REACM51	345	1 1366						
			Open 126304 W 49 ST	345	126517	REACM51	345	1			0.01686	0.02814	-465.5	-495.1
15926	-1020.7	327.4	*L: 126295 RAINNEY	345	126561	8E DUM	138	8	-385.2	-342.0	-0.04230	-0.04230	-378.0	-334.8
			C:SER:41&25					1596						
			Open 126436 FGT_X10	138	126464	TAP X10	138	1			0.01742	0.00000	-88.5	-88.5
			Open 126452 HUDAVE E	138	126464	TAP X10	138	1			-0.00654	0.00000	0.0	0.0
			Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1			-0.00786	-0.00000	714.8	714.8
15927	-1018.7	328.8	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	-416.5	-379.0	-0.03680	-0.03770	-400.0	-361.6
			C:SER:PV_LM_398					1594						
			Open 103105 LONG MTN	345	103117	CTNY398	345	1			-0.07224	-0.01244	227.9	240.6
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1			0.00117	0.00000	0.1	0.1
15928	-1018.4	329.0	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	-416.5	-379.0	-0.03680	-0.03770	-400.0	-361.6
			C:103117 CTNY398	345	126294	PLTVLLEY	345	1 1362						
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1			-0.07224	-0.01244	227.8	240.5
15929	-1014.5	331.8	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	-417.2	-379.0	-0.03770	-0.03770	-400.0	-361.8
			C:128958 GLNWD MID	13.8	129281	GLNWD GT	138	1 1501						
			Open 128958 GLNWD MID	13.8	129281	GLNWD GT	138	1			0.17195	0.00000	-100.2	-100.2
15931	-962.6	368.6	*L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	414.7	379.0	0.03712	0.03681	403.3	367.9
			C:129234 VLY STRM	138	129528	VLYSTRM2	69.0	2 1515						
			Open 129234 VLY STRM	138	129528	VLYSTRM2	69.0	2			0.07549	0.00419	151.4	147.4

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15938	-908.8	406.6	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	690.0	636.0	0.05940	0.04401	521.3	481.3
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1 1414						
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1			0.41823	0.03681	403.3	369.9
15942	-903.5	410.5	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	691.5	636.0	0.06139	0.04401	521.3	481.6
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1 1425						
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1			0.41803	0.04159	407.0	369.5
15985	-862.3	439.6	*L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	-411.8	-379.0	-0.03803	-0.03770	-400.0	-367.5
			C:129234 VLY STRM	138	129528 VLYSTRM2	69.0	2 1515						
			Open 129234 VLY STRM	138	129528 VLYSTRM2	69.0	2			-0.07771	0.00419	151.4	147.8
17709	-780.0	497.9	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	-680.6	-599.0	-0.10464			
			Base Case										
20882	-555.7	656.9	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	-278.9	-256.0	-0.04122			
			Base Case										
20965	-552.4	659.2	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	521.3	497.0	0.04401			
			Base Case										
21022	-538.7	669.0	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	278.2	256.0	0.04122			
			Base Case										
21155	81.4	1108.4	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	-368.6	-372.0	-0.04122	-0.04122	-278.9	-282.3
			C:GEN:RAVNWD 3-New				1771						
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2			0.00000	0.00000	481.0	481.0
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1			0.09328	0.00000	-962.0	-962.0
21157	98.4	1120.5	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	367.9	372.0	0.04122	0.04122	278.2	282.3
			C:GEN:RAVNWD 3-New				1771						
			Open 126652 RAV 3	22.0	126865 RAV3 60M	345	2			-0.00000	0.00000	481.0	481.0
			Open 126652 RAV 3	22.0	126866 RAV3 60L	345	1			-0.09328	0.00000	-962.0	-962.0
21160	121.9	1137.1	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	-490.3	-499.0	-0.07122			
			Base Case										
21168	182.8	1180.3	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-334.4	-342.0	-0.04167	-0.04230	-324.6	-332.3
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1371						
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3			-0.02164	-0.02891	453.4	448.1
21169	182.8	1180.3	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-334.4	-342.0	-0.04167	-0.04230	-324.6	-332.3
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 95						
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR			-0.02164	-0.02891	453.4	448.1
21170	184.7	1181.6	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-334.3	-342.0	-0.04168	-0.04230	-324.6	-332.4
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1372						
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4			-0.02160	-0.02870	450.3	445.0
21171	184.7	1181.6	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-334.3	-342.0	-0.04168	-0.04230	-324.6	-332.4
			C:126266 DUNWODIE	345	126601 REAC72	345	SR 96						
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR			-0.02160	-0.02870	450.3	445.0
21174	228.3	1212.5	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-332.5	-342.0	-0.04182	-0.04230	-324.6	-334.2
			C:126298 SPRBROOK	345	126517 REACM51	345	SR 131						
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			-0.01686	-0.02814	467.3	460.9

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21175	228.3	1212.5	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-332.5	-342.0	-0.04182	-0.04230	-324.6	-334.2
			C:126298 SPRBROOK	345	126518 REACM52	345	SR 132						
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			-0.01686	-0.02814	467.3	460.9
21176	229.0	1213.0	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-332.4	-342.0	-0.04182	-0.04230	-324.6	-334.3
			C:126304 W 49 ST	345	126517 REACM51	345	1 1366						
			Open 126304 W 49 ST	345	126517 REACM51	345	1			0.01686	0.02814	-465.5	-459.1
21177	229.0	1213.0	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-332.4	-342.0	-0.04182	-0.04230	-324.6	-334.3
			C:126304 W 49 ST	345	126518 REACM52	345	2 1367						
			Open 126304 W 49 ST	345	126518 REACM52	345	2			0.01686	0.02814	-465.5	-459.1
21179	242.6	1222.7	*L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-331.7	-342.0	-0.04230	-0.04230	-324.6	-334.8
			C:SER:41&25				1596						
			Open 126436 FGT_X10	138	126464 TAP X10	138	1			0.01742	0.00000	-88.5	-88.5
			Open 126452 HUDAVE E	138	126464 TAP X10	138	1			-0.00654	0.00000	0.0	0.0
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1			-0.00786	-0.00000	714.8	714.8
21183	266.0	1239.2	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	330.9	342.0	0.04167	0.04230	321.1	332.4
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1371						
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3			0.02164	-0.02891	453.4	445.7
21184	266.0	1239.2	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	330.9	342.0	0.04167	0.04230	321.1	332.4
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 95						
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR			0.02164	-0.02891	453.4	445.7
21185	267.9	1240.6	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	330.8	342.0	0.04168	0.04230	321.1	332.4
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1372						
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4			0.02160	-0.02870	450.3	442.6
21186	267.9	1240.6	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	330.8	342.0	0.04168	0.04230	321.1	332.4
			C:126266 DUNWODIE	345	126601 REAC72	345	SR 96						
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR			0.02160	-0.02870	450.3	442.6
21188	273.7	1244.7	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	619.7	636.0	0.05954	0.04159	407.0	418.4
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1 1424						
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1			0.40795	0.04401	521.3	533.4
21193	311.2	1271.3	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	329.0	342.0	0.04182	0.04230	321.1	334.3
			C:126298 SPRBROOK	345	126518 REACM52	345	SR 132						
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			0.01686	-0.02814	467.3	458.6
21194	311.2	1271.3	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	329.0	342.0	0.04182	0.04230	321.1	334.3
			C:126298 SPRBROOK	345	126517 REACM51	345	SR 131						
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			0.01686	-0.02814	467.3	458.6
21195	311.9	1271.8	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	329.0	342.0	0.04182	0.04230	321.1	334.3
			C:126304 W 49 ST	345	126518 REACM52	345	2 1367						
			Open 126304 W 49 ST	345	126518 REACM52	345	2			-0.01686	0.02814	-465.5	-456.8
21196	311.9	1271.8	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	329.0	342.0	0.04182	0.04230	321.1	334.3
			C:126304 W 49 ST	345	126517 REACM51	345	1 1366						
			Open 126304 W 49 ST	345	126517 REACM51	345	1			-0.01686	0.02814	-465.5	-456.8
21197	324.6	1280.8	*L: 126480 RAINEY8E	138	126561 8E DUM	138	1	328.3	342.0	0.04230	0.04230	321.1	334.8

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			C:SER:41&25																1596
			Open 126436 FGT_X10	138	126464 TAP X10	138	1					-0.01742	0.00000	-88.5	-88.5				
			Open 126452 HUDAVE E	138	126464 TAP X10	138	1					0.00654	0.00000	0.0	0.0				
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1					0.00786	-0.00000	714.8	714.8				
22912	443.9	1365.3	L: 130807 GOUDY115	115	130848 S.OWE115	115	1		115.7	143.0	0.06154		0.02987	43.2	56.4				
			C:130763 HILSD230	230	130768 WATRC230	230	1	219											
			Open 130763 HILSD230	230	130768 WATRC230	230	1												
24546	497.7	1403.5	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1		-471.5	-491.0	-0.03911		-0.02123	-225.5	-236.0				
			C:129270 E.G.C.	138	129271 E.G.C.-2	138	1	1415											
			Open 129270 E.G.C.	138	129271 E.G.C.-2	138	1					0.46221	-0.03870	-532.3	-551.6				
24576	501.4	1406.1	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1		607.5	636.0	0.05679		0.04159	407.0	427.9				
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1422											
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1					0.40320	0.03770	497.2	516.2				
24641	515.8	1416.3	L: 130807 GOUDY115	115	130848 S.OWE115	115	1		110.3	143.0	0.06333		0.02987	43.2	58.6				
			C:BUS:WATERCURE_230					1630											
			Open 130768 WATRC230	230	130772 SHRED230	230	1					-0.25252	-0.07303	-8.3	-45.9				
			Open 130757 WATRC345	345	130768 WATRC230	230	1					0.19303	0.07776	337.6	377.7				
			Open 130763 HILSD230	230	130768 WATRC230	230	1					-0.14180	0.00000	0.5	0.5				
24654	522.3	1420.9	L: 126295 RAINEY	345	126562 8W DUM	138	8		-350.8	-372.0	-0.04061		-0.04122	-341.2	-362.8				
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1371											
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3					-0.02107	-0.02891	453.4	438.3				
24655	522.3	1420.9	L: 126295 RAINEY	345	126562 8W DUM	138	8		-350.8	-372.0	-0.04061		-0.04122	-341.2	-362.8				
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	95											
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR					-0.02107	-0.02891	453.4	438.3				
24658	524.2	1422.2	L: 126295 RAINEY	345	126562 8W DUM	138	8		-350.7	-372.0	-0.04062		-0.04122	-341.2	-362.8				
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1372											
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4					-0.02103	-0.02870	450.3	435.3				
24659	524.2	1422.2	L: 126295 RAINEY	345	126562 8W DUM	138	8		-350.7	-372.0	-0.04062		-0.04122	-341.2	-362.8				
			C:126266 DUNWODIE	345	126601 REAC72	345	SR	96											
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR					-0.02103	-0.02870	450.3	435.3				
24698	566.7	1452.3	L: 126295 RAINEY	345	126562 8W DUM	138	8		-348.9	-372.0	-0.04076		-0.04122	-341.2	-364.6				
			C:126298 SPRBROOK	345	126518 REACM52	345	SR	132											
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR					-0.01640	-0.02814	467.3	451.4				
24699	566.7	1452.3	L: 126295 RAINEY	345	126562 8W DUM	138	8		-348.9	-372.0	-0.04076		-0.04122	-341.2	-364.6				
			C:126298 SPRBROOK	345	126517 REACM51	345	SR	131											
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR					-0.01640	-0.02814	467.3	451.4				
24700	567.4	1452.8	L: 126295 RAINEY	345	126562 8W DUM	138	8		-348.9	-372.0	-0.04076		-0.04122	-341.2	-364.6				
			C:126304 W 49 ST	345	126518 REACM52	345	2	1367											
			Open 126304 W 49 ST	345	126518 REACM52	345	2					0.01640	0.02814	-465.5	-449.6				
24701	567.4	1452.8	L: 126295 RAINEY	345	126562 8W DUM	138	8		-348.9	-372.0	-0.04076		-0.04122	-341.2	-364.6				
			C:126304 W 49 ST	345	126517 REACM51	345	1	1366											
			Open 126304 W 49 ST	345	126517 REACM51	345	1					0.01640	0.02814	-465.5	-449.6				

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24705	576.7	1459.4	*L: 126295 RAINERY	345	126562 8W DUM	138	8	-348.2	-372.0	-0.04122	-0.04122	-341.2	-365.0
			C:SER:41&25				1596						
			Open 126436 FGT_X10	138	126464 TAP X10	138	1			0.01695	0.00000	-88.5	-88.5
			Open 126452 HUDAVE E	138	126464 TAP X10	138	1			-0.00636	0.00000	0.0	0.0
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1			-0.00768	-0.00000	714.8	714.8
24725	667.5	1523.8	L: 130763 HILSD230	230	200675 E.TWANDA	230	1	321.5	483.0	0.24187			
			Base Case										
24745	717.3	1559.1	L: 130787 CODNT115	115	130830 MONTR115	115	1	109.6	144.0	0.04791	0.03666	49.0	75.3
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209					
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			-0.10459	-0.10753	-579.5	-656.6
26480	847.1	1651.1	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	587.9	636.0	0.05679	0.04159	407.0	442.3
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1416					
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1			0.40320	0.03770	448.6	480.5
26482	849.2	1652.6	L: 130787 CODNT115	115	130830 MONTR115	115	1	95.7	144.0	0.05683	0.03666	49.0	80.2
			C:BUS:WATERCURE_230				1630						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.13205	-0.07303	-8.3	-70.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.13532	0.07776	337.6	403.6
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.10786	0.00000	0.5	0.5
26483	853.2	1655.4	L: 130787 CODNT115	115	130830 MONTR115	115	1	95.4	144.0	0.05692	0.03666	49.0	80.3
			C:130763 HILSD230	230	130768 WATRC230	230	1	219					
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.13439	-0.15079	-345.3	-473.9
26489	900.3	1688.8	L: 130830 MONTR115	115	130845 RIDGT115	115	1	96.0	133.0	0.04109	0.02486	57.5	79.9
			C:BUS:WATERCURE_230				1630						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.10324	-0.07303	-8.3	-74.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.11176	0.07776	337.6	407.6
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.10456	0.00000	0.5	0.5
26492	913.4	1698.1	L: 130830 MONTR115	115	130845 RIDGT115	115	1	95.2	133.0	0.04134	0.02486	57.5	80.2
			C:130763 HILSD230	230	130768 WATRC230	230	1	219					
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.10933	-0.15079	-345.3	-483.0
26493	995.3	1756.1	L: 126385 E179 ST	138	126730 15055 SR	138	1	170.5	246.0	0.07583			
			Base Case										
26494	999.0	1758.8	L: 126581 HG TAP	138	126730 15055 SR	138	1	-170.2	-246.0	-0.07583			
			Base Case										
26495	1052.6	1796.7	L: 130763 HILSD230	230	130768 WATRC230	230	1	-345.3	-504.0	-0.15079			
			Base Case										
26496	1056.2	1799.3	L: 130792 CORN TP2	115	130800 ETNA 115	115	1	-110.6	-143.0	-0.03064	-0.01543	-64.7	-81.0
			C:130787 CODNT115	115	130800 ETNA 115	115	1	255					
			Open 130787 CODNT115	115	130800 ETNA 115	115	1			0.76003	-0.02001	-60.5	-81.6
26500	1110.0	1837.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	74.7	143.0	0.06154	0.02987	2.2	35.3
			C:130763 HILSD230	230	130768 WATRC230	230	1	219					
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.21002	-0.15079	-345.3	-512.7
26501	1137.5	1856.9	L: 130830 MONTR115	115	130845 RIDGT115	115	1	96.5	133.0	0.03209	0.02486	57.5	85.8

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				C:130755 OAKDL345	345	131128 LAPEER	345	1	209										
				Open 130755 OAKDL345	345	131128 LAPEER	345	1											
26502	1141.6	1859.8	L:	131018 LOUNSD115	115	131850 CNYOG115	115	1											
				C:130763 HILSD230	230	130768 WATRC230	230	1	219										
				Open 130763 HILSD230	230	130768 WATRC230	230	1											
26503	1163.2	1875.1	L:	130848 S.OWE115	115	131850 CNYOG115	115	1											
				C:BUS:WATERCURE_230					1630										
				Open 130768 WATRC230	230	130772 SHRED230	230	1											
				Open 130757 WATRC345	345	130768 WATRC230	230	1											
				Open 130763 HILSD230	230	130768 WATRC230	230	1											
26504	1191.7	1895.3	L:	129283 GLNWD SO	138	129293 SHORE RD	138	1											
				C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1423										
				Open 129281 GLNWD GT	138	129288 ROSLYN	138	1											
26505	1193.9	1896.9	L:	131018 LOUNSD115	115	131850 CNYOG115	115	1											
				C:BUS:WATERCURE_230					1630										
				Open 130768 WATRC230	230	130772 SHRED230	230	1											
				Open 130757 WATRC345	345	130768 WATRC230	230	1											
				Open 130763 HILSD230	230	130768 WATRC230	230	1											
26506	1220.6	1915.8	L:	126455 JAMAICA	138	129249 L SUCSPH	138	1											
				C:BUS:SHORE_RD_345					1618										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1											
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2											
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1											
				Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1											
26507	1246.0	1933.8	L:	126455 JAMAICA	138	129249 L SUCSPH	138	1											
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363										
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1											
26508	1311.1	1979.9	L:	130830 MONTR115	115	130845 RIDGT115	115	1											
				C:130830 MONTR115	115	130844 RIDGR115	115	1	333										
				Open 130830 MONTR115	115	130844 RIDGR115	115	1											
26509	1383.7	2031.4	L:	Interface 48 PJMWest-C															
				C:SER:C398/NWES					1602										
				Open 409 GROVER	230	200675 E.TWANDA	230	1											
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1											
				Open 381 TOWANDA	115	200675 E.TWANDA	230	1											
26510	1383.7	2031.4	L:	Interface 47 C-PJMWest															
				C:SER:C398/NWES					1602										
				Open 409 GROVER	230	200675 E.TWANDA	230	1											
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1											
				Open 381 TOWANDA	115	200675 E.TWANDA	230	1											
26511	1384.5	2031.9	L:	Interface 47 C-PJMWest															
				C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375										

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				Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.19248	0.24187	321.5	656.4
26512	1384.5	2031.9	L:	Interface 48 PJMWest-C						305.3	-0.0	-0.22053		-0.17397	367.2	126.3
				C:SER:ETHS/NWES												1603
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.19248	0.24187	321.5	656.4
26513	1384.5	2031.9	L:	Interface 47 C-PJMWest						-305.3	0.0	0.22053		0.17397	-367.2	-126.3
				C:ETHS/NWES/LLGD												1645
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.19248	0.24187	321.5	656.4
26514	1384.5	2031.9	L:	Interface 48 PJMWest-C						305.3	-0.0	-0.22053		-0.17397	367.2	126.3
				C:ETHS/LLGD												1646
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.19248	0.24187	321.5	656.4
26515	1384.5	2031.9	L:	Interface 47 C-PJMWest						-305.3	0.0	0.22053		0.17397	-367.2	-126.3
				C:SER:ETHS/NWES												1603
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.19248	0.24187	321.5	656.4
26516	1384.5	2031.9	L:	Interface 47 C-PJMWest						-305.3	0.0	0.22053		0.17397	-367.2	-126.3
				C:ETHS/LLGD												1646
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.19248	0.24187	321.5	656.4
26517	1384.5	2031.9	L:	Interface 48 PJMWest-C						305.3	-0.0	-0.22053		-0.17397	367.2	126.3
				C:ETHS/NWES/LLGD												1645
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.19248	0.24187	321.5	656.4
26518	1384.5	2031.9	L:	Interface 48 PJMWest-C						305.3	-0.0	-0.22053		-0.17397	367.2	126.3
				C:130763 HILSD230	230	200675	E.TWANDA	230	1	1375						
				Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.19248	0.24187	321.5	656.4
26519	1420.8	2057.6	L:	Interface 48 PJMWest-C						283.8	-0.0	-0.19974		-0.17397	367.2	120.0
				C:BUS:WATERCURE_230												1630
				Open 130768 WATRC230	230	130772	SHRED230	230	1				0.09220	-0.07303	-8.3	-112.0
				Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.24479	0.07776	337.6	448.0
				Open 130763 HILSD230	230	130768	WATRC230	230	1				-0.06332	0.00000	0.5	0.5
26520	1420.8	2057.6	L:	Interface 47 C-PJMWest						-283.8	0.0	0.19974		0.17397	-367.2	-120.0
				C:BUS:WATERCURE_230												1630
				Open 130768 WATRC230	230	130772	SHRED230	230	1				-0.09220	-0.07303	-8.3	-112.0
				Open 130757 WATRC345	345	130768	WATRC230	230	1				0.24479	0.07776	337.6	448.0
				Open 130763 HILSD230	230	130768	WATRC230	230	1				0.06332	0.00000	0.5	0.5
26521	1424.0	2059.9	L:	130787 CODNT115	115	130830	MONTR115	115	1	81.2	144.0	0.04408		0.03666	49.0	101.2
				C:130757 WATRC345	345	130768	WATRC230	230	1	213						
				Open 130757 WATRC345	345	130768	WATRC230	230	1				0.09539	0.07776	337.6	448.3
26522	1431.7	2065.4	L:	130787 CODNT115	115	130830	MONTR115	115	1	73.2	144.0	0.04948		0.03666	49.0	101.5
				C:BUS:WATERCURE_345												1629
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.02830	0.17397	-367.2	-118.1
				Open 130757 WATRC345	345	130768	WATRC230	230	1				0.10153	0.07776	337.6	448.9
				Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.02668	0.00000	9.3	9.3
26523	1457.3	2083.5	L:	Interface 48 PJMWest-C						297.7	0.0	-0.20431		-0.17397	367.2	113.7
				C:130763 HILSD230	230	130768	WATRC230	230	1	219						

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				Open 130763 HILSD230	230	130768 WATRC230	230	1		0.20121	-0.15079	-345.3	-565.0	
26524	1457.3	2083.5	L:	Interface 47 C-PJMWest					-297.7	-0.0	0.20431	0.17397	-367.2	-113.7
				C:130763 HILSD230	230	130768 WATRC230	230	1	219					
				Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.20121	-0.15079	-345.3	-565.0	
26525	1471.7	2093.7	L:	130757 WATRC345	345	130768 WATRC230	230	1	337.6	452.0	0.07776			
				Base Case										
26526	1486.1	2104.0	L:	Interface 50 PJMCentral-C					-321.5	-681.0	-0.24187			
				Base Case										
26527	1486.1	2104.0	L:	Interface 49 C-PJMCentral					321.5	681.0	0.24187			
				Base Case										
26528	1495.3	2110.5	L:	130792 CORN TP2	115	131397 E.ITH115	115	1	97.2	143.0	0.03064	0.01543	51.2	74.3
				C:130787 CODNT115	115	130800 ETNA 115	115	1	255					
				Open 130787 CODNT115	115	130800 ETNA 115	115	1		-0.76003	-0.02001	-60.5	-90.4	
26529	1540.5	2142.5	L:	130807 GOUDY115	115	130848 S.OWE115	115	1	68.3	143.0	0.04846	0.02987	43.2	89.2
				C:BUS:WATERCURE_345				1629						
				Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.04988	0.17397	-367.2	-99.2	
				Open 130757 WATRC345	345	130768 WATRC230	230	1		0.12749	0.07776	337.6	457.4	
				Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.04847	0.00000	9.3	9.3	
26530	1540.5	2142.5	L:	Interface 47 C-PJMWest					-294.0	0.0	0.19084	0.17397	-367.2	-99.2
				C:130757 WATRC345	345	130768 WATRC230	230	1	213					
				Open 130757 WATRC345	345	130768 WATRC230	230	1		0.21691	0.07776	337.6	457.4	
26531	1540.5	2142.5	L:	Interface 48 PJMWest-C					294.0	-0.0	-0.19084	-0.17397	367.2	99.2
				C:130757 WATRC345	345	130768 WATRC230	230	1	213					
				Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.21691	0.07776	337.6	457.4	
26532	1552.1	2150.7	L:	130807 GOUDY115	115	130848 S.OWE115	115	1	82.6	143.0	0.03895	0.02987	43.2	89.5
				C:130757 WATRC345	345	130768 WATRC230	230	1	213					
				Open 130757 WATRC345	345	130768 WATRC230	230	1		0.11667	0.07776	337.6	458.3	
26533	1552.8	2151.2	L:	130830 MONTR115	115	130845 RIDGT115	115	1	84.7	133.0	0.03112	0.02486	57.5	96.1
				C:130757 WATRC345	345	130768 WATRC230	230	1	213					
				Open 130757 WATRC345	345	130768 WATRC230	230	1		0.08054	0.07776	337.6	458.3	
26534	1552.9	2151.3	L:	130830 MONTR115	115	130845 RIDGT115	115	1	84.9	133.0	0.03098	0.02486	57.5	96.1
				C:BUS:WATERCURE_345				1629						
				Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.00072	0.17397	-367.2	-97.0	
				Open 130757 WATRC345	345	130768 WATRC230	230	1		0.08038	0.07776	337.6	458.3	
				Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.00030	0.00000	9.3	9.3	
26535	1600.4	2185.0	L:	126385 E179 ST	138	126445 HG 4	138	1	-129.8	-179.0	-0.03074			
				Base Case										
26536	1605.5	2188.6	L:	126385 E179 ST	138	126442 HG 1	138	1	-129.8	-179.0	-0.03067			
				Base Case										
26537	1608.5	2190.7	L:	130787 CODNT115	115	130830 MONTR115	115	1	49.0	108.0	0.03666			
				Base Case										
26538	1635.3	2209.7	L:	130830 MONTR115	115	130844 RIDGR115	115	1	80.5	145.0	0.03945	0.02382	43.4	82.3

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				C:BUS:WATERCURE_230											1630
				Open 130768 WATRC230	230	130772 SHRED230	230	1		-0.09936	-0.07303	-8.3	-127.7		
				Open 130757 WATRC345	345	130768 WATRC230	230	1		0.10763	0.07776	337.6	464.7		
				Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.10084	0.00000	0.5	0.5		
26539	1644.0	2215.9	L: 130830 MONTR115	115	130844 RIDGR115	115	1		79.7	145.0	0.03969	0.02382	43.4	82.6	
			C:130763 HILSD230	230	130768 WATRC230	230	1	219							
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.10527	-0.15079	-345.3	-593.2		
26540	1645.2	2216.7	L: 126385 E179 ST	138	126730 15055 SR	138	1		408.3	533.0	0.07583	0.07583	170.5	295.3	
			C:GEN:NYPA_AS					1550							
			Remove unit 1 from bus 147788 POLETGT2	18.0	187.5 MW										
			Remove unit 1 from bus 147789 POLETSTG	18.0	219.5 MW										
			Remove unit 1 from bus 147790 POLETGT1	18.0	187.5 MW										
26541	1648.9	2219.3	L: 126581 HG TAP	138	126730 15055 SR	138	1		-408.0	-533.0	-0.07583	-0.07583	-170.2	-295.3	
			C:GEN:NYPA_AS					1550							
			Remove unit 1 from bus 147788 POLETGT2	18.0	187.5 MW										
			Remove unit 1 from bus 147789 POLETSTG	18.0	219.5 MW										
			Remove unit 1 from bus 147790 POLETGT1	18.0	187.5 MW										
26542	1666.4	2231.7	L: 130763 HILSD230	230	130768 WATRC230	230	1		-396.2	-657.0	-0.15652	-0.15079	-345.3	-596.6	
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1	197							
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			-0.48818	0.01173	104.3	123.8		
26543	1666.6	2231.9	L: 130763 HILSD230	230	130768 WATRC230	230	1		-396.1	-657.0	-0.15652	-0.15079	-345.3	-596.6	
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1	216							
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			-0.48818	0.01173	104.2	123.7		
26544	1666.6	2231.9	L: 130763 HILSD230	230	130768 WATRC230	230	1		-396.1	-657.0	-0.15652	-0.15079	-345.3	-596.6	
			C:SER:MEYER_HILLSD_68					1601							
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			-0.48818	0.01173	104.2	123.7		
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.04756	0.00000	0.1	0.1		
26545	1667.7	2232.7	L: 130763 HILSD230	230	130768 WATRC230	230	1		-396.0	-657.0	-0.15652	-0.15079	-345.3	-596.8	
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1	220							
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1			0.48818	-0.01173	-103.8	-123.4		
26546	1677.7	2239.8	L: 130787 CODNT115	115	130830 MONTR115	115	1		47.3	144.0	0.05761	0.03666	49.0	110.5	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.08323	0.25174	-20.3	402.0		
26547	1684.8	2244.8	L: 130763 HILSD230	230	130768 WATRC230	230	1		-371.9	-657.0	-0.16922	-0.15079	-345.3	-599.3	
			C:130807 GOUDY115	115	130848 S.OWE115	115	1	299							
			Open 130807 GOUDY115	115	130848 S.OWE115	115	1			-0.61676	0.02987	43.2	93.5		
26548	1685.9	2245.6	L: 130836 N.WAV115	115	131018 LOUNS115	115	1		-69.2	-173.0	-0.06154	-0.02987	3.3	-47.1	
			C:130763 HILSD230	230	130768 WATRC230	230	1	219							
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.21002	-0.15079	-345.3	-599.5		
26549	1699.9	2255.4	L: 130763 HILSD230	230	130768 WATRC230	230	1		-390.9	-657.0	-0.15652	-0.15079	-345.3	-601.6	
			C:130751 CNDGUA_T	230	130764 MEYER230	230	1	198							
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1			0.48818	-0.01173	-93.5	-113.5		

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26550	1717.4	2267.9	L: 130763 HILSD230	230	130768 WATRC230	230	1	-414.0	-657.0	-0.14148	-0.15079	-345.3	-604.2
			C:130764 MEYER230	230	131122 WTHRS230	230	1 221						
			Open 130764 MEYER230	230	131122 WTHRS230	230	1			0.39243	0.02373	-175.2	-134.4
26551	1722.9	2271.8	L: 130836 N.WAV115	115	131018 LOUNSI15	115	1	-63.9	-173.0	-0.06333	-0.02987	3.3	-48.2
			C:BUS:WATERCURE_230				1630						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.25252	-0.07303	-8.3	-134.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.19303	0.07776	337.6	471.5
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.14180	0.00000	0.5	0.5
26552	1749.0	2290.2	L: 130763 HILSD230	230	130768 WATRC230	230	1	-409.9	-657.0	-0.14128	-0.15079	-345.3	-609.0
			C:130770 SHLDN230	230	131122 WTHRS230	230	1 228						
			Open 130770 SHLDN230	230	131122 WTHRS230	230	1			-0.39243	-0.02423	164.7	122.3
26553	1749.5	2290.6	L: Interface 47 C-PJMWest					-368.9	0.0	0.21087	0.17397	-367.2	-62.8
			C:LKWANA-OXBW				1648						
			Open 417 OXBOW	230	3070 LACKAWNA	230	1			0.16504	0.22359	-10.4	380.8
26554	1749.5	2290.6	L: Interface 48 PJMWest-C					368.9	-0.0	-0.21087	-0.17397	367.2	62.8
			C:LKWANA-OXBW				1648						
			Open 417 OXBOW	230	3070 LACKAWNA	230	1			-0.16504	0.22359	-10.4	380.8
26555	1760.8	2298.7	L: 130763 HILSD230	230	130768 WATRC230	230	1	-365.2	-657.0	-0.16571	-0.15079	-345.3	-610.8
			C:130787 CODNT115	115	130830 MONTR115	115	1 256						
			Open 130787 CODNT115	115	130830 MONTR115	115	1			-0.40674	0.03666	49.0	113.6
26556	1775.3	2308.9	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	-552.4	-678.0	-0.07073	-0.07122	-490.3	-616.8
			C:129393 C.ISLIP	138	129731 C.ISLIP	69.0	1 1533						
			Open 129393 C.ISLIP	138	129731 C.ISLIP	69.0	1			-0.46831	-0.00105	132.6	130.8
26557	1782.1	2313.7	*L: 130763 HILSD230	230	130768 WATRC230	230	1	-405.6	-657.0	-0.14108	-0.15079	-345.3	-614.0
			C:130767 STOLE230	230	130770 SHLDN230	230	1 226						
			Open 130767 STOLE230	230	130770 SHLDN230	230	1			-0.39243	-0.02477	153.7	109.6
26558	1783.4	2314.7	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	69.2	179.0	0.06154	0.02987	-3.3	50.0
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.21002	-0.15079	-345.3	-614.2
26559	1787.3	2317.4	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	41.0	143.0	0.05709	0.02987	43.2	96.6
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.10810	0.25174	-20.3	429.6
26563	1817.3	2338.7	L: 130814 HILSD115	115	131162 CHEMU115	115	1	-67.2	-179.0	-0.06154	-0.02987	5.4	-48.9
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.21002	-0.15079	-345.3	-619.3
26564	1817.7	2339.0	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	63.9	179.0	0.06333	0.02987	-3.3	51.0
			C:BUS:WATERCURE_230				1630						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.25252	-0.07303	-8.3	-141.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.19303	0.07776	337.6	478.9
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.14180	0.00000	0.5	0.5
26565	1821.9	2342.0	L: 130791 CORN TP1	115	131397 E.ITH115	115	1	-87.2	-143.0	-0.03064	-0.01543	-41.2	-69.3
			C:130787 CODNT115	115	130800 ETNA	115	1 255						

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			Open 130787 CODNT115	115	130800 ETNA	115	115	1				0.76003	-0.02001	-60.5	-96.9
26569	1843.0	2356.9	L: 129248 L SUCS	138	129249 L SUCSPH	138	1		387.3	450.0	0.03403	0.00000		165.0	165.0
			C:BUS:SHORE_RD_345					1618							
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1					-0.32524	-0.05241	-342.2	-438.8
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2					-0.32524	-0.05223	-341.0	-437.3
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					0.00583	0.00000	2.6	2.6
			Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1					0.00583	0.00000	-0.0	-0.0
26570	1850.6	2362.3	L: 130814 HILSD115	115	131162 CHEMU115	115	1		-61.8	-179.0	-0.06333	-0.02987		5.4	-49.9
			C:BUS:WATERCURE_230					1630							
			Open 130768 WATRC230	230	130772 SHRED230	230	1					0.25252	-0.07303	-8.3	-143.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1					-0.19303	0.07776	337.6	481.5
			Open 130763 HILSD230	230	130768 WATRC230	230	1					0.14180	0.00000	0.5	0.5
26571	1851.1	2362.6	L: 130830 MONTR115	115	130844 RIDGR115	115	1		75.3	145.0	0.03763	0.02382		43.4	87.5
			C:130830 MONTR115	115	130845 RIDGT115	115	1	334							
			Open 130830 MONTR115	115	130845 RIDGT115	115	1					0.55565	0.02486	57.5	103.5
26576	1868.4	2374.9	L: 129248 L SUCS	138	129249 L SUCSPH	138	1		386.4	450.0	0.03403	0.00000		165.0	165.0
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1363							
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					-0.32524	-0.10464	-680.6	-876.1
26581	1891.9	2391.5	L: 129361 RULND RD	138	129421 HOLBROOK	138	1		-537.0	-678.0	-0.07455	-0.07122		-490.3	-625.1
			C:129321 BAGATELLE	138	129355 PILGRIM	138	1	1436							
			Open 129321 BAGATELLE	138	129355 PILGRIM	138	1					0.29008	-0.01145	-160.8	-182.5
26582	1908.7	2403.4	*L: Interface 48 PJMWest-C						357.0	-0.0	-0.18702	-0.17397		367.2	35.2
			C:SER:EESR/WRFL					1606							
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1					-0.07661	0.17024	133.9	458.9
26583	1908.7	2403.4	*L: Interface 47 C-PJMWest						-357.0	0.0	0.18702	0.17397		-367.2	-35.2
			C:135251 S RIPLEY	230	200654 ERIE E	230	1	1376							
			Open 135251 S RIPLEY	230	200654 ERIE E	230	1					0.07661	0.17024	133.9	458.9
26592	1918.7	2410.5	L: 130830 MONTR115	115	130845 RIDGT115	115	1		56.3	133.0	0.03999	0.02486		57.5	105.2
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					0.06012	0.25174	-20.3	462.7
26595	1923.7	2414.1	L: 129361 RULND RD	138	129421 HOLBROOK	138	1		-542.2	-678.0	-0.07058	-0.07122		-490.3	-627.3
			C:129355 PILGRIM	138	129361 RULND RD	138	1	1455							
			Open 129355 PILGRIM	138	129361 RULND RD	138	1					-0.43759	-0.00147	118.6	115.8
26596	1923.7	2414.1	L: 129361 RULND RD	138	129421 HOLBROOK	138	1		-542.2	-678.0	-0.07058	-0.07122		-490.3	-627.3
			C:129355 PILGRIM	138	129361 RULND RD	138	2	1456							
			Open 129355 PILGRIM	138	129361 RULND RD	138	2					-0.43759	-0.00147	118.6	115.8
26597	1930.1	2418.6	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		551.1	636.0	0.04401	0.04401		521.3	606.2
			C:129234 VLY STRM	138	129235 V STRM P	138	1	1406							
			Open 129234 VLY STRM	138	129235 V STRM P	138	1					0.24326	0.00000	122.3	122.3
26598	1932.7	2420.5	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		551.0	636.0	0.04401	0.04401		521.3	606.4
			C:126455 JAMAICA	138	129235 V STRM P	138	1	1494							
			Open 126455 JAMAICA	138	129235 V STRM P	138	1					-0.24326	0.00000	-121.8	-121.8

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26611	1963.7	2442.5	L: 130830 MONTR115	115	130845 RIDGT115	115	1	62.8	133.0	0.03575	0.02486	57.5	106.3
			C:130814 HILSD115	115	130844 RIDGR115	115	1 309						
			Open 130814 HILSD115	115	130844 RIDGR115	115	1				-0.47932	-0.02273	-11.1 -55.7
26617	1972.5	2448.7	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	-531.0	-678.0	-0.07455	-0.07122	-490.3	-630.8
			C:129321 BAGATELLE	138	129324 BETHPAGE	138	1 1435						
			Open 129321 BAGATELLE	138	129324 BETHPAGE	138	1				-0.29008	0.01145	140.1 162.7
26618	1973.5	2449.4	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	-530.9	-678.0	-0.07455	-0.07122	-490.3	-630.9
			C:129310 NEWBRGE	138	129324 BETHPAGE	138	1 1429						
			Open 129310 NEWBRGE	138	129324 BETHPAGE	138	1				0.29008	-0.01145	-139.8 -162.4
26713	2046.1	2500.8	L: 129361 RULND RD	138	129421 HOLBROOK	138	1	-533.8	-678.0	-0.07047	-0.07122	-490.3	-636.1
			C:129421 HOLBROOK	138	129454 RONKONK	138	1 1475						
			Open 129421 HOLBROOK	138	129454 RONKONK	138	1				-0.71627	-0.00105	60.7 58.6
26797	2057.1	2508.6	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	-288.5	-372.0	-0.04061	-0.04122	-278.9	-363.7
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1371						
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3				-0.02107	-0.02891	453.4 393.9
26798	2057.1	2508.6	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	-288.5	-372.0	-0.04061	-0.04122	-278.9	-363.7
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 95						
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR				-0.02107	-0.02891	453.4 393.9
26819	2058.8	2509.8	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	-288.4	-372.0	-0.04062	-0.04122	-278.9	-363.8
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1372						
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4				-0.02103	-0.02870	450.3 391.2
26820	2058.8	2509.8	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	-288.4	-372.0	-0.04062	-0.04122	-278.9	-363.8
			C:126266 DUNWODIE	345	126601 REAC72	345	SR 96						
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR				-0.02103	-0.02870	450.3 391.2
28247	2074.4	2520.9	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	287.8	372.0	0.04061	0.04122	278.2	363.7
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1371						
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3				0.02107	-0.02891	453.4 393.4
28248	2074.4	2520.9	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	287.8	372.0	0.04061	0.04122	278.2	363.7
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 95						
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR				0.02107	-0.02891	453.4 393.4
28264	2076.0	2522.1	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	287.7	372.0	0.04062	0.04122	278.2	363.8
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1372						
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4				0.02103	-0.02870	450.3 390.7
28265	2076.0	2522.1	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	287.7	372.0	0.04062	0.04122	278.2	363.8
			C:126266 DUNWODIE	345	126601 REAC72	345	SR 96						
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR				0.02103	-0.02870	450.3 390.7
28348	2082.0	2526.3	L: 130830 MONTR115	115	130844 RIDGR115	115	1	80.9	145.0	0.03078	0.02382	43.4	93.0
			C:130755 OAKDL345	345	131128 LAPEER	345	1 209						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				-0.06474	-0.10753	-579.5 -803.4
28354	2082.3	2526.5	L: 130787 CODNT115	115	130830 MONTR115	115	1	57.5	144.0	0.04156	0.03666	49.0	125.4
			C:130776 BORDR115	115	130823 GUARD115	115	1 237						
			Open 130776 BORDR115	115	130823 GUARD115	115	1				0.22482	0.02180	37.5 82.9

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28359	2082.9	2526.9	L: 130787 CODNT115	115	130830	MONTR115	115	1	57.4	144.0	0.04156	0.03666	49.0	125.4
			C:130809 HALEY115	115	130823	GUARD115	115	1 301						
			Open 130809 HALEY115	115	130823	GUARD115	115	1			-0.22482	-0.02180	-37.4	-82.8
28377	2088.8	2531.1	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-285.9	-372.0	-0.04122	-0.04122	-278.9	-365.0
			C:SER:41&25					1596						
			Open 126436 FGT_X10	138	126464	TAP X10	138	1			0.01695	0.00000	-88.5	-88.5
			Open 126452 HUDAVE E	138	126464	TAP X10	138	1			-0.00636	0.00000	0.0	0.0
			Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1			-0.00768	-0.00000	714.8	714.8
28463	2095.9	2536.1	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-286.6	-372.0	-0.04076	-0.04122	-278.9	-365.3
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 131						
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR			-0.01640	-0.02814	467.3	408.3
28464	2095.9	2536.1	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-286.6	-372.0	-0.04076	-0.04122	-278.9	-365.3
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 132						
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR			-0.01640	-0.02814	467.3	408.3
28465	2096.6	2536.6	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-286.5	-372.0	-0.04076	-0.04122	-278.9	-365.3
			C:126304 W 49 ST	345	126518	REACM52	345	2 1367						
			Open 126304 W 49 ST	345	126518	REACM52	345	2			0.01640	0.02814	-465.5	-406.5
28466	2096.6	2536.6	*L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	-286.5	-372.0	-0.04076	-0.04122	-278.9	-365.3
			C:126304 W 49 ST	345	126517	REACM51	345	1 1366						
			Open 126304 W 49 ST	345	126517	REACM51	345	1			0.01640	0.02814	-465.5	-406.5
28753	2105.8	2543.1	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	285.2	372.0	0.04122	0.04122	278.2	365.0
			C:SER:41&25					1596						
			Open 126436 FGT_X10	138	126464	TAP X10	138	1			-0.01695	0.00000	-88.5	-88.5
			Open 126452 HUDAVE E	138	126464	TAP X10	138	1			0.00636	0.00000	0.0	0.0
			Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1			0.00768	-0.00000	714.8	714.8
31354	2113.1	2548.3	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	285.9	372.0	0.04076	0.04122	278.2	365.3
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 131						
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR			0.01640	-0.02814	467.3	407.9
31355	2113.1	2548.3	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	285.9	372.0	0.04076	0.04122	278.2	365.3
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 132						
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR			0.01640	-0.02814	467.3	407.9
31410	2113.8	2548.8	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	285.8	372.0	0.04076	0.04122	278.2	365.3
			C:126304 W 49 ST	345	126517	REACM51	345	1 1366						
			Open 126304 W 49 ST	345	126517	REACM51	345	1			-0.01640	0.02814	-465.5	-406.1
31411	2113.8	2548.8	*L: 126481 RAINEY8W	138	126562	8W DUM	138	1	285.8	372.0	0.04076	0.04122	278.2	365.3
			C:126304 W 49 ST	345	126518	REACM52	345	2 1367						
			Open 126304 W 49 ST	345	126518	REACM52	345	2			-0.01640	0.02814	-465.5	-406.1
31529	2119.9	2553.1	L: 130787 CODNT115	115	130830	MONTR115	115	1	67.9	144.0	0.03588	0.03666	49.0	126.7
			C:130800 ETNA 115	115	130863	WILET115	115	1 288						
			Open 130800 ETNA 115	115	130863	WILET115	115	1			0.23590	-0.00331	80.1	73.1
31657	2144.4	2570.5	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	133.9	499.0	0.17024			
			Base Case											

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31690	2163.2	2583.8	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1	407.0	497.0	0.04159				
			Base Case												
31717	2173.7	2591.3	L: 130807 GOUDY115	115	130838	OAKDL115	115	1	-124.7	-239.0	-0.05259	-0.02362	-58.4	-109.7	
			C:130763 HILSD230	230	130768	WATRC230	230	1	219						
			Open 130763 HILSD230	230	130768	WATRC230	230	1				0.19208	-0.15079	-345.3	-673.1
31736	2192.9	2604.9	L: 130807 GOUDY115	115	130838	OAKDL115	115	1	-120.9	-239.0	-0.05384	-0.02362	-58.4	-110.2	
			C:BUS:WATERCURE_230												1630
			Open 130768 WATRC230	230	130772	SHRED230	230	1				0.22204	-0.07303	-8.3	-168.4
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.18010	0.07776	337.6	508.1
			Open 130763 HILSD230	230	130768	WATRC230	230	1				0.13186	0.00000	0.5	0.5
31747	2200.5	2610.2	L: 130757 WATRC345	345	130768	WATRC230	230	1	345.3	600.0	0.11575	0.07776	337.6	508.7	
			C:130765 OAKDL230	230	130838	OAKDL115	115	1	223						
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1				-0.52018	-0.07303	-14.9	-175.6
31753	2201.0	2610.6	L: 130757 WATRC345	345	130768	WATRC230	230	1	345.2	600.0	0.11575	0.07776	337.6	508.7	
			C:130765 OAKDL230	230	130772	SHRED230	230	1	222						
			Open 130765 OAKDL230	230	130772	SHRED230	230	1				0.52018	0.07303	14.8	175.5
31776	2209.3	2616.5	*L: 130787 CODNT115	115	130830	MONTR115	115	1	52.2	144.0	0.04156	0.03666	49.0	130.0	
			C:130809 HALEY115	115	131241	GRNDG115	115	1	302						
			Open 130809 HALEY115	115	131241	GRNDG115	115	1				0.22482	0.02180	14.0	62.2
31777	2209.8	2616.9	L: 129361 RULND RD	138	129421	HOLBROOK	138	1	-517.6	-678.0	-0.07258	-0.07122	-490.3	-647.7	
			C:129305 LCST GRV	138	129315	SYOSSET	138	1	1428						
			Open 129305 LCST GRV	138	129315	SYOSSET	138	1				0.23009	-0.00590	-118.6	-131.6
31780	2212.6	2618.8	L: 129270 E.G.C.	138	129310	NEWBRGE	138	3	-421.2	-498.0	-0.03470	-0.01884	-202.9	-244.6	
			C:129270 E.G.C.	138	129271	E.G.C.-2	138	1	1415						
			Open 129270 E.G.C.	138	129271	E.G.C.-2	138	1				0.41010	-0.03870	-532.3	-618.0
31799	2225.5	2628.0	L: 130757 WATRC345	345	130768	WATRC230	230	1	342.4	600.0	0.11575	0.07776	337.6	510.6	
			C:SER:OAKDALE_WATRC230												1591
			Open 130768 WATRC230	230	130772	SHRED230	230	1				-0.52018	-0.07303	-8.3	-170.8
			Open 130765 OAKDL230	230	130772	SHRED230	230	1	NA						
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1				0.08239	0.00000	6.6	6.6
31801	2226.4	2628.6	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	540.3	636.0	0.04297	0.04401	521.3	619.3	
			C:SER:PV_LM_398												1594
			Open 103105 LONG MTN	345	103117	CTNY398	345	1				0.08347	-0.01244	227.9	200.3
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1				-0.00148	0.00000	0.1	0.1
31802	2226.6	2628.8	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	540.3	636.0	0.04297	0.04401	521.3	619.3	
			C:103117 CTNY398	345	126294	PLTVLLEY	345	1	1362						
			Open 103117 CTNY398	345	126294	PLTVLLEY	345	1				0.08347	-0.01244	227.8	200.1
31809	2230.2	2631.3	L: 130757 WATRC345	345	130768	WATRC230	230	1	341.9	600.0	0.11575	0.07776	337.6	511.0	
			C:130768 WATRC230	230	130772	SHRED230	230	1	227						
			Open 130768 WATRC230	230	130772	SHRED230	230	1				-0.52018	-0.07303	-8.3	-171.1
31810	2230.4	2631.4	L: 130787 CODNT115	115	130791	CORN TP1	115	1	-73.7	-143.0	-0.03108	-0.01587	-27.7	-63.1	
			C:130787 CODNT115	115	130800	ETNA	115	1	255						

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			Open 130787 CODNT115	115	130800 ETNA	115	115	1				0.76003	-0.02001	-60.5	-105.1
31847	2242.3	2639.9	L: 129361 RULND RD	138	129421 HOLBROOK	138	1		-518.2	-678.0	-0.07129		-0.07122	-490.3	-650.0
			C:129329 ELWOOD 2	138	129342 NRTHPRT2	138	1	1440							
			Open 129329 ELWOOD 2	138	129342 NRTHPRT2	138	1					0.09040	-0.00069	-308.0	-309.5
31861	2247.2	2643.3	*L: 129361 RULND RD	138	129421 HOLBROOK	138	1		-517.9	-678.0	-0.07122		-0.07122	-490.3	-650.4
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1395							
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1					0.04147	0.00000	-666.2	-666.2
35359	2380.9	2738.1	L: 130807 GOUDY115	115	130848 S.OWE115	115	1		45.4	143.0	0.04098		0.02987	43.2	114.3
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223							
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1					-0.15211	-0.07303	-14.9	-188.7
35360	2381.3	2738.4	L: 130807 GOUDY115	115	130848 S.OWE115	115	1		45.4	143.0	0.04098		0.02987	43.2	114.3
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222							
			Open 130765 OAKDL230	230	130772 SHRED230	230	1					0.15211	0.07303	14.8	188.7
35364	2386.4	2742.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		27.3	143.0	0.04846		0.02987	2.2	73.5
			C:BUS:WATERCURE_345					1629							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1					0.04988	0.17397	-367.2	48.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1					0.12749	0.07776	337.6	523.1
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					0.04847	0.00000	9.3	9.3
35370	2390.1	2744.6	L: 130807 GOUDY115	115	130848 S.OWE115	115	1		45.0	143.0	0.04098		0.02987	43.2	114.6
			C:SER:OAKDALE_WATRC230					1591							
			Open 130768 WATRC230	230	130772 SHRED230	230	1					-0.15211	-0.07303	-8.3	-182.8
			Open 130765 OAKDL230	230	130772 SHRED230	230	1		NA						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1					0.09482	0.00000	6.6	6.6
35373	2394.1	2747.4	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		530.1	636.0	0.04425		0.04401	521.3	626.7
			C:129270 E.G.C.	138	129580 E.G.C.1	69.0	1	1520							
			Open 129270 E.G.C.	138	129580 E.G.C.1	69.0	1					0.05791	0.00425	151.0	161.2
35380	2405.4	2755.5	L: 130807 GOUDY115	115	130848 S.OWE115	115	1		44.4	143.0	0.04098		0.02987	43.2	115.0
			C:130768 WATRC230	230	130772 SHRED230	230	1	227							
			Open 130768 WATRC230	230	130772 SHRED230	230	1					-0.15211	-0.07303	-8.3	-183.9
35385	2419.1	2765.2	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		530.6	636.0	0.04357		0.04401	521.3	627.8
			C:126281 FISHKILL	345	126305 WOOD A	345	1	111							
			Open 126281 FISHKILL	345	126305 WOOD A	345	1					0.01017	-0.04269	913.1	809.8
35389	2421.5	2766.9	*L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		530.6	636.0	0.04353		0.04401	521.3	627.9
			C:126281 FISHKILL	345	126292 PL VILLE	345	1	108							
			Open 126281 FISHKILL	345	126292 PL VILLE	345	1					0.01117	-0.04285	831.6	727.8
35395	2426.5	2770.4	L: 131018 LOUNS115	115	131850 CNYOG115	115	1		-25.4	-143.0	-0.04846		-0.02987	-0.2	-72.7
			C:BUS:WATERCURE_345					1629							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1					-0.04988	0.17397	-367.2	54.9
			Open 130757 WATRC345	345	130768 WATRC230	230	1					-0.12749	0.07776	337.6	526.3
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					-0.04847	0.00000	9.3	9.3
35452	2505.4	2826.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-0.0	143.0	0.05709		0.02987	2.2	77.0
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206							

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			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.10810	0.25174	-20.3	610.4
35462	2511.2	2830.4	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	160.5	637.0	0.18976	0.17024	133.9	561.4
			C:SER:C398/NWES										1602
			Open 409 GROVER	230	200675 E.TWANDA	230	1			-0.02437	-0.00247	-18.0	-24.2
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.08022	0.24187	321.5	928.9
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1			-0.00356	-0.01670	-84.0	-125.9
35467	2513.8	2832.3	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	159.9	637.0	0.18979	0.17024	133.9	561.9
			C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375					
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.08081	0.24187	321.5	929.6
35468	2513.8	2832.3	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	159.9	637.0	0.18979	0.17024	133.9	561.9
			C:SER:ETHS/NWES										1603
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.08081	0.24187	321.5	929.6
35469	2513.8	2832.3	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	159.9	637.0	0.18979	0.17024	133.9	561.9
			C:ETHS/NWES/LLGD										1645
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.08081	0.24187	321.5	929.6
35470	2513.8	2832.3	L: 135251 S RIPLEY	230	200654 ERIE E	230	1	159.9	637.0	0.18979	0.17024	133.9	561.9
			C:ETHS/LLGD										1646
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.08081	0.24187	321.5	929.6
35523	2539.5	2850.5	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	2.0	-143.0	-0.05709	-0.02987	-0.2	-76.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.10810	0.25174	-20.3	618.9
35538	2544.4	2854.0	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	57.8	482.0	0.16671			
			Base Case										
35730	2580.8	2879.7	L: Interface	19	PJM-NY			-1285.0	-3114.0	-0.70871	-0.70871	-1050.7	-2879.7
			C:GEN:SALEM										1564
			Remove unit 1 from bus	36	SALEM-G1	22.0	1100.0	MW	dispatch				
35731	2580.8	2879.7	L: Interface	35	NY-PJM			1285.0	3114.0	0.70871	0.70871	1050.7	2879.7
			C:GEN:SALEM										1564
			Remove unit 1 from bus	36	SALEM-G1	22.0	1100.0	MW	dispatch				
37356	2604.7	2896.7	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	41.6	143.0	0.03895	0.02987	2.2	80.0
			C:130757 WATRC345	345	130768 WATRC230	230	1	213					
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.11667	0.07776	337.6	540.1
38710	2614.0	2903.3	L: 130814 HILSD115	115	130844 RIDGR115	115	1	-46.5	-145.0	-0.03767	-0.02273	-11.1	-70.5
			C:BUS:WATERCURE_230										1630
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.09502	-0.07303	-8.3	-199.2
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.10289	0.07776	337.6	540.8
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.09640	0.00000	0.5	0.5
38744	2616.6	2905.2	L: 130814 HILSD115	115	130844 RIDGR115	115	1	-45.8	-145.0	-0.03791	-0.02273	-11.1	-70.5
			C:130763 HILSD230	230	130768 WATRC230	230	1	219					
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.10064	-0.15079	-345.3	-739.8
38754	2618.3	2906.4	L: 135460 PACK(N)E	115	147850 NIAG115E	115	2	-245.2	-328.0	-0.03162	-0.01972	-152.9	-204.6
			C:135460 PACK(N)E	115	147850 NIAG115E	115	1	610					

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				Open 135460 PACK(N)E	115	147850	NIAG115E	115	1				0.63487	-0.01874	-145.3	-194.4
40409	2654.6	2932.1	L:	131018 LOUN5115	115	131850	CNYOG115	115	1	-39.6	-143.0	-0.03895	-0.02987	-0.2	-79.5	
			C:	130757 WATRC345	345	130768	WATRC230	230	1							
				Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.11667	0.07776	337.6	544.0
40437	2666.7	2940.7	L:	128835 SHORE RD	345	129293	SHORE RD	138	1	-342.2	-482.0	-0.05241				
				Base Case												
40461	2678.2	2948.8	L:	130830 MONTR115	115	130844	RIDGR115	115	1	42.2	145.0	0.03838	0.02382	43.4	107.2	
			C:	130755 OAKDL345	345	130757	WATRC345	345	1							
				Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.05782	0.25174	-20.3	653.9
40475	2684.3	2953.2	L:	Interface 19 PJM-NY						-1211.6	-3114.0	-0.70871	-0.70871	-1050.7	-2953.2	
			C:	GEN:MARTN CK												
				Remove unit 4 from bus	3151	MTN CK 4	24.0	704.3	MW							
40476	2684.3	2953.2	L:	Interface 35 NY-PJM						1211.6	3114.0	0.70871	0.70871	1050.7	2953.2	
			C:	GEN:MARTN CK												
				Remove unit 4 from bus	3151	MTN CK 4	24.0	704.3	MW							
40482	2699.8	2964.1	L:	128835 SHORE RD	345	129293	SHORE RD	138	2	-341.0	-482.0	-0.05223				
				Base Case												
40496	2723.7	2981.0	*L:	130807 GOUDY115	115	130848	S.OWE115	115	1	49.3	143.0	0.03442	0.02987	43.2	124.5	
			C:	130787 CODNT115	115	130830	MONTR115	115	1							
				Open 130787 CODNT115	115	130830	MONTR115	115	1				0.12405	0.03666	49.0	148.9
40506	2736.9	2990.4	L:	130757 WATRC345	345	130768	WATRC230	230	1	375.5	600.0	0.08203	0.07776	337.6	550.4	
			C:	130751 CNDGUA_T	230	130761	AVOCA230	230	1							
				Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1				0.36377	0.01173	104.3	136.4
40507	2737.2	2990.7	L:	130757 WATRC345	345	130768	WATRC230	230	1	375.5	600.0	0.08203	0.07776	337.6	550.4	
			C:	130761 AVOCA230	230	131154	STONY RIDGE	230	1							
				Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1				0.36377	0.01173	104.2	136.3
40508	2737.3	2990.7	L:	130757 WATRC345	345	130768	WATRC230	230	1	375.5	600.0	0.08203	0.07776	337.6	550.4	
			C:	SER:MEYER_HILLSD_68												
				Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1				0.36377	0.01173	104.2	136.3
				Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1				-0.04408	0.00000	0.1	0.1
40509	2737.8	2991.1	L:	130757 WATRC345	345	130768	WATRC230	230	1	170.8	600.0	0.15676	0.07776	337.6	550.5	
			C:	SER:HCWC/NWES												
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.45407	0.17397	-367.2	109.1
40510	2737.8	2991.1	L:	130757 WATRC345	345	130768	WATRC230	230	1	170.8	600.0	0.15676	0.07776	337.6	550.5	
			C:	130757 WATRC345	345	200769	HOMER CY	345	1							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.45407	0.17397	-367.2	109.1
40511	2737.8	2991.1	*L:	130757 WATRC345	345	130768	WATRC230	230	1	170.8	600.0	0.15676	0.07776	337.6	550.5	
			C:	SER:HC-WC_30&W-F_171												
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.45407	0.17397	-367.2	109.1
40515	2739.8	2992.5	L:	Interface 19 PJM-NY						-1172.2	-3114.0	-0.70871	-0.70871	-1050.7	-2992.5	
			C:	GEN:PEACHBTM												
				Remove unit 1 from bus	34	PCHBTM 2	22.0	610.1	MW							

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40516	2739.8	2992.5	L: Interface	35	NY-PJM		1172.2	3114.0	0.70871	0.70871	1050.7	2992.5		
			C:GEN:PEACHTM			1565								
			Remove unit 1 from bus	34	PCHBTM 2	22.0	610.1	MW	dispatch					
40536	2774.2	3016.8	L: 135251 S RIPLEY	230	200654 ERIE E	230	1		133.4	637.0	0.18152	0.17024	133.9	606.2
			C:LKWANA-OXBW			1648								
			Open 417 OXBOW	230	3070 LACKAWNA	230	1			0.05047	0.22359	-10.4	609.9	
40562	2814.8	3045.6	L: 135251 S RIPLEY	230	200654 ERIE E	230	1		157.8	637.0	0.17024	0.17024	133.9	613.1
			C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78						
			Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1			-0.02389	0.00000	-999.4	-999.4	
40563	2814.8	3045.6	L: 135251 S RIPLEY	230	200654 ERIE E	230	1		157.8	637.0	0.17024	0.17024	133.9	613.1
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351						
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1			-0.02389	0.00000	-999.4	-999.4	
40565	2815.1	3045.9	L: Interface	19	PJM-NY				-1095.4	-3114.0	-0.71705	-0.70871	-1050.7	-3045.9
			C:Q29HM			1636								
			Open 157052 BECK2 DK	220	158105 HANONJ29	220	1			-0.12268	0.06069	334.3	505.2	
			Open 158066 BEACH	220	158105 HANONJ29	220	1			0.00904	-0.03045	-410.8	-496.5	
			Open 158105 HANONJ29	220	158148 NEBOJQ29	220	1			-0.48339	0.00000	7.1	7.1	
			Open 158069 MIDDLEDK1	220	158148 NEBOJQ29	220	1			0.02057	-0.03014	168.5	83.6	
40566	2815.1	3045.9	L: Interface	35	NY-PJM				1095.4	3114.0	0.71705	0.70871	1050.7	3045.9
			C:Q29HM			1636								
			Open 157052 BECK2 DK	220	158105 HANONJ29	220	1			0.12268	0.06069	334.3	505.2	
			Open 158066 BEACH	220	158105 HANONJ29	220	1			-0.00904	-0.03045	-410.8	-496.5	
			Open 158105 HANONJ29	220	158148 NEBOJQ29	220	1			0.48339	0.00000	7.1	7.1	
			Open 158069 MIDDLEDK1	220	158148 NEBOJQ29	220	1			-0.02057	-0.03014	168.5	83.6	
40567	2816.1	3046.6	L: Interface	35	NY-PJM				1094.5	3114.0	0.71710	0.70871	1050.7	3046.6
			C:Q24HM			1635								
			Open 157052 BECK2 DK	220	158103 HANONJ24	220	1			0.14512	0.06058	324.5	495.1	
			Open 158066 BEACH	220	158103 HANONJ24	220	1			0.01437	-0.02777	-445.2	-523.4	
			Open 158103 HANONJ24	220	158147 NEBOJQ24	220	1			0.46100	0.00000	6.7	6.7	
40568	2816.1	3046.6	L: Interface	19	PJM-NY				-1094.5	-3114.0	-0.71710	-0.70871	-1050.7	-3046.6
			C:Q24HM			1635								
			Open 157052 BECK2 DK	220	158103 HANONJ24	220	1			-0.14512	0.06058	324.5	495.1	
			Open 158066 BEACH	220	158103 HANONJ24	220	1			-0.01437	-0.02777	-445.2	-523.4	
			Open 158103 HANONJ24	220	158147 NEBOJQ24	220	1			-0.46100	0.00000	6.7	6.7	
40569	2817.3	3047.4	L: 135460 PACK(N)E	115	147850 NIAG115E	115	1		-240.6	-328.0	-0.03102	-0.01874	-145.3	-198.1
			C:135460 PACK(N)E	115	147850 NIAG115E	115	2	611						
			Open 135460 PACK(N)E	115	147850 NIAG115E	115	2			0.62286	-0.01972	-152.9	-208.5	
40570	2817.5	3047.5	L: 135251 S RIPLEY	230	200654 ERIE E	230	1		149.3	637.0	0.17309	0.17024	133.9	613.6
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			-0.02652	-0.10753	-579.5	-882.4	
40571	2820.5	3049.7	*L: 135251 S RIPLEY	230	200654 ERIE E	230	1		148.9	637.0	0.17306	0.17024	133.9	614.1
			C:Q29HM			1636								

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			Open 157052 BECK2 DK	220	158105	HANONJ29	220	1		0.04157	0.06069	334.3	505.5	
			Open 158066 BEACH	220	158105	HANONJ29	220	1		-0.00348	-0.03045	-410.8	-496.6	
			Open 158105 HANONJ29	220	158148	NEBOJQ29	220	1		0.09909	0.00000	7.1	7.1	
			Open 158069 MIDDLEDK1	220	158148	NEBOJQ29	220	1		-0.00649	-0.03014	168.5	83.5	
40575	2826.9	3054.2	L: Interface 35 NY-PJM						1110.6	3114.0	0.70871	0.70871	1050.7	3054.2
			C:136269					1780						
			Open 136269 SOLVTAP2	115	147940	SOLVBRDG	115	1	NA					
			Open 136200 GERES LK	115	136269	SOLVTAP2	115	1		-0.00108	-0.00016	91.5	91.0	
			Open 136238 SOLVAY-B	115	136269	SOLVTAP2	115	1	NA					
			Open 136238 SOLVAY-B	115	136602	SOLVAY34	34.5	1		0.72187	0.00000	83.0	83.0	
			Open 136238 SOLVAY-B	115	136707	IPGENBUS	13.8	1	NA					
40576	2826.9	3054.2	L: Interface 19 PJM-NY						-1110.6	-3114.0	-0.70871	-0.70871	-1050.7	-3054.2
			C:136269					1780						
			Open 136269 SOLVTAP2	115	147940	SOLVBRDG	115	1	NA					
			Open 136200 GERES LK	115	136269	SOLVTAP2	115	1		0.00108	-0.00016	91.5	91.0	
			Open 136238 SOLVAY-B	115	136269	SOLVTAP2	115	1	NA					
			Open 136238 SOLVAY-B	115	136602	SOLVAY34	34.5	1		-0.72187	0.00000	83.0	83.0	
			Open 136238 SOLVAY-B	115	136707	IPGENBUS	13.8	1	NA					
40578	2828.8	3055.5	L: 130824 LAPER115	115	136247	TULLER H	115	1	-56.1	-145.0	-0.03144	-0.01821	27.0	-24.5
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392					
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1		0.12317	-0.10740	-674.2	-978.0	
40580	2834.1	3059.3	L: Interface 35 NY-PJM						1105.4	3114.0	0.70871	0.70871	1050.7	3059.3
			C:147849 MOS 115	115	147866	REYN T#3	115	1	1263					
			Open 147849 MOS 115	115	147866	REYN T#3	115	1		0.67644	0.00000	80.8	80.8	
40581	2834.1	3059.3	L: Interface 19 PJM-NY						-1105.4	-3114.0	-0.70871	-0.70871	-1050.7	-3059.3
			C:147849 MOS 115	115	147866	REYN T#3	115	1	1263					
			Open 147849 MOS 115	115	147866	REYN T#3	115	1		-0.67644	0.00000	80.8	80.8	
40582	2836.4	3060.9	L: Interface 35 NY-PJM						1081.7	3114.0	0.71650	0.70871	1050.7	3060.9
			C:Q25BM					1638						
			Open 158104 HANONJ25	220	158123	NEALJQ25	220	1	NA					
			Open 157070 NWEST25J	220	158104	HANONJ25	220	1		0.14011	0.05744	260.2	423.1	
			Open 158123 NEALJQ25	220	158144	BURL J25	220	1		-0.01392	0.01898	457.7	511.6	
			Open 158071 MIDDLEDK2	220	158123	NEALJQ25	220	1		0.45897	0.00000	1.9	1.9	
			Open 158067 BURLINGT	220	158144	BURL J25	220	1		-0.00013	-0.01898	-355.6	-409.5	
40583	2836.4	3060.9	L: Interface 19 PJM-NY						-1081.7	-3114.0	-0.71650	-0.70871	-1050.7	-3060.9
			C:Q25BM					1638						
			Open 158104 HANONJ25	220	158123	NEALJQ25	220	1	NA					
			Open 157070 NWEST25J	220	158104	HANONJ25	220	1		-0.14011	0.05744	260.2	423.1	
			Open 158123 NEALJQ25	220	158144	BURL J25	220	1		0.01392	0.01898	457.7	511.6	
			Open 158071 MIDDLEDK2	220	158123	NEALJQ25	220	1		-0.45897	0.00000	1.9	1.9	
			Open 158067 BURLINGT	220	158144	BURL J25	220	1		0.00013	-0.01898	-355.6	-409.5	
40584	2837.2	3061.5	L: Interface 19 PJM-NY						-1081.5	-3114.0	-0.71639	-0.70871	-1050.7	-3061.5

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			C:Q23BM				1637									
			Open 158102 HANONJ23	220	158122	NEALJQ23	220	1		NA						
			Open 157069 NWEST23J	220	158102	HANONJ23	220	1			-0.13968	0.05683	258.3	419.5		
			Open 158122 NEALJQ23	220	158143	BURL J23	220	1			0.01377	0.01913	454.9	509.2		
			Open 158067 BURLINGT	220	158143	BURL J23	220	1			0.00013	-0.01913	-351.8	-406.0		
			Open 158071 MDDLDK2	220	158122	NEALJQ23	220	1			-0.45918	0.00000	1.9	1.9		
40585	2837.2	3061.5	L: Interface 35 NY-PJM						1081.5	3114.0	0.71639		0.70871	1050.7	3061.5	
			C:Q23BM				1637									
			Open 158102 HANONJ23	220	158122	NEALJQ23	220	1		NA						
			Open 157069 NWEST23J	220	158102	HANONJ23	220	1			0.13968	0.05683	258.3	419.5		
			Open 158122 NEALJQ23	220	158143	BURL J23	220	1			-0.01377	0.01913	454.9	509.2		
			Open 158067 BURLINGT	220	158143	BURL J23	220	1			-0.00013	-0.01913	-351.8	-406.0		
			Open 158071 MDDLDK2	220	158122	NEALJQ23	220	1			0.45918	0.00000	1.9	1.9		
40588	2847.3	3068.7	*L: Interface 35 NY-PJM						1066.0	3114.0	0.71929		0.70871	1050.7	3068.7	
			C:130754 KINTI345	345	147834	NIAG 345	345	1	204							
			Open 130754 KINTI345	345	147834	NIAG 345	345	1			0.07884	0.13419	193.0	575.1		
40589	2847.3	3068.7	*L: Interface 19 PJM-NY						-1066.0	-3114.0	-0.71929		-0.70871	-1050.7	-3068.7	
			C:130754 KINTI345	345	147834	NIAG 345	345	1	204							
			Open 130754 KINTI345	345	147834	NIAG 345	345	1			-0.07884	0.13419	193.0	575.1		
45539	2967.5	3153.8	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	84.3	637.0	0.18624		0.16671	57.8	552.5	
			C:SER:C398/NWES				1602									
			Open 409 GROVER	230	200675	E.TWANDA	230	1			-0.02437	-0.00247	-18.0	-25.3		
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.08022	0.24187	321.5	1039.3		
			Open 381 TOWANDA	115	200675	E.TWANDA	230	1			-0.00356	-0.01670	-84.0	-133.5		
45552	2969.1	3154.9	L: 130814 HILSD115	115	130844	RIDGR115	115	1	-40.1	-145.0	-0.03531		-0.02273	-11.1	-78.6	
			C:130830 MONTR115	115	130845	RIDGT115	115	1	334							
			Open 130830 MONTR115	115	130845	RIDGT115	115	1			-0.50610	0.02486	57.5	131.3		
45556	2970.1	3155.6	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	83.8	637.0	0.18626		0.16671	57.8	553.0	
			C:ETHS/LLGD				1646									
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.08081	0.24187	321.5	1039.9		
45557	2970.1	3155.6	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	83.8	637.0	0.18626		0.16671	57.8	553.0	
			C:130763 HILSD230	230	200675	E.TWANDA	230	1	1375							
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.08081	0.24187	321.5	1039.9		
45558	2970.1	3155.6	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	83.8	637.0	0.18626		0.16671	57.8	553.0	
			C:SER:ETHS/NWES				1603									
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.08081	0.24187	321.5	1039.9		
45559	2970.1	3155.6	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	83.8	637.0	0.18626		0.16671	57.8	553.0	
			C:ETHS/NWES/LLGD				1645									
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.08081	0.24187	321.5	1039.9		
45654	2996.7	3174.6	L: 130794 DELHI115	115	130804	DEL T115	115	1	-63.6	-164.0	-0.03352		-0.02856	-32.4	-118.0	
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392							
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1			0.04619	-0.10740	-674.2	-996.0		

PJM-NY

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, APR 30 2009 11:19
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From PJM_EXPORT To NYCA_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 23161 violations

Interface-1 Interface 19 PJM-NY Init.Flow= 1498.19 TDF= 0.7347

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
			C: Contingency description	Ncon	Flow	Rating	LODF	Init	Final
1	-4481.5	-1794.5	L: Interface 47 C-PJMWest C:130755 OAKDL345 345 130757 WATRC345 345 1 206 Open 130755 OAKDL345 345 130757 WATRC345 345 1	-477.5	0.0	-0.10656	-0.16739	-543.5	206.6
2	-4481.5	-1794.5	L: Interface 48 PJMWest-C C:130755 OAKDL345 345 130757 WATRC345 345 1 206 Open 130755 OAKDL345 345 130757 WATRC345 345 1	477.5	-0.0	0.10656	0.16739	543.5	-206.6
3	-3797.1	-1291.6	L: Interface 47 C-PJMWest C:KEY-SHELOCTA/BLAIRSVL-SOCIAL 1650 Open 505 SHELOCTA 230 521 KEYSTONE 230 1 Open 473 BLAIRSVL 138 235253 01SOCIAL 138 1	-565.8	0.0	-0.14901	-0.16739	-543.5	92.1
4	-3797.1	-1291.6	L: Interface 48 PJMWest-C C:KEY-SHELOCTA/BLAIRSVL-SOCIAL 1650 Open 505 SHELOCTA 230 521 KEYSTONE 230 1	565.8	-0.0	0.14901	0.16739	543.5	-92.1
			Open 505 SHELOCTA 230 521 KEYSTONE 230 1				0.16584	-0.10543	50.1 450.4

PJM-NY

	Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1		0.13926	-0.00647	100.2	124.8
5	-3781.0	-1279.8	L: Interface	48	PJMWest-C		629.8	0.0	0.16658		0.16739	543.5	-89.4
	C:HQ-NY-765-New							1776					
	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA				
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA				
	Open	147827	MARCY765	765	147833	MARCY T1	345	1		0.02483	-0.01752	624.7	691.0
	Open	147827	MARCY765	765	147833	MARCY T1	345	2		0.02483	-0.01524	543.6	601.2
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA				
	Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	0.01638	10.3	-51.6
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA				
	Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.05514	0.00000	18.8	18.8
	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA				
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA				
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA				
	Decrease bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch						
	Set bus	181319	CHAT G3	120	load to	357.0	MW dispatch						
	Decrease bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch						
	Set bus	181419	CHAT G4	120	load to	357.0	MW dispatch						
6	-3781.0	-1279.8	L: Interface	47	C-PJMWest		-629.8	-0.0	-0.16658		-0.16739	-543.5	89.4
	C:HQ-NY-765-New							1776					
	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA				
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA				
	Open	147827	MARCY765	765	147833	MARCY T1	345	1		-0.02483	-0.01752	624.7	691.0
	Open	147827	MARCY765	765	147833	MARCY T1	345	2		-0.02483	-0.01524	543.6	601.2
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA				
	Open	147838	MASS230B	230	147839	MOSES E	230	1		0.00000	0.01638	10.3	-51.6
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA				
	Open	147837	MASS230A	230	147839	MOSES E	230	1		0.05514	0.00000	18.8	18.8
	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA				
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA				
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA				
	Decrease bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch						
	Set bus	181319	CHAT G3	120	load to	357.0	MW dispatch						
	Decrease bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch						
	Set bus	181419	CHAT G4	120	load to	357.0	MW dispatch						
7	-3767.9	-1270.2	L: Interface	47	C-PJMWest		-596.0	-0.0	-0.15819		-0.16739	-543.5	87.2
	C:130755	OAKDL345	345	131128	LAPEER	345	1	209					
	Open	130755	OAKDL345	345	131128	LAPEER	345	1		0.09120	0.10093	-575.7	-956.0
8	-3767.9	-1270.2	L: Interface	48	PJMWest-C		596.0	0.0	0.15819		0.16739	543.5	-87.2
	C:130755	OAKDL345	345	131128	LAPEER	345	1	209					
	Open	130755	OAKDL345	345	131128	LAPEER	345	1		-0.09120	0.10093	-575.7	-956.0
9	-3763.5	-1266.9	L: Interface	47	C-PJMWest		-597.3	0.0	-0.15870		-0.16739	-543.5	86.4

PJM-NY

			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392											
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				0.08234	0.10557	-652.6	-1049.9					
10	-3763.5	-1266.9	L: Interface	48	PJMWest-C				597.3	-0.0	0.15870		0.16739	543.5	-86.4				
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392											
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				-0.08234	0.10557	-652.6	-1049.9					
11	-3728.1	-1241.0	L: Interface	48	PJMWest-C				624.1	0.0	0.16739		0.16739	543.5	-80.5				
			C:GEN:9 MI PT2					1561											
			Remove unit 2	from bus	136700 9M PT 2G	25.0		1197.5 MW	dispatch										
12	-3728.1	-1241.0	L: Interface	47	C-PJMWest				-624.1	-0.0	-0.16739		-0.16739	-543.5	80.5				
			C:GEN:9 MI PT2					1561											
			Remove unit 2	from bus	136700 9M PT 2G	25.0		1197.5 MW	dispatch										
13	-3654.0	-1186.5	L: Interface	47	C-PJMWest				-611.7	0.0	-0.16739		-0.16739	-543.5	68.1				
			C:SIN:250					1677											
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00000	0.00000	-0.1	-0.1					
			Remove unit 3	from bus	103563 MILL#3	24.0		1276.0 MW	dispatch										
14	-3654.0	-1186.5	L: Interface	48	PJMWest-C				611.7	-0.0	0.16739		0.16739	543.5	-68.1				
			C:SIN:250					1677											
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00000	0.00000	-0.1	-0.1					
			Remove unit 3	from bus	103563 MILL#3	24.0		1276.0 MW	dispatch										
15	-3653.5	-1186.2	L: Interface	48	PJMWest-C				611.6	0.0	0.16739		0.16739	543.5	-68.0				
			C:GEN:SEABROOK					1573											
			Remove unit 1	from bus	102869 SBRK G1	25.0		1318.0 MW	dispatch										
16	-3653.5	-1186.2	L: Interface	48	PJMWest-C				611.6	0.0	0.16739		0.16739	543.5	-68.0				
			C:GEN:SEAB&OMS					1575											
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00000	0.00000	-0.1	-0.1					
			Remove unit 1	from bus	102869 SBRK G1	25.0		1318.0 MW	dispatch										
17	-3653.5	-1186.2	L: Interface	47	C-PJMWest				-611.6	-0.0	-0.16739		-0.16739	-543.5	68.0				
			C:GEN:SEABROOK					1573											
			Remove unit 1	from bus	102869 SBRK G1	25.0		1318.0 MW	dispatch										
18	-3653.5	-1186.2	L: Interface	47	C-PJMWest				-611.6	-0.0	-0.16739		-0.16739	-543.5	68.0				
			C:GEN:SEAB&OMS					1575											
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00000	0.00000	-0.1	-0.1					
			Remove unit 1	from bus	102869 SBRK G1	25.0		1318.0 MW	dispatch										
19	-3621.6	-1162.7	*L: Interface	48	PJMWest-C				606.2	0.0	0.16739		0.16739	543.5	-62.7				
			C:GEN:MILLST 3					1572											
			Remove unit 3	from bus	103563 MILL#3	24.0		1276.0 MW	dispatch										
20	-3621.6	-1162.7	*L: Interface	47	C-PJMWest				-606.2	-0.0	-0.16739		-0.16739	-543.5	62.7				
			C:GEN:MILLST 3					1572											
			Remove unit 3	from bus	103563 MILL#3	24.0		1276.0 MW	dispatch										
49	-3451.9	-1038.1	L: Interface	55	PJME-NYEnoRE				1490.4	1287.0	0.05891		0.00000	1299.1	1299.1				
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374											
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.35195	-0.16739	-543.5	34.3					

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50	-3451.9	-1038.1	L: Interface	56 NYE-PJME	noRE				-1490.4	-1287.0	-0.05891		-0.00000	-1299.1	-1299.1	
			C:130757	WATRC345	345	200769	HOMER CY	345	1	1374						
			Open	130757	WATRC345	345	200769	HOMER CY	345	1			0.35195	-0.16739	-543.5	34.3
103	-3339.5	-955.4	L: Interface	56 NYE-PJME	noRE				-1388.1	-1287.0	-0.03026		-0.00000	-1299.1	-1299.1	
			C:SER:HC-SR_37&W-F_171												1600	
			Open	135398	SW345	345	200769	HOMER CY	345	1			0.21762	-0.10053	-378.4	-42.7
			Open	135277	FALCONER	115	200579	WARREN	115	1			0.18512	-0.04530	-35.9	115.4
104	-3339.5	-955.4	L: Interface	55 PJME-NYE	noRE				1388.1	1287.0	0.03026		0.00000	1299.1	1299.1	
			C:SER:HC-SR_37&W-F_171												1600	
			Open	135398	SW345	345	200769	HOMER CY	345	1			-0.21762	-0.10053	-378.4	-42.7
			Open	135277	FALCONER	115	200579	WARREN	115	1			-0.18512	-0.04530	-35.9	115.4
295	-3257.8	-895.4	L: Interface	51 G-PJME	East				-127.0	-0.0	-0.03897		-0.00000	-0.4	-0.4	
			C:130757	WATRC345	345	200769	HOMER CY	345	1	1374						
			Open	130757	WATRC345	345	200769	HOMER CY	345	1			0.23281	-0.16739	-543.5	1.8
296	-3257.8	-895.4	L: Interface	52 PJME	East-G				127.0	0.0	0.03897		0.00000	0.4	0.4	
			C:130757	WATRC345	345	200769	HOMER CY	345	1	1374						
			Open	130757	WATRC345	345	200769	HOMER CY	345	1			-0.23281	-0.16739	-543.5	1.8
3475	-3196.6	-850.5	L: Interface	55 PJME-NYE	noRE				1496.2	1287.0	0.06543		0.00000	1299.1	1299.1	
			C:SER:HC-WC_30&W-F_171												1601	
			Open	130757	WATRC345	345	200769	HOMER CY	345	1			-0.35346	-0.16739	-543.5	-8.4
			Open	135277	FALCONER	115	200579	WARREN	115	1			-0.13824	-0.04530	-35.9	108.9
3476	-3196.6	-850.5	L: Interface	56 NYE-PJME	noRE				-1496.2	-1287.0	-0.06543		-0.00000	-1299.1	-1299.1	
			C:SER:HC-WC_30&W-F_171												1601	
			Open	130757	WATRC345	345	200769	HOMER CY	345	1			0.35346	-0.16739	-543.5	-8.4
			Open	135277	FALCONER	115	200579	WARREN	115	1			0.13824	-0.04530	-35.9	108.9
3513	-3021.1	-721.5	L: Interface	51 G-PJME	East				-130.8	-0.0	-0.04330		-0.00000	-0.4	-0.4	
			C:SER:HC-WC_30&W-F_171												1601	
			Open	130757	WATRC345	345	200769	HOMER CY	345	1			0.23382	-0.16739	-543.5	-37.8
			Open	135277	FALCONER	115	200579	WARREN	115	1			0.09178	-0.04530	-35.9	100.9
3514	-3021.1	-721.5	L: Interface	52 PJME	East-G				130.8	0.0	0.04330		0.00000	0.4	0.4	
			C:SER:HC-WC_30&W-F_171												1601	
			Open	130757	WATRC345	345	200769	HOMER CY	345	1			-0.23382	-0.16739	-543.5	-37.8
			Open	135277	FALCONER	115	200579	WARREN	115	1			-0.09178	-0.04530	-35.9	100.9
3523	-2677.7	-469.2	L: Interface	56 NYE-PJME	noRE				-1485.4	-1287.0	-0.07408		-0.00000	-1299.1	-1299.1	
			C:SER:HCWC/NWES												1607	
			Open	130757	WATRC345	345	200769	HOMER CY	345	1			0.35975	-0.16739	-543.5	-95.3
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.21488	-0.06451	43.0	215.7
3524	-2677.7	-469.2	L: Interface	55 PJME-NYE	noRE				1485.4	1287.0	0.07408		0.00000	1299.1	1299.1	
			C:SER:HCWC/NWES												1607	
			Open	130757	WATRC345	345	200769	HOMER CY	345	1			-0.35975	-0.16739	-543.5	-95.3
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			-0.21488	-0.06451	43.0	215.7
3537	-2499.1	-338.0	L: Interface	52 PJME	East-G				123.5	-0.0	0.04943		0.00000	0.4	0.4	

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			C:SER:HCWC/NWES		1607									
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.23819	-0.16739	-543.5	-125.2	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.14809	-0.06451	43.0	204.2	
3538	-2499.1	-338.0	L: Interface 51 G-PJMEast						-123.5	0.0	-0.04943	-0.00000	-0.4	-0.4
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.23819	-0.16739	-543.5	-125.2	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.14809	-0.06451	43.0	204.2	
3539	-2394.2	-260.9	L: Interface 56 NYE-PJMENoRE						-1454.4	-1287.0	-0.06994	-0.00000	-1299.1	-1299.1
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755	OAKDL345	345	1		0.26904	-0.25996	-577.5	44.9	
3540	-2394.2	-260.9	L: Interface 55 PJME-NYEnoRE						1454.4	1287.0	0.06994	0.00000	1299.1	1299.1
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755	OAKDL345	345	1		-0.26904	-0.25996	-577.5	44.9	
3543	-2230.3	-140.5	L: Interface 52 PJMEast-G						107.8	0.0	0.04831	0.00000	0.4	0.4
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755	OAKDL345	345	1		-0.18585	-0.25996	-577.5	2.3	
3544	-2230.3	-140.5	L: Interface 51 G-PJMEast						-107.8	-0.0	-0.04831	-0.00000	-0.4	-0.4
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755	OAKDL345	345	1		0.18585	-0.25996	-577.5	2.3	
3545	-2138.9	-73.3	L: Interface 56 NYE-PJMENoRE						-1477.4	-1287.0	-0.08901	-0.00000	-1299.1	-1299.1
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.44167	-0.16739	-543.5	-185.5	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		0.19968	-0.07553	257.6	419.1	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.45967	0.00000	22.4	22.4	
3546	-2138.9	-73.3	L: Interface 55 PJME-NYEnoRE						1477.4	1287.0	0.08901	0.00000	1299.1	1299.1
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.44167	-0.16739	-543.5	-185.5	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.19968	-0.07553	257.6	419.1	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.45967	0.00000	22.4	22.4	
3547	-1983.8	40.6	L: Interface 51 G-PJMEast						-118.3	-0.0	-0.05962	-0.00000	-0.4	-0.4
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.29437	-0.16739	-543.5	-211.5	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		0.13699	-0.07553	257.6	407.4	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.30557	0.00000	22.4	22.4	
3548	-1983.8	40.6	L: Interface 52 PJMEast-G						118.3	0.0	0.05962	0.00000	0.4	0.4
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.29437	-0.16739	-543.5	-211.5	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.13699	-0.07553	257.6	407.4	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.30557	0.00000	22.4	22.4	
3549	-1275.8	560.8	L: Interface 55 PJME-NYEnoRE						1367.7	1287.0	0.06323	0.00000	1299.1	1299.1
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.26028	-0.24292	-263.5	46.4	

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3567	51.6	1536.1	L: Interface	52 PJMEast-G										
3568	51.6	1536.1	L: Interface	51 G-PJMEast										
3569	199.7	1644.9	L: Interface	49 C-PJMCentral										
3570	199.7	1644.9	L: Interface	50 PJMCentral-C										
3571	201.4	1646.1	L: Interface	49 C-PJMCentral										
3572	201.4	1646.1	L: Interface	50 PJMCentral-C										
3573	210.5	1652.8	L: Interface	50 PJMCentral-C										
3574	210.5	1652.8	L: Interface	49 C-PJMCentral										
3575	234.4	1670.4	L: Interface	50 PJMCentral-C										
3576	234.4	1670.4	L: Interface	49 C-PJMCentral										

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			Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.14495	-0.16739	-543.5	-582.8		
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.20645	-0.07553	257.6	239.9		
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.14892	0.00000	22.4	22.4		
3577	362.4	1764.4	L: 135277 FALCONER	115	200579 WARREN	115	1		-94.0	-116.0	-0.06073	-0.04530	-35.9	-52.3
			C:135398 SW345	345	200769 HOMER CY	345	1	1380						
			Open 135398 SW345	345	200769 HOMER CY	345	1		0.15350	-0.10053	-378.4	-414.8		
3578	372.2	1771.6	L: Interface	49	C-PJMCentral				107.9	0.0	-0.28980	-0.28980	198.6	90.7
			C:GEN:9 MI PT2				1561							
			Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5	MW dispatch						
3579	372.2	1771.6	L: Interface	50	PJMCentral-C				-107.9	-0.0	0.28980	0.28980	-198.6	-90.7
			C:GEN:9 MI PT2				1561							
			Remove unit 2	from bus 136700	9M PT 2G	25.0	1197.5	MW dispatch						
3580	393.9	1787.6	L: Interface	49	C-PJMCentral				114.0	0.0	-0.28927	-0.28980	198.6	84.4
			C:HQ-NY-765-New				1776							
			Open 147827 MARCY765	765	147828 MASS 765	765	1		NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.01633	-0.01752	624.7	617.8	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.01633	-0.01524	543.6	537.6	
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1		NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	0.01638	10.3	16.8	
			Open 147828 MASS 765	765	147838 MASS230B	230	1		NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.05989	0.00000	18.8	18.8	
			Open 147828 MASS 765	765	147837 MASS230A	230	1		NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1		NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1		NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
3581	393.9	1787.6	L: Interface	50	PJMCentral-C				-114.0	-0.0	0.28927	0.28980	-198.6	-84.4
			C:HQ-NY-765-New				1776							
			Open 147827 MARCY765	765	147828 MASS 765	765	1		NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.01633	-0.01752	624.7	617.8	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.01633	-0.01524	543.6	537.6	
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1		NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	0.01638	10.3	16.8	
			Open 147828 MASS 765	765	147838 MASS230B	230	1		NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.05989	0.00000	18.8	18.8	
			Open 147828 MASS 765	765	147837 MASS230A	230	1		NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1		NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1		NA					

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				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch					
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch					
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch					
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch					
3582	450.7	1829.3	L:	Interface 49 C-PJMCentral			130.6	0.0	-0.28980	-0.28980	198.6	68.0	
				C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78				
				Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1		-0.06789	0.00000	1001.1	1001.1
3583	450.7	1829.3	L:	Interface 50 PJMCentral-C			-130.6	-0.0	0.28980	0.28980	-198.6	-68.0	
				C:126250 RAMAPO 5	500	126296 RAM PAR	345	1	78				
				Open 126250 RAMAPO 5	500	126296 RAM PAR	345	1		0.06789	0.00000	1001.1	1001.1
3584	450.7	1829.3	L:	Interface 50 PJMCentral-C			-130.6	-0.0	0.28980	0.28980	-198.6	-68.0	
				C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351				
				Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1		0.06789	0.00000	1001.1	1001.1
3585	450.7	1829.3	L:	Interface 49 C-PJMCentral			130.6	0.0	-0.28980	-0.28980	198.6	68.0	
				C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351				
				Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1		-0.06789	0.00000	1001.1	1001.1
3588	493.1	1860.5	L:	Interface 49 C-PJMCentral			138.1	0.0	-0.28001	-0.28980	198.6	55.7	
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392				
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1		0.09272	0.10557	-652.6	-600.5
3589	493.1	1860.5	L:	Interface 50 PJMCentral-C			-138.1	-0.0	0.28001	0.28980	-198.6	-55.7	
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392				
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1		-0.09272	0.10557	-652.6	-600.5
3590	500.6	1866.0	*L:	Interface 49 C-PJMCentral			143.7	-0.0	-0.28703	-0.28980	198.6	53.5	
				C:GEN:FITZPATR								1559	
				Open 136155 SCRIBA	345	147830 JA FITZP	345	1		0.01356	0.07790	-67.9	-28.9
				Open 137200 EDIC	345	147830 JA FITZP	345	1		0.07386	0.02326	43.5	55.1
				Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8 MW dispatch							
3591	500.6	1866.0	*L:	Interface 50 PJMCentral-C			-143.7	0.0	0.28703	0.28980	-198.6	-53.5	
				C:GEN:FITZPATR								1559	
				Open 136155 SCRIBA	345	147830 JA FITZP	345	1		-0.01356	0.07790	-67.9	-28.9
				Open 137200 EDIC	345	147830 JA FITZP	345	1		-0.07386	0.02326	43.5	55.1
				Remove unit 1 from bus 147797 JAFITZ1G	24.0	886.8 MW dispatch							
3688	647.8	1974.1	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1281.0	-1331.0	-0.07712	
				Base Case									
3715	656.6	1980.6	L:	Interface 51 G-PJMEast			48.0	-0.0	-0.07306	-0.00000	-0.4	-0.4	
				C:SER:C398/NWES								1605	
				Open 409 GROVER	230	200675 E.TWANDA	230	1		0.02734	0.00285	-15.6	-13.7
				Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.30865	-0.17264	117.6	4.3
				Open 381 TOWANDA	115	200675 E.TWANDA	230	1		0.01228	-0.00980	-52.1	-58.6
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.30588	-0.06451	43.0	0.6
3716	656.6	1980.6	L:	Interface 52 PJMEast-G			-48.0	0.0	0.07306	0.00000	0.4	0.4	
				C:SER:C398/NWES								1605	

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			Open	409	GROVER	230	200675	E.TWANDA	230	1		-0.02734	0.00285	-15.6	-13.7	
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		-0.30865	-0.17264	117.6	4.3	
			Open	381	TOWANDA	115	200675	E.TWANDA	230	1		-0.01228	-0.00980	-52.1	-58.6	
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1		-0.30588	-0.06451	43.0	0.6	
3785	669.9	1990.4	*L: Interface	52	PJMEast-G						-24.5	0.0	0.03657	0.00000	0.4	0.4
			C:130763	HILSD230	230	200675	E.TWANDA	230	1	1375						
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		-0.21186	-0.17264	117.6	2.0	
3786	669.9	1990.4	*L: Interface	51	G-PJMEast						24.5	-0.0	-0.03657	-0.00000	-0.4	-0.4
			C:130763	HILSD230	230	200675	E.TWANDA	230	1	1375						
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1		0.21186	-0.17264	117.6	2.0	
7117	934.0	2184.5	L: Interface	14	Leeds-PV						2522.1	2662.0	0.14980			
			Base Case													
7118	935.3	2185.4	L: 135277	FALCONER	115	200579	WARREN	115	1		-49.1	-116.0	-0.07152	-0.04530	-35.9	-78.3
			C:135250	DUNKIRK	230	135251	S RIPLEY	230	1	422						
			Open	135250	DUNKIRK	230	135251	S RIPLEY	230	1		0.20334	-0.12896	-64.9	-185.5	
7121	967.0	2208.7	L: 126266	DUNWODIE	345	128835	SHORE RD	345	1		474.0	599.0	0.12924			
			Base Case													
7122	979.1	2217.5	L: Interface	35	NY-PJM						-2394.6	-3114.0	-0.73473	-0.73473	-1498.2	-2217.5
			C:GEN:SEAB&OMS							1575						
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2		0.00004	0.00000	-0.1	-0.1	
			Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch						
7123	979.1	2217.5	L: Interface	19	PJM-NY						2394.6	3114.0	0.73473	0.73473	1498.2	2217.5
			C:GEN:SEABROOK							1573						
			Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch						
7124	979.1	2217.5	L: Interface	19	PJM-NY						2394.6	3114.0	0.73473	0.73473	1498.2	2217.5
			C:GEN:SEAB&OMS							1575						
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1	
			Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch						
7125	979.1	2217.5	L: Interface	35	NY-PJM						-2394.6	-3114.0	-0.73473	-0.73473	-1498.2	-2217.5
			C:GEN:SEABROOK							1573						
			Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch						
7126	984.9	2221.8	L: Interface	35	NY-PJM						-2390.4	-3114.0	-0.73473	-0.73473	-1498.2	-2221.8
			C:SIN:250							1677						
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2		0.00004	0.00000	-0.1	-0.1	
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch						
7127	984.9	2221.8	L: Interface	19	PJM-NY						2390.4	3114.0	0.73473	0.73473	1498.2	2221.8
			C:SIN:250							1677						
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1	
			Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch						
7128	1000.9	2233.6	L: Interface	35	NY-PJM						-2378.6	-3114.0	-0.73473	-0.73473	-1498.2	-2233.6
			C:GEN:MLS3&OMS							1574						
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2		0.00004	0.00000	-0.1	-0.1	

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			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
7129	1000.9	2233.6	L: Interface 19 PJM-NY					2378.6	3114.0	0.73473	0.73473	1498.2	2233.6
			C:GEN:MLS3&OMS										
			Open 100508 SANDB115 115 100509 SB RCTOR	115	2					-0.00004	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
7130	1000.9	2233.6	L: Interface 35 NY-PJM					-2378.6	-3114.0	-0.73473	-0.73473	-1498.2	-2233.6
			C:GEN:MILLST 3										
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
7131	1000.9	2233.6	L: Interface 19 PJM-NY					2378.6	3114.0	0.73473	0.73473	1498.2	2233.6
			C:GEN:MILLST 3										
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
7132	1004.7	2236.4	L: 135277 FALCONER 115 200579 WARREN	115	1			-65.6	-116.0	-0.05017	-0.04530	-35.9	-81.4
			C:135398 SW345 345 135564 SW115	115	1	517							
			Open 135398 SW345 345 135564 SW115	115	1					-0.20297	0.02401	146.2	170.4
7133	1069.1	2283.7	L: Interface 19 PJM-NY					2333.6	3114.0	0.72995	0.73473	1498.2	2283.7
			C:HQ-NY-765-New										
			Open 147827 MARCY765 765 147828 MASS 765	765	1		NA						
			Open 147828 MASS 765 765 180819 CHA-NY	765	1		NA						
			Open 147827 MARCY765 765 147833 MARCY T1	345	1					0.14597	-0.01752	624.7	606.0
			Open 147827 MARCY765 765 147833 MARCY T1	345	2					0.14597	-0.01524	543.6	527.3
			Open 156 MCY765SW 0.0 147827 MARCY765	765	1		NA						
			Open 147838 MASS230B 230 147839 MOSES E	230	1					-0.00000	0.01638	10.3	27.8
			Open 147828 MASS 765 765 147838 MASS230B	230	1		NA						
			Open 147837 MASS230A 230 147839 MOSES E	230	1					-0.61013	0.00000	18.8	18.8
			Open 147828 MASS 765 765 147837 MASS230A	230	1		NA						
			Open 158 MS765SW2 0.0 147828 MASS 765	765	1		NA						
			Open 157 MS765SW1 0.0 147828 MASS 765	765	1		NA						
			Decrease bus 180001 BEA-DLX 13.8 generation by					100.0					
			Set bus 181319 CHAT G3 120 load to					357.0					
			Decrease bus 180002 BEA-DL 13.8 generation by					100.0					
			Set bus 181419 CHAT G4 120 load to					357.0					
7134	1069.1	2283.7	L: Interface 35 NY-PJM					-2333.6	-3114.0	-0.72995	-0.73473	-1498.2	-2283.7
			C:HQ-NY-765-New										
			Open 147827 MARCY765 765 147828 MASS 765	765	1		NA						
			Open 147828 MASS 765 765 180819 CHA-NY	765	1		NA						
			Open 147827 MARCY765 765 147833 MARCY T1	345	1					-0.14597	-0.01752	624.7	606.0
			Open 147827 MARCY765 765 147833 MARCY T1	345	2					-0.14597	-0.01524	543.6	527.3
			Open 156 MCY765SW 0.0 147827 MARCY765	765	1		NA						
			Open 147838 MASS230B 230 147839 MOSES E	230	1					0.00000	0.01638	10.3	27.8
			Open 147828 MASS 765 765 147838 MASS230B	230	1		NA						
			Open 147837 MASS230A 230 147839 MOSES E	230	1					0.61013	0.00000	18.8	18.8
			Open 147828 MASS 765 765 147837 MASS230A	230	1		NA						

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			Open	158	MS765SW2	0.0	147828	MASS	765	765	1	NA							
			Open	157	MS765SW1	0.0	147828	MASS	765	765	1	NA							
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch							
			Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch							
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch							
			Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch							
7137	1135.0	2332.1	L:	135277	FALCONER	115	200579	WARREN	115	1			-32.8	-116.0	-0.07328		-0.04530	-35.9	-87.3
			C:	SER:	EESR/NWES					1608									
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1			0.20363	-0.13170		11.3	-138.2		
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.01801	-0.06451		43.0	-30.2		
7138	1143.1	2338.0	L:	135277	FALCONER	115	200579	WARREN	115	1			-33.6	-116.0	-0.07208		-0.04530	-35.9	-87.7
			C:	135251	S RIPLEY	230	200654	ERIE E	230	1	1378								
			Open	135251	S RIPLEY	230	200654	ERIE E	230	1			0.20334	-0.13170		11.3	-139.2		
7139	1151.9	2344.6	L:	Interface	19	PJM-NY							2267.6	3114.0	0.73473		0.73473	1498.2	2344.6
			C:	GEN:	IND	PT 3				1555									
			Remove	unit	1	from	bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch					
7140	1151.9	2344.6	L:	Interface	35	NY-PJM							-2267.6	-3114.0	-0.73473		-0.73473	-1498.2	-2344.6
			C:	GEN:	IND	PT 3				1555									
			Remove	unit	1	from	bus	147798	IP#3	GEN	22.0	1072.8	MW	dispatch					
7141	1165.7	2354.7	L:	Interface	35	NY-PJM							-2257.5	-3114.0	-0.73473		-0.73473	-1498.2	-2354.7
			C:	GEN:	IND	PT 2				1554									
			Remove	unit	2	from	bus	126651	IND	PT 2	22.0	1053.7	MW	dispatch					
7142	1165.7	2354.7	L:	Interface	19	PJM-NY							2257.5	3114.0	0.73473		0.73473	1498.2	2354.7
			C:	GEN:	IND	PT 2				1554									
			Remove	unit	2	from	bus	126651	IND	PT 2	22.0	1053.7	MW	dispatch					
7143	1174.4	2361.1	L:	Interface	35	NY-PJM							-2251.1	-3114.0	-0.73473		-0.73473	-1498.2	-2361.1
			C:	GEN:	9	MI PT2				1561									
			Remove	unit	2	from	bus	136700	9M	PT 2G	25.0	1197.5	MW	dispatch					
7144	1174.4	2361.1	L:	Interface	19	PJM-NY							2251.1	3114.0	0.73473		0.73473	1498.2	2361.1
			C:	GEN:	9	MI PT2				1561									
			Remove	unit	2	from	bus	136700	9M	PT 2G	25.0	1197.5	MW	dispatch					
7145	1214.1	2390.2	*L:	Interface	35	NY-PJM							-2245.4	-3114.0	-0.71545		-0.73473	-1498.2	-2390.2
			C:	GEN:	IND	PT 3-New				1773									
			Open	147798	IP#3	GEN	22.0	147832	IP3	345	345	1		0.00000	-0.01351		522.5	506.1	
			Open	147798	IP#3	GEN	22.0	147832	IP3	345	345	2		0.71720	0.02688		-1041.8	-1009.1	
7146	1214.1	2390.2	*L:	Interface	19	PJM-NY							2245.4	3114.0	0.71545		0.73473	1498.2	2390.2
			C:	GEN:	IND	PT 3-New				1773									
			Open	147798	IP#3	GEN	22.0	147832	IP3	345	345	1		0.00000	-0.01351		522.5	506.1	
			Open	147798	IP#3	GEN	22.0	147832	IP3	345	345	2		-0.71720	0.02688		-1041.8	-1009.1	
7149	1237.8	2407.7	L:	126294	PLTVLLEY	345	137455	ATHENS	345	1			-1241.0	-1331.0	-0.07267				
			Base	Case															
7154	1263.3	2426.4	L:	130757	WATRC345	345	200769	HOMER	CY	345	1		-543.5	-755.0	-0.16739				

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			Base Case											
7155	1263.3	2426.4	L: Interface	48	PJMWest-C	543.5	755.0	0.16739						
			Base Case											
7156	1263.3	2426.4	L: Interface	47	C-PJMWest	-543.5	-755.0	-0.16739						
			Base Case											
7157	1324.7	2471.5	L: 131018 LOUNDS115	115	131850 CNYOG115	115	1	46.7	143.0	0.07271	0.04689	18.7	80.8	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.10628	-0.24292	-263.5	-585.3
7158	1345.5	2486.8	L: 135277 FALCONER	115	200579 WARREN	115	1	-55.1	-116.0	-0.04530	-0.04530	-35.9	-96.9	
			C:GEN:9 MI PT2											
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW	dispatch								
7159	1351.5	2491.2	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-44.7	-143.0	-0.07271	-0.04689	-16.7	-80.1	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.10628	-0.24292	-263.5	-591.8
7160	1359.8	2497.3	L: 130757 WATRC345	345	130768 WATRC230	230	1	455.1	600.0	0.10656	-0.07553	257.6	154.9	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.74956	-0.24292	-263.5	-593.9
7161	1362.3	2499.1	L: 135277 FALCONER	115	200579 WARREN	115	1	-54.2	-116.0	-0.04539	-0.04530	-35.9	-97.6	
			C:HQ-NY-765-New											
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				0.00291	-0.01752	624.7	600.8
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				0.00291	-0.01524	543.6	522.9
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1				-0.00000	0.01638	10.3	32.7
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1				0.02013	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
7162	1385.5	2516.1	L: Interface	26	ONTARIO-MICH	367.5	0.0	-0.26527			-0.26527	736.0	368.5	
			C:GEN:BRUCE 6											
			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5 MW	dispatch								
7163	1391.7	2520.7	L: 130817 JENN 115	115	130819 KATEL115	115	1	-107.6	-159.0	-0.03690	-0.02063	-71.5	-100.2	
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				0.06259	-0.25996	-577.5	-939.3
7164	1399.4	2526.3	L: 135277 FALCONER	115	200579 WARREN	115	1	-53.2	-116.0	-0.04486	-0.04530	-35.9	-99.3	
			C:GEN:KINTIGH-New											

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				Open 130754 KINTI345	345	130873 KINTIG24	24.0	1		0.00000	0.00732	-288.5	-278.2	
				Open 130754 KINTI345	345	130873 KINTIG24	24.0	2		0.02998	0.01466	-577.7	-557.2	
7165	1403.4	2529.3	L:	130794 DELHI115	115	130804 DEL T115	115	1	68.4	164.0	0.06813	0.03757	0.5	53.2
			C:	130753 FRASR345	345	130755 OAKDL345	345	1	200					
				Open 130753 FRASR345	345	130755 OAKDL345	345	1		-0.11754	-0.25996	-577.5	-942.4	
7166	1425.0	2545.2	L:	135277 FALCONER	115	200579 WARREN	115	1	-51.5	-116.0	-0.04530	-0.04530	-35.9	-100.5
			C:	GEN:BRUCE 6					1564					
				Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5 MW	dispatch							
7167	1441.0	2556.9	*L:	135277 FALCONER	115	200579 WARREN	115	1	-50.7	-116.0	-0.04530	-0.04530	-35.9	-101.2
			C:	GEN:GINNA					1562					
				Remove unit 1 from bus 149140 GINNA 19	19.0	605.0 MW	dispatch							
7175	1525.1	2618.7	L:	Interface 26 ONTARIO-MICH					398.7	-0.0	-0.26145	-0.26527	736.0	331.4
			C:	LAMBT7/LAMBGEN					1646					
				Open 160050 LAMB L4D	345	B\$1020 LAMBTON T7	1.00	T7		0.06606	0.05780	-234.0	-145.8	
				Open 160064 LAMB T78	220	B\$1020 LAMBTON T7	1.00	T7		0.72540	0.00000	0.3	0.3	
				Set bus 160705 LAMBTNG4	24.0	generation to	0.0	MW dispatch						
7176	1525.6	2619.1	L:	Interface 26 ONTARIO-MICH					398.9	0.0	-0.26149	-0.26527	736.0	331.3
			C:	LAMBT8/LAMBGEN					1647					
				Open 160050 LAMB L4D	345	B\$1021 LAMBTON T8	1.00	T8		0.06583	0.05736	-232.1	-144.6	
				Open 160064 LAMB T78	220	B\$1021 LAMBTON T8	1.00	T8		0.72556	0.00000	0.4	0.4	
				Set bus 160705 LAMBTNG4	24.0	generation to	0.0	MW dispatch						
7185	1568.8	2650.9	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1577.7	-1725.0	-0.09389	-0.07712	-1281.0	-1402.0
			C:	125000 HURLEY 3	345	137451 LEEDS 3	345	1	3					
				Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1		0.32992	-0.05083	-899.2	-978.9	
7202	1634.1	2698.8	L:	130750 COOPC345	345	130753 FRASR345	345	1	-997.1	-1207.0	-0.12847			
				Base Case										
7224	1681.2	2733.4	L:	Interface 26 ONTARIO-MICH					439.6	-0.0	-0.26145	-0.26527	736.0	290.0
			C:	L4D+G3					1644					
				Open 160050 LAMB L4D	345	B\$1020 LAMBTON T7	1.00	T7		0.06606	0.05780	-234.0	-136.8	
				Open 160064 LAMB T78	220	B\$1020 LAMBTON T7	1.00	T7		0.72540	0.00000	0.3	0.3	
				Open 160069 LAMBTPK2	220	160704 LAMBTNG3	24.0	T3		0.65716	0.00000	62.1	62.1	
				Remove unit 1 from bus 160704 LAMBTNG3	24.0	490.0 MW	dispatch							
7225	1681.7	2733.8	L:	Interface 26 ONTARIO-MICH					439.8	0.0	-0.26149	-0.26527	736.0	289.9
			C:	L51D+G3					1645					
				Open 160050 LAMB L4D	345	B\$1021 LAMBTON T8	1.00	T8		0.06583	0.05736	-232.1	-135.6	
				Open 160064 LAMB T78	220	B\$1021 LAMBTON T8	1.00	T8		0.72556	0.00000	0.4	0.4	
				Open 160069 LAMBTPK2	220	160704 LAMBTNG3	24.0	T3		0.65727	0.00000	62.1	62.1	
				Remove unit 1 from bus 160704 LAMBTNG3	24.0	490.0 MW	dispatch							
7230	1688.5	2738.8	L:	130836 N.WAV115	115	131018 LOUNS115	115	1	50.2	173.0	0.07271	0.04689	22.2	101.4
			C:	130755 OAKDL345	345	130757 WATRC345	345	1	206					
				Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.10628	-0.24292	-263.5	-673.7	
7262	1734.8	2772.8	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1566.9	-1725.0	-0.09111	-0.07712	-1281.0	-1414.8

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			C:SIN:430							1682							
			Open 125002 ROSETON	345	126281	FISHKILL	345	1									
7263	1734.8	2772.8	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1566.9	-1725.0	-0.09111	-0.07712	-1281.0	-1414.8			
			C:125002 ROSETON	345	126281	FISHKILL	345	1							10		
			Open 125002 ROSETON	345	126281	FISHKILL	345	1									
8897	1833.9	2845.6	L: 130819 KATEL115	115	130838	OAKDL115	115	1	-124.3	-192.0	-0.03690	-0.02063	-88.2	-126.0			
			C:130753 FRASR345	345	130755	OAKDL345	345	1							200		
			Open 130753 FRASR345	345	130755	OAKDL345	345	1									
8918	1854.9	2861.0	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	695.8	783.0	0.04702						
			Base Case														
8919	1854.9	2861.0	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	695.8	783.0	0.04702						
			Base Case														
8939	1870.2	2872.3	L: Interface 26 ONTARIO-MICH						504.4	0.0	-0.26971	-0.26527	736.0	239.9			
			C:HQ-NY-765-New														
			Open 147827 MARCY765	765	147828	MASS 765	765	1									
			Open 147828 MASS 765	765	180819	CHA-NY	765	1									
			Open 147827 MARCY765	765	147833	MARCY T1	345	1									
			Open 147827 MARCY765	765	147833	MARCY T1	345	2									
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1									
			Open 147838 MASS230B	230	147839	MOSES E	230	1									
			Open 147828 MASS 765	765	147838	MASS230B	230	1									
			Open 147837 MASS230A	230	147839	MOSES E	230	1									
			Open 147828 MASS 765	765	147837	MASS230A	230	1									
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1									
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1									
			Decrease bus 180001 BEA-DLX	13.8	generation by		100.0										
			Set bus 181319 CHAT G3	120	load to		357.0										
			Decrease bus 180002 BEA-DL	13.8	generation by		100.0										
			Set bus 181419 CHAT G4	120	load to		357.0										
8959	1911.8	2902.8	L: Interface 14 Leeds-PV						3101.0	3450.0	0.18253	0.14980	2522.1	2808.5			
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1							3		
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1									
8960	1915.4	2905.5	L: 130807 GOUDY115	115	130848	S.OWE115	115	1	-3.7	-143.0	-0.07271	-0.04689	24.3	-65.5			
			C:130755 OAKDL345	345	130757	WATRC345	345	1							206		
			Open 130755 OAKDL345	345	130757	WATRC345	345	1									
8963	1917.5	2907.0	L: 130801 PAVMT115	115	130857	STOLE115	115	1	-100.4	-179.0	-0.04099	-0.02910	-76.0	-131.8			
			C:130857 STOLE115	115	130858	GIRD115	115	1							367		
			Open 130857 STOLE115	115	130858	GIRD115	115	1									
8965	1925.1	2912.6	L: 131018 LOUNS115	115	131850	CNYOG115	115	1	16.6	143.0	0.06566	0.04689	18.7	108.9			
			C:BUS:WATERCURE_345														
			Open 130757 WATRC345	345	200769	HOMER CY	345	1									
			Open 130757 WATRC345	345	130768	WATRC230	230	1									

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				Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.05534	0.00000	22.4	22.4
8966	1925.6	2913.0	L:	130817 JENN 115	115	130851 SIDNT115	115	1	53.9	120.0	0.03435		0.01903	19.8	56.5
				C:130753 FRASR345	345	130755 OAKDL345	345	1							
				Open 130753 FRASR345	345	130755 OAKDL345	345	1							
8967	1928.4	2915.0	L:	Interface 26 ONTARIO-MICH					511.5	0.0	-0.26527		-0.26527	736.0	224.5
				C:GEN:9 MI PT2											
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5 MW									
8972	1951.3	2931.9	L:	Interface 53 PJME-NYE					621.4	787.0	0.08486		-0.00000	451.8	451.8
				C:BUS:WATERCURE_345											
				Open 130757 WATRC345	345	200769 HOMER CY	345	1							
				Open 130757 WATRC345	345	130768 WATRC230	230	1							
				Open 130755 OAKDL345	345	130757 WATRC345	345	1							
8973	1951.3	2931.9	L:	Interface 54 NYE-PJME					-621.4	-787.0	-0.08486		0.00000	-451.8	-451.8
				C:BUS:WATERCURE_345											
				Open 130757 WATRC345	345	200769 HOMER CY	345	1							
				Open 130757 WATRC345	345	130768 WATRC230	230	1							
				Open 130755 OAKDL345	345	130757 WATRC345	345	1							
8974	1954.8	2934.4	L:	130848 S.OWE115	115	131850 CNYOG115	115	1	-14.7	-143.0	-0.06566		-0.04689	-16.7	-108.4
				C:BUS:WATERCURE_345											
				Open 130757 WATRC345	345	200769 HOMER CY	345	1							
				Open 130757 WATRC345	345	130768 WATRC230	230	1							
				Open 130755 OAKDL345	345	130757 WATRC345	345	1							
8977	1960.4	2938.6	L:	Interface 26 ONTARIO-MICH					520.0	-0.0	-0.26527		-0.26527	736.0	216.0
				C:GEN:NANTCK 8											
				Remove unit 1 from bus 158743 NANTICG8	22.0	490.0 MW									
8978	1962.8	2940.4	L:	Interface 26 ONTARIO-MICH					520.7	-0.0	-0.26527		-0.26527	736.0	215.3
				C:GEN:PICKER 6											
				Remove unit 1 from bus 156683 PIC B G5	24.0	510.9 MW									
8979	1970.0	2945.6	L:	126266 DUNWODIE	345	126601 REAC72	345	SR	691.0	783.0	0.04669				
				Base Case											
8980	1970.0	2945.6	L:	126601 REAC72	345	126641 MOTT HAVEN	345	4	691.0	783.0	0.04669				
				Base Case											
8985	1990.3	2960.5	L:	131018 LOUNS115	115	131850 CNYOG115	115	1	18.7	112.0	0.04689				
				Base Case											
8986	1991.1	2961.1	L:	Interface 53 PJME-NYE					514.6	787.0	0.13679		-0.00000	451.8	451.8
				C:LKWANA-OXBW											
				Open 417 OXBOW	230	3070 LACKAWNA	230	1							
8987	1991.1	2961.1	L:	Interface 54 NYE-PJME					-514.6	-787.0	-0.13679		0.00000	-451.8	-451.8
				C:LKWANA-OXBW											
				Open 417 OXBOW	230	3070 LACKAWNA	230	1							
8991	2021.2	2983.2	L:	131018 LOUNS115	115	131850 CNYOG115	115	1	29.3	143.0	0.05623		0.04689	18.7	113.4
				C:130768 WATRC230	230	130772 SHRED230	230	1							

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			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.15025	0.06217	71.0	196.7
8994	2031.9	2991.1	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-16.7	-112.0	-0.04689			
			Base Case										
8997	2033.4	2992.2	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	28.7	143.0	0.05623	0.04689	18.7	114.0
			C:SER:OAKDALE_WATRC230				1594						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.15025	0.06217	71.0	197.5
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			-0.10162	0.00000	6.8	6.8
8998	2034.5	2993.0	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	-11.0	143.0	0.07569	0.04689	18.7	114.1
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.24198	0.06217	71.0	197.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.18211	-0.07553	257.6	103.9
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.12849	0.00000	0.5	0.5
8999	2038.5	2996.0	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	28.4	143.0	0.05623	0.04689	18.7	114.3
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222					
			Open 130765 OAKDL230	230	130772 SHRED230	230	1			-0.15025	-0.06217	-64.5	-191.3
9000	2039.2	2996.5	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	28.3	143.0	0.05623	0.04689	18.7	114.3
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			0.15025	0.06217	64.3	191.0
9007	2055.8	3008.7	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-27.4	-143.0	-0.05623	-0.04689	-16.7	-113.1
			C:130768 WATRC230	230	130772 SHRED230	230	1	227					
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.15025	0.06217	71.0	198.8
9008	2059.0	3011.0	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	4.4	143.0	0.06734	0.04689	18.7	115.2
			C:ETHS/LLGD				1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.06154	-0.17264	117.6	-237.8
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			-0.18664	-0.05265	38.0	-70.4
9009	2060.2	3011.9	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	12.9	-143.0	-0.07569	-0.04689	-16.7	-113.3
			C:BUS:WATERCURE_230				1633						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.24198	0.06217	71.0	199.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.18211	-0.07553	257.6	102.0
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.12849	0.00000	0.5	0.5
9012	2061.3	3012.7	L: 130836 N.WAV115	115	200676 E.SAYRE	115	1	43.0	-90.0	-0.06451			
			Base Case										
9015	2068.0	3017.7	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.7	-143.0	-0.05623	-0.04689	-16.7	-113.7
			C:SER:OAKDALE_WATRC230				1594						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.15025	0.06217	71.0	199.6
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			0.10162	0.00000	6.8	6.8
9022	2073.2	3021.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.05623	-0.04689	-16.7	-113.9
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222					
			Open 130765 OAKDL230	230	130772 SHRED230	230	1			0.15025	-0.06217	-64.5	-193.4
9023	2073.9	3022.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.05623	-0.04689	-16.7	-114.0

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			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223												
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1						-0.15025	0.06217	64.3	193.2				
9024	2074.8	3022.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2						-1472.2	-1725.0	-0.12182					
			C:137451 LEEDS 3	345	137455 ATHENS	345	1	1006												
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1													
9025	2082.7	3028.4	*L: Interface	26	ONTARIO-MICH								552.5	-0.0	-0.26527					
			C:GEN:SEABROOK					1573												
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch											
9029	2087.9	3032.2	L: 130848 S.OWE115	115	131850 CNYOG115	115	1						-2.4	-143.0	-0.06734					
			C:ETHS/LLGD					1649												
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1						0.06154	-0.17264	117.6	-242.8				
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1						0.18664	-0.05265	38.0	-72.0				
9030	2089.0	3033.0	L: Interface	14	Leeds-PV								3080.0	3450.0	0.17710					
			C:125002 ROSETON	345	126281 FISHKILL	345	1	10												
			Open 125002 ROSETON	345	126281 FISHKILL	345	1						0.37040	0.07370	1506.4	1660.3				
9031	2089.0	3033.0	L: Interface	14	Leeds-PV								3080.0	3450.0	0.17710					
			C:SIN:430					1682												
			Open 125002 ROSETON	345	126281 FISHKILL	345	1						0.37040	0.07370	1506.4	1660.3				
9154	2171.0	3093.3	L: 131018 LOUNS115	115	131850 CNYOG115	115	1						-18.5	143.0	0.07437					
			C:130763 HILSD230	230	130768 WATRC230	230	1	219												
			Open 130763 HILSD230	230	130768 WATRC230	230	1						0.19959	0.13770	-186.1	112.9				
9527	2197.2	3112.6	L: 130848 S.OWE115	115	131850 CNYOG115	115	1						20.4	-143.0	-0.07437					
			C:130763 HILSD230	230	130768 WATRC230	230	1	219												
			Open 130763 HILSD230	230	130768 WATRC230	230	1						-0.19959	0.13770	-186.1	116.5				
11890	2200.8	3115.2	L: 130801 PAVMT115	115	130857 STOLE115	115	1						-98.6	-179.0	-0.03654					
			C:SER:HCWC/NWES					1607												
			Open 130757 WATRC345	345	200769 HOMER CY	345	1						0.04202	-0.16739	-543.5	-911.9				
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1						0.00621	-0.06451	43.0	-99.0				
12281	2216.4	3126.6	L: 130807 GOUDY115	115	130838 OAKDL115	115	1						-37.8	239.0	0.12489					
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206												
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						-0.14107	-0.24292	-263.5	-801.9				
12342	2223.5	3131.9	L: 130801 PAVMT115	115	130857 STOLE115	115	1						-98.7	-179.0	-0.03610					
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374												
			Open 130757 WATRC345	345	200769 HOMER CY	345	1						0.04180	-0.16739	-543.5	-915.7				
12372	2228.9	3135.8	L: 130801 PAVMT115	115	130857 STOLE115	115	1						-98.4	-179.0	-0.03616					
			C:BUS:WATERCURE_345					1632												
			Open 130757 WATRC345	345	200769 HOMER CY	345	1						0.04197	-0.16739	-543.5	-916.6				
			Open 130757 WATRC345	345	130768 WATRC230	230	1						0.00038	-0.07553	257.6	89.2				
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						0.01405	0.00000	22.4	22.4				
12393	2235.3	3140.5	L: 130799 ERIE 115	115	130801 PAVMT115	115	1						-88.1	-179.0	-0.04068					
			C:130857 STOLE115	115	130858 GIRD115	115	1	367												
			Open 130857 STOLE115	115	130858 GIRD115	115	1						-0.36975	0.03146	64.6	134.9				

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12410	2238.7	3143.0	L: Interface	54	NYE-PJME		-629.0	-787.0	-0.07058		0.00000	-451.8	-451.8				
			C:SER:HCWC/NWES			1607											
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	0.34224	-0.16739	-543.5	-918.3		
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1	0.20609	-0.06451	43.0	-101.4		
12411	2238.7	3143.0	L: Interface	53	PJME-NYE		629.0	787.0	0.07058		-0.00000	451.8	451.8				
			C:SER:HCWC/NWES			1607											
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1	-0.34224	-0.16739	-543.5	-918.3		
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1	-0.20609	-0.06451	43.0	-101.4		
12444	2268.5	3164.9	L: 130801	PAVMT115		115	130857	STOLE115		115	1	-88.5	-179.0	-0.03988	-76.0	-142.0	
			C:130806	GARDV115		115	130858	GIRD115		115	1	295					
			Open	130806	GARDV115		115	130858	GIRD115		115	1	0.36205	-0.02977	-34.6	-102.1	
12449	2275.1	3169.8	L: 126294	PLTVLLEY		345	137455	ATHENS		345	1	-1523.3	-1725.0	-0.08863	-0.07267	-1241.0	-1406.4
			C:125000	HURLEY 3		345	137451	LEEDS 3		345	1	3					
			Open	125000	HURLEY 3		345	137451	LEEDS 3		345	1	0.31397	-0.05083	-899.2	-1014.8	
12453	2281.6	3174.6	*L: 131018	LOUNSL115		115	131850	CNYOG115		115	1	47.6	143.0	0.04182	0.04689	18.7	125.7
			C:130755	OAKDL345		345	131128	LAPEER		345	1	209					
			Open	130755	OAKDL345		345	131128	LAPEER		345	1	-0.05020	0.10093	-575.7	-345.4	
12467	2303.6	3190.7	L: 130753	FRASR345		345	130755	OAKDL345		345	1	-772.3	-1380.0	-0.26381	-0.25996	-577.5	-1176.4
			C:130753	FRASR345		345	137200	EDIC		345	1	202					
			Open	130753	FRASR345		345	137200	EDIC		345	1	0.27558	-0.01397	-706.7	-738.9	
12473	2317.3	3200.8	L: 130801	PAVMT115		115	130857	STOLE115		115	1	-101.8	-179.0	-0.03333	-0.02910	-76.0	-143.5
			C:135398	SW345		345	135564	SW115		115	1	517					
			Open	135398	SW345		345	135564	SW115		115	1	-0.17605	0.02401	146.2	201.9	
12478	2328.0	3208.6	L: 130836	N.WAV115		115	131018	LOUNSL115		115	1	20.2	173.0	0.06566	0.04689	22.2	131.4
			C:BUS:WATERCURE_345									1632					
			Open	130757	WATRC345		345	200769	HOMER	CY	345	1	-0.05669	-0.16739	-543.5	-933.2	
			Open	130757	WATRC345		345	130768	WATRC230		230	1	-0.12286	-0.07553	257.6	81.7	
			Open	130755	OAKDL345		345	130757	WATRC345		345	1	-0.05534	0.00000	22.4	22.4	
12481	2328.2	3208.8	*L: 130848	S.OWE115		115	131850	CNYOG115		115	1	-45.6	-143.0	-0.04182	-0.04689	-16.7	-125.9
			C:130755	OAKDL345		345	131128	LAPEER		345	1	209					
			Open	130755	OAKDL345		345	131128	LAPEER		345	1	0.05020	0.10093	-575.7	-340.7	
12482	2328.4	3208.9	L: 130801	PAVMT115		115	130857	STOLE115		115	1	-97.7	-179.0	-0.03492	-0.02910	-76.0	-143.8
			C:SER:HC-WC_30&W-F_171									1601					
			Open	130757	WATRC345		345	200769	HOMER	CY	345	1	0.04152	-0.16739	-543.5	-933.3	
			Open	135277	FALCONER		115	200579	WARREN		115	1	-0.02497	-0.04530	-35.9	-141.4	
12491	2357.9	3230.6	L: 130787	CODNT115		115	130830	MONTR115		115	1	-6.1	-144.0	-0.05848	-0.03852	15.5	-75.3
			C:130755	OAKDL345		345	130757	WATRC345		345	1	206					
			Open	130755	OAKDL345		345	130757	WATRC345		345	1	0.08214	-0.24292	-263.5	-836.3	
12493	2373.2	3241.8	L: Interface	53	PJME-NYE		639.3	787.0	0.06224		-0.00000	451.8	451.8				
			C:SER:HC-WC_30&W-F_171									1601					
			Open	130757	WATRC345		345	200769	HOMER	CY	345	1	-0.33620	-0.16739	-543.5	-940.8	
			Open	135277	FALCONER		115	200579	WARREN		115	1	-0.13169	-0.04530	-35.9	-143.4	

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12494	2373.2	3241.8	L: Interface 54 NYE-PJME							-639.3	-787.0	-0.06224	0.00000	-451.8	-451.8	
			C:SER:HC-WC_30&W-F_171													
			Open 130757 WATRC345	345	200769	HOMER CY	345	1					0.33620	-0.16739	-543.5	-940.8
			Open 135277 FALCONER	115	200579	WARREN	115	1					0.13169	-0.04530	-35.9	-143.4
12501	2383.9	3249.7	L: 130836 N.WAV115	115	131018	LOUNSI115	115	1		-7.4	173.0	0.07569	0.04689	22.2	134.0	
			C:BUS:WATERCURE_230													
			Open 130768 WATRC230	230	130772	SHRED230	230	1					0.24198	0.06217	71.0	219.2
			Open 130757 WATRC345	345	130768	WATRC230	230	1					-0.18211	-0.07553	257.6	77.5
			Open 130763 HILSD230	230	130768	WATRC230	230	1					0.12849	0.00000	0.5	0.5
12515	2401.2	3262.5	L: 130768 WATRC230	230	130772	SHRED230	230	1		139.4	440.0	0.12519	0.06217	71.0	220.3	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206							
			Open 130755 OAKDL345	345	130757	WATRC345	345	1					-0.25941	-0.24292	-263.5	-846.8
12526	2416.9	3274.0	L: 130824 LAPER115	115	136247	TULLER H	115	1		65.8	145.0	0.03276	0.01976	37.0	84.7	
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200							
			Open 130753 FRASR345	345	130755	OAKDL345	345	1					-0.04998	-0.25996	-577.5	-1205.8
12540	2451.8	3299.6	L: 130836 N.WAV115	115	131018	LOUNSI115	115	1		7.9	173.0	0.06734	0.04689	22.2	137.2	
			C:ETHS/LLGD													
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1					-0.06154	-0.17264	117.6	-305.6
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1					-0.18664	-0.05265	38.0	-91.1
12541	2453.2	3300.6	L: 130765 OAKDL230	230	130772	SHRED230	230	1		-132.9	-440.0	-0.12519	-0.06217	-64.5	-217.0	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206							
			Open 130755 OAKDL345	345	130757	WATRC345	345	1					0.25941	-0.24292	-263.5	-859.5
12544	2455.3	3302.2	L: 130765 OAKDL230	230	130838	OAKDL115	115	1		132.6	440.0	0.12519	0.06217	64.3	216.9	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206							
			Open 130755 OAKDL345	345	130757	WATRC345	345	1					-0.25941	-0.24292	-263.5	-860.0
12549	2464.3	3308.8	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1		-1513.1	-1725.0	-0.08599	-0.07267	-1241.0	-1420.1	
			C:SIN:430													
			Open 125002 ROSETON	345	126281	FISHKILL	345	1					-0.18061	0.07370	1506.4	1688.0
12550	2464.3	3308.8	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1		-1513.1	-1725.0	-0.08599	-0.07267	-1241.0	-1420.1	
			C:125002 ROSETON	345	126281	FISHKILL	345	1	10							
			Open 125002 ROSETON	345	126281	FISHKILL	345	1					-0.18061	0.07370	1506.4	1688.0
12557	2491.6	3328.8	L: 130836 N.WAV115	115	131018	LOUNSI115	115	1		32.9	173.0	0.05623	0.04689	22.2	139.1	
			C:130768 WATRC230	230	130772	SHRED230	230	1	227							
			Open 130768 WATRC230	230	130772	SHRED230	230	1					0.15025	0.06217	71.0	225.9
12559	2494.0	3330.6	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1		-190.7	-637.0	-0.17895	-0.12896	-64.9	-386.5	
			C:SER:HC-SR_37&W-F_171													
			Open 135398 SW345	345	200769	HOMER CY	345	1					0.28847	-0.10053	-378.4	-629.1
			Open 135277 FALCONER	115	200579	WARREN	115	1					0.46324	-0.04530	-35.9	-148.9
12561	2497.8	3333.4	L: 130794 DELHI115	115	130851	SIDNT115	115	1		-35.8	-120.0	-0.03370	-0.01849	-2.0	-48.2	
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200							
			Open 130753 FRASR345	345	130755	OAKDL345	345	1					0.05853	-0.25996	-577.5	-1226.8
12565	2503.8	3337.8	L: 130836 N.WAV115	115	131018	LOUNSI115	115	1		32.2	173.0	0.05623	0.04689	22.2	139.6	

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				C:SER:OAKDALE_WATRC230							1594						
				Open 130768 WATRC230	230	130772 SHRED230	230	1				0.15025	0.06217	71.0	226.7		
				Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA								
				Open 130765 OAKDL230	230	130838 OAKDL115	115	1				-0.10162	0.00000	6.8	6.8		
12567	2508.9	3341.6		L: 130836 N.WAV115	115	131018 LOUNS115	115	1			31.9	173.0	0.05623		0.04689	22.2	139.9
				C:130765 OAKDL230	230	130772 SHRED230	230	1	222								
				Open 130765 OAKDL230	230	130772 SHRED230	230	1									
12568	2509.7	3342.1		L: 130836 N.WAV115	115	131018 LOUNS115	115	1			31.9	173.0	0.05623		0.04689	22.2	139.9
				C:130765 OAKDL230	230	130838 OAKDL115	115	1	223								
				Open 130765 OAKDL230	230	130838 OAKDL115	115	1									
12573	2517.2	3347.6		L: 130750 COOPC345	345	130753 FRASR345	345	1			-1317.8	-1703.0	-0.15303		-0.12847	-997.1	-1320.5
				C:130750 COOPC345	345	147833 MARCY T1	345	1	196								
				Open 130750 COOPC345	345	147833 MARCY T1	345	1									
12579	2526.7	3354.6		L: 130836 N.WAV115	115	131018 LOUNS115	115	1			-14.9	173.0	0.07437		0.04689	22.2	140.7
				C:130763 HILSD230	230	130768 WATRC230	230	1	219								
				Open 130763 HILSD230	230	130768 WATRC230	230	1									
12580	2527.6	3355.3		L: 130799 ERIE 115	115	130801 PAVMT115	115	1			-86.8	-179.0	-0.03648		-0.02904	-64.2	-137.6
				C:SER:HCWC/NWES					1607								
				Open 130757 WATRC345	345	200769 HOMER CY	345	1									
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1									
12595	2554.3	3374.9		L: 130799 ERIE 115	115	130801 PAVMT115	115	1			-86.9	-179.0	-0.03604		-0.02904	-64.2	-138.4
				C:130757 WATRC345	345	200769 HOMER CY	345	1	1374								
				Open 130757 WATRC345	345	200769 HOMER CY	345	1									
12599	2559.2	3378.5		L: 130799 ERIE 115	115	130801 PAVMT115	115	1			-86.6	-179.0	-0.03610		-0.02904	-64.2	-138.5
				C:BUS:WATERCURE_345					1632								
				Open 130757 WATRC345	345	200769 HOMER CY	345	1									
				Open 130757 WATRC345	345	130768 WATRC230	230	1									
				Open 130755 OAKDL345	345	130757 WATRC345	345	1									
12601	2561.9	3380.5		L: 130799 ERIE 115	115	130801 PAVMT115	115	1			-76.8	-179.0	-0.03989		-0.02904	-64.2	-138.6
				C:130806 GARDV115	115	130858 GIRD115	115	1	295								
				Open 130806 GARDV115	115	130858 GIRD115	115	1									
12608	2579.3	3393.3		L: 130807 GOUDY115	115	130848 S.OWE115	115	1			26.3	-143.0	-0.06566		-0.04689	24.3	-96.7
				C:BUS:WATERCURE_345					1632								
				Open 130757 WATRC345	345	200769 HOMER CY	345	1									
				Open 130757 WATRC345	345	130768 WATRC230	230	1									
				Open 130755 OAKDL345	345	130757 WATRC345	345	1									
12632	2596.2	3405.7		L: 130807 GOUDY115	115	130838 OAKDL115	115	1			-67.3	239.0	0.11798		0.09063	-75.0	160.3
				C:BUS:WATERCURE_345					1632								
				Open 130757 WATRC345	345	200769 HOMER CY	345	1									
				Open 130757 WATRC345	345	130768 WATRC230	230	1									
				Open 130755 OAKDL345	345	130757 WATRC345	345	1									
12645	2601.9	3409.9		L: 130807 GOUDY115	115	130848 S.OWE115	115	1			53.9	-143.0	-0.07569		-0.04689	24.3	-97.7

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			C:BUS:WATERCURE_230						1633					
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.24198	0.06217	71.0	232.8	
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.18211	-0.07553	257.6	61.1	
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.12849	0.00000	0.5	0.5	
12647	2606.1	3413.0	L: 130753 FRASR345	345	130755 OAKDL345	345	1			-577.5	-1255.0	-0.25996		
			Base Case											
12720	2637.0	3435.7	L: Interface 15 ItoNYC345							2799.7	3288.0	0.18517		
			Base Case											
14305	2670.5	3460.3	L: 130799 ERIE 115	115	130801 PAVMT115	115	1			-85.9	-179.0	-0.03487	-0.02904	-64.2 -141.8
			C:SER:HC-WC_30&W-F_171											1601
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04154	-0.16739	-543.5	-990.6	
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.02496	-0.04530	-35.9	-156.9	
14332	2675.4	3463.9	L: 130799 ERIE 115	115	130801 PAVMT115	115	1			-90.0	-179.0	-0.03328	-0.02904	-64.2 -141.9
			C:135398 SW345	345	135564 SW115	115	1	517						
			Open 135398 SW345	345	135564 SW115	115	1			-0.17620	0.02401	146.2	210.5	
15766	2696.8	3479.6	L: 130807 GOUDY115	115	130848 S.OWE115	115	1			38.6	-143.0	-0.06734	-0.04689	24.3 -102.2
			C:ETHS/LLGD											1649
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.06154	-0.17264	117.6	-347.9	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.18664	-0.05265	38.0	-104.0	
15794	2697.6	3480.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1			-678.7	-1380.0	-0.25996	-0.25996	-577.5 -1278.8
			C:SIN:250											1677
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00002	0.00000	-0.1	-0.1	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch								
15976	2719.3	3496.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1			-656.6	-1380.0	-0.26602	-0.25996	-577.5 -1284.4
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.10700	-0.05661	-739.1	-893.1	
15992	2725.1	3500.4	L: 130836 N.WAV115	115	131018 LOUNS115	115	1			22.2	150.0	0.04689		
			Base Case											
16003	2726.9	3501.7	L: 130801 PAVMT115	115	130857 STOLE115	115	1			-89.5	-179.0	-0.03281	-0.02910	-76.0 -155.4
			C:130806 GARDV115	115	135450 GRDNVL1	115	1	297						
			Open 130806 GARDV115	115	135450 GRDNVL1	115	1			-0.12156	0.03049	111.2	194.4	
16004	2727.1	3501.9	L: 130755 OAKDL345	345	130757 WATRC345	345	1			-263.5	-926.0	-0.24292		
			Base Case											
16018	2732.6	3505.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1			-649.7	-1380.0	-0.26727	-0.25996	-577.5 -1287.9
			C:SIN:180											1672
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.10059	-916.1	-1190.9	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04702	0.00000	119.9	119.9	
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00061	0.00021	88.8	89.4	
16019	2732.6	3505.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1			-649.7	-1380.0	-0.26727	-0.25996	-577.5 -1287.9
			C:SIN:170											1671
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.10059	-916.1	-1190.9	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04710	0.00000	119.9	119.9	

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				Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00092	0.00029	74.8	75.6		
16024	2734.5	3507.3	L:	Interface 53 PJME-NYE					633.8	787.0	0.05604	-0.00000	451.8	451.8	
				C:130757 WATRC345	345	200769 HOMER CY	345	1	1374						
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.33475	-0.16739	-543.5	-1001.3
16025	2734.5	3507.3	L:	Interface 54 NYE-PJME					-633.8	-787.0	-0.05604	0.00000	-451.8	-451.8	
				C:130757 WATRC345	345	200769 HOMER CY	345	1	1374						
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.33475	-0.16739	-543.5	-1001.3
16026	2736.0	3508.4	L:	130753 FRASR345	345	130755 OAKDL345	345	1		-668.8	-1380.0	-0.25996	-0.25996	-577.5	-1288.8
				C:GEN:SEABROOK					1573						
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW									
16027	2736.0	3508.4	L:	130753 FRASR345	345	130755 OAKDL345	345	1		-668.8	-1380.0	-0.25996	-0.25996	-577.5	-1288.8
				C:GEN:SEAB&OMS					1575						
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00002	0.00000	-0.1	-0.1
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW									
16045	2740.8	3512.0	L:	146771 SHOEM138	138	146772 SHOEMTAP	138	1		-607.0	-707.0	-0.03647	-0.02122	-448.0	-506.2
				C:SIN:440					1683						
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.14263	0.10693	1114.8	1407.9
16046	2740.8	3512.0	L:	146771 SHOEM138	138	146772 SHOEMTAP	138	1		-607.0	-707.0	-0.03647	-0.02122	-448.0	-506.2
				C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7						
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.14263	0.10693	1114.8	1407.9
16050	2741.5	3512.5	L:	130753 FRASR345	345	130755 OAKDL345	345	1		-667.3	-1380.0	-0.25996	-0.25996	-577.5	-1290.2
				C:GEN:MILLST 3					1572						
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW									
16051	2741.5	3512.5	L:	130753 FRASR345	345	130755 OAKDL345	345	1		-667.3	-1380.0	-0.25996	-0.25996	-577.5	-1290.2
				C:GEN:MLS3&OMS					1574						
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00002	0.00000	-0.1	-0.1
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW									
16067	2748.5	3517.6	L:	130807 GOUDY115	115	130848 S.OWE115	115	1		61.4	-143.0	-0.07437	-0.04689	24.3	-104.6
				C:130763 HILSD230	230	130768 WATRC230	230	1	219						
				Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.19959	0.13770	-186.1	192.4
16115	2756.5	3523.5	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1474.4	-1725.0	-0.09090	-0.07712	-1281.0	-1493.6
				C:125000 HURLEY 3	345	125002 ROSETON	345	1	1						
				Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.29333	0.04696	659.3	788.7
16133	2761.3	3527.0	*L:	130753 FRASR345	345	130755 OAKDL345	345	1		-642.5	-1380.0	-0.26709	-0.25996	-577.5	-1295.3
				C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012						
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.07092	-0.10059	-916.1	-1193.8
16152	2764.9	3529.7	L:	130807 GOUDY115	115	130838 OAKDL115	115	1		-28.4	239.0	0.09672	0.09063	-75.0	175.6
				C:130807 GOUDY115	115	131021 ROBBL115	115	1	300						
				Open 130807 GOUDY115	115	131021 ROBBL115	115	1				0.93989	0.00649	49.5	67.5
16285	2772.3	3535.1	L:	130807 GOUDY115	115	200680 LAUREL L	115	1		38.0	-108.0	-0.05265			
				Base Case											
17415	2779.1	3540.1	L:	130807 GOUDY115	115	130838 OAKDL115	115	1		-111.8	239.0	0.12624	0.09063	-75.0	176.9

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			C:BUS:WATERCURE_230										1633
			Open 130768 WATRC230	230	130772 SHRED230	230	1		0.29871	0.06217	71.0	243.8	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.22565	-0.07553	257.6	47.7	
			Open 130763 HILSD230	230	130768 WATRC230	230	1		0.14326	0.00000	0.5	0.5	
17537	2785.0	3544.4	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	13.6	-143.0	-0.05623	-0.04689	24.3	-106.3
			C:130768 WATRC230	230	130772 SHRED230	230	1	227					
			Open 130768 WATRC230	230	130772 SHRED230	230	1		-0.15025	0.06217	71.0	244.2	
17559	2786.1	3545.3	L: Interface 53 PJME-NYE					600.5	787.0	0.06693	-0.00000	451.8	451.8
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		-0.25747	-0.25996	-577.5	-1301.8	
17560	2786.1	3545.3	L: Interface 54 NYE-PJME					-600.5	-787.0	-0.06693	0.00000	-451.8	-451.8
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.25747	-0.25996	-577.5	-1301.8	
17631	2797.3	3553.4	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	14.3	-143.0	-0.05623	-0.04689	24.3	-106.9
			C:SER:OAKDALE_WATRC230										1594
			Open 130768 WATRC230	230	130772 SHRED230	230	1		-0.15025	0.06217	71.0	244.9	
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1		0.10162	0.00000	6.8	6.8	
17648	2802.4	3557.2	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	14.6	-143.0	-0.05623	-0.04689	24.3	-107.1
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222					
			Open 130765 OAKDL230	230	130772 SHRED230	230	1		0.15025	-0.06217	-64.5	-238.8	
17650	2803.1	3557.7	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	14.6	-143.0	-0.05623	-0.04689	24.3	-107.2
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1		-0.15026	0.06217	64.3	238.5	
17661	2807.2	3560.7	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-87.3	-179.0	-0.03267	-0.02910	-76.0	-157.7
			C:130857 STOLE115	115	131466 DAVIS115	115	1	368					
			Open 130857 STOLE115	115	131466 DAVIS115	115	1		-0.28642	0.01244	39.4	74.3	
17717	2826.4	3574.9	*L: 130836 N.WAV115	115	131018 LOUNS115	115	1	16.0	173.0	0.05556	0.04689	22.2	154.8
			C:130807 GOUDY115	115	200680 LAUREL L	115	1	1376					
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1		-0.16462	-0.05265	38.0	-110.8	
17757	2850.8	3592.7	L: Interface 53 PJME-NYE					345.7	787.0	0.15482	-0.00000	451.8	451.8
			C:ETHS/NWES/LLGD										1648
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		-0.52034	-0.17264	117.6	-374.5	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.53724	-0.06451	43.0	-140.9	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1		-0.57599	-0.05265	38.0	-112.1	
17758	2850.8	3592.7	L: Interface 54 NYE-PJME					-345.7	-787.0	-0.15482	0.00000	-451.8	-451.8
			C:ETHS/NWES/LLGD										1648
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.52034	-0.17264	117.6	-374.5	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.53724	-0.06451	43.0	-140.9	
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1		0.57599	-0.05265	38.0	-112.1	
17770	2868.1	3605.4	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-296.5	-1076.0	-0.27178	-0.24292	-263.5	-960.2
			C:130768 WATRC230	230	130772 SHRED230	230	1	227					

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17771	2869.7	3606.6	L: Open 130768 WATRC230	230	130772 SHRED230	230	1		-0.46423	0.06217	71.0	249.3
			Interface 41 I-to-K					936.1	1307.0	0.12924		
			Base Case									
17772	2869.7	3606.6	L: Open 130765 WATRC230	230	130772 SHRED230	230	1		-0.46423	0.06217	71.0	249.6
			Interface 42 K-to-I					-936.1	-1307.0	-0.12924		
			Base Case									
17777	2872.9	3609.0	L: Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.24292		-263.5	-961.4
			C:SER:OAKDALE_WATRC230				1594					
			Open 130768 WATRC230	230	130772 SHRED230	230	1		-0.46423	0.06217	71.0	249.6
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA				
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1		0.19473	0.00000	6.8	6.8
17778	2875.8	3611.2	L: 135251 S RIPLEY	230	200654 ERIE E	230	1		-0.13170		11.3	-367.5
			C:SER:HC-SR_37&W-F_171				1600					
			Open 135398 SW345	345	200769 HOMER CY	345	1		0.28847	-0.10053	-378.4	-667.5
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.46324	-0.04530	-35.9	-166.2
17779	2876.5	3611.6	L: 136184 CORTLAND	115	136247 TULLER H	115	1		-0.01976		-35.9	-92.8
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200				
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.04998	-0.25996	-577.5	-1325.3
17782	2879.2	3613.6	L: 130755 OAKDL345	345	130757 WATRC345	345	1		-0.24292		-263.5	-962.9
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222				
			Open 130765 OAKDL230	230	130772 SHRED230	230	1		0.46423	-0.06217	-64.5	-243.5
17783	2879.6	3613.9	L: 130755 OAKDL345	345	130757 WATRC345	345	1		-0.24292		-263.5	-963.1
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223				
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1		-0.46423	0.06217	64.3	243.3
17787	2887.0	3619.3	L: 130750 COOPC345	345	146754 MDTN TAP	345	1		0.09609		874.1	1151.5
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	8				
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2		-0.64149	-0.08898	-743.2	-1000.1
17788	2888.0	3620.1	L: 130807 GOUDY115	115	130838 OAKDL115	115	1		0.09063		-75.0	186.7
			C:130763 HILSD230	230	130768 WATRC230	230	1	219				
			Open 130763 HILSD230	230	130768 WATRC230	230	1		0.24699	0.13770	-186.1	211.6
17791	2889.7	3621.3	L: 130807 GOUDY115	115	130838 OAKDL115	115	1		0.09063		-75.0	186.9
			C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375				
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		-0.13669	-0.17264	117.6	-381.2
17802	2906.4	3633.6	L: 130807 GOUDY115	115	130848 S.OWE115	115	1					
			Base Case									
17813	2929.5	3650.6	L: Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.24292		-263.5	-975.2
			C:HQ-NY-765-New				1776					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA				
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA				
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.03770	-0.01752	624.7	573.4
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.03770	-0.01524	543.6	499.0
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA				
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	0.01638	10.3	58.3

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			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.05810	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch						
17816	2945.7	3662.5	L: 130807 GOUDY115	115	130838 OAKDL115	115	1		-61.8	239.0	0.10213	0.09063	-75.0	192.0
			C:130768 WATRC230	230	130772 SHRED230	230	1	227						
			Open 130768 WATRC230	230	130772 SHRED230	230	1		0.18505	0.06217	71.0	254.2		
17820	2948.7	3664.7	L: 130755 OAKDL345	345	130757 WATRC345	345	1		-359.7	-1076.0	-0.24292	-0.24292	-263.5	-979.8
			C:GEN:9 MI PT2					1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW		dispatch						
17825	2954.0	3668.6	L: 130807 GOUDY115	115	130838 OAKDL115	115	1		-46.7	239.0	0.09672	0.09063	-75.0	192.7
			C:130835 N.END115	115	131021 ROBBL115	115	1	345						
			Open 130835 N.END115	115	131021 ROBBL115	115	1		-0.93989	-0.00649	-30.1	-49.2		
17826	2955.0	3669.3	L: 130807 GOUDY115	115	130838 OAKDL115	115	1		-62.8	239.0	0.10213	0.09063	-75.0	192.8
			C:SER:OAKDALE_WATRC230					1594						
			Open 130768 WATRC230	230	130772 SHRED230	230	1		0.18505	0.06217	71.0	254.8		
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1		-0.14074	0.00000	6.8	6.8		
17829	2957.5	3671.1	*L: 130807 GOUDY115	115	130838 OAKDL115	115	1		-63.0	239.0	0.10213	0.09063	-75.0	193.0
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222						
			Open 130765 OAKDL230	230	130772 SHRED230	230	1		-0.18505	-0.06217	-64.5	-248.4		
17841	2982.6	3689.6	L: 130794 DELHI115	115	130838 OAKDL115	115	1		-76.3	-179.0	-0.03442	-0.01908	-42.2	-99.2
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.05902	-0.25996	-577.5	-1352.9		

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, APR 30 2009 11:19
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-pjm-ny-3-115-os.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From PJM_EXPORT To NYCA_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 17910 violations

Interface-1 Interface 19 PJM-NY Init.Flow= 1500.90 TDF= 0.7101

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Ncon	Flow	Rating	LODF	Init Final
1	-4129.2	-1431.1	L: Interface 48 PJMWest-C	474.4	-0.0	0.11488	0.18257	536.1 -217.8
			C:130755 OAKDL345 345 130757 WATRC345 345 1 206					
			Open 130755 OAKDL345 345 130757 WATRC345 345 1				0.24974 -0.27108	-247.3 872.0
2	-4129.2	-1431.1	L: Interface 47 C-PJMWest	-474.4	0.0	-0.11488	-0.18257	-536.1 217.8
			C:130755 OAKDL345 345 130757 WATRC345 345 1 206					
			Open 130755 OAKDL345 345 130757 WATRC345 345 1				-0.24974 -0.27108	-247.3 872.0
3	-3454.8	-952.2	L: Interface 48 PJMWest-C	559.3	-0.0	0.16188	0.18257	536.1 -94.6
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL 1647					
			Open 505 SHELOCTA 230 521 KEYSTONE 230 1				0.16496 -0.11863	55.8 465.6
			Open 473 BLAIRSVL 138 235253 01SOCIAL 138 1				0.13859 -0.00809	100.7 128.7
4	-3454.8	-952.2	L: Interface 47 C-PJMWest	-559.3	0.0	-0.16188	-0.18257	-536.1 94.6
			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL 1647					
			Open 505 SHELOCTA 230 521 KEYSTONE 230 1				-0.16496 -0.11863	55.8 465.6

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			Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1				-0.13859	-0.00809	100.7	128.7
5	-3437.5	-940.0	L: Interface	48	PJMWest-C						624.8	-0.0	0.18175		0.18257	536.1	-91.5
			C:HQ-NY-765-New								1773						
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA						
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA						
			Open	147827	MARCY765	765	147833	MARCY T1	345	1				0.02528	-0.01753	624.7	684.9
			Open	147827	MARCY765	765	147833	MARCY T1	345	2				0.02528	-0.01524	543.6	596.0
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open	147838	MASS230B	230	147839	MOSES E	230	1				-0.00000	0.01639	10.4	-46.0
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA						
			Open	147837	MASS230A	230	147839	MOSES E	230	1				-0.05682	0.00000	18.8	18.8
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA						
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch						
6	-3437.5	-940.0	L: Interface	47	C-PJMWest						-624.8	0.0	-0.18175		-0.18257	-536.1	91.5
			C:HQ-NY-765-New								1773						
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA						
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA						
			Open	147827	MARCY765	765	147833	MARCY T1	345	1				-0.02528	-0.01753	624.7	684.9
			Open	147827	MARCY765	765	147833	MARCY T1	345	2				-0.02528	-0.01524	543.6	596.0
			Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open	147838	MASS230B	230	147839	MOSES E	230	1				0.00000	0.01639	10.4	-46.0
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA						
			Open	147837	MASS230A	230	147839	MOSES E	230	1				0.05682	0.00000	18.8	18.8
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA						
			Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch						
7	-3390.7	-906.7	L: Interface	47	C-PJMWest						-619.1	0.0	-0.18257		-0.18257	-536.1	83.0
			C:GEN:9 MI PT2								1558						
			Remove unit	2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch						
8	-3390.7	-906.7	L: Interface	48	PJMWest-C						619.1	-0.0	0.18257		0.18257	536.1	-83.0
			C:GEN:9 MI PT2								1558						
			Remove unit	2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch						
9	-3387.9	-904.7	L: Interface	47	C-PJMWest						-590.8	-0.0	-0.17439		-0.18257	-536.1	82.4

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				C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392									
				Open 131128 LAPEER	345	136153	LAFAYTTE	345	1			0.08510	0.09612	-642.9	-968.6				
10	-3387.9	-904.7	L:	Interface	48	PJMWest-C						590.8	0.0	0.17439		0.18257	536.1	-82.4	
				C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392									
				Open 131128 LAPEER	345	136153	LAFAYTTE	345	1				-0.08510	0.09612	-642.9	-968.6			
11	-3385.5	-903.0	L:	Interface	48	PJMWest-C						589.3	0.0	0.17407		0.18257	536.1	-82.0	
				C:130755 OAKDL345	345	131128	LAPEER	345	1	209									
				Open 130755 OAKDL345	345	131128	LAPEER	345	1					-0.09413	0.09038	-565.0	-871.0		
12	-3385.5	-903.0	L:	Interface	47	C-PJMWest						-589.3	-0.0	-0.17407		-0.18257	-536.1	82.0	
				C:130755 OAKDL345	345	131128	LAPEER	345	1	209									
				Open 130755 OAKDL345	345	131128	LAPEER	345	1					0.09413	0.09038	-565.0	-871.0		
13	-3316.7	-854.2	L:	Interface	47	C-PJMWest						-605.5	0.0	-0.18257		-0.18257	-536.1	69.4	
				C:GEN:SEAB&OMS						1572									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2					-0.00000	0.00000	-0.1	-0.1		
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch											
14	-3316.7	-854.2	L:	Interface	47	C-PJMWest						-605.5	0.0	-0.18257		-0.18257	-536.1	69.4	
				C:GEN:SEABROOK						1570									
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch											
15	-3316.7	-854.2	L:	Interface	48	PJMWest-C						605.5	-0.0	0.18257		0.18257	536.1	-69.4	
				C:GEN:SEABROOK						1570									
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch											
16	-3316.7	-854.2	L:	Interface	48	PJMWest-C						605.5	-0.0	0.18257		0.18257	536.1	-69.4	
				C:GEN:SEAB&OMS						1572									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2					0.00000	0.00000	-0.1	-0.1		
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch											
17	-3316.4	-854.0	L:	Interface	47	C-PJMWest						-605.5	-0.0	-0.18257		-0.18257	-536.1	69.4	
				C:SIN:250						1674									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2					-0.00000	0.00000	-0.1	-0.1		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch											
18	-3316.4	-854.0	L:	Interface	48	PJMWest-C						605.5	0.0	0.18257		0.18257	536.1	-69.4	
				C:SIN:250						1674									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2					0.00000	0.00000	-0.1	-0.1		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch											
19	-3286.1	-832.4	*L:	Interface	48	PJMWest-C						600.0	0.0	0.18257		0.18257	536.1	-63.9	
				C:GEN:MILLST 3						1569									
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch											
21	-3286.1	-832.4	*L:	Interface	47	C-PJMWest						-600.0	-0.0	-0.18257		-0.18257	-536.1	63.9	
				C:GEN:MILLST 3						1569									
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch											
51	-3119.6	-714.2	L:	Interface	56	NYE-PJMENoRE						-1498.3	-1287.0	-0.06775		-0.00000	-1299.4	-1299.4	
				C:SER:HCWC/NWES						1604									
				Open 130757 WATRC345	345	200769	HOMER CY	345	1					0.37106	-0.18257	-536.1	33.4		

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52	-3119.6	-714.2	L: Interface 56 NYE-PJMENoRE	-1498.3	-1287.0	-0.06775	-0.00000	-1299.4	-1299.4
			C:SER:HC-WC_30&W-F_171						
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.37106	-0.18257	-536.1 33.4
53	-3119.6	-714.2	L: Interface 55 PJME-NYEnoRE	1498.3	1287.0	0.06775	0.00000	1299.4	1299.4
			C:SER:HC-WC_30&W-F_171						
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.37106	-0.18257	-536.1 33.4
54	-3119.6	-714.2	L: Interface 55 PJME-NYEnoRE	1498.3	1287.0	0.06775	0.00000	1299.4	1299.4
			C:130757 WATRC345 345 200769 HOMER CY 345 1 1374						
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.37106	-0.18257	-536.1 33.4
55	-3119.6	-714.2	L: Interface 56 NYE-PJMENoRE	-1498.3	-1287.0	-0.06775	-0.00000	-1299.4	-1299.4
			C:130757 WATRC345 345 200769 HOMER CY 345 1 1374						
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.37106	-0.18257	-536.1 33.4
56	-3119.6	-714.2	L: Interface 55 PJME-NYEnoRE	1498.3	1287.0	0.06775	0.00000	1299.4	1299.4
			C:SER:HCWC/NWES						
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.37106	-0.18257	-536.1 33.4
325	-2942.8	-588.7	L: Interface 51 G-PJMEast	-132.1	-0.0	-0.04490	-0.00000	-0.3	-0.3
			C:SER:HCWC/NWES						
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.24594	-0.18257	-536.1 1.2
326	-2942.8	-588.7	L: Interface 51 G-PJMEast	-132.1	-0.0	-0.04490	-0.00000	-0.3	-0.3
			C:SER:HC-WC_30&W-F_171						
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.24594	-0.18257	-536.1 1.2
327	-2942.8	-588.7	L: Interface 52 PJMEast-G	132.1	0.0	0.04490	0.00000	0.3	0.3
			C:SER:HCWC/NWES						
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.24594	-0.18257	-536.1 1.2
328	-2942.8	-588.7	L: Interface 52 PJMEast-G	132.1	0.0	0.04490	0.00000	0.3	0.3
			C:SER:HC-WC_30&W-F_171						
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.24594	-0.18257	-536.1 1.2
329	-2942.8	-588.7	L: Interface 52 PJMEast-G	132.1	0.0	0.04490	0.00000	0.3	0.3
			C:130757 WATRC345 345 200769 HOMER CY 345 1 1374						
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.24594	-0.18257	-536.1 1.2
330	-2942.8	-588.7	L: Interface 51 G-PJMEast	-132.1	-0.0	-0.04490	-0.00000	-0.3	-0.3
			C:130757 WATRC345 345 200769 HOMER CY 345 1 1374						
			Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.24594	-0.18257	-536.1 1.2
3517	-2489.9	-267.1	L: Interface 55 PJME-NYEnoRE	1447.3	1287.0	0.06440	0.00000	1299.4	1299.4
			C:130753 FRASR345 345 130755 OAKDL345 345 1 200						
			Open 130753 FRASR345 345 130755 OAKDL345 345 1				-0.25358	-0.25395	-583.4 48.9
3518	-2489.9	-267.1	L: Interface 56 NYE-PJMENoRE	-1447.3	-1287.0	-0.06440	-0.00000	-1299.4	-1299.4
			C:130753 FRASR345 345 130755 OAKDL345 345 1 200						
			Open 130753 FRASR345 345 130755 OAKDL345 345 1				0.25358	-0.25395	-583.4 48.9
3521	-2303.7	-134.9	L: Interface 52 PJMEast-G	102.5	-0.0	0.04449	0.00000	0.3	0.3
			C:130753 FRASR345 345 130755 OAKDL345 345 1 200						
			Open 130753 FRASR345 345 130755 OAKDL345 345 1				-0.17519	-0.25395	-583.4 1.6

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3522	-2303.7	-134.9	L: Interface	51	G-PJMEast					-102.5	0.0	-0.04449	-0.00000	-0.3	-0.3
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200							
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.17519	-0.25395	-583.4	1.6			
3537	-1862.6	178.3	L: Interface	56	NYE-PJMENoRE					-1482.6	-1287.0	-0.10501	-0.00000	-1299.4	-1299.4
			C:BUS:WATERCURE_345					1629							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.46978	-0.18257	-536.1	-196.0			
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.21734	-0.08850	267.1	431.9			
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.48876	0.00000	21.8	21.8			
3538	-1862.6	178.3	L: Interface	55	PJME-NYEnoRE					1482.6	1287.0	0.10501	0.00000	1299.4	1299.4
			C:BUS:WATERCURE_345					1629							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.46978	-0.18257	-536.1	-196.0			
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.21734	-0.08850	267.1	431.9			
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.48876	0.00000	21.8	21.8			
3539	-1724.6	276.3	L: Interface	51	G-PJMEast					-121.5	-0.0	-0.07048	-0.00000	-0.3	-0.3
			C:BUS:WATERCURE_345					1629							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.31371	-0.18257	-536.1	-221.2			
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.14918	-0.08850	267.1	419.7			
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.32556	0.00000	21.8	21.8			
3540	-1724.6	276.3	L: Interface	52	PJMEast-G					121.5	0.0	0.07048	0.00000	0.3	0.3
			C:BUS:WATERCURE_345					1629							
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.31371	-0.18257	-536.1	-221.2			
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.14918	-0.08850	267.1	419.7			
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.32556	0.00000	21.8	21.8			
3541	-1075.5	737.2	L: Interface	56	NYE-PJMENoRE					-1368.7	-1287.0	-0.07601	-0.00000	-1299.4	-1299.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.28038	-0.27108	-247.3	44.3			
3542	-1075.5	737.2	L: Interface	55	PJME-NYEnoRE					1368.7	1287.0	0.07601	0.00000	1299.4	1299.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.28038	-0.27108	-247.3	44.3			
3543	-953.6	823.8	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			-1829.4	-1725.0	-0.10943	-0.07725	-1280.9	-1207.2
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	121							
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1		0.44200	-0.07280	-1240.9	-1171.5			
3544	-917.8	849.2	L: Interface	52	PJMEast-G					47.3	0.0	0.05158	0.00000	0.3	0.3
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.19027	-0.27108	-247.3	1.5			
3545	-917.8	849.2	L: Interface	51	G-PJMEast					-47.3	-0.0	-0.05158	-0.00000	-0.3	-0.3
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.19027	-0.27108	-247.3	1.5			
3546	-768.8	955.0	L: Interface	55	PJME-NYEnoRE					1319.1	1287.0	0.04169	0.00000	1299.4	1299.4
			C:135250 DUNKIRK	230	135251 S RIPLEY	230	1	422							
			Open 135250 DUNKIRK	230	135251 S RIPLEY	230	1		-0.26649	-0.15644	-73.7	46.6			
3547	-768.8	955.0	L: Interface	56	NYE-PJMENoRE					-1319.1	-1287.0	-0.04169	-0.00000	-1299.4	-1299.4

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				C:135250 DUNKIRK	230	135251 S RIPLEY	230	1	422										
				Open 135250 DUNKIRK	230	135251 S RIPLEY	230	1				0.26649	-0.15644	-73.7	46.6				
3548	-766.8	956.4	L:	Interface 55 PJMEnoRE						1377.3	1287.0	0.11774	0.00000	1299.4	1299.4				
				C:LKWANA-OXBW					1648										
				Open 417 OXBOW	230	3070 LACKAWNA	230	1				-0.52473	-0.22439	-148.4	23.6				
3549	-766.8	956.4	L:	Interface 56 NYE-PJMENoRE						-1377.3	-1287.0	-0.11774	-0.00000	-1299.4	-1299.4				
				C:LKWANA-OXBW					1648										
				Open 417 OXBOW	230	3070 LACKAWNA	230	1				0.52473	-0.22439	-148.4	23.6				
3550	-664.9	1028.8	L:	Interface 52 PJMEast-G						54.6	-0.0	0.08214	0.00000	0.3	0.3				
				C:LKWANA-OXBW					1648										
				Open 417 OXBOW	230	3070 LACKAWNA	230	1				-0.36605	-0.22439	-148.4	0.8				
3551	-664.9	1028.8	L:	Interface 51 G-PJMEast						-54.6	0.0	-0.08214	-0.00000	-0.3	-0.3				
				C:LKWANA-OXBW					1648										
				Open 417 OXBOW	230	3070 LACKAWNA	230	1				0.36605	-0.22439	-148.4	0.8				
3552	-626.6	1056.0	L:	126294 PLTVLLEY	345	137455 ATHENS	345	1		-1791.4	-1725.0	-0.10600	-0.07280	-1240.9	-1195.3				
				C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	120										
				Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				0.42981	-0.07725	-1280.9	-1232.5				
3553	-440.1	1188.4	L:	Interface 55 PJMEnoRE						1305.7	1287.0	0.04243	0.00000	1299.4	1299.4				
				C:SER:ESEE/WRFL					1607										
				Open 270 ERIE SO.	230	531 ERIE SE	230	1				0.00102	0.10068	27.8	-16.5				
				Open 531 ERIE SE	230	200654 ERIE E	230	1				0.26589	0.15918	23.5	-46.6				
3554	-440.1	1188.4	L:	Interface 56 NYE-PJMENoRE						-1305.7	-1287.0	-0.04243	-0.00000	-1299.4	-1299.4				
				C:SER:ESEE/WRFL					1607										
				Open 270 ERIE SO.	230	531 ERIE SE	230	1				-0.00102	0.10068	27.8	-16.5				
				Open 531 ERIE SE	230	200654 ERIE E	230	1				-0.26589	0.15918	23.5	-46.6				
3555	-276.8	1304.4	*L:	Interface 56 NYE-PJMENoRE						-1298.7	-1287.0	-0.04242	-0.00000	-1299.4	-1299.4				
				C:SER:EESR/NWES					1605										
				Open 135251 S RIPLEY	230	200654 ERIE E	230	1				0.26649	-0.15918	2.5	46.6				
3558	-276.8	1304.4	*L:	Interface 55 PJMEnoRE						1298.7	1287.0	0.04242	0.00000	1299.4	1299.4				
				C:SER:EESR/WF/NWES					1608										
				Open 135251 S RIPLEY	230	200654 ERIE E	230	1				-0.26649	-0.15918	2.5	46.6				
3563	183.2	1631.0	L:	Interface 50 PJMCentral-C						-53.0	-0.0	0.28953	0.25066	-167.2	-121.2				
				C:130757 WATRC345	345	200769 HOMER CY	345	1	1374										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.21286	-0.18257	-536.1	-569.6				
3564	183.2	1631.0	L:	Interface 49 C-PJMCentral						53.0	0.0	-0.28953	-0.25066	167.2	121.2				
				C:SER:HC-WC_30&W-F_171					1598										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.21286	-0.18257	-536.1	-569.6				
3565	183.2	1631.0	L:	Interface 50 PJMCentral-C						-53.0	-0.0	0.28953	0.25066	-167.2	-121.2				
				C:SER:HC-WC_30&W-F_171					1598										
				Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.21286	-0.18257	-536.1	-569.6				
3566	183.2	1631.0	L:	Interface 49 C-PJMCentral						53.0	0.0	-0.28953	-0.25066	167.2	121.2				
				C:130757 WATRC345	345	200769 HOMER CY	345	1	1374										

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				Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.21286	-0.18257	-536.1	-569.6
3567	183.2	1631.0	L:	Interface 49 C-PJMCentral						53.0	0.0	-0.28953	-0.25066	167.2	121.2
				C:SER:HCWC/NWES					1604						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.21286	-0.18257	-536.1	-569.6
3568	183.2	1631.0	L:	Interface 50 PJMCentral-C						-53.0	-0.0	0.28953	0.25066	-167.2	-121.2
				C:SER:HCWC/NWES					1604						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.21286	-0.18257	-536.1	-569.6
3569	200.3	1643.1	L:	Interface 49 C-PJMCentral						50.1	-0.0	-0.25001	-0.25066	167.2	117.0
				C:BUS:WATERCURE_345					1629						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.10816	-0.18257	-536.1	-572.7
				Open 130757 WATRC345	345	130768	WATRC230	230	1			-0.23049	-0.08850	267.1	249.3
				Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.11241	0.00000	21.8	21.8
3570	200.3	1643.1	L:	Interface 50 PJMCentral-C						-50.1	0.0	0.25001	0.25066	-167.2	-117.0
				C:BUS:WATERCURE_345					1629						
				Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.10816	-0.18257	-536.1	-572.7
				Open 130757 WATRC345	345	130768	WATRC230	230	1			0.23049	-0.08850	267.1	249.3
				Open 130755 OAKDL345	345	130757	WATRC345	345	1			-0.11241	0.00000	21.8	21.8
3571	369.7	1763.4	L:	Interface 49 C-PJMCentral						92.7	0.0	-0.25066	-0.25066	167.2	74.5
				C:GEN:9 MI PT2					1558						
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW dispatch								
3572	369.7	1763.4	L:	Interface 50 PJMCentral-C						-92.7	-0.0	0.25066	0.25066	-167.2	-74.5
				C:GEN:9 MI PT2					1558						
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW dispatch								
3573	392.9	1779.9	L:	Interface 50 PJMCentral-C						-98.3	0.0	0.25027	0.25066	-167.2	-68.7
				C:HQ-NY-765-New					1773						
				Open 147827 MARCY765	765	147828	MASS 765	765	1						
				Open 147828 MASS 765	765	180819	CHA-NY	765	1						
				Open 147827 MARCY765	765	147833	MARCY T1	345	1			0.01207	-0.01753	624.7	617.8
				Open 147827 MARCY765	765	147833	MARCY T1	345	2			0.01207	-0.01524	543.6	537.6
				Open 156 MCY765SW	0.0	147827	MARCY765	765	1						
				Open 147838 MASS230B	230	147839	MOSES E	230	1			-0.00000	0.01639	10.4	16.8
				Open 147828 MASS 765	765	147838	MASS230B	230	1						
				Open 147837 MASS230A	230	147839	MOSES E	230	1			-0.04990	0.00000	18.8	18.8
				Open 147828 MASS 765	765	147837	MASS230A	230	1						
				Open 158 MS765SW2	0.0	147828	MASS 765	765	1						
				Open 157 MS765SW1	0.0	147828	MASS 765	765	1						
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
3574	392.9	1779.9	L:	Interface 49 C-PJMCentral						98.3	-0.0	-0.25027	-0.25066	167.2	68.7
				C:HQ-NY-765-New					1773						

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			Open 147827 MARCY765	765 147828 MASS 765	765 1	NA						
			Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA						
			Open 147827 MARCY765	765 147833 MARCY T1	345 1				-0.01207	-0.01753	624.7	617.8
			Open 147827 MARCY765	765 147833 MARCY T1	345 2				-0.01207	-0.01524	543.6	537.6
			Open 156 MCY765SW	0.0 147827 MARCY765	765 1	NA						
			Open 147838 MASS230B	230 147839 MOSES E	230 1				0.00000	0.01639	10.4	16.8
			Open 147828 MASS 765	765 147838 MASS230B	230 1	NA						
			Open 147837 MASS230A	230 147839 MOSES E	230 1				0.04990	0.00000	18.8	18.8
			Open 147828 MASS 765	765 147837 MASS230A	230 1	NA						
			Open 158 MS765SW2	0.0 147828 MASS 765	765 1	NA						
			Open 157 MS765SW1	0.0 147828 MASS 765	765 1	NA						
			Decrease bus 180001 BEA-DLX	13.8 generation by	100.0 percent dispatch							
			Set bus 181319 CHAT G3	120 load to	357.0 MW dispatch							
			Decrease bus 180002 BEA-DL	13.8 generation by	100.0 percent dispatch							
			Set bus 181419 CHAT G4	120 load to	357.0 MW dispatch							
3575	435.4	1810.0	L: Interface 49 C-PJMCentral				99.3	-0.0	-0.22819	-0.25066	167.2	58.0
			C:130757 WATRC345	345 130768 WATRC230	230 1 213							
			Open 130757 WATRC345	345 130768 WATRC230	230 1				-0.25396	-0.08850	267.1	228.5
3576	435.4	1810.0	L: Interface 50 PJMCentral-C				-99.3	0.0	0.22819	0.25066	-167.2	-58.0
			C:130757 WATRC345	345 130768 WATRC230	230 1 213							
			Open 130757 WATRC345	345 130768 WATRC230	230 1				0.25396	-0.08850	267.1	228.5
3577	442.5	1815.1	L: Interface 49 C-PJMCentral				110.9	0.0	-0.25066	-0.25066	167.2	56.2
			C:126250 RAMAPO 5	500 126296 RAM PAR	345 1 78							
			Open 126250 RAMAPO 5	500 126296 RAM PAR	345 1				-0.05618	0.00000	1000.9	1000.9
3578	442.5	1815.1	L: Interface 50 PJMCentral-C				-110.9	-0.0	0.25066	0.25066	-167.2	-56.2
			C:126250 RAMAPO 5	500 126296 RAM PAR	345 1 78							
			Open 126250 RAMAPO 5	500 126296 RAM PAR	345 1				0.05618	0.00000	1000.9	1000.9
3579	442.5	1815.1	L: Interface 50 PJMCentral-C				-110.9	-0.0	0.25066	0.25066	-167.2	-56.2
			C: 91 JEFFERSN	500 126250 RAMAPO 5	500 1 1351							
			Open 91 JEFFERSN	500 126250 RAMAPO 5	500 1				0.05618	0.00000	1000.9	1000.9
3580	442.5	1815.1	L: Interface 49 C-PJMCentral				110.9	0.0	-0.25066	-0.25066	167.2	56.2
			C: 91 JEFFERSN	500 126250 RAMAPO 5	500 1 1351							
			Open 91 JEFFERSN	500 126250 RAMAPO 5	500 1				-0.05618	0.00000	1000.9	1000.9
3581	477.9	1840.2	*L: Interface 49 C-PJMCentral				92.7	-0.0	-0.19392	-0.25066	167.2	47.4
			C:BUS:WATERCURE_230		1630							
			Open 130768 WATRC230	230 130772 SHRED230	230 1				0.32330	0.07924	59.5	97.4
			Open 130757 WATRC345	345 130768 WATRC230	230 1				-0.35172	-0.08850	267.1	224.8
			Open 130763 HILSD230	230 130768 WATRC230	230 1				0.40866	0.00000	0.5	0.5
3582	477.9	1840.2	*L: Interface 50 PJMCentral-C				-92.7	0.0	0.19392	0.25066	-167.2	-47.4
			C:BUS:WATERCURE_230		1630							
			Open 130768 WATRC230	230 130772 SHRED230	230 1				-0.32330	0.07924	59.5	97.4
			Open 130757 WATRC345	345 130768 WATRC230	230 1				0.35172	-0.08850	267.1	224.8

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			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.40866	0.00000	0.5	0.5
3747	648.8	1961.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				-1280.9	-1331.0	-0.07725	
			Base Case											
3798	657.5	1967.7	L: Interface 52 PJMEast-G								-62.6	0.0	0.09521	0.00000
			C:SER:C398/NWES											1602
			Open 409 GROVER	230	200675 E.TWANDA	230	1				-0.02785	0.00375	-15.8	-13.4
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				-0.38058	-0.25066	167.2	2.4
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1				-0.00407	0.01965	-71.6	-58.7
3799	657.5	1967.7	L: Interface 51 G-PJMEast								62.6	-0.0	-0.09521	-0.00000
			C:SER:C398/NWES											1602
			Open 409 GROVER	230	200675 E.TWANDA	230	1				0.02785	0.00375	-15.8	-13.4
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.38058	-0.25066	167.2	2.4
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1				0.00407	0.01965	-71.6	-58.7
3972	663.9	1972.3	L: Interface 51 G-PJMEast								63.2	0.0	-0.09523	-0.00000
			C:ETHS/NWES/LLGD											1645
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.37991	-0.25066	167.2	0.8
3973	663.9	1972.3	L: Interface 52 PJMEast-G								-63.2	-0.0	0.09523	0.00000
			C:ETHS/LLGD											1646
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				-0.37991	-0.25066	167.2	0.8
3974	663.9	1972.3*L:	Interface 52 PJMEast-G								-63.2	-0.0	0.09523	0.00000
			C:ETHS/NWES/LLGD											1645
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				-0.37991	-0.25066	167.2	0.8
3975	663.9	1972.3*L:	Interface 51 G-PJMEast								63.2	0.0	-0.09523	-0.00000
			C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1				0.37991	-0.25066	167.2	0.8
7100	934.6	2164.5	L: Interface 14 Leeds-PV								2521.8	2662.0	0.15005	
			Base Case											
7101	958.6	2181.6	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1				475.1	599.0	0.12924	
			Base Case											
7104	1013.7	2220.7	L: Interface 19 PJM-NY								2394.2	3114.0	0.71006	0.71006
			C:GEN:SEAB&OMS											1572
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00004	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch									
7105	1013.7	2220.7	L: Interface 19 PJM-NY								2394.2	3114.0	0.71006	0.71006
			C:GEN:SEABROOK											1570
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch									
7106	1013.7	2220.7	L: Interface 35 NY-PJM								-2394.2	-3114.0	-0.71006	-0.71006
			C:GEN:SEAB&OMS											1572
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00004	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch									
7107	1013.7	2220.7	L: Interface 35 NY-PJM								-2394.2	-3114.0	-0.71006	-0.71006
			C:GEN:SEABROOK											1570

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				Remove unit 1	from bus 102869	SBRK G1	25.0	1318.0	MW	dispatch							
7108	1019.4	2224.8	L:	Interface	35	NY-PJM					-2390.1	-3114.0	-0.71006	-0.71006	-1500.9	-2224.8	
			C:	SIN:250				1674									
				Open	100508	SANDB115	115	100509	SB	RCTOR	115	2		0.00004	0.00000	-0.1	-0.1
				Remove unit 3	from bus 103563	MILL#3	24.0	1276.0	MW	dispatch							
7109	1019.4	2224.8	L:	Interface	19	PJM-NY					2390.1	3114.0	0.71006	0.71006	1500.9	2224.8	
			C:	SIN:250				1674									
				Open	100508	SANDB115	115	100509	SB	RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1
				Remove unit 3	from bus 103563	MILL#3	24.0	1276.0	MW	dispatch							
7110	1035.6	2236.2	L:	Interface	19	PJM-NY					2378.7	3114.0	0.71006	0.71006	1500.9	2236.2	
			C:	GEN:MLS3&OMS				1571									
				Open	100508	SANDB115	115	100509	SB	RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1
				Remove unit 3	from bus 103563	MILL#3	24.0	1276.0	MW	dispatch							
7111	1035.6	2236.2	L:	Interface	35	NY-PJM					-2378.7	-3114.0	-0.71006	-0.71006	-1500.9	-2236.2	
			C:	GEN:MLS3&OMS				1571									
				Open	100508	SANDB115	115	100509	SB	RCTOR	115	2		0.00004	0.00000	-0.1	-0.1
				Remove unit 3	from bus 103563	MILL#3	24.0	1276.0	MW	dispatch							
7112	1035.6	2236.2	L:	Interface	35	NY-PJM					-2378.7	-3114.0	-0.71006	-0.71006	-1500.9	-2236.2	
			C:	GEN:MILLST 3				1569									
				Remove unit 3	from bus 103563	MILL#3	24.0	1276.0	MW	dispatch							
7113	1035.6	2236.2	L:	Interface	19	PJM-NY					2378.7	3114.0	0.71006	0.71006	1500.9	2236.2	
			C:	GEN:MILLST 3				1569									
				Remove unit 3	from bus 103563	MILL#3	24.0	1276.0	MW	dispatch							
7116	1109.8	2288.9	L:	Interface	19	PJM-NY					2331.3	3114.0	0.70527	0.71006	1500.9	2288.9	
			C:	HQ-NY-765-New				1773									
				Open	147827	MARCY765	765	147828	MASS	765	765	1		NA			
				Open	147828	MASS 765	765	180819	CHA-NY		765	1		NA			
				Open	147827	MARCY765	765	147833	MARCY T1		345	1		0.14598	-0.01753	624.7	605.2
				Open	147827	MARCY765	765	147833	MARCY T1		345	2		0.14598	-0.01524	543.6	526.7
				Open	156	MCY765SW	0.0	147827	MARCY765		765	1		NA			
				Open	147838	MASS230B	230	147839	MOSES E		230	1		-0.00000	0.01639	10.4	28.5
				Open	147828	MASS 765	765	147838	MASS230B		230	1		NA			
				Open	147837	MASS230A	230	147839	MOSES E		230	1		-0.60549	0.00000	18.8	18.8
				Open	147828	MASS 765	765	147837	MASS230A		230	1		NA			
				Open	158	MS765SW2	0.0	147828	MASS 765		765	1		NA			
				Open	157	MS765SW1	0.0	147828	MASS 765		765	1		NA			
				Decrease bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
				Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch				
				Decrease bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
				Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch				
7117	1109.8	2288.9	L:	Interface	35	NY-PJM					-2331.3	-3114.0	-0.70527	-0.71006	-1500.9	-2288.9	
			C:	HQ-NY-765-New				1773									

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			Open 147827	MARCY765	765	147828	MASS 765	765	1	NA						
			Open 147828	MASS 765	765	180819	CHA-NY	765	1	NA						
			Open 147827	MARCY765	765	147833	MARCY T1	345	1		-0.14598	-0.01753	624.7	605.2		
			Open 147827	MARCY765	765	147833	MARCY T1	345	2		-0.14598	-0.01524	543.6	526.7		
			Open 156	MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open 147838	MASS230B	230	147839	MOSES E	230	1		0.00000	0.01639	10.4	28.5		
			Open 147828	MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837	MASS230A	230	147839	MOSES E	230	1		0.60549	0.00000	18.8	18.8		
			Open 147828	MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158	MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open 157	MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set bus	181319	CHAT G3	120	load to	357.0	MW dispatch							
			Decrease bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus	181419	CHAT G4	120	load to	357.0	MW dispatch							
7118	1189.8	2345.8	L: Interface	35	NY-PJM						-2269.1	-3114.0	-0.71006	-0.71006	-1500.9	-2345.8
			C:GEN:IND PT 3					1552								
			Remove unit 1	from bus	147798	IP#3	GEN	22.0	1072.8	MW dispatch						
7119	1189.8	2345.8	L: Interface	19	PJM-NY						2269.1	3114.0	0.71006	0.71006	1500.9	2345.8
			C:GEN:IND PT 3					1552								
			Remove unit 1	from bus	147798	IP#3	GEN	22.0	1072.8	MW dispatch						
7120	1198.9	2352.2	L: 130757	WATRC345	345	200769	HOMER CY	345	1		-536.1	-755.0	-0.18257			
			Base Case													
7121	1198.9	2352.2	L: Interface	47	C-PJMWest						-536.1	-755.0	-0.18257			
			Base Case													
7122	1198.9	2352.2	L: Interface	48	PJMWest-C						536.1	755.0	0.18257			
			Base Case													
7123	1203.9	2355.7	L: Interface	35	NY-PJM						-2259.2	-3114.0	-0.71006	-0.71006	-1500.9	-2355.7
			C:GEN:IND PT 2					1551								
			Remove unit 2	from bus	126651	IND PT 2		22.0	1053.7	MW dispatch						
7124	1203.9	2355.7	L: Interface	19	PJM-NY						2259.2	3114.0	0.71006	0.71006	1500.9	2355.7
			C:GEN:IND PT 2					1551								
			Remove unit 2	from bus	126651	IND PT 2		22.0	1053.7	MW dispatch						
7125	1218.9	2366.4	L: Interface	19	PJM-NY						2248.5	3114.0	0.71006	0.71006	1500.9	2366.4
			C:GEN:9 MI PT2					1558								
			Remove unit 2	from bus	136700	9M PT 2G		25.0	1197.5	MW dispatch						
7126	1218.9	2366.4	L: Interface	35	NY-PJM						-2248.5	-3114.0	-0.71006	-0.71006	-1500.9	-2366.4
			C:GEN:9 MI PT2					1558								
			Remove unit 2	from bus	136700	9M PT 2G		25.0	1197.5	MW dispatch						
7127	1237.9	2379.9	L: 126294	PLTVLLEY	345	137455	ATHENS	345	1		-1240.9	-1331.0	-0.07280			
			Base Case													
7128	1255.2	2392.2	*L: Interface	35	NY-PJM						-2246.9	-3114.0	-0.69081	-0.71006	-1500.9	-2392.2

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			C:GEN:IND PT 3-New																		1770
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1				0.00000	-0.01351	522.5	505.5					
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2				0.71610	0.02688	-1041.8	-1008.0					
7129	1255.2	2392.2	*L: Interface	19	PJM-NY					2246.9	3114.0	0.69081		0.71006	1500.9	2392.2					
			C:GEN:IND PT 3-New																		1770
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1				0.00000	-0.01351	522.5	505.5					
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2				-0.71610	0.02688	-1041.8	-1008.0					
7132	1280.4	2410.1	L: Interface	26	ONTARIO-MICH					371.3	-0.0	-0.28994		-0.28994	742.5	371.3					
			C:GEN:BRUCE 6																		1561
			Remove unit 1 from bus 159617 BRUCEBG5	24.0	815.5	MW	dispatch														
7133	1283.2	2412.1	L: 130757 WATRC345	345	130768 WATRC230	230	1			452.6	600.0	0.11488		-0.08850	267.1	153.5					
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206													
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						-0.75026	-0.27108	-247.3	-595.1					
7138	1385.3	2484.5	L: 130817 JENN 115	115	130819 KATEL115	115	1			-111.2	-159.0	-0.03453		-0.01797	-73.1	-98.0					
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200													
			Open 130753 FRASR345	345	130755 OAKDL345	345	1						0.06521	-0.25395	-583.4	-935.2					
7139	1387.2	2485.9	L: 130794 DELHI115	115	130804 DEL T115	115	1			73.4	164.0	0.06529		0.03445	2.6	50.4					
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200													
			Open 130753 FRASR345	345	130755 OAKDL345	345	1						-0.12143	-0.25395	-583.4	-935.7					
7140	1412.7	2504.0	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1			54.6	143.0	0.06255		0.03323	27.9	74.8					
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206													
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						-0.10814	-0.27108	-247.3	-630.2					
7141	1415.4	2505.9	L: Interface	26	ONTARIO-MICH					404.5	-0.0	-0.28581		-0.28994	742.5	332.1					
			C:LAMBT7/LAMBGEN																		1643
			Open 160050 LAMB L4D	345	B\$1020 LAMBTON T7	1.00	T7						0.06546	0.06317	-235.4	-145.9					
			Open 160064 LAMB T78	220	B\$1020 LAMBTON T7	1.00	T7						0.72770	0.00000	0.3	0.3					
			Set bus 160705 LAMBTNG4	24.0	generation to					0.0	MW dispatch										
7142	1415.9	2506.3	L: Interface	26	ONTARIO-MICH					404.7	0.0	-0.28585		-0.28994	742.5	332.0					
			C:LAMBT8/LAMBGEN																		1644
			Open 160050 LAMB L4D	345	B\$1021 LAMBTON T8	1.00	T8						0.06524	0.06269	-233.5	-144.7					
			Open 160064 LAMB T78	220	B\$1021 LAMBTON T8	1.00	T8						0.72785	0.00000	0.4	0.4					
			Set bus 160705 LAMBTNG4	24.0	generation to					0.0	MW dispatch										
7143	1444.1	2526.3	L: 130848 S.OWE115	115	131850 CNYOG115	115	1			-52.7	-143.0	-0.06255		-0.03323	-25.9	-73.9					
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206													
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						0.10814	-0.27108	-247.3	-638.7					
7146	1558.6	2607.6	L: Interface	26	ONTARIO-MICH					445.5	0.0	-0.28581		-0.28994	742.5	290.6					
			C:L4D+G3																		1641
			Open 160050 LAMB L4D	345	B\$1020 LAMBTON T7	1.00	T7						0.06546	0.06317	-235.4	-136.9					
			Open 160064 LAMB T78	220	B\$1020 LAMBTON T7	1.00	T7						0.72770	0.00000	0.3	0.3					
			Open 160069 LAMBTPK2	220	160704 LAMBTNG3	24.0	T3						0.65877	0.00000	62.1	62.1					
			Remove unit 1 from bus 160704 LAMBTNG3	24.0	490.0	MW	dispatch														
7147	1559.1	2607.9	L: Interface	26	ONTARIO-MICH					445.7	0.0	-0.28585		-0.28994	742.5	290.5					

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			C:L51D+G3						1642					
			Open 160050 LAMB L4D	345	B\$1021	LAMBTON T8	1.00	T8		0.06524	0.06269	-233.5	-135.7	
			Open 160064 LAMB T78	220	B\$1021	LAMBTON T8	1.00	T8		0.72785	0.00000	0.4	0.4	
			Open 160069 LAMBTPK2	220	160704	LAMBTNG3	24.0	T3		0.65887	0.00000	62.1	62.1	
			Remove unit 1 from bus 160704 LAMBTNG3	24.0			490.0	MW dispatch						
7150	1562.3	2610.2	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2		-1578.0	-1725.0	-0.09410		-0.07725 -1280.9 -1401.6
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1	3					
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1		0.33049	-0.05098	-899.0	-978.6	
7151	1603.5	2639.5	L: Interface 54 NYE-PJME							-626.4	-787.0	-0.10017		0.00000 -452.1 -452.1
			C:BUS:WATERCURE_345						1629					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.44771	-0.18257	-536.1	-828.9	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		0.20821	-0.08850	267.1	125.1	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.46557	0.00000	21.8	21.8	
7152	1603.5	2639.5	L: Interface 53 PJME-NYE							626.4	787.0	0.10017		-0.00000 452.1 452.1
			C:BUS:WATERCURE_345						1629					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.44771	-0.18257	-536.1	-828.9	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.20821	-0.08850	267.1	125.1	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.46557	0.00000	21.8	21.8	
7155	1646.7	2670.2	L: 130750 COOPC345	345	130753	FRASR345	345	1		-998.8	-1207.0	-0.12641		
			Base Case											
7158	1719.7	2722.0	L: Interface 26 ONTARIO-MICH							506.3	-0.0	-0.29439		-0.28994 742.5 243.9
			C:HQ-NY-765-New						1773					
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833	MARCY T1	345	1		0.13561	-0.01753	624.7	594.5	
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		0.13561	-0.01524	543.6	517.4	
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839	MOSES E	230	1		0.00000	0.01639	10.4	38.5	
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839	MOSES E	230	1		0.36212	0.00000	18.8	18.8	
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by		100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to		357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by		100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to		357.0	MW dispatch						
7159	1730.7	2729.8	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2		-1567.1	-1725.0	-0.09121		-0.07725 -1280.9 -1414.6
			C:125002 ROSETON	345	126281	FISHKILL	345	1	10					
			Open 125002 ROSETON	345	126281	FISHKILL	345	1		-0.19002	0.07345	1506.5	1633.6	
7160	1730.7	2729.8	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2		-1567.1	-1725.0	-0.09121		-0.07725 -1280.9 -1414.6
			C:SIN:430						1679					

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			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.19002	0.07345	1506.5	1633.6
7167	1769.6	2757.4	L: Interface	26	ONTARIO-MICH				513.1	-0.0	-0.28994		-0.28994	742.5	229.5
			C:GEN:9 MI PT2					1558							
			Remove unit 2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch					
7178	1810.1	2786.1	L: Interface	26	ONTARIO-MICH				524.8	0.0	-0.28994		-0.28994	742.5	217.7
			C:GEN:NANTCK 8					1562							
			Remove unit 1	from bus	158743	NANTICG8	22.0	490.0	MW	dispatch					
7179	1812.0	2787.5	L: Interface	26	ONTARIO-MICH				525.4	0.0	-0.28994		-0.28994	742.5	217.2
			C:GEN:PICKER 6					1563							
			Remove unit 1	from bus	156683	PIC B G5	24.0	510.9	MW	dispatch					
7182	1834.6	2803.5	L: 130836 N.WAV115	115	131018	LOUNSL15	115	1	58.3	173.0	0.06255		0.03323	31.5	92.5
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.10814	-0.27108	-247.3	-744.6
7185	1854.8	2817.9	L: 130819 KATEL115	115	130838	OAKDL115	115	1	-128.0	-192.0	-0.03453		-0.01797	-89.9	-123.2
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755	OAKDL345	345	1				0.06521	-0.25395	-583.4	-1054.4
7186	1857.0	2819.4	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	695.7	783.0	0.04702				
			Base Case												
7187	1857.0	2819.4	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	695.7	783.0	0.04702				
			Base Case												
7190	1893.6	2845.5	L: 130814 HILSD115	115	131162	CHEMU115	115	1	60.6	179.0	0.06255		0.03323	33.8	96.7
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.10814	-0.27108	-247.3	-760.6
7191	1904.5	2853.2	L: Interface	14	Leeds-PV				3101.6	3450.0	0.18293		0.15005	2521.8	2807.5
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1	3						
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				-0.64499	-0.05098	-899.0	-996.1
7192	1917.8	2862.6	*L: Interface	26	ONTARIO-MICH				556.1	0.0	-0.28994		-0.28994	742.5	186.5
			C:GEN:SEABROOK					1570							
			Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch					
7204	1928.4	2870.2	L: 130817 JENN 115	115	130851	SIDNT115	115	1	56.0	120.0	0.03318		0.01775	20.6	54.8
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200						
			Open 130753 FRASR345	345	130755	OAKDL345	345	1				-0.06074	-0.25395	-583.4	-1073.1
7205	1930.5	2871.7	L: 130836 N.WAV115	115	131162	CHEMU115	115	1	-58.3	-179.0	-0.06255		-0.03323	-31.5	-95.7
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.10814	-0.27108	-247.3	-770.6
7207	1951.0	2886.3	L: 130801 PAVMT115	115	130857	STOLE115	115	1	-97.7	-179.0	-0.04165		-0.02953	-74.1	-131.7
			C:130857 STOLE115	115	130858	GIRD115	115	1	367						
			Open 130857 STOLE115	115	130858	GIRD115	115	1				-0.37820	0.03205	62.5	125.0
7208	1972.1	2901.2	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	690.9	783.0	0.04669				
			Base Case												
7209	1972.1	2901.2	L: 126266 DUNWODIE	345	126601	REAC72	345	SR	690.9	783.0	0.04669				
			Base Case												

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7221	2057.1	2961.5	L: 130768 WATRC230	230	130772 SHRED230	230	1	126.3	440.0	0.15248	0.07924	59.5	222.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.27018	-0.27108	-247.3 -804.9
7222	2069.8	2970.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1472.3	-1725.0	-0.12208	-0.07725	-1280.9	-1440.8
			C:137451 LEEDS 3	345	137455 ATHENS	345	1 1006						
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1				-0.44200	0.10141	433.1 643.0
7223	2076.6	2975.4	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-102.6	-179.0	-0.03677	-0.02953	-74.1	-135.4
			C:135398 SW345	345	135564 SW115	115	1 517						
			Open 135398 SW345	345	135564 SW115	115	1				-0.18217	0.03973	156.6 239.1
7225	2084.5	2981.0	L: Interface 14 Leeds-PV					3080.4	3450.0	0.17729	0.15005	2521.8	2834.5
			C:SIN:430				1679						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.37084	0.07345	1506.5 1659.6
7226	2084.5	2981.0	L: Interface 14 Leeds-PV					3080.4	3450.0	0.17729	0.15005	2521.8	2834.5
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.37084	0.07345	1506.5 1659.6
7232	2099.7	2991.8	L: 130765 OAKDL230	230	130772 SHRED230	230	1	-119.8	-440.0	-0.15248	-0.07924	-53.0	-219.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.27018	-0.27108	-247.3 -816.5
7233	2100.2	2992.2	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	-11.6	-143.0	-0.06255	-0.03323	15.1	-54.7
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.10814	-0.27108	-247.3 -816.6
7234	2101.1	2992.8	L: 130765 OAKDL230	230	130838 OAKDL115	115	1	119.6	440.0	0.15248	0.07924	52.8	219.3
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.27018	-0.27108	-247.3 -816.9
7258	2155.0	3031.1	L: 131018 LOUN115	115	131850 CNYOG115	115	1	-8.6	143.0	0.07033	0.03323	27.9	99.5
			C:BUS:WATERCURE_230				1630						
			Open 130768 WATRC230	230	130772 SHRED230	230	1				0.25255	0.07924	59.5 230.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.19304	-0.08850	267.1 76.3
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.14175	0.00000	0.5 0.5
7285	2182.9	3050.9	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	10.5	-143.0	-0.07033	-0.03323	-25.9	-98.5
			C:BUS:WATERCURE_230				1630						
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.25255	0.07924	59.5 232.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.19304	-0.08850	267.1 73.9
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.14175	0.00000	0.5 0.5
7343	2216.1	3074.5	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-96.6	-179.0	-0.03718	-0.02953	-74.1	-139.6
			C:SER:HCWC/NWES				1604						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04193	-0.18257	-536.1 -940.7
7344	2216.1	3074.5	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-96.6	-179.0	-0.03718	-0.02953	-74.1	-139.6
			C:SER:HC-WC_30&W-F_171				1598						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04193	-0.18257	-536.1 -940.7
7345	2216.1	3074.5	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-96.6	-179.0	-0.03718	-0.02953	-74.1	-139.6
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						

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				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.04193	-0.18257	-536.1	-940.7
7348	2217.8	3075.6	L:	130801 PAVMT115	115	130857	STOLE115	115	1	-96.3	-179.0	-0.03730	-0.02953	-74.1	-139.6	
				C:BUS:WATERCURE_345					1629							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.04224	-0.18257	-536.1	-941.0
				Open 130757 WATRC345	345	130768	WATRC230	230	1				0.00069	-0.08850	267.1	70.8
				Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.01417	0.00000	21.8	21.8
7523	2258.1	3104.3	L:	Interface 54 NYE-PJME						-641.4	-787.0	-0.06447	0.00000	-452.1	-452.1	
				C:SER:HCWC/NWES					1604							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.35313	-0.18257	-536.1	-948.4
7524	2258.1	3104.3	L:	Interface 53 PJME-NYE						641.4	787.0	0.06447	-0.00000	452.1	452.1	
				C:SER:HC-WC_30&W-F_171					1598							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.35313	-0.18257	-536.1	-948.4
7525	2258.1	3104.3	L:	Interface 54 NYE-PJME						-641.4	-787.0	-0.06447	0.00000	-452.1	-452.1	
				C:130757 WATRC345	345	200769	HOMER CY	345	1 1374							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.35313	-0.18257	-536.1	-948.4
7526	2258.1	3104.3	L:	Interface 53 PJME-NYE						641.4	787.0	0.06447	-0.00000	452.1	452.1	
				C:SER:HCWC/NWES					1604							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.35313	-0.18257	-536.1	-948.4
7527	2258.1	3104.3	L:	Interface 54 NYE-PJME						-641.4	-787.0	-0.06447	0.00000	-452.1	-452.1	
				C:SER:HC-WC_30&W-F_171					1598							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.35313	-0.18257	-536.1	-948.4
7528	2258.1	3104.3	L:	Interface 53 PJME-NYE						641.4	787.0	0.06447	-0.00000	452.1	452.1	
				C:130757 WATRC345	345	200769	HOMER CY	345	1 1374							
				Open 130757 WATRC345	345	200769	HOMER CY	345	1				-0.35313	-0.18257	-536.1	-948.4
7555	2263.5	3108.1	L:	130799 ERIE 115	115	130801	PAVMT115	115	1	-85.4	-179.0	-0.04133	-0.02947	-62.3	-129.0	
				C:130857 STOLE115	115	130858	GIRD115	115	1 367							
				Open 130857 STOLE115	115	130858	GIRD115	115	1				-0.37012	0.03205	62.5	135.0
7602	2267.0	3110.6	L:	126294 PLTVLLEY	345	137455	ATHENS	345	1	-1523.6	-1725.0	-0.08883	-0.07280	-1240.9	-1405.9	
				C:125000 HURLEY 3	345	137451	LEEDS 3	345	1 3							
				Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1				0.31450	-0.05098	-899.0	-1014.6
10057	2272.7	3114.7	L:	130787 CODNT115	115	130830	MONTR115	115	1	-4.9	-144.0	-0.06120	-0.03862	15.7	-72.1	
				C:130755 OAKDL345	345	130757	WATRC345	345	1 206							
				Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.08328	-0.27108	-247.3	-863.4
10589	2296.4	3131.5	L:	Interface 53 PJME-NYE						527.0	787.0	0.11323	-0.00000	452.1	452.1	
				C:LKWANA-OXBW					1648							
				Open 417 OXBOW	230	3070	LACKAWNA	230	1				-0.50460	-0.22439	-148.4	-663.7
10590	2296.4	3131.5	L:	Interface 54 NYE-PJME						-527.0	-787.0	-0.11323	0.00000	-452.1	-452.1	
				C:LKWANA-OXBW					1648							
				Open 417 OXBOW	230	3070	LACKAWNA	230	1				0.50460	-0.22439	-148.4	-663.7
10591	2297.2	3132.0	L:	130801 PAVMT115	115	130857	STOLE115	115	1	-85.9	-179.0	-0.04052	-0.02953	-74.1	-142.0	
				C:130806 GARDV115	115	130858	GIRD115	115	1 295							
				Open 130806 GARDV115	115	130858	GIRD115	115	1				0.36242	-0.03032	-32.6	-102.2

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10604	2301.5	3135.1	L: 131018 LOUN115	115	131850	CNYOG115	115	1	19.6	143.0	0.05363	0.03323	27.9	104.4
			C:BUS:WATERCURE_345					1629						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			-0.04994	-0.18257	-536.1	-956.3
			Open 130757 WATRC345	345	130768	WATRC230	230	1			-0.12751	-0.08850	267.1	63.4
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			-0.04854	0.00000	21.8	21.8
10663	2316.5	3145.8	L: 131018 LOUN115	115	131850	CNYOG115	115	1	-15.6	143.0	0.06846	0.03323	27.9	104.9
			C:130763 HILSD230	230	130768	WATRC230	230	1	219					
			Open 130763 HILSD230	230	130768	WATRC230	230	1			0.21004	0.16774	-207.1	181.5
10673	2331.9	3156.6	L: 130753 FRASR345	345	130755	OAKDL345	345	1	-776.4	-1380.0	-0.25887	-0.25395	-583.4	-1175.6
			C:130753 FRASR345	345	137200	EDIC	345	1	202					
			Open 130753 FRASR345	345	137200	EDIC	345	1			0.27444	-0.01789	-703.1	-744.9
10678	2338.0	3161.0	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-17.6	-143.0	-0.05363	-0.03323	-25.9	-103.6
			C:BUS:WATERCURE_345					1629						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1			0.04994	-0.18257	-536.1	-963.0
			Open 130757 WATRC345	345	130768	WATRC230	230	1			0.12751	-0.08850	267.1	60.1
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			0.04854	0.00000	21.8	21.8
10679	2341.8	3163.7	L: 131018 LOUN115	115	131850	CNYOG115	115	1	37.0	143.0	0.04529	0.03323	27.9	105.7
			C:130768 WATRC230	230	130772	SHRED230	230	1	227					
			Open 130768 WATRC230	230	130772	SHRED230	230	1			0.15213	0.07924	59.5	245.1
10680	2345.2	3166.1	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	17.6	-143.0	-0.06846	-0.03323	-25.9	-103.9
			C:130763 HILSD230	230	130768	WATRC230	230	1	219					
			Open 130763 HILSD230	230	130768	WATRC230	230	1			-0.21004	0.16774	-207.1	186.3
10685	2355.8	3173.7	L: 131018 LOUN115	115	131850	CNYOG115	115	1	36.3	143.0	0.04529	0.03323	27.9	106.2
			C:SER:OAKDALE_WATRC230					1591						
			Open 130768 WATRC230	230	130772	SHRED230	230	1			0.15213	0.07924	59.5	246.2
			Open 130765 OAKDL230	230	130772	SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			-0.09487	0.00000	6.7	6.7
10708	2363.6	3179.2	L: 131018 LOUN115	115	131850	CNYOG115	115	1	36.0	143.0	0.04529	0.03323	27.9	106.4
			C:130765 OAKDL230	230	130772	SHRED230	230	1	222					
			Open 130765 OAKDL230	230	130772	SHRED230	230	1			-0.15213	-0.07924	-53.0	-240.3
10709	2364.3	3179.7	L: 131018 LOUN115	115	131850	CNYOG115	115	1	35.9	143.0	0.04529	0.03323	27.9	106.5
			C:130765 OAKDL230	230	130838	OAKDL115	115	1	223					
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			0.15213	0.07924	52.8	240.2
10715	2374.6	3187.0	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	-184.7	-637.0	-0.19046	-0.15644	-73.7	-445.2
			C:SER:HC-SR_37&W-F_171					1597						
			Open 135398 SW345	345	200769	HOMER CY	345	1			0.28920	-0.11764	-383.9	-663.2
10716	2374.6	3187.0	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	-184.7	-637.0	-0.19046	-0.15644	-73.7	-445.2
			C:135398 SW345	345	200769	HOMER CY	345	1	1377					
			Open 135398 SW345	345	200769	HOMER CY	345	1			0.28920	-0.11764	-383.9	-663.2
10722	2385.1	3194.4	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-35.0	-143.0	-0.04529	-0.03323	-25.9	-105.2
			C:130768 WATRC230	230	130772	SHRED230	230	1	227					
			Open 130768 WATRC230	230	130772	SHRED230	230	1			-0.15213	0.07924	59.5	248.5

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10728	2399.1	3204.4	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-34.4	-143.0	-0.04529	-0.03323	-25.9	-105.7
			C:SER:OAKDALE_WATRC230					1591						
			Open 130768 WATRC230	230	130772	SHRED230	230	1			-0.15213	0.07924	59.5	249.6
			Open 130765 OAKDL230	230	130772	SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			0.09487	0.00000	6.7	6.7
10729	2400.0	3205.1	L: 130799 ERIE 115	115	130801	PAVMT115	115	1	-90.9	-179.0	-0.03672	-0.02947	-62.3	-133.1
			C:135398 SW345	345	135564	SW115	115	1 517						
			Open 135398 SW345	345	135564	SW115	115	1			-0.18233	0.03973	156.6	252.0
10731	2406.9	3209.9	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-34.0	-143.0	-0.04529	-0.03323	-25.9	-105.9
			C:130765 OAKDL230	230	130772	SHRED230	230	1 222						
			Open 130765 OAKDL230	230	130772	SHRED230	230	1			0.15213	-0.07924	-53.0	-243.7
10732	2407.6	3210.5	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-34.0	-143.0	-0.04529	-0.03323	-25.9	-105.9
			C:130765 OAKDL230	230	130838	OAKDL115	115	1 223						
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			-0.15213	0.07924	52.8	243.6
10735	2421.6	3220.4	L: 130824 LAPER115	115	136247	TULLER H	115	1	67.9	145.0	0.03183	0.01875	37.9	83.3
			C:130753 FRASR345	345	130755	OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755	OAKDL345	345	1			-0.05148	-0.25395	-583.4	-1198.4
10747	2459.3	3247.1	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1513.3	-1725.0	-0.08608	-0.07280	-1240.9	-1419.9
			C:125002 ROSETON	345	126281	FISHKILL	345	1 10						
			Open 125002 ROSETON	345	126281	FISHKILL	345	1			-0.18083	0.07345	1506.5	1687.2
10748	2459.3	3247.1	L: 126294 PLTVLLEY	345	137455	ATHENS	345	1	-1513.3	-1725.0	-0.08608	-0.07280	-1240.9	-1419.9
			C:SIN:430					1679						
			Open 125002 ROSETON	345	126281	FISHKILL	345	1			-0.18083	0.07345	1506.5	1687.2
10773	2492.5	3270.7	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	97.6	173.0	0.03025	0.02106	77.0	129.4
			C:147834 NIAG 345	345	149000	ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1			0.05013	0.18328	412.2	869.0
10783	2503.8	3278.7	L: 130755 OAKDL345	345	130757	WATRC345	345	1	-247.3	-926.0	-0.27108			
			Base Case											
10803	2520.7	3290.7	L: 130794 DELHI115	115	130851	SIDNT115	115	1	-37.9	-120.0	-0.03256	-0.01724	-2.8	-46.2
			C:130753 FRASR345	345	130755	OAKDL345	345	1 200						
			Open 130753 FRASR345	345	130755	OAKDL345	345	1			0.06029	-0.25395	-583.4	-1223.5
10810	2525.1	3293.9	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1320.1	-1703.0	-0.15165	-0.12641	-998.8	-1318.0
			C:130750 COOPC345	345	147833	MARCY T1	345	1 196						
			Open 130750 COOPC345	345	147833	MARCY T1	345	1			0.43528	-0.05797	-738.0	-884.4
10821	2530.2	3297.5	L: 130836 N.WAV115	115	131018	LOUNS115	115	1	-4.9	173.0	0.07033	0.03323	31.5	115.6
			C:BUS:WATERCURE_230					1630						
			Open 130768 WATRC230	230	130772	SHRED230	230	1			0.25255	0.07924	59.5	260.0
			Open 130757 WATRC345	345	130768	WATRC230	230	1			-0.19304	-0.08850	267.1	43.1
			Open 130763 HILSD230	230	130768	WATRC230	230	1			0.14175	0.00000	0.5	0.5
10822	2530.9	3298.0	L: 131018 LOUNS115	115	131850	CNYOG115	115	1	27.9	112.0	0.03323			
			Base Case											
10833	2536.8	3302.2	L: 130799 ERIE 115	115	130801	PAVMT115	115	1	-84.8	-179.0	-0.03713	-0.02947	-62.3	-137.1

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			C:SER:HCWC/NWES																	1604
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1				0.04194	-0.18257	-536.1	-999.3				
10834	2536.8	3302.2	L: 130799 ERIE 115	115	130801	PAVMT115		115	1	-84.8	-179.0	-0.03713		-0.02947	-62.3	-137.1				
			C:130757 WATRC345	345	200769	HOMER	CY	345	1											1374
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1				0.04194	-0.18257	-536.1	-999.3				
10835	2536.8	3302.2	L: 130799 ERIE 115	115	130801	PAVMT115		115	1	-84.8	-179.0	-0.03713		-0.02947	-62.3	-137.1				
			C:SER:HC-WC_30&W-F_171																	1598
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1				0.04194	-0.18257	-536.1	-999.3				
10836	2537.5	3302.7	L: 130799 ERIE 115	115	130801	PAVMT115		115	1	-84.5	-179.0	-0.03725		-0.02947	-62.3	-137.1				
			C:BUS:WATERCURE_345																	1629
			Open 130757 WATRC345	345	200769	HOMER	CY	345	1				0.04225	-0.18257	-536.1	-999.4				
			Open 130757 WATRC345	345	130768	WATRC230		230	1				0.00068	-0.08850	267.1	42.5				
			Open 130755 OAKDL345	345	130757	WATRC345		345	1				0.01417	0.00000	21.8	21.8				
12347	2582.7	3334.8	L: 130814 HILSD115	115	131162	CHEMU115		115	1	-2.6	179.0	0.07033		0.03323	33.8	119.6				
			C:BUS:WATERCURE_230																	1630
			Open 130768 WATRC230	230	130772	SHRED230		230	1				0.25255	0.07924	59.5	264.2				
			Open 130757 WATRC345	345	130768	WATRC230		230	1				-0.19304	-0.08850	267.1	38.5				
			Open 130763 HILSD230	230	130768	WATRC230		230	1				0.14175	0.00000	0.5	0.5				
12350	2584.1	3335.8	L: 130755 OAKDL345	345	130757	WATRC345		345	1	-276.2	-1076.0	-0.30952		-0.27108	-247.3	-947.8				
			C:130768 WATRC230	230	130772	SHRED230		230	1											227
			Open 130768 WATRC230	230	130772	SHRED230		230	1				-0.48514	0.07924	59.5	264.3				
12359	2585.5	3336.8	L: 130799 ERIE 115	115	130801	PAVMT115		115	1	-74.2	-179.0	-0.04053		-0.02947	-62.3	-138.5				
			C:130806 GARDV115	115	130858	GIRD115		115	1											295
			Open 130806 GARDV115	115	130858	GIRD115		115	1				0.36474	-0.03032	-32.6	-111.0				
12365	2588.9	3339.1	L: 130755 OAKDL345	345	130757	WATRC345		345	1	-274.7	-1076.0	-0.30952		-0.27108	-247.3	-949.1				
			C:SER:OAKDALE_WATRC230																	1591
			Open 130768 WATRC230	230	130772	SHRED230		230	1				-0.48514	0.07924	59.5	264.7				
			Open 130765 OAKDL230	230	130772	SHRED230		230	1			NA								
			Open 130765 OAKDL230	230	130838	OAKDL115		115	1				0.21812	0.00000	6.7	6.7				
12367	2589.9	3339.9	L: 130848 S.OWE115	115	131850	CNYOG115		115	1	-25.9	-112.0	-0.03323								
			Base Case																	
12379	2593.8	3342.6	L: 130763 HILSD230	230	200675	E.TWANDA		230	1	167.2	-483.0	-0.25066								
			Base Case																	
12383	2594.3	3343.0	L: 130755 OAKDL345	345	130757	WATRC345		345	1	-273.0	-1076.0	-0.30952		-0.27108	-247.3	-950.5				
			C:130765 OAKDL230	230	130772	SHRED230		230	1											222
			Open 130765 OAKDL230	230	130772	SHRED230		230	1				0.48514	-0.07924	-53.0	-258.6				
12385	2594.7	3343.3	L: 130755 OAKDL345	345	130757	WATRC345		345	1	-272.9	-1076.0	-0.30952		-0.27108	-247.3	-950.6				
			C:130765 OAKDL230	230	130838	OAKDL115		115	1											223
			Open 130765 OAKDL230	230	130838	OAKDL115		115	1				-0.48514	0.07924	52.8	258.4				
12398	2597.4	3345.2	L: 130763 HILSD230	230	131193	HILSD M3		34.5	1	130.0	336.0	0.07929		0.04445	98.3	213.7				
			C:130755 OAKDL345	345	130757	WATRC345		345	1											206
			Open 130755 OAKDL345	345	130757	WATRC345		345	1				-0.12854	-0.27108	-247.3	-951.4				

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12406	2599.4	3346.6	L: 130814 HILSD115	115	131193 HILSD M3	34.5	1	-129.9	-336.0	-0.07929	-0.04445	-98.1	-213.6
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.12854	-0.27108	-247.3	-951.9
12428	2609.9	3354.1	L: 135250 DUNKIRK	230	135251 S RIPLEY	230	1	-73.7	-482.0	-0.15644			
			Base Case										
12430	2615.5	3358.1	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	4.9	-179.0	-0.07033	-0.03323	-31.5	-118.4
			C:BUS:WATERCURE_230				1630						
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.25255	0.07924	59.5	266.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.19304	-0.08850	267.1	35.6
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.14175	0.00000	0.5	0.5
12464	2639.0	3374.8	L: Interface 15 ItoNYC345					2799.3	3288.0	0.18517			
			Base Case										
12466	2644.6	3378.7	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-583.4	-1255.0	-0.25395			
			Base Case										
12469	2649.1	3381.9	L: 130763 HILSD230	230	130768 WATRC230	230	1	13.6	657.0	0.24288	0.16774	-207.1	237.3
			C:SER:HCWC/NWES				1604						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.41157	-0.18257	-536.1	-1019.8
12470	2649.1	3381.9	L: 130763 HILSD230	230	130768 WATRC230	230	1	13.6	657.0	0.24288	0.16774	-207.1	237.3
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.41157	-0.18257	-536.1	-1019.8
12471	2649.1	3381.9	L: 130763 HILSD230	230	130768 WATRC230	230	1	13.6	657.0	0.24288	0.16774	-207.1	237.3
			C:SER:HC-WC_30&W-F_171				1598						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.41157	-0.18257	-536.1	-1019.8
12473	2666.5	3394.3	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-356.6	-1076.0	-0.26980	-0.27108	-247.3	-970.1
			C:HQ-NY-765-New				1773						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.03887	-0.01753	624.7	577.9
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.03887	-0.01524	543.6	502.9
			Open 156 MCY765SW	0.0	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	0.01639	10.4	54.1
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.06131	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
12480	2684.2	3406.9	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-348.4	-1076.0	-0.27108	-0.27108	-247.3	-974.9
			C:GEN:9 MI PT2				1558						

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                Remove unit 2 from bus 136700 9M PT 2G      25.0 1197.5 MW dispatch
12482  2701.9  3419.4 L: 130836 N.WAV115      115 131018 LOUN5115      115 1
                C:130763 HILSD230      230 130768 WATRC230      230 1 219
                Open 130763 HILSD230      230 130768 WATRC230      230 1
                0.21004  0.16774 -207.1  246.1
12483  2714.3  3428.2 L: 130801 PAVMT115      115 130857 STOLE115      115 1
                C:130806 GARDV115      115 135450 GRDNVL1      115 1 297
                Open 130806 GARDV115      115 135450 GRDNVL1      115 1
                -0.12147  0.03417  110.8  203.6
12485  2719.3  3431.8 L: 130768 WATRC230      230 130772 SHRED230      230 1
                59.5  275.0  0.07924
                Base Case
12487  2723.0  3434.4 L: 146771 SHOEM138      138 146772 SHOEMTAP      138 1
                C:125001 ROCK TAV      345 126297 RAMAPO      345 1 7
                Open 125001 ROCK TAV      345 126297 RAMAPO      345 1
                -0.14319  0.10676 1115.0 1405.7
12488  2723.0  3434.4 L: 146771 SHOEM138      138 146772 SHOEMTAP      138 1
                C:SIN:440                                 1680
                Open 125001 ROCK TAV      345 126297 RAMAPO      345 1
                -0.14319  0.10676 1115.0 1405.7
12489  2735.4  3443.2 L: 135251 S RIPLEY      230 200654 ERIE E      230 1
                C:SER:HC-SR_37&W-F_171      1597
                Open 135398 SW345      345 200769 HOMER CY      345 1
                0.28920 -0.11764 -383.9 -705.7
12490  2735.4  3443.2 L: 135251 S RIPLEY      230 200654 ERIE E      230 1
                C:135398 SW345      345 200769 HOMER CY      345 1 1377
                Open 135398 SW345      345 200769 HOMER CY      345 1
                0.28920 -0.11764 -383.9 -705.7
12493  2748.0  3452.2 L: 130755 OAKDL345      345 130757 WATRC345      345 1
                C:GEN:SEABROOK                                 1570
                Remove unit 1 from bus 102869 SBRK G1      25.0 1318.0 MW dispatch
12494  2748.0  3452.2 L: 130755 OAKDL345      345 130757 WATRC345      345 1
                C:GEN:SEAB&OMS                                 1572
                Open 100508 SANDB115      115 100509 SB RCTOR      115 2
                -0.00000  0.00000 -0.1 -0.1
                Remove unit 1 from bus 102869 SBRK G1      25.0 1318.0 MW dispatch
12495  2749.1  3452.9 L: 126294 PLTVLLEY      345 137451 LEEDS 3      345 2
                C:125000 HURLEY 3      345 125002 ROSETON      345 1 1
                Open 125000 HURLEY 3      345 125002 ROSETON      345 1
                -0.29386  0.04711  659.1  788.7
12496  2750.7  3454.1 L: 130755 OAKDL345      345 130757 WATRC345      345 1
                C:SIN:250                                 1674
                Open 100508 SANDB115      115 100509 SB RCTOR      115 2
                -0.00000  0.00000 -0.1 -0.1
                Remove unit 3 from bus 103563 MILL#3      24.0 1276.0 MW dispatch
12497  2751.5  3454.6 L: 130753 FRASR345      345 130755 OAKDL345      345 1
                C:130750 COOPC345      345 147833 MARCY T1      345 1 196
                Open 130750 COOPC345      345 147833 MARCY T1      345 1
                0.10902 -0.05797 -738.0 -897.5
12498  2752.5  3455.3 L: 130753 FRASR345      345 130755 OAKDL345      345 1
                C:SIN:250                                 1674
                Open 100508 SANDB115      115 100509 SB RCTOR      115 2
                0.00002  0.00000 -0.1 -0.1
                Remove unit 3 from bus 103563 MILL#3      24.0 1276.0 MW dispatch
    
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12499	2755.9	3457.7	L: 130814 HILSD115	115	131162 CHEMU115	115	1	-9.7	179.0	0.06846	0.03323	33.8	125.4
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.21004	0.16774	-207.1 255.2
12505	2762.6	3462.5	*L: 130755 OAKDL345	345	130757 WATRC345	345	1	-390.3	-1076.0	-0.24819	-0.27108	-247.3	-996.2
			C:130755 OAKDL345	345	131128 LAPEER	345	1 209						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				0.25316	0.09038	-565.0 -315.4
12507	2764.3	3463.7	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-657.0	-1380.0	-0.26156	-0.25395	-583.4	-1285.4
			C:SIN:180				1669						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.07434	-0.10231	-914.5 -1197.3
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.04703	0.00000	119.9 119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1				0.00062	0.00021	88.8 89.4
12508	2764.4	3463.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-657.0	-1380.0	-0.26156	-0.25395	-583.4	-1285.4
			C:SIN:170				1668						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.07434	-0.10231	-914.5 -1197.3
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.04711	0.00000	119.9 119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00093	0.00029	74.8 75.6
12509	2766.4	3465.2	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	51.6	-143.0	-0.07033	-0.03323	15.1	-76.8
			C:BUS:WATERCURE_230				1630						
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.25255	0.07924	59.5 278.7
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.19304	-0.08850	267.1 22.2
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.14175	0.00000	0.5 0.5
12516	2789.5	3481.6	L: 130836 N.WAV115	115	131162 CHEMU115	115	1	12.0	-179.0	-0.06846	-0.03323	-31.5	-124.2
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.21004	0.16774	-207.1 260.8
12517	2792.9	3484.0	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-670.7	-1380.0	-0.25395	-0.25395	-583.4	-1292.7
			C:GEN:SEABROOK				1570						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
12518	2792.9	3484.0	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-670.7	-1380.0	-0.25395	-0.25395	-583.4	-1292.7
			C:GEN:SEAB&OMS				1572						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00002	0.00000	-0.1 -0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
12519	2793.4	3484.3	L: 130836 N.WAV115	115	131018 LOUNS115	115	1	23.2	173.0	0.05363	0.03323	31.5	124.3
			C:BUS:WATERCURE_345				1629						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.04994	-0.18257	-536.1 -1046.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.12751	-0.08850	267.1 19.8
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.04854	0.00000	21.8 21.8
12520	2793.7	3484.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.8	-1380.0	-0.26138	-0.25395	-583.4	-1292.9
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1 1012						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.07260	-0.10231	-914.5 -1200.3
12521	2796.1	3486.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-669.9	-1380.0	-0.25395	-0.25395	-583.4	-1293.5
			C:GEN:MLS3&OMS				1571						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00002	0.00000	-0.1 -0.1

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				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
12522	2796.1	3486.3	*L:	130753 FRASR345 345 130755 OAKDL345	345	1		-669.9	-1380.0	-0.25395		-0.25395	-583.4 -1293.5
				C:GEN:MILLST 3		1569							
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch					
12525	2801.3	3490.0	L:	130765 OAKDL230 230 130772 SHRED230	230	1		-53.0	-275.0	-0.07924			
				Base Case									
12527	2804.1	3492.0	L:	130765 OAKDL230 230 130838 OAKDL115	115	1		52.8	275.0	0.07924			
				Base Case									
12531	2827.3	3508.5	L:	130801 PAVMT115 115 130857 STOLE115	115	1		-85.2	-179.0	-0.03318		-0.02953	-74.1 -157.6
				C:130857 STOLE115 115 131466 DAVIS115	115	1	368						
				Open 130857 STOLE115 115 131466 DAVIS115	115	1					-0.28661	0.01275	38.6 74.6
12543	2862.3	3533.3	L:	130814 HILSD115 115 131162 CHEMU115	115	1		25.5	179.0	0.05363		0.03323	33.8 128.9
				C:BUS:WATERCURE_345		1629							
				Open 130757 WATRC345 345 200769 HOMER CY	345	1					-0.04994	-0.18257	-536.1 -1058.7
				Open 130757 WATRC345 345 130768 WATRC230	230	1					-0.12751	-0.08850	267.1 13.7
				Open 130755 OAKDL345 345 130757 WATRC345	345	1					-0.04854	0.00000	21.8 21.8
12546	2864.7	3535.0	L:	Interface 41 I-to-K				936.8	1307.0	0.12924			
				Base Case									
12547	2864.7	3535.0	L:	Interface 42 K-to-I				-936.8	-1307.0	-0.12924			
				Base Case									
12552	2886.7	3550.7	L:	130750 COOPC345 345 146754 MDTN TAP	345	1		1352.2	1793.0	0.15271		0.09573	874.4 1150.7
				C:125001 ROCK TAV 345 130750 COOPC345	345	2	8						
				Open 125001 ROCK TAV 345 130750 COOPC345	345	2					-0.64271	-0.08865	-743.4 -999.3
12556	2894.6	3556.2	L:	136184 CORTLAND 115 136247 TULLER H	115	1		-66.9	-159.0	-0.03183		-0.01875	-36.8 -91.1
				C:130753 FRASR345 345 130755 OAKDL345	345	1	200						
				Open 130753 FRASR345 345 130755 OAKDL345	345	1					0.05148	-0.25395	-583.4 -1318.5
12568	2905.2	3563.8	L:	130836 N.WAV115 115 131162 CHEMU115	115	1		-23.2	-179.0	-0.05363		-0.03323	-31.5 -128.1
				C:BUS:WATERCURE_345		1629							
				Open 130757 WATRC345 345 200769 HOMER CY	345	1					0.04994	-0.18257	-536.1 -1066.5
				Open 130757 WATRC345 345 130768 WATRC230	230	1					0.12751	-0.08850	267.1 9.9
				Open 130755 OAKDL345 345 130757 WATRC345	345	1					0.04854	0.00000	21.8 21.8
12573	2924.4	3577.4	L:	130836 N.WAV115 115 131018 LOUNSD115	115	1		40.6	173.0	0.04529		0.03323	31.5 128.7
				C:130768 WATRC230 230 130772 SHRED230	230	1	227						
				Open 130768 WATRC230 230 130772 SHRED230	230	1					0.15213	0.07924	59.5 291.2
12578	2938.4	3587.4	L:	130836 N.WAV115 115 131018 LOUNSD115	115	1		39.9	173.0	0.04529		0.03323	31.5 129.2
				C:SER:OAKDALE_WATRC230		1591							
				Open 130768 WATRC230 230 130772 SHRED230	230	1					0.15213	0.07924	59.5 292.4
				Open 130765 OAKDL230 230 130772 SHRED230	230	1				NA			
				Open 130765 OAKDL230 230 130838 OAKDL115	115	1					-0.09487	0.00000	6.7 6.7
12581	2944.6	3591.7	L:	130807 GOUDY115 115 130848 S.OWE115	115	1		58.6	-143.0	-0.06846		-0.03323	15.1 -82.8
				C:130763 HILSD230 230 130768 WATRC230	230	1	219						
				Open 130763 HILSD230 230 130768 WATRC230	230	1					-0.21004	0.16774	-207.1 286.9

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12582	2946.2	3592.9	L: 130836 N.WAV115	115	131018	LOUNSI115	115	1	39.6	173.0	0.04529	0.03323	31.5	129.4
			C:130765 OAKDL230	230	130772	SHRED230	230	1 222						
			Open 130765 OAKDL230	230	130772	SHRED230	230	1				-0.15213	-0.07924	-53.0 -286.5
12583	2946.9	3593.4	L: 130836 N.WAV115	115	131018	LOUNSI115	115	1	39.5	173.0	0.04529	0.03323	31.5	129.4
			C:130765 OAKDL230	230	130838	OAKDL115	115	1 223						
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1				0.15213	0.07924	52.8 286.3
12587	2954.8	3599.0	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-82.1	-173.0	-0.03075	-0.02141	-61.1	-124.4
			C:147834 NIAG 345	345	149000	ROCH 345	345	1 1226						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				-0.05097	0.18328	412.2 953.7
12604	2986.3	3621.4	L: 130763 HILSD230	230	131193	HILSD M3	34.5	1	98.3	231.0	0.04445			
			Base Case											
12610	2989.9	3623.9	L: 130814 HILSD115	115	131193	HILSD M3	34.5	1	-98.1	-231.0	-0.04445			
			Base Case											
12614	2994.1	3626.9	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	-120.7	-637.0	-0.17244	-0.15644	-73.7	-542.1
			C:SER:HCWC/NWES					1604						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.08765	-0.18257	-536.1 -1082.8
12615	2994.1	3626.9	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	-120.7	-637.0	-0.17244	-0.15644	-73.7	-542.1
			C:SER:HC-WC_30&W-F_171					1598						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.08765	-0.18257	-536.1 -1082.8
12616	2994.1	3626.9	L: 135250 DUNKIRK	230	135251	S RIPLEY	230	1	-120.7	-637.0	-0.17244	-0.15644	-73.7	-542.1
			C:130757 WATRC345	345	200769	HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1				0.08765	-0.18257	-536.1 -1082.8

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PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- THU, MAY 07 2009 21:53
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File abb-v3-pjm-ny-fw-recond.sav
 Subsys.File STARS-TTL.SUB
 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

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 Monit.File STARS-TTL.MON
 Contin.File STARS-TTL.CON
 Exclud.File STARS.exc

Study transfer. From PJM_EXPORT To NYCA_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 28473 violations

Interface-1 Interface 19 PJM-NY Init.Flow= 1498.19 TDF= 0.7347

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
			C: Contingency description	Ncon	Flow	Rating	LODF	Init	Final
1	-4481.5	-1794.5	L: Interface 61 PJMC2C C:130755 OAKDL345 345 130757 WATRC345 345 1 206 Open 130755 OAKDL345 345 130757 WATRC345 345 1	477.5	-0.0	0.10656	0.16739	543.5	-206.6
2	-4481.5	-1794.5	L: Interface 47 C-PJMWest C:130755 OAKDL345 345 130757 WATRC345 345 1 206 Open 130755 OAKDL345 345 130757 WATRC345 345 1	-477.5	0.0	-0.10656	-0.16739	-543.5	206.6
3	-4481.5	-1794.5	L: Interface 48 PJMWest-C C:130755 OAKDL345 345 130757 WATRC345 345 1 206 Open 130755 OAKDL345 345 130757 WATRC345 345 1	477.5	-0.0	0.10656	0.16739	543.5	-206.6
4	-4481.5	-1794.5	L: Interface 60 C2PJMC C:130755 OAKDL345 345 130757 WATRC345 345 1 206 Open 130755 OAKDL345 345 130757 WATRC345 345 1	-477.5	0.0	-0.10656	-0.16739	-543.5	206.6
5	-3797.1	-1291.6	L: Interface 60 C2PJMC	-565.8	0.0	-0.14901	-0.16739	-543.5	92.1

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			C:KEY-SHELOCTA/BLAIRSVL-SOCIAL												1650							
			Open	505	SHELOCTA	230	521	KEYSTONE	230	1								-0.16584	-0.10543	50.1	450.4	
			Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1								-0.13926	-0.00647	100.2	124.8	
6	-3797.1	-1291.6	L:	Interface	47	C-PJMWest					-565.8	0.0	-0.14901					-0.16739		-543.5	92.1	
						C:KEY-SHELOCTA/BLAIRSVL-SOCIAL																
						Open	505	SHELOCTA	230	521	KEYSTONE	230	1						-0.16584	-0.10543	50.1	450.4
						Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1						-0.13926	-0.00647	100.2	124.8
7	-3797.1	-1291.6	L:	Interface	61	PJMC2C					565.8	-0.0	0.14901					0.16739		543.5	-92.1	
						C:KEY-SHELOCTA/BLAIRSVL-SOCIAL																
						Open	505	SHELOCTA	230	521	KEYSTONE	230	1						0.16584	-0.10543	50.1	450.4
						Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1						0.13926	-0.00647	100.2	124.8
8	-3797.1	-1291.6	L:	Interface	48	PJMWest-C					565.8	-0.0	0.14901					0.16739		543.5	-92.1	
						C:KEY-SHELOCTA/BLAIRSVL-SOCIAL																
						Open	505	SHELOCTA	230	521	KEYSTONE	230	1						0.16584	-0.10543	50.1	450.4
						Open	473	BLAIRSVL	138	235253	01SOCIAL	138	1						0.13926	-0.00647	100.2	124.8
9	-3781.0	-1279.8	L:	Interface	47	C-PJMWest					-629.8	-0.0	-0.16658					-0.16739		-543.5	89.4	
						C:HQ-NY-765-New																
						Open	147827	MARCY765	765	147828	MASS 765	765	1									
						Open	147828	MASS 765	765	180819	CHA-NY	765	1									
						Open	147827	MARCY765	765	147833	MARCY T1	345	1						-0.02483	-0.01752	624.7	691.0
						Open	147827	MARCY765	765	147833	MARCY T1	345	2						-0.02483	-0.01524	543.6	601.2
						Open	156	MCY765SW	0.0	147827	MARCY765	765	1									
						Open	147838	MASS230B	230	147839	MOSES E	230	1						0.00000	0.01638	10.3	-51.6
						Open	147828	MASS 765	765	147838	MASS230B	230	1									
						Open	147837	MASS230A	230	147839	MOSES E	230	1						0.05514	0.00000	18.8	18.8
						Open	147828	MASS 765	765	147837	MASS230A	230	1									
						Open	158	MS765SW2	0.0	147828	MASS 765	765	1									
						Open	157	MS765SW1	0.0	147828	MASS 765	765	1									
						Decrease	bus 180001	BEA-DLX		13.8	generation by		100.0	percent	dispatch							
						Set	bus 181319	CHAT G3		120	load to		357.0	MW	dispatch							
						Decrease	bus 180002	BEA-DL		13.8	generation by		100.0	percent	dispatch							
						Set	bus 181419	CHAT G4		120	load to		357.0	MW	dispatch							
10	-3781.0	-1279.8	L:	Interface	61	PJMC2C					629.8	0.0	0.16658					0.16739		543.5	-89.4	
						C:HQ-NY-765-New																
						Open	147827	MARCY765	765	147828	MASS 765	765	1									
						Open	147828	MASS 765	765	180819	CHA-NY	765	1									
						Open	147827	MARCY765	765	147833	MARCY T1	345	1						0.02483	-0.01752	624.7	691.0
						Open	147827	MARCY765	765	147833	MARCY T1	345	2						0.02483	-0.01524	543.6	601.2
						Open	156	MCY765SW	0.0	147827	MARCY765	765	1									
						Open	147838	MASS230B	230	147839	MOSES E	230	1						-0.00000	0.01638	10.3	-51.6
						Open	147828	MASS 765	765	147838	MASS230B	230	1									
						Open	147837	MASS230A	230	147839	MOSES E	230	1						-0.05514	0.00000	18.8	18.8

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	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
	Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch					
	Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch					
11	-3781.0	-1279.8	L: Interface	60	C2PJMC		-629.8	-0.0	-0.16658		-0.16739	-543.5	89.4	
			C:HQ-NY-765-New											
	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
	Open	147827	MARCY765	765	147833	MARCY T1	345	1		-0.02483	-0.01752	624.7	691.0	
	Open	147827	MARCY765	765	147833	MARCY T1	345	2		-0.02483	-0.01524	543.6	601.2	
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
	Open	147838	MASS230B	230	147839	MOSES E	230	1		0.00000	0.01638	10.3	-51.6	
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
	Open	147837	MASS230A	230	147839	MOSES E	230	1		0.05514	0.00000	18.8	18.8	
	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
	Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch					
	Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch					
12	-3781.0	-1279.8	L: Interface	48	PJMWest-C		629.8	0.0	0.16658		0.16739	543.5	-89.4	
			C:HQ-NY-765-New											
	Open	147827	MARCY765	765	147828	MASS 765	765	1	NA					
	Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA					
	Open	147827	MARCY765	765	147833	MARCY T1	345	1		0.02483	-0.01752	624.7	691.0	
	Open	147827	MARCY765	765	147833	MARCY T1	345	2		0.02483	-0.01524	543.6	601.2	
	Open	156	MCY765SW	0.0	147827	MARCY765	765	1	NA					
	Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	0.01638	10.3	-51.6	
	Open	147828	MASS 765	765	147838	MASS230B	230	1	NA					
	Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.05514	0.00000	18.8	18.8	
	Open	147828	MASS 765	765	147837	MASS230A	230	1	NA					
	Open	158	MS765SW2	0.0	147828	MASS 765	765	1	NA					
	Open	157	MS765SW1	0.0	147828	MASS 765	765	1	NA					
	Decrease	bus 180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181319	CHAT G3	120	load	to	357.0	MW	dispatch					
	Decrease	bus 180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
	Set	bus 181419	CHAT G4	120	load	to	357.0	MW	dispatch					
13	-3767.9	-1270.2	L: Interface	61	PJMC2C		596.0	0.0	0.15819		0.16739	543.5	-87.2	

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				C:130755 OAKDL345	345	131128	LAPEER	345	1	209									
				Open 130755 OAKDL345	345	131128	LAPEER	345	1				-0.09120	0.10093	-575.7	-956.0			
14	-3767.9	-1270.2	L:	Interface	47	C-PJMWest							-596.0	-0.0	-0.15819	-0.16739	-543.5	87.2	
				C:130755 OAKDL345	345	131128	LAPEER	345	1	209									
				Open 130755 OAKDL345	345	131128	LAPEER	345	1				0.09120	0.10093	-575.7	-956.0			
15	-3767.9	-1270.2	L:	Interface	60	C2PJMC							-596.0	-0.0	-0.15819	-0.16739	-543.5	87.2	
				C:130755 OAKDL345	345	131128	LAPEER	345	1	209									
				Open 130755 OAKDL345	345	131128	LAPEER	345	1				0.09120	0.10093	-575.7	-956.0			
16	-3767.9	-1270.2	L:	Interface	48	PJMWest-C							596.0	0.0	0.15819	0.16739	543.5	-87.2	
				C:130755 OAKDL345	345	131128	LAPEER	345	1	209									
				Open 130755 OAKDL345	345	131128	LAPEER	345	1				-0.09120	0.10093	-575.7	-956.0			
17	-3763.5	-1266.9	L:	Interface	61	PJMC2C							597.3	-0.0	0.15870	0.16739	543.5	-86.4	
				C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392									
				Open 131128 LAPEER	345	136153	LAFAYTTE	345	1				-0.08234	0.10557	-652.6	-1049.9			
18	-3763.5	-1266.9	L:	Interface	60	C2PJMC							-597.3	0.0	-0.15870	-0.16739	-543.5	86.4	
				C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392									
				Open 131128 LAPEER	345	136153	LAFAYTTE	345	1				0.08234	0.10557	-652.6	-1049.9			
19	-3763.5	-1266.9	L:	Interface	47	C-PJMWest							-597.3	0.0	-0.15870	-0.16739	-543.5	86.4	
				C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392									
				Open 131128 LAPEER	345	136153	LAFAYTTE	345	1				0.08234	0.10557	-652.6	-1049.9			
20	-3763.5	-1266.9	L:	Interface	48	PJMWest-C							597.3	-0.0	0.15870	0.16739	543.5	-86.4	
				C:131128 LAPEER	345	136153	LAFAYTTE	345	1	392									
				Open 131128 LAPEER	345	136153	LAFAYTTE	345	1				-0.08234	0.10557	-652.6	-1049.9			
21	-3728.1	-1241.0	L:	Interface	48	PJMWest-C							624.1	0.0	0.16739	0.16739	543.5	-80.5	
				C:GEN:9 MI PT2						1561									
				Remove unit 2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch								
22	-3728.1	-1241.0	L:	Interface	60	C2PJMC							-624.1	-0.0	-0.16739	-0.16739	-543.5	80.5	
				C:GEN:9 MI PT2						1561									
				Remove unit 2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch								
23	-3728.1	-1241.0	L:	Interface	47	C-PJMWest							-624.1	-0.0	-0.16739	-0.16739	-543.5	80.5	
				C:GEN:9 MI PT2						1561									
				Remove unit 2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch								
24	-3728.1	-1241.0	L:	Interface	61	PJMC2C							624.1	0.0	0.16739	0.16739	543.5	-80.5	
				C:GEN:9 MI PT2						1561									
				Remove unit 2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch								
25	-3654.0	-1186.5	L:	Interface	47	C-PJMWest							-611.7	0.0	-0.16739	-0.16739	-543.5	68.1	
				C:SIN:250						1677									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2				-0.00000	0.00000	-0.1	-0.1			
				Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch								
26	-3654.0	-1186.5	L:	Interface	48	PJMWest-C							611.7	-0.0	0.16739	0.16739	543.5	-68.1	
				C:SIN:250						1677									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.1	-0.1			

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			Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
27	-3654.0	-1186.5	L:	Interface 60 C2PJMC					-611.7	0.0	-0.16739		-0.16739	-543.5	68.1
			C:	SIN:250											
				Open 100508 SANDB115	115	100509	SB RCTOR	115 2				-0.00000	0.00000	-0.1	-0.1
				Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
28	-3654.0	-1186.5	L:	Interface 61 PJMC2C					611.7	-0.0	0.16739		0.16739	543.5	-68.1
			C:	SIN:250											
				Open 100508 SANDB115	115	100509	SB RCTOR	115 2				0.00000	0.00000	-0.1	-0.1
				Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
29	-3653.5	-1186.2	L:	Interface 61 PJMC2C					611.6	0.0	0.16739		0.16739	543.5	-68.0
			C:	GEN:SEABROOK											
				Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
30	-3653.5	-1186.2	L:	Interface 47 C-PJMWest					-611.6	-0.0	-0.16739		-0.16739	-543.5	68.0
			C:	GEN:SEABROOK											
				Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
31	-3653.5	-1186.2	L:	Interface 61 PJMC2C					611.6	0.0	0.16739		0.16739	543.5	-68.0
			C:	GEN:SEAB&OMS											
				Open 100508 SANDB115	115	100509	SB RCTOR	115 2				0.00000	0.00000	-0.1	-0.1
				Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
32	-3653.5	-1186.2	L:	Interface 60 C2PJMC					-611.6	-0.0	-0.16739		-0.16739	-543.5	68.0
			C:	GEN:SEAB&OMS											
				Open 100508 SANDB115	115	100509	SB RCTOR	115 2				-0.00000	0.00000	-0.1	-0.1
				Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
33	-3653.5	-1186.2	L:	Interface 48 PJMWest-C					611.6	0.0	0.16739		0.16739	543.5	-68.0
			C:	GEN:SEAB&OMS											
				Open 100508 SANDB115	115	100509	SB RCTOR	115 2				0.00000	0.00000	-0.1	-0.1
				Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
34	-3653.5	-1186.2	L:	Interface 47 C-PJMWest					-611.6	-0.0	-0.16739		-0.16739	-543.5	68.0
			C:	GEN:SEAB&OMS											
				Open 100508 SANDB115	115	100509	SB RCTOR	115 2				-0.00000	0.00000	-0.1	-0.1
				Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
35	-3653.5	-1186.2	L:	Interface 60 C2PJMC					-611.6	-0.0	-0.16739		-0.16739	-543.5	68.0
			C:	GEN:SEABROOK											
				Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
36	-3653.5	-1186.2	L:	Interface 48 PJMWest-C					611.6	0.0	0.16739		0.16739	543.5	-68.0
			C:	GEN:SEABROOK											
				Remove unit 1	from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch						
37	-3621.6	-1162.7	*L:	Interface 61 PJMC2C					606.2	0.0	0.16739		0.16739	543.5	-62.7
			C:	GEN:MLS3&OMS											
				Open 100508 SANDB115	115	100509	SB RCTOR	115 2				0.00000	0.00000	-0.1	-0.1
				Remove unit 3	from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
38	-3621.6	-1162.7	*L:	Interface 47 C-PJMWest					-606.2	-0.0	-0.16739		-0.16739	-543.5	62.7

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			C:GEN:MILLST 3			1572							
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
39	-3621.6	-1162.7	*L: Interface 60 C2PJMC					-606.2	-0.0	-0.16739		-0.16739	-543.5 62.7
			C:GEN:MLS3&OMS			1574							
			Open 100508 SANDB115 115 100509 SB RCTOR	115	2					-0.00000	0.00000		-0.1 -0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
40	-3621.6	-1162.7	*L: Interface 48 PJMWest-C					606.2	0.0	0.16739		0.16739	543.5 -62.7
			C:GEN:MLS3&OMS			1574							
			Open 100508 SANDB115 115 100509 SB RCTOR	115	2					0.00000	0.00000		-0.1 -0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
97	-3451.9	-1038.1	L: Interface 55 PJME-NYEnORE					1490.4	1287.0	0.05891		0.00000	1299.1 1299.1
			C:130757 WATRC345 345 200769 HOMER CY 345 1 1374										
			Open 130757 WATRC345 345 200769 HOMER CY 345 1							-0.35195	-0.16739		-543.5 34.3
98	-3451.9	-1038.1	L: Interface 56 NYE-PJMEEnORE					-1490.4	-1287.0	-0.05891		-0.00000	-1299.1 -1299.1
			C:130757 WATRC345 345 200769 HOMER CY 345 1 1374										
			Open 130757 WATRC345 345 200769 HOMER CY 345 1							0.35195	-0.16739		-543.5 34.3
203	-3339.5	-955.4	L: Interface 56 NYE-PJMEEnORE					-1388.1	-1287.0	-0.03026		-0.00000	-1299.1 -1299.1
			C:SER:HC-SR_37&W-F_171			1600							
			Open 135398 SW345 345 200769 HOMER CY 345 1							0.21762	-0.10053		-378.4 -42.7
			Open 135277 FALCONER 115 200579 WARREN 115 1							0.18512	-0.04530		-35.9 115.4
204	-3339.5	-955.4	L: Interface 55 PJME-NYEnORE					1388.1	1287.0	0.03026		0.00000	1299.1 1299.1
			C:SER:HC-SR_37&W-F_171			1600							
			Open 135398 SW345 345 200769 HOMER CY 345 1							-0.21762	-0.10053		-378.4 -42.7
			Open 135277 FALCONER 115 200579 WARREN 115 1							-0.18512	-0.04530		-35.9 115.4
585	-3257.8	-895.4	L: Interface 52 PJMEast-G					127.0	0.0	0.03897		0.00000	0.4 0.4
			C:130757 WATRC345 345 200769 HOMER CY 345 1 1374										
			Open 130757 WATRC345 345 200769 HOMER CY 345 1							-0.23281	-0.16739		-543.5 1.8
586	-3257.8	-895.4	L: Interface 51 G-PJMEast					-127.0	-0.0	-0.03897		-0.00000	-0.4 -0.4
			C:130757 WATRC345 345 200769 HOMER CY 345 1 1374										
			Open 130757 WATRC345 345 200769 HOMER CY 345 1							0.23281	-0.16739		-543.5 1.8
6943	-3196.6	-850.5	L: Interface 56 NYE-PJMEEnORE					-1496.2	-1287.0	-0.06543		-0.00000	-1299.1 -1299.1
			C:SER:HC-WC_30&W-F_171			1601							
			Open 130757 WATRC345 345 200769 HOMER CY 345 1							0.35346	-0.16739		-543.5 -8.4
			Open 135277 FALCONER 115 200579 WARREN 115 1							0.13824	-0.04530		-35.9 108.9
6944	-3196.6	-850.5	L: Interface 55 PJME-NYEnORE					1496.2	1287.0	0.06543		0.00000	1299.1 1299.1
			C:SER:HC-WC_30&W-F_171			1601							
			Open 130757 WATRC345 345 200769 HOMER CY 345 1							-0.35346	-0.16739		-543.5 -8.4
			Open 135277 FALCONER 115 200579 WARREN 115 1							-0.13824	-0.04530		-35.9 108.9
7017	-3021.1	-721.5	L: Interface 52 PJMEast-G					130.8	0.0	0.04330		0.00000	0.4 0.4
			C:SER:HC-WC_30&W-F_171			1601							
			Open 130757 WATRC345 345 200769 HOMER CY 345 1							-0.23382	-0.16739		-543.5 -37.8
			Open 135277 FALCONER 115 200579 WARREN 115 1							-0.09178	-0.04530		-35.9 100.9

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7018	-3021.1	-721.5	L: Interface	51	G-PJMEast					-130.8	-0.0	-0.04330		-0.00000	-0.4	-0.4	
			C:SER:HC-WC_30&W-F_171														
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1			0.23382	-0.16739	-543.5	-37.8
			Open	135277	FALCONER	115	200579	WARREN		115	1			0.09178	-0.04530	-35.9	100.9
7035	-2677.7	-469.2	L: Interface	56	NYE-PJMENoRE					-1485.4	-1287.0	-0.07408		-0.00000	-1299.1	-1299.1	
			C:SER:HCWC/NWES														
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1			0.35975	-0.16739	-543.5	-95.3
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1			0.21488	-0.06451	43.0	215.7
7036	-2677.7	-469.2	L: Interface	55	PJME-NYEnoRE					1485.4	1287.0	0.07408		0.00000	1299.1	1299.1	
			C:SER:HCWC/NWES														
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1			-0.35975	-0.16739	-543.5	-95.3
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1			-0.21488	-0.06451	43.0	215.7
7061	-2499.1	-338.0	L: Interface	52	PJMEast-G					123.5	-0.0	0.04943		0.00000	0.4	0.4	
			C:SER:HCWC/NWES														
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1			-0.23819	-0.16739	-543.5	-125.2
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1			-0.14809	-0.06451	43.0	204.2
7062	-2499.1	-338.0	L: Interface	51	G-PJMEast					-123.5	0.0	-0.04943		-0.00000	-0.4	-0.4	
			C:SER:HCWC/NWES														
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1			0.23819	-0.16739	-543.5	-125.2
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1			0.14809	-0.06451	43.0	204.2
7063	-2394.2	-260.9	L: Interface	55	PJME-NYEnoRE					1454.4	1287.0	0.06994		0.00000	1299.1	1299.1	
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200									
			Open	130753	FRASR345	345	130755	OAKDL345		345	1			-0.26904	-0.25996	-577.5	44.9
7064	-2394.2	-260.9	L: Interface	56	NYE-PJMENoRE					-1454.4	-1287.0	-0.06994		-0.00000	-1299.1	-1299.1	
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200									
			Open	130753	FRASR345	345	130755	OAKDL345		345	1			0.26904	-0.25996	-577.5	44.9
7069	-2318.9	-205.6	L: Interface	62	C2PJMw					-508.1	0.0	-0.21913		-0.45720	-345.0	715.2	
			C:ETHS/NWES/LLGD														
			Open	130763	HILSD230	230	200675	E.TWANDA		230	1			-0.80831	-0.17264	117.6	518.0
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1			-0.83277	-0.06451	43.0	192.6
			Open	130807	GOUDY115	115	200680	LAUREL L		115	1			-0.85088	-0.05265	38.0	160.1
7070	-2318.9	-205.6	L: Interface	63	PJMw2C					508.1	-0.0	0.21913		0.45720	345.0	-715.2	
			C:ETHS/NWES/LLGD														
			Open	130763	HILSD230	230	200675	E.TWANDA		230	1			0.80831	-0.17264	117.6	518.0
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1			0.83277	-0.06451	43.0	192.6
			Open	130807	GOUDY115	115	200680	LAUREL L		115	1			0.85088	-0.05265	38.0	160.1
7071	-2230.3	-140.5	L: Interface	51	G-PJMEast					-107.8	-0.0	-0.04831		-0.00000	-0.4	-0.4	
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200									
			Open	130753	FRASR345	345	130755	OAKDL345		345	1			0.18585	-0.25996	-577.5	2.3
7072	-2230.3	-140.5	L: Interface	52	PJMEast-G					107.8	0.0	0.04831		0.00000	0.4	0.4	
			C:130753 FRASR345	345	130755 OAKDL345	345	1	200									
			Open	130753	FRASR345	345	130755	OAKDL345		345	1			-0.18585	-0.25996	-577.5	2.3

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7073	-2138.9	-73.3	L: Interface	56	NYE-PJME	noRE				-1477.4	-1287.0	-0.08901		-0.00000	-1299.1	-1299.1	
			C:BUS:WATERCURE_345														
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1			0.44167	-0.16739	-543.5	-185.5
			Open	130757	WATRC345	345	130768	WATRC230		230	1			0.19968	-0.07553	257.6	419.1
			Open	130755	OAKDL345	345	130757	WATRC345		345	1			0.45967	0.00000	22.4	22.4
7074	-2138.9	-73.3	L: Interface	55	PJME	NYE	noRE			1477.4	1287.0	0.08901		0.00000	1299.1	1299.1	
			C:BUS:WATERCURE_345														
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1			-0.44167	-0.16739	-543.5	-185.5
			Open	130757	WATRC345	345	130768	WATRC230		230	1			-0.19968	-0.07553	257.6	419.1
			Open	130755	OAKDL345	345	130757	WATRC345		345	1			-0.45967	0.00000	22.4	22.4
7075	-1983.8	40.6	L: Interface	51	G-PJME	East				-118.3	-0.0	-0.05962		-0.00000	-0.4	-0.4	
			C:BUS:WATERCURE_345														
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1			0.29437	-0.16739	-543.5	-211.5
			Open	130757	WATRC345	345	130768	WATRC230		230	1			0.13699	-0.07553	257.6	407.4
			Open	130755	OAKDL345	345	130757	WATRC345		345	1			0.30557	0.00000	22.4	22.4
7076	-1983.8	40.6	L: Interface	52	PJME	East-G				118.3	0.0	0.05962		0.00000	0.4	0.4	
			C:BUS:WATERCURE_345														
			Open	130757	WATRC345	345	200769	HOMER	CY	345	1			-0.29437	-0.16739	-543.5	-211.5
			Open	130757	WATRC345	345	130768	WATRC230		230	1			-0.13699	-0.07553	257.6	407.4
			Open	130755	OAKDL345	345	130757	WATRC345		345	1			-0.30557	0.00000	22.4	22.4
7077	-1514.3	385.6	L: Interface	62	C2PJMW					-452.3	0.0	-0.29869		-0.45720	-345.0	347.4	
			C:SER:ETHS/NWES														
			Open	130763	HILSD230	230	200675	E.TWANDA		230	1			-0.66719	-0.17264	117.6	379.1
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1			-0.67156	-0.06451	43.0	140.7
7078	-1514.3	385.6	L: Interface	63	PJMW2C					452.3	-0.0	0.29869		0.45720	345.0	-347.4	
			C:SER:ETHS/NWES														
			Open	130763	HILSD230	230	200675	E.TWANDA		230	1			0.66719	-0.17264	117.6	379.1
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1			0.67156	-0.06451	43.0	140.7
7079	-1512.0	387.3	L: Interface	62	C2PJMW					-451.4	0.0	-0.29854		-0.45720	-345.0	346.3	
			C:SER:C398/NWES														
			Open	409	GROVER	230	200675	E.TWANDA		230	1			-0.00110	0.00285	-15.6	-19.9
			Open	130763	HILSD230	230	200675	E.TWANDA		230	1			-0.66878	-0.17264	117.6	378.7
			Open	381	TOWANDA	115	200675	E.TWANDA		230	1			-0.01712	-0.00980	-52.1	-37.3
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1			-0.66713	-0.06451	43.0	140.5
7080	-1512.0	387.3	L: Interface	63	PJMW2C					451.4	-0.0	0.29854		0.45720	345.0	-346.3	
			C:SER:C398/NWES														
			Open	409	GROVER	230	200675	E.TWANDA		230	1			0.00110	0.00285	-15.6	-19.9
			Open	130763	HILSD230	230	200675	E.TWANDA		230	1			0.66878	-0.17264	117.6	378.7
			Open	381	TOWANDA	115	200675	E.TWANDA		230	1			0.01712	-0.00980	-52.1	-37.3
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1			0.66713	-0.06451	43.0	140.5
7081	-1282.4	556.0	L: Interface	62	C2PJMW					-429.5	-0.0	-0.33494		-0.45720	-345.0	241.3	
			C:ETHS/LLGD														

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			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.52470	-0.17264	117.6	339.0
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1				-0.60156	-0.05265	38.0	105.5
7082	-1282.4	556.0	L: Interface 63 PJMW2C						429.5	0.0	0.33494		0.45720	345.0	-241.3
			C:ETHS/LLGD												1649
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.52470	-0.17264	117.6	339.0
			Open 130807 GOUDY115	115	200680	LAUREL L	115	1				0.60156	-0.05265	38.0	105.5
7083	-1275.8	560.8	L: Interface 55 PJME-NYEnoRE						1367.7	1287.0	0.06323		0.00000	1299.1	1299.1
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.26028	-0.24292	-263.5	46.4
7084	-1275.8	560.8	L: Interface 56 NYE-PJMENoRE						-1367.7	-1287.0	-0.06323		-0.00000	-1299.1	-1299.1
			C:130755 OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.26028	-0.24292	-263.5	46.4
7085	-1131.7	666.7	L: Interface 62 C2PJMw						-515.9	0.0	-0.45585		-0.45720	-345.0	172.5
			C:HQ-NY-765-New												1776
			Open 147827 MARCY765	765	147828	MASS 765	765	1							NA
			Open 147828 MASS 765	765	180819	CHA-NY	765	1							NA
			Open 147827 MARCY765	765	147833	MARCY T1	345	1				-0.04116	-0.01752	624.7	644.5
			Open 147827 MARCY765	765	147833	MARCY T1	345	2				-0.04116	-0.01524	543.6	560.9
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1							NA
			Open 147838 MASS230B	230	147839	MOSES E	230	1				0.00000	0.01638	10.3	-8.2
			Open 147828 MASS 765	765	147838	MASS230B	230	1							NA
			Open 147837 MASS230A	230	147839	MOSES E	230	1				0.11503	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837	MASS230A	230	1							NA
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1							NA
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1							NA
			Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch						
7086	-1131.7	666.7	L: Interface 63 PJMW2C						515.9	-0.0	0.45585		0.45720	345.0	-172.5
			C:HQ-NY-765-New												1776
			Open 147827 MARCY765	765	147828	MASS 765	765	1							NA
			Open 147828 MASS 765	765	180819	CHA-NY	765	1							NA
			Open 147827 MARCY765	765	147833	MARCY T1	345	1				0.04116	-0.01752	624.7	644.5
			Open 147827 MARCY765	765	147833	MARCY T1	345	2				0.04116	-0.01524	543.6	560.9
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1							NA
			Open 147838 MASS230B	230	147839	MOSES E	230	1				-0.00000	0.01638	10.3	-8.2
			Open 147828 MASS 765	765	147838	MASS230B	230	1							NA
			Open 147837 MASS230A	230	147839	MOSES E	230	1				-0.11503	0.00000	18.8	18.8
			Open 147828 MASS 765	765	147837	MASS230A	230	1							NA
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1							NA
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1							NA

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			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
7087	-1129.1	668.6	L: Interface 62 C2PJMW					-516.2	0.0	-0.45720		-0.45720	-345.0	171.3
			C:GEN:9 MI PT2			1561								
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch							
7088	-1129.1	668.6	L: Interface 63 PJMW2C					516.2	-0.0	0.45720		0.45720	345.0	-171.3
			C:GEN:9 MI PT2			1561								
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch							
7089	-1094.7	693.9	L: Interface 52 PJMEast-G					46.9	-0.0	0.04285		0.00000	0.4	0.4
			C:130755 OAKDL345	345	130757	WATRC345	345 1 206							
			Open 130755 OAKDL345	345	130757	WATRC345	345 1				-0.17641	-0.24292	-263.5	2.4
7090	-1094.7	693.9	L: Interface 51 G-PJMEast					-46.9	0.0	-0.04285		-0.00000	-0.4	-0.4
			C:130755 OAKDL345	345	130757	WATRC345	345 1 206							
			Open 130755 OAKDL345	345	130757	WATRC345	345 1				0.17641	-0.24292	-263.5	2.4
7091	-1056.4	722.0	L: Interface 62 C2PJMW					-399.1	0.0	-0.37777		-0.45720	-345.0	138.0
			C:130763 HILSD230	230	200675	E.TWANDA	230 1 1375							
			Open 130763 HILSD230	230	200675	E.TWANDA	230 1				-0.46008	-0.17264	117.6	300.0
7092	-1056.4	722.0	L: Interface 63 PJMW2C					399.1	-0.0	0.37777		0.45720	345.0	-138.0
			C:130763 HILSD230	230	200675	E.TWANDA	230 1 1375							
			Open 130763 HILSD230	230	200675	E.TWANDA	230 1				0.46008	-0.17264	117.6	300.0
7093	-1046.7	729.2	L: Interface 62 C2PJMW					-459.2	-0.0	-0.43871		-0.45720	-345.0	133.6
			C:131128 LAPEER	345	136153	LAFAYTTE	345 1 392							
			Open 131128 LAPEER	345	136153	LAFAYTTE	345 1				0.17506	0.10557	-652.6	-763.0
7094	-1046.7	729.2	L: Interface 63 PJMW2C					459.2	0.0	0.43871		0.45720	345.0	-133.6
			C:131128 LAPEER	345	136153	LAFAYTTE	345 1 392							
			Open 131128 LAPEER	345	136153	LAFAYTTE	345 1				-0.17506	0.10557	-652.6	-763.0
7095	-1021.7	747.5	L: Interface 62 C2PJMW					-448.6	-0.0	-0.43903		-0.45720	-345.0	122.2
			C:130755 OAKDL345	345	131128	LAPEER	345 1 209							
			Open 130755 OAKDL345	345	131128	LAPEER	345 1				0.17997	0.10093	-575.7	-678.9
7096	-1021.7	747.5	L: Interface 63 PJMW2C					448.6	0.0	0.43903		0.45720	345.0	-122.2
			C:130755 OAKDL345	345	131128	LAPEER	345 1 209							
			Open 130755 OAKDL345	345	131128	LAPEER	345 1				-0.17997	0.10093	-575.7	-678.9
7097	-1004.0	760.5	*L: Interface 63 PJMW2C					459.0	0.0	0.45720		0.45720	345.0	-114.1
			C:GEN:SEABROOK			1573								
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
7098	-1004.0	760.5	*L: Interface 62 C2PJMW					-459.0	-0.0	-0.45720		-0.45720	-345.0	114.1
			C:GEN:SEAB&OMS			1575								
			Open 100508 SANDB115	115	100509	SB RCTOR	115 2				-0.00001	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
7117	-949.6	800.5	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345 2	-1828.7	-1725.0	-0.10919		-0.07712	-1281.0	-1207.8

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				C:126294 PLTVLLEY	345	137455	ATHENS	345	1	121									
				Open 126294 PLTVLLEY	345	137455	ATHENS	345	1				0.44128	-0.07267	-1241.0	-1172.0			
10598	-621.5	1041.6	L:	126294 PLTVLLEY	345	137455	ATHENS	345	1		-1790.7	-1725.0	-0.10577	-0.07267	-1241.0	-1195.9			
				C:126294 PLTVLLEY	345	137451	LEEDS 3	345	2	120									
				Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	2				0.42910	-0.07712	-1281.0	-1233.1			
10603	-544.6	1098.0	L:	Interface 55 PJME-NYEnoRE							1311.2	1287.0	0.04451	0.00000	1299.1	1299.1			
				C:SER:ESEE/WRFL						1610									
				Open 270 ERIE SO.	230	531	ERIE SE	230	1				0.00074	0.07506	16.5	-24.4			
				Open 531 ERIE SE	230	200654	ERIE E	230	1				0.25719	0.13170	14.7	-57.1			
				Open 135277 FALCONER	115	200579	WARREN	115	1				-0.23360	-0.04530	-35.9	-11.2			
10604	-544.6	1098.0	L:	Interface 56 NYE-PJMEEnoRE							-1311.2	-1287.0	-0.04451	-0.00000	-1299.1	-1299.1			
				C:SER:ESEE/WRFL						1610									
				Open 270 ERIE SO.	230	531	ERIE SE	230	1				-0.00074	0.07506	16.5	-24.4			
				Open 531 ERIE SE	230	200654	ERIE E	230	1				-0.25719	0.13170	14.7	-57.1			
				Open 135277 FALCONER	115	200579	WARREN	115	1				0.23360	-0.04530	-35.9	-11.2			
10605	-543.9	1098.6	L:	Interface 55 PJME-NYEnoRE							1364.4	1287.0	0.14232	0.00000	1299.1	1299.1			
				C:LKWANA-OXBW						1651									
				Open 417 OXBOW	230	3070	LACKAWNA	230	1				-0.54564	-0.26083	-119.7	22.1			
10606	-543.9	1098.6	L:	Interface 56 NYE-PJMEEnoRE							-1364.4	-1287.0	-0.14232	-0.00000	-1299.1	-1299.1			
				C:LKWANA-OXBW						1651									
				Open 417 OXBOW	230	3070	LACKAWNA	230	1				0.54564	-0.26083	-119.7	22.1			
10611	-463.3	1157.8	L:	Interface 52 PJMEast-G							45.9	0.0	0.09913	0.00000	0.4	0.4			
				C:LKWANA-OXBW						1651									
				Open 417 OXBOW	230	3070	LACKAWNA	230	1				-0.38004	-0.26083	-119.7	1.1			
10612	-463.3	1157.8	L:	Interface 51 G-PJMEast							-45.9	-0.0	-0.09913	-0.00000	-0.4	-0.4			
				C:LKWANA-OXBW						1651									
				Open 417 OXBOW	230	3070	LACKAWNA	230	1				0.38004	-0.26083	-119.7	1.1			
10613	-394.2	1208.6	*L:	Interface 56 NYE-PJMEEnoRE							-1304.5	-1287.0	-0.04450	-0.00000	-1299.1	-1299.1			
				C:SER:EESR/WRFL						1609									
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1				0.25762	-0.13170	11.3	63.2			
				Open 135277 FALCONER	115	200579	WARREN	115	1				0.23346	-0.04530	-35.9	-18.1			
10614	-394.2	1208.6	*L:	Interface 55 PJME-NYEnoRE							1304.5	1287.0	0.04450	0.00000	1299.1	1299.1			
				C:SER:EESR/WRFL						1609									
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1				-0.25762	-0.13170	11.3	63.2			
				Open 135277 FALCONER	115	200579	WARREN	115	1				-0.23346	-0.04530	-35.9	-18.1			
10619	51.6	1536.1	L:	Interface 51 G-PJMEast							2.0	0.0	-0.03929	-0.00000	-0.4	-0.4			
				C:SER:EESR/WF/NWES						1611									
				Open 135251 S RIPLEY	230	200654	ERIE E	230	1				0.17354	-0.13170	11.3	4.5			
				Open 135277 FALCONER	115	200579	WARREN	115	1				0.15831	-0.04530	-35.9	-38.2			
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.14357	-0.06451	43.0	39.7			
10620	51.6	1536.1	L:	Interface 52 PJMEast-G							-2.0	-0.0	0.03929	0.00000	0.4	0.4			
				C:SER:EESR/WF/NWES						1611									

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			Open 135251 S RIPLEY	230	200654	ERIE E	230	1		-0.17354	-0.13170	11.3	4.5	
			Open 135277 FALCONER	115	200579	WARREN	115	1		-0.15831	-0.04530	-35.9	-38.2	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.14357	-0.06451	43.0	39.7	
10622	199.7	1644.9	L: Interface 49 C-PJMCentral						66.5	-0.0	-0.33287	-0.28980	198.6	140.7
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.23847	-0.16739	-543.5	-577.0	
			Open 135277 FALCONER	115	200579	WARREN	115	1		0.06952	-0.04530	-35.9	-45.0	
10623	199.7	1644.9	L: Interface 50 PJMCentral-C						-66.5	0.0	0.33287	0.28980	-198.6	-140.7
			C:SER:HC-WC_30&W-F_171					1601						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.23847	-0.16739	-543.5	-577.0	
			Open 135277 FALCONER	115	200579	WARREN	115	1		-0.06952	-0.04530	-35.9	-45.0	
10625	201.4	1646.1	L: Interface 49 C-PJMCentral						61.6	-0.0	-0.30604	-0.28980	198.6	140.2
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.22559	-0.16739	-543.5	-577.2	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.33367	-0.06451	43.0	30.0	
10626	201.4	1646.1	L: Interface 50 PJMCentral-C						-61.6	0.0	0.30604	0.28980	-198.6	-140.2
			C:SER:HCWC/NWES					1607						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.22559	-0.16739	-543.5	-577.2	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.33367	-0.06451	43.0	30.0	
10629	210.5	1652.8	L: Interface 49 C-PJMCentral						69.4	0.0	-0.32959	-0.28980	198.6	137.6
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.23771	-0.16739	-543.5	-578.8	
10630	210.5	1652.8	L: Interface 50 PJMCentral-C						-69.4	-0.0	0.32959	0.28980	-198.6	-137.6
			C:130757 WATRC345	345	200769	HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.23771	-0.16739	-543.5	-578.8	
10635	234.4	1670.4	L: Interface 50 PJMCentral-C						-70.0	0.0	0.29847	0.28980	-198.6	-130.7
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.14495	-0.16739	-543.5	-582.8	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		0.20645	-0.07553	257.6	239.9	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.14892	0.00000	22.4	22.4	
10636	234.4	1670.4	L: Interface 49 C-PJMCentral						70.0	-0.0	-0.29847	-0.28980	198.6	130.7
			C:BUS:WATERCURE_345					1632						
			Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.14495	-0.16739	-543.5	-582.8	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.20645	-0.07553	257.6	239.9	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.14892	0.00000	22.4	22.4	
10637	372.2	1771.6	L: Interface 49 C-PJMCentral						107.9	0.0	-0.28980	-0.28980	198.6	90.7
			C:GEN:9 MI PT2					1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch							
10638	372.2	1771.6	L: Interface 50 PJMCentral-C						-107.9	-0.0	0.28980	0.28980	-198.6	-90.7
			C:GEN:9 MI PT2					1561						
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1197.5	MW	dispatch							
10639	393.9	1787.6	L: Interface 49 C-PJMCentral						114.0	0.0	-0.28927	-0.28980	198.6	84.4

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			C:HQ-NY-765-New			1776									
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833	MARCY T1	345	1		-0.01633	-0.01752	624.7	617.8		
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		-0.01633	-0.01524	543.6	537.6		
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839	MOSES E	230	1		-0.00000	0.01638	10.3	16.8		
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839	MOSES E	230	1		0.05989	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch						
10640	393.9	1787.6	L: Interface 50 PJMCentral-C							-114.0	-0.0	0.28927	0.28980	-198.6	-84.4
			C:HQ-NY-765-New				1776								
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833	MARCY T1	345	1		0.01633	-0.01752	624.7	617.8		
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		0.01633	-0.01524	543.6	537.6		
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839	MOSES E	230	1		0.00000	0.01638	10.3	16.8		
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839	MOSES E	230	1		-0.05989	0.00000	18.8	18.8		
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch						
10641	450.7	1829.3	L: Interface 50 PJMCentral-C							-130.6	-0.0	0.28980	0.28980	-198.6	-68.0
			C:126250 RAMAPO 5	500	126296	RAM PAR	345	1	78						
			Open 126250 RAMAPO 5	500	126296	RAM PAR	345	1		0.06789	0.00000	1001.1	1001.1		
10642	450.7	1829.3	L: Interface 49 C-PJMCentral							130.6	0.0	-0.28980	-0.28980	198.6	68.0
			C:126250 RAMAPO 5	500	126296	RAM PAR	345	1	78						
			Open 126250 RAMAPO 5	500	126296	RAM PAR	345	1		-0.06789	0.00000	1001.1	1001.1		
10643	450.7	1829.3	L: Interface 49 C-PJMCentral							130.6	0.0	-0.28980	-0.28980	198.6	68.0
			C: 91 JEFFERSN	500	126250	RAMAPO 5	500	1	1351						
			Open 91 JEFFERSN	500	126250	RAMAPO 5	500	1		-0.06789	0.00000	1001.1	1001.1		

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10644	450.7	1829.3	L: Interface	50	PJMCentral-C	-130.6	-0.0	0.28980	0.28980	-198.6	-68.0
			C: 91 JEFFERSN	500	126250 RAMAPO 5	500	1	1351			
			Open 91 JEFFERSN	500	126250 RAMAPO 5	500	1		0.06789	0.00000	1001.1 1001.1
10647	493.1	1860.5	L: Interface	49	C-PJMCentral	138.1	0.0	-0.28001	-0.28980	198.6	55.7
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392			
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1		0.09272	0.10557	-652.6 -600.5
10648	493.1	1860.5	L: Interface	50	PJMCentral-C	-138.1	-0.0	0.28001	0.28980	-198.6	-55.7
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	392			
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1		-0.09272	0.10557	-652.6 -600.5
10649	500.6	1866.0	*L: Interface	49	C-PJMCentral	143.7	-0.0	-0.28703	-0.28980	198.6	53.5
			C:GEN:FITZPATR					1559			
			Open 136155 SCRIBA	345	147830 JA FITZP	345	1		0.01356	0.07790	-67.9 -28.9
			Open 137200 EDIC	345	147830 JA FITZP	345	1		0.07386	0.02326	43.5 55.1
			Remove unit 1 from bus	147797	JAFITZ1G	24.0	886.8	MW dispatch			
10650	500.6	1866.0	*L: Interface	50	PJMCentral-C	-143.7	0.0	0.28703	0.28980	-198.6	-53.5
			C:GEN:FITZPATR					1559			
			Open 136155 SCRIBA	345	147830 JA FITZP	345	1		-0.01356	0.07790	-67.9 -28.9
			Open 137200 EDIC	345	147830 JA FITZP	345	1		-0.07386	0.02326	43.5 55.1
			Remove unit 1 from bus	147797	JAFITZ1G	24.0	886.8	MW dispatch			
10747	647.8	1974.1	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1281.0	-1331.0	-0.07712
			Base Case								
10774	656.6	1980.6	L: Interface	51	G-PJMEast	48.0	-0.0	-0.07306	-0.00000	-0.4	-0.4
			C:SER:C398/NWES					1605			
			Open 409 GROVER	230	200675 E.TWANDA	230	1		0.02734	0.00285	-15.6 -13.7
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.30865	-0.17264	117.6 4.3
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1		0.01228	-0.00980	-52.1 -58.6
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.30588	-0.06451	43.0 0.6
10775	656.6	1980.6	L: Interface	52	PJMEast-G	-48.0	0.0	0.07306	0.00000	0.4	0.4
			C:SER:C398/NWES					1605			
			Open 409 GROVER	230	200675 E.TWANDA	230	1		-0.02734	0.00285	-15.6 -13.7
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		-0.30865	-0.17264	117.6 4.3
			Open 381 TOWANDA	115	200675 E.TWANDA	230	1		-0.01228	-0.00980	-52.1 -58.6
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.30588	-0.06451	43.0 0.6
10844	669.9	1990.4	*L: Interface	51	G-PJMEast	24.5	-0.0	-0.03657	-0.00000	-0.4	-0.4
			C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375			
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		0.21186	-0.17264	117.6 2.0
10845	669.9	1990.4	*L: Interface	52	PJMEast-G	-24.5	0.0	0.03657	0.00000	0.4	0.4
			C:130763 HILSD230	230	200675 E.TWANDA	230	1	1375			
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1		-0.21186	-0.17264	117.6 2.0
14176	934.0	2184.5	L: Interface	14	Leeds-PV	2522.1	2662.0	0.14980			
			Base Case								
14179	967.0	2208.7	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1		474.0	599.0	0.12924

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			Base Case												
14182	1202.3	2381.5	L: Interface	19	PJM-NY				2394.6	3278.0	0.73473		0.73473	1498.2	2381.5
			C:GEN:SEABROOK 1573												
			Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch												
14183	1202.3	2381.5	L: Interface	19	PJM-NY				2394.6	3278.0	0.73473		0.73473	1498.2	2381.5
			C:GEN:SEAB&OMS 1575												
			Open 100508 SANDB115 115 100509 SB RCTOR 115 2 -0.00004 0.00000 -0.1 -0.1												
			Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch												
14184	1202.3	2381.5	L: Interface	35	NY-PJM				-2394.6	-3278.0	-0.73473		-0.73473	-1498.2	-2381.5
			C:GEN:SEABROOK 1573												
			Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch												
14185	1202.3	2381.5	L: Interface	35	NY-PJM				-2394.6	-3278.0	-0.73473		-0.73473	-1498.2	-2381.5
			C:GEN:SEAB&OMS 1575												
			Open 100508 SANDB115 115 100509 SB RCTOR 115 2 0.00004 0.00000 -0.1 -0.1												
			Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch												
14186	1208.1	2385.8	L: Interface	35	NY-PJM				-2390.4	-3278.0	-0.73473		-0.73473	-1498.2	-2385.8
			C:SIN:250 1677												
			Open 100508 SANDB115 115 100509 SB RCTOR 115 2 0.00004 0.00000 -0.1 -0.1												
			Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch												
14187	1208.1	2385.8	L: Interface	19	PJM-NY				2390.4	3278.0	0.73473		0.73473	1498.2	2385.8
			C:SIN:250 1677												
			Open 100508 SANDB115 115 100509 SB RCTOR 115 2 -0.00004 0.00000 -0.1 -0.1												
			Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch												
14188	1224.1	2397.6	L: Interface	35	NY-PJM				-2378.6	-3278.0	-0.73473		-0.73473	-1498.2	-2397.6
			C:GEN:MILLST 3 1572												
			Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch												
14189	1224.1	2397.6	L: Interface	19	PJM-NY				2378.6	3278.0	0.73473		0.73473	1498.2	2397.6
			C:GEN:MILLST 3 1572												
			Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch												
14190	1224.1	2397.6	L: Interface	35	NY-PJM				-2378.6	-3278.0	-0.73473		-0.73473	-1498.2	-2397.6
			C:GEN:MLS3&OMS 1574												
			Open 100508 SANDB115 115 100509 SB RCTOR 115 2 0.00004 0.00000 -0.1 -0.1												
			Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch												
14191	1224.1	2397.6	L: Interface	19	PJM-NY				2378.6	3278.0	0.73473		0.73473	1498.2	2397.6
			C:GEN:MLS3&OMS 1574												
			Open 100508 SANDB115 115 100509 SB RCTOR 115 2 -0.00004 0.00000 -0.1 -0.1												
			Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch												
14192	1237.8	2407.7	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1		-1241.0	-1331.0	-0.07267				
			Base Case												
14193	1263.3	2426.4	L: 130757 WATRC345	345	200769 HOMER CY	345	1		-543.5	-755.0	-0.16739				
			Base Case												
14194	1263.3	2426.4	L: Interface	48	PJMWest-C				543.5	755.0	0.16739				

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Base Case										
14195	1263.3	2426.4	L: Interface	60	C2PJMC	-543.5	-755.0	-0.16739		
Base Case										
14196	1263.3	2426.4	L: Interface	61	PJMC2C	543.5	755.0	0.16739		
Base Case										
14197	1263.3	2426.4	L: Interface	47	C-PJMWest	-543.5	-755.0	-0.16739		
Base Case										
14198	1293.8	2448.8	L: Interface	19	PJM-NY	2333.6	3278.0	0.72995	0.73473	1498.2 2448.8
C:HQ-NY-765-New 1776										
Open 147827 MARCY765 765 147828 MASS 765 765 1 NA										
Open 147828 MASS 765 765 180819 CHA-NY 765 1 NA										
Open 147827 MARCY765 765 147833 MARCY T1 345 1 0.14597 -0.01752 624.7 602.0										
Open 147827 MARCY765 765 147833 MARCY T1 345 2 0.14597 -0.01524 543.6 523.9										
Open 156 MCY765SW 0.0 147827 MARCY765 765 1 NA										
Open 147838 MASS230B 230 147839 MOSES E 230 1 -0.00000 0.01638 10.3 31.5										
Open 147828 MASS 765 765 147838 MASS230B 230 1 NA										
Open 147837 MASS230A 230 147839 MOSES E 230 1 -0.61013 0.00000 18.8 18.8										
Open 147828 MASS 765 765 147837 MASS230A 230 1 NA										
Open 158 MS765SW2 0.0 147828 MASS 765 765 1 NA										
Open 157 MS765SW1 0.0 147828 MASS 765 765 1 NA										
Decrease bus 180001 BEA-DLX 13.8 generation by 100.0 percent dispatch										
Set bus 181319 CHAT G3 120 load to 357.0 MW dispatch										
Decrease bus 180002 BEA-DL 13.8 generation by 100.0 percent dispatch										
Set bus 181419 CHAT G4 120 load to 357.0 MW dispatch										
14199	1293.8	2448.8	L: Interface	35	NY-PJM	-2333.6	-3278.0	-0.72995	-0.73473	-1498.2 -2448.8
C:HQ-NY-765-New 1776										
Open 147827 MARCY765 765 147828 MASS 765 765 1 NA										
Open 147828 MASS 765 765 180819 CHA-NY 765 1 NA										
Open 147827 MARCY765 765 147833 MARCY T1 345 1 -0.14597 -0.01752 624.7 602.0										
Open 147827 MARCY765 765 147833 MARCY T1 345 2 -0.14597 -0.01524 543.6 523.9										
Open 156 MCY765SW 0.0 147827 MARCY765 765 1 NA										
Open 147838 MASS230B 230 147839 MOSES E 230 1 0.00000 0.01638 10.3 31.5										
Open 147828 MASS 765 765 147838 MASS230B 230 1 NA										
Open 147837 MASS230A 230 147839 MOSES E 230 1 0.61013 0.00000 18.8 18.8										
Open 147828 MASS 765 765 147837 MASS230A 230 1 NA										
Open 158 MS765SW2 0.0 147828 MASS 765 765 1 NA										
Open 157 MS765SW1 0.0 147828 MASS 765 765 1 NA										
Decrease bus 180001 BEA-DLX 13.8 generation by 100.0 percent dispatch										
Set bus 181319 CHAT G3 120 load to 357.0 MW dispatch										
Decrease bus 180002 BEA-DL 13.8 generation by 100.0 percent dispatch										
Set bus 181419 CHAT G4 120 load to 357.0 MW dispatch										
14200	1324.7	2471.5	L: 131018 LOUN115	115	131850 CNYOG115	46.7	143.0	0.07271	0.04689	18.7 80.8

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				C:130755 OAKDL345	345	130757 WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1											
14201	1351.5	2491.2	L:	130848 S.OWE115	115	131850 CNYOG115	115	1											
				C:130755 OAKDL345	345	130757 WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1											
14202	1359.8	2497.3	L:	130757 WATRC345	345	130768 WATRC230	230	1											
				C:130755 OAKDL345	345	130757 WATRC345	345	1	206										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1											
14203	1375.2	2508.6	L:	Interface	19	PJM-NY													
				C:GEN:IND PT 3					1555										
				Remove unit 1	from bus	147798 IP#3 GEN	22.0	1072.8	MW	dispatch									
14204	1375.2	2508.6	L:	Interface	35	NY-PJM													
				C:GEN:IND PT 3					1555										
				Remove unit 1	from bus	147798 IP#3 GEN	22.0	1072.8	MW	dispatch									
14205	1385.5	2516.1	L:	Interface	26	ONTARIO-MICH													
				C:GEN:BRUCE 6					1564										
				Remove unit 1	from bus	159617 BRUCEBG5	24.0	815.5	MW	dispatch									
14206	1389.0	2518.7	L:	Interface	19	PJM-NY													
				C:GEN:IND PT 2					1554										
				Remove unit 2	from bus	126651 IND PT 2	22.0	1053.7	MW	dispatch									
14207	1389.0	2518.7	L:	Interface	35	NY-PJM													
				C:GEN:IND PT 2					1554										
				Remove unit 2	from bus	126651 IND PT 2	22.0	1053.7	MW	dispatch									
14208	1391.7	2520.7	L:	130817 JENN 115	115	130819 KATEL115	115	1											
				C:130753 FRASR345	345	130755 OAKDL345	345	1	200										
				Open 130753 FRASR345	345	130755 OAKDL345	345	1											
14209	1397.6	2525.1	L:	Interface	35	NY-PJM													
				C:GEN:9 MI PT2					1561										
				Remove unit 2	from bus	136700 9M PT 2G	25.0	1197.5	MW	dispatch									
14210	1397.6	2525.1	L:	Interface	19	PJM-NY													
				C:GEN:9 MI PT2					1561										
				Remove unit 2	from bus	136700 9M PT 2G	25.0	1197.5	MW	dispatch									
14211	1403.4	2529.3	L:	130794 DELHI115	115	130804 DEL T115	115	1											
				C:130753 FRASR345	345	130755 OAKDL345	345	1	200										
				Open 130753 FRASR345	345	130755 OAKDL345	345	1											
14212	1443.3	2558.7	*L:	Interface	35	NY-PJM													
				C:GEN:IND PT 3-New					1773										
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1											
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2											
14213	1443.3	2558.7	*L:	Interface	19	PJM-NY													
				C:GEN:IND PT 3-New					1773										
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1											

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				Open 147798 IP#3 GEN	22.0	147832 IP3	345	345	2				-0.71720	0.02688	-1041.8	-1003.0				
14220	1525.1	2618.7	L:	Interface	26	ONTARIO-MICH							398.7	-0.0	-0.26145	-0.26527	736.0	331.4		
			C:	LAMBT7/LAMBGEN															1646	
				Open 160050 LAMB L4D	345	B\$1020 LAMBTON T7	1.00	T7												
				Open 160064 LAMB T78	220	B\$1020 LAMBTON T7	1.00	T7												
				Set bus 160705 LAMBTNG4	24.0	generation to														
																			0.0 MW dispatch	
14221	1525.6	2619.1	L:	Interface	26	ONTARIO-MICH														
			C:	LAMBT8/LAMBGEN																1647
				Open 160050 LAMB L4D	345	B\$1021 LAMBTON T8	1.00	T8												
				Open 160064 LAMB T78	220	B\$1021 LAMBTON T8	1.00	T8												
				Set bus 160705 LAMBTNG4	24.0	generation to														
																				0.0 MW dispatch
14222	1568.8	2650.9	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2												
			C:	125000 HURLEY 3	345	137451 LEEDS 3	345	1	3											
				Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1												
14223	1634.1	2698.8	L:	130750 COOPC345	345	130753 FRASR345	345	1												
				Base Case																
14224	1681.2	2733.4	L:	Interface	26	ONTARIO-MICH														
			C:	L4D+G3																1644
				Open 160050 LAMB L4D	345	B\$1020 LAMBTON T7	1.00	T7												
				Open 160064 LAMB T78	220	B\$1020 LAMBTON T7	1.00	T7												
				Open 160069 LAMBTPK2	220	160704 LAMBTNG3	24.0	T3												
				Remove unit 1 from bus 160704 LAMBTNG3	24.0	490.0 MW														
14225	1681.7	2733.8	L:	Interface	26	ONTARIO-MICH														
			C:	L51D+G3																1645
				Open 160050 LAMB L4D	345	B\$1021 LAMBTON T8	1.00	T8												
				Open 160064 LAMB T78	220	B\$1021 LAMBTON T8	1.00	T8												
				Open 160069 LAMBTPK2	220	160704 LAMBTNG3	24.0	T3												
				Remove unit 1 from bus 160704 LAMBTNG3	24.0	490.0 MW														
14228	1688.5	2738.8	L:	130836 N.WAV115	115	131018 LOUNS115	115	1												
			C:	130755 OAKDL345	345	130757 WATRC345	345	1	206											
				Open 130755 OAKDL345	345	130757 WATRC345	345	1												
14229	1734.8	2772.8	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2												
			C:	SIN:430																1682
				Open 125002 ROSETON	345	126281 FISHKILL	345	1												
14230	1734.8	2772.8	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2												
			C:	125002 ROSETON	345	126281 FISHKILL	345	1	10											
				Open 125002 ROSETON	345	126281 FISHKILL	345	1												
14235	1833.9	2845.6	L:	130819 KATEL115	115	130838 OAKDL115	115	1												
			C:	130753 FRASR345	345	130755 OAKDL345	345	1	200											
				Open 130753 FRASR345	345	130755 OAKDL345	345	1												
14236	1854.9	2861.0	L:	126266 DUNWODIE	345	126600 REAC71	345	SR												
				Base Case																

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14237	1854.9	2861.0	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	695.8	783.0	0.04702					
			Base Case													
14238	1870.2	2872.3	L: Interface	26	ONTARIO-MICH				504.4	0.0	-0.26971	-0.26527	736.0	239.9		
			C:HQ-NY-765-New					1776								
			Open 147827	MARCY765	765	147828	MASS 765	765	1	NA						
			Open 147828	MASS 765	765	180819	CHA-NY	765	1	NA						
			Open 147827	MARCY765	765	147833	MARCY T1	345	1			0.13560	-0.01752	624.7	591.9	
			Open 147827	MARCY765	765	147833	MARCY T1	345	2			0.13560	-0.01524	543.6	515.1	
			Open 156	MCY765SW	0.0	147827	MARCY765	765	1	NA						
			Open 147838	MASS230B	230	147839	MOSES E	230	1			-0.00000	0.01638	10.3	41.0	
			Open 147828	MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837	MASS230A	230	147839	MOSES E	230	1			0.35776	0.00000	18.8	18.8	
			Open 147828	MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158	MS765SW2	0.0	147828	MASS 765	765	1	NA						
			Open 157	MS765SW1	0.0	147828	MASS 765	765	1	NA						
			Decrease bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set bus	181319	CHAT G3	120	load to	357.0	MW dispatch							
			Decrease bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus	181419	CHAT G4	120	load to	357.0	MW dispatch							
14241	1911.8	2902.8	L: Interface	14	Leeds-PV				3101.0	3450.0	0.18253	0.14980	2522.1	2808.5		
			C:125000	HURLEY 3	345	137451	LEEDS 3	345	1	3						
			Open 125000	HURLEY 3	345	137451	LEEDS 3	345	1			-0.64389	-0.05083	-899.2	-996.3	
14244	1915.4	2905.5	L: 130807	GOUDY115	115	130848	S.OWE115	115	1	-3.7	-143.0	-0.07271	-0.04689	24.3	-65.5	
			C:130755	OAKDL345	345	130757	WATRC345	345	1	206						
			Open 130755	OAKDL345	345	130757	WATRC345	345	1			0.10628	-0.24292	-263.5	-728.8	
14245	1917.5	2907.0	L: 130801	PAVMT115	115	130857	STOLE115	115	1	-100.4	-179.0	-0.04099	-0.02910	-76.0	-131.8	
			C:130857	STOLE115	115	130858	GIRD115	115	1	367						
			Open 130857	STOLE115	115	130858	GIRD115	115	1			-0.37783	0.03146	64.6	124.9	
14248	1925.1	2912.6	L: 131018	LOUNS115	115	131850	CNYOG115	115	1	16.6	143.0	0.06566	0.04689	18.7	108.9	
			C:BUS:WATERCURE_345													
			Open 130757	WATRC345	345	200769	HOMER CY	345	1			-0.05669	-0.16739	-543.5	-865.8	
			Open 130757	WATRC345	345	130768	WATRC230	230	1			-0.12286	-0.07553	257.6	112.2	
			Open 130755	OAKDL345	345	130757	WATRC345	345	1			-0.05534	0.00000	22.4	22.4	
14249	1925.6	2913.0	L: 130817	JENN 115	115	130851	SIDNT115	115	1	53.9	120.0	0.03435	0.01903	19.8	56.5	
			C:130753	FRASR345	345	130755	OAKDL345	345	1	200						
			Open 130753	FRASR345	345	130755	OAKDL345	345	1			-0.05894	-0.25996	-577.5	-1078.1	
14250	1928.4	2915.0	L: Interface	26	ONTARIO-MICH				511.5	0.0	-0.26527	-0.26527	736.0	224.5		
			C:GEN:9 MI PT2													
			Remove unit 2	from bus	136700	9M PT 2G	25.0	1197.5	MW	dispatch						
14257	1951.3	2931.9	L: Interface	54	NYE-PJME				-621.4	-787.0	-0.08486	0.00000	-451.8	-451.8		
			C:BUS:WATERCURE_345													
			Open 130757	WATRC345	345	200769	HOMER CY	345	1			0.42068	-0.16739	-543.5	-870.2	

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			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.19124	-0.07553	257.6	110.2	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.43761	0.00000	22.4	22.4	
14258	1951.3	2931.9	L: Interface 53 PJME-NYE					621.4	787.0	0.08486	-0.00000	451.8	451.8
			C:BUS:WATERCURE_345									1632	
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.42068	-0.16739	-543.5	-870.2	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.19124	-0.07553	257.6	110.2	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.43761	0.00000	22.4	22.4	
14259	1954.8	2934.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-14.7	-143.0	-0.06566	-0.04689	-16.7	-108.4
			C:BUS:WATERCURE_345									1632	
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.05669	-0.16739	-543.5	-870.8	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.12286	-0.07553	257.6	109.9	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.05534	0.00000	22.4	22.4	
14264	1960.4	2938.6	L: Interface 26 ONTARIO-MICH					520.0	-0.0	-0.26527	-0.26527	736.0	216.0
			C:GEN:NANTCK 8									1565	
			Remove unit 1 from bus 158743 NANTICG8	22.0	490.0 MW	dispatch							
14265	1962.8	2940.4	L: Interface 26 ONTARIO-MICH					520.7	-0.0	-0.26527	-0.26527	736.0	215.3
			C:GEN:PICKER 6									1566	
			Remove unit 1 from bus 156683 PIC B G5	24.0	510.9 MW	dispatch							
14268	1970.0	2945.6	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	691.0	783.0	0.04669			
			Base Case										
14269	1970.0	2945.6	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	691.0	783.0	0.04669			
			Base Case										
14272	1990.3	2960.5	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	18.7	112.0	0.04689			
			Base Case										
14273	1991.1	2961.1	L: Interface 53 PJME-NYE					514.6	787.0	0.13679	-0.00000	451.8	451.8
			C:LKWANA-OXBW									1651	
			Open 417 OXBOW	230	3070 LACKAWNA	230	1			-0.52445	-0.26083	-119.7	-639.1
14274	1991.1	2961.1	L: Interface 54 NYE-PJME					-514.6	-787.0	-0.13679	0.00000	-451.8	-451.8
			C:LKWANA-OXBW									1651	
			Open 417 OXBOW	230	3070 LACKAWNA	230	1			0.52445	-0.26083	-119.7	-639.1
14277	2021.2	2983.2	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	29.3	143.0	0.05623	0.04689	18.7	113.4
			C:130768 WATRC230	230	130772 SHRED230	230	1	227					
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.15025	0.06217	71.0	196.7
14278	2031.9	2991.1	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-16.7	-112.0	-0.04689			
			Base Case										
14279	2033.4	2992.2	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	28.7	143.0	0.05623	0.04689	18.7	114.0
			C:SER:OAKDALE_WATRC230									1594	
			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.15025	0.06217	71.0	197.5
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			-0.10162	0.00000	6.8	6.8
14280	2034.5	2993.0	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	-11.0	143.0	0.07569	0.04689	18.7	114.1
			C:BUS:WATERCURE_230									1633	

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			Open 130768 WATRC230	230	130772 SHRED230	230	1			0.24198	0.06217	71.0	197.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.18211	-0.07553	257.6	103.9
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.12849	0.00000	0.5	0.5
14283	2038.5	2996.0	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	28.4	143.0	0.05623	0.04689	18.7	114.3
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222					
			Open 130765 OAKDL230	230	130772 SHRED230	230	1			-0.15025	-0.06217	-64.5	-191.3
14284	2039.2	2996.5	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	28.3	143.0	0.05623	0.04689	18.7	114.3
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			0.15025	0.06217	64.3	191.0
14285	2055.8	3008.7	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-27.4	-143.0	-0.05623	-0.04689	-16.7	-113.1
			C:130768 WATRC230	230	130772 SHRED230	230	1	227					
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.15025	0.06217	71.0	198.8
14286	2059.0	3011.0	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	4.4	143.0	0.06734	0.04689	18.7	115.2
			C:ETHS/LLGD					1649					
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			-0.06154	-0.17264	117.6	-237.8
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			-0.18664	-0.05265	38.0	-70.4
14287	2060.2	3011.9	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	12.9	-143.0	-0.07569	-0.04689	-16.7	-113.3
			C:BUS:WATERCURE_230					1633					
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.24198	0.06217	71.0	199.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.18211	-0.07553	257.6	102.0
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.12849	0.00000	0.5	0.5
14288	2061.3	3012.7	L: 130836 N.WAV115	115	200676 E.SAYRE	115	1	43.0	-90.0	-0.06451			
			Base Case										
14289	2068.0	3017.7	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.7	-143.0	-0.05623	-0.04689	-16.7	-113.7
			C:SER:OAKDALE_WATRC230					1594					
			Open 130768 WATRC230	230	130772 SHRED230	230	1			-0.15025	0.06217	71.0	199.6
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			0.10162	0.00000	6.8	6.8
14290	2073.2	3021.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.05623	-0.04689	-16.7	-113.9
			C:130765 OAKDL230	230	130772 SHRED230	230	1	222					
			Open 130765 OAKDL230	230	130772 SHRED230	230	1			0.15025	-0.06217	-64.5	-193.4
14291	2073.9	3022.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-26.4	-143.0	-0.05623	-0.04689	-16.7	-114.0
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	223					
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1			-0.15025	0.06217	64.3	193.2
14292	2074.8	3022.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1472.2	-1725.0	-0.12182	-0.07712	-1281.0	-1441.1
			C:137451 LEEDS 3	345	137455 ATHENS	345	1	1006					
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1			-0.44128	0.10128	433.3	643.4
14301	2082.7	3028.4	*L: Interface	26	ONTARIO-MICH			552.5	-0.0	-0.26527	-0.26527	736.0	183.5
			C:GEN:SEABROOK					1573					
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
14305	2087.9	3032.2	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-2.4	-143.0	-0.06734	-0.04689	-16.7	-114.6
			C:ETHS/LLGD					1649					

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			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.06154	-0.17264	117.6	-242.8
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.18664	-0.05265	38.0	-72.0
14306	2089.0	3033.0	L: Interface 14 Leeds-PV					3080.0	3450.0	0.17710	0.14980	2522.1	2835.0
			C:125002 ROSETON	345	126281 FISHKILL	345	1 10						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.37040	0.07370	1506.4	1660.3
14307	2089.0	3033.0	L: Interface 14 Leeds-PV					3080.0	3450.0	0.17710	0.14980	2522.1	2835.0
			C:SIN:430				1682						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.37040	0.07370	1506.4	1660.3
14314	2171.0	3093.3	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	-18.5	143.0	0.07437	0.04689	18.7	120.5
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.19959	0.13770	-186.1	112.9
14317	2197.2	3112.6	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	20.4	-143.0	-0.07437	-0.04689	-16.7	-119.8
			C:130763 HILSD230	230	130768 WATRC230	230	1 219						
			Open 130763 HILSD230	230	130768 WATRC230	230	1			-0.19959	0.13770	-186.1	116.5
14320	2200.8	3115.2	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-98.6	-179.0	-0.03654	-0.02910	-76.0	-140.1
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04202	-0.16739	-543.5	-911.9
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.00621	-0.06451	43.0	-99.0
14321	2216.4	3126.6	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-37.8	239.0	0.12489	0.09063	-75.0	125.9
			C:130755 OAKDL345	345	130757 WATRC345	345	1 206						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.14107	-0.24292	-263.5	-801.9
14322	2223.5	3131.9	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-98.7	-179.0	-0.03610	-0.02910	-76.0	-140.7
			C:130757 WATRC345	345	200769 HOMER CY	345	1 1374						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04180	-0.16739	-543.5	-915.7
14324	2228.9	3135.8	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-98.4	-179.0	-0.03616	-0.02910	-76.0	-140.9
			C:BUS:WATERCURE_345				1632						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04197	-0.16739	-543.5	-916.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.00038	-0.07553	257.6	89.2
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.01405	0.00000	22.4	22.4
14325	2235.3	3140.5	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-88.1	-179.0	-0.04068	-0.02904	-64.2	-129.1
			C:130857 STOLE115	115	130858 GIRD115	115	1 367						
			Open 130857 STOLE115	115	130858 GIRD115	115	1			-0.36975	0.03146	64.6	134.9
14326	2238.7	3143.0	L: Interface 54 NYE-PJME					-629.0	-787.0	-0.07058	0.00000	-451.8	-451.8
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.34224	-0.16739	-543.5	-918.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.20609	-0.06451	43.0	-101.4
14327	2238.7	3143.0	L: Interface 53 PJME-NYE					629.0	787.0	0.07058	-0.00000	451.8	451.8
			C:SER:HCWC/NWES				1607						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.34224	-0.16739	-543.5	-918.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.20609	-0.06451	43.0	-101.4
14334	2268.5	3164.9	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-88.5	-179.0	-0.03988	-0.02910	-76.0	-142.0
			C:130806 GARDV115	115	130858 GIRD115	115	1 295						

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			Open 130806 GARDV115	115	130858 GIRD115	115	1		0.36205	-0.02977	-34.6	-102.1	
14343	2275.1	3169.8	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1523.3	-1725.0	-0.08863	-0.07267	-1241.0	-1406.4
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	3					
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1		0.31397	-0.05083	-899.2	-1014.8	
14345	2281.6	3174.6	*L: 131018 LOUNSL115	115	131850 CNYOG115	115	1	47.6	143.0	0.04182	0.04689	18.7	125.7
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209					
			Open 130755 OAKDL345	345	131128 LAPEER	345	1		-0.05020	0.10093	-575.7	-345.4	
14357	2303.6	3190.7	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-772.3	-1380.0	-0.26381	-0.25996	-577.5	-1176.4
			C:130753 FRASR345	345	137200 EDIC	345	1	202					
			Open 130753 FRASR345	345	137200 EDIC	345	1		0.27558	-0.01397	-706.7	-738.9	
14365	2317.3	3200.8	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-101.8	-179.0	-0.03333	-0.02910	-76.0	-143.5
			C:135398 SW345	345	135564 SW115	115	1	517					
			Open 135398 SW345	345	135564 SW115	115	1		-0.17605	0.02401	146.2	201.9	
14374	2328.0	3208.6	L: 130836 N.WAV115	115	131018 LOUNSL115	115	1	20.2	173.0	0.06566	0.04689	22.2	131.4
			C:BUS:WATERCURE_345					1632					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.05669	-0.16739	-543.5	-933.2	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.12286	-0.07553	257.6	81.7	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.05534	0.00000	22.4	22.4	
14377	2328.2	3208.8	*L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-45.6	-143.0	-0.04182	-0.04689	-16.7	-125.9
			C:130755 OAKDL345	345	131128 LAPEER	345	1	209					
			Open 130755 OAKDL345	345	131128 LAPEER	345	1		0.05020	0.10093	-575.7	-340.7	
14378	2328.4	3208.9	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-97.7	-179.0	-0.03492	-0.02910	-76.0	-143.8
			C:SER:HC-WC_30&W-F_171					1601					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.04152	-0.16739	-543.5	-933.3	
			Open 135277 FALCONER	115	200579 WARREN	115	1		-0.02497	-0.04530	-35.9	-141.4	
14435	2357.9	3230.6	L: 130787 CODNT115	115	130830 MONTR115	115	1	-6.1	-144.0	-0.05848	-0.03852	15.5	-75.3
			C:130755 OAKDL345	345	130757 WATRC345	345	1	206					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.08214	-0.24292	-263.5	-836.3	
14457	2373.2	3241.8	L: Interface 53 PJME-NYE					639.3	787.0	0.06224	-0.00000	451.8	451.8
			C:SER:HC-WC_30&W-F_171					1601					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		-0.33620	-0.16739	-543.5	-940.8	
			Open 135277 FALCONER	115	200579 WARREN	115	1		-0.13169	-0.04530	-35.9	-143.4	
14458	2373.2	3241.8	L: Interface 54 NYE-PJME					-639.3	-787.0	-0.06224	0.00000	-451.8	-451.8
			C:SER:HC-WC_30&W-F_171					1601					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.33620	-0.16739	-543.5	-940.8	
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.13169	-0.04530	-35.9	-143.4	
14481	2383.9	3249.7	L: 130836 N.WAV115	115	131018 LOUNSL115	115	1	-7.4	173.0	0.07569	0.04689	22.2	134.0
			C:BUS:WATERCURE_230					1633					
			Open 130768 WATRC230	230	130772 SHRED230	230	1		0.24198	0.06217	71.0	219.2	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.18211	-0.07553	257.6	77.5	
			Open 130763 HILSD230	230	130768 WATRC230	230	1		0.12849	0.00000	0.5	0.5	
14486	2386.4	3251.5	L: Interface 62 C2PJMW					-345.0	-1436.0	-0.45720			

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14487	2386.4	3251.5	L: Interface	63	PJMW2C	345.0	1436.0	0.45720								
Base Case																
14571	2401.2	3262.5	L: 130768	WATRC230	230	130772	SHRED230	230	1	139.4	440.0	0.12519	0.06217	71.0	220.3	
			C:130755	OAKDL345	345	130757	WATRC345	345	1	206						
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			-0.25941	-0.24292	-263.5	-846.8
14692	2416.9	3274.0	L: 130824	LAPER115	115	136247	TULLER H	115	1	65.8	145.0	0.03276	0.01976	37.0	84.7	
			C:130753	FRASR345	345	130755	OAKDL345	345	1	200						
			Open	130753	FRASR345	345	130755	OAKDL345	345	1			-0.04998	-0.25996	-577.5	-1205.8
17732	2451.8	3299.6	L: 130836	N.WAV115	115	131018	LOUNSI115	115	1	7.9	173.0	0.06734	0.04689	22.2	137.2	
			C:ETHS/LLGD							1649						
			Open	130763	HILSD230	230	200675	E.TWANDA	230	1			-0.06154	-0.17264	117.6	-305.6
			Open	130807	GOUDY115	115	200680	LAUREL L	115	1			-0.18664	-0.05265	38.0	-91.1
17739	2453.2	3300.6	L: 130765	OAKDL230	230	130772	SHRED230	230	1	-132.9	-440.0	-0.12519	-0.06217	-64.5	-217.0	
			C:130755	OAKDL345	345	130757	WATRC345	345	1	206						
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			0.25941	-0.24292	-263.5	-859.5
17746	2455.3	3302.2	L: 130765	OAKDL230	230	130838	OAKDL115	115	1	132.6	440.0	0.12519	0.06217	64.3	216.9	
			C:130755	OAKDL345	345	130757	WATRC345	345	1	206						
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			-0.25941	-0.24292	-263.5	-860.0
17787	2464.3	3308.8	L: 126294	PLTVLLEY	345	137455	ATHENS	345	1	-1513.1	-1725.0	-0.08599	-0.07267	-1241.0	-1420.1	
			C:125002	ROSETON	345	126281	FISHKILL	345	1	10						
			Open	125002	ROSETON	345	126281	FISHKILL	345	1			-0.18061	0.07370	1506.4	1688.0
17788	2464.3	3308.8	L: 126294	PLTVLLEY	345	137455	ATHENS	345	1	-1513.1	-1725.0	-0.08599	-0.07267	-1241.0	-1420.1	
			C:SIN:430							1682						
			Open	125002	ROSETON	345	126281	FISHKILL	345	1			-0.18061	0.07370	1506.4	1688.0
17817	2491.6	3328.8	L: 130836	N.WAV115	115	131018	LOUNSI115	115	1	32.9	173.0	0.05623	0.04689	22.2	139.1	
			C:130768	WATRC230	230	130772	SHRED230	230	1	227						
			Open	130768	WATRC230	230	130772	SHRED230	230	1			0.15025	0.06217	71.0	225.9
17819	2494.0	3330.6	L: 135250	DUNKIRK	230	135251	S RIPLEY	230	1	-190.7	-637.0	-0.17895	-0.12896	-64.9	-386.5	
			C:SER:HC-SR_37&W-F_171							1600						
			Open	135398	SW345	345	200769	HOMER CY	345	1			0.28847	-0.10053	-378.4	-629.1
			Open	135277	FALCONER	115	200579	WARREN	115	1			0.46324	-0.04530	-35.9	-148.9
17823	2497.8	3333.4	L: 130794	DELHI115	115	130851	SIDNT115	115	1	-35.8	-120.0	-0.03370	-0.01849	-2.0	-48.2	
			C:130753	FRASR345	345	130755	OAKDL345	345	1	200						
			Open	130753	FRASR345	345	130755	OAKDL345	345	1			0.05853	-0.25996	-577.5	-1226.8
17827	2503.8	3337.8	L: 130836	N.WAV115	115	131018	LOUNSI115	115	1	32.2	173.0	0.05623	0.04689	22.2	139.6	
			C:SER:OAKDALE_WATRC230							1594						
			Open	130768	WATRC230	230	130772	SHRED230	230	1			0.15025	0.06217	71.0	226.7
			Open	130765	OAKDL230	230	130772	SHRED230	230	1	NA					
			Open	130765	OAKDL230	230	130838	OAKDL115	115	1			-0.10162	0.00000	6.8	6.8
17835	2508.9	3341.6	L: 130836	N.WAV115	115	131018	LOUNSI115	115	1	31.9	173.0	0.05623	0.04689	22.2	139.9	
			C:130765	OAKDL230	230	130772	SHRED230	230	1	222						

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			Open 130765 OAKDL230	230	130772 SHRED230	230	1				-0.15025	-0.06217	-64.5	-220.5
17836	2509.7	3342.1	L: 130836 N.WAV115	115	131018 LOUNSL115	115	1	31.9	173.0	0.05623		0.04689	22.2	139.9
			C:130765 OAKDL230	230	130838 OAKDL115	115	1							
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.15026	0.06217	64.3	220.3
17845	2517.2	3347.6	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1317.8	-1703.0	-0.15303		-0.12847	-997.1	-1320.5
			C:130750 COOPC345	345	147833 MARCY T1	345	1							
			Open 130750 COOPC345	345	147833 MARCY T1	345	1				0.43391	-0.05661	-739.1	-881.6
17851	2526.7	3354.6	L: 130836 N.WAV115	115	131018 LOUNSL115	115	1	-14.9	173.0	0.07437		0.04689	22.2	140.7
			C:130763 HILSD230	230	130768 WATRC230	230	1							
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.19959	0.13770	-186.1	161.8
17852	2527.6	3355.3	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-86.8	-179.0	-0.03648		-0.02904	-64.2	-137.6
			C:SER:HCWC/NWES											1607
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04204	-0.16739	-543.5	-966.6
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00621	-0.06451	43.0	-120.1
17871	2554.3	3374.9	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-86.9	-179.0	-0.03604		-0.02904	-64.2	-138.4
			C:130757 WATRC345	345	200769 HOMER CY	345	1							1374
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04181	-0.16739	-543.5	-971.1
17875	2559.2	3378.5	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-86.6	-179.0	-0.03610		-0.02904	-64.2	-138.5
			C:BUS:WATERCURE_345											1632
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.04198	-0.16739	-543.5	-971.9
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.00037	-0.07553	257.6	64.3
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.01405	0.00000	22.4	22.4
17879	2561.9	3380.5	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-76.8	-179.0	-0.03989		-0.02904	-64.2	-138.6
			C:130806 GARDV115	115	130858 GIRD115	115	1							295
			Open 130806 GARDV115	115	130858 GIRD115	115	1				0.36437	-0.02977	-34.6	-110.8
17888	2579.3	3393.3	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	26.3	-143.0	-0.06566		-0.04689	24.3	-96.7
			C:BUS:WATERCURE_345											1632
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				0.05669	-0.16739	-543.5	-975.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.12286	-0.07553	257.6	62.8
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.05534	0.00000	22.4	22.4
17912	2596.2	3405.7	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-67.3	239.0	0.11798		0.09063	-75.0	160.3
			C:BUS:WATERCURE_345											1632
			Open 130757 WATRC345	345	200769 HOMER CY	345	1				-0.09245	-0.16739	-543.5	-978.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.15732	-0.07553	257.6	61.5
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.09121	0.00000	22.4	22.4
17925	2601.9	3409.9	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	53.9	-143.0	-0.07569		-0.04689	24.3	-97.7
			C:BUS:WATERCURE_230											1633
			Open 130768 WATRC230	230	130772 SHRED230	230	1				-0.24198	0.06217	71.0	232.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.18211	-0.07553	257.6	61.1
			Open 130763 HILSD230	230	130768 WATRC230	230	1				-0.12849	0.00000	0.5	0.5
17929	2606.1	3413.0	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-577.5	-1255.0	-0.25996				
			Base Case											

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18008	2637.0	3435.7	L: Interface 15 ItoNYC345				2799.7	3288.0	0.18517				
			Base Case										
19603	2670.5	3460.3	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-85.9	-179.0	-0.03487	-0.02904	-64.2	-141.8
			C:SER:HC-WC_30&W-F_171				1601						
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			0.04154	-0.16739	-543.5	-990.6
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.02496	-0.04530	-35.9	-156.9
19630	2675.4	3463.9	L: 130799 ERIE 115	115	130801 PAVMT115	115	1	-90.0	-179.0	-0.03328	-0.02904	-64.2	-141.9
			C:135398 SW345	345	135564 SW115	115	1	517					
			Open 135398 SW345	345	135564 SW115	115	1			-0.17620	0.02401	146.2	210.5
21066	2696.8	3479.6	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	38.6	-143.0	-0.06734	-0.04689	24.3	-102.2
			C:ETHS/LLGD				1649						
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1			0.06154	-0.17264	117.6	-347.9
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1			0.18664	-0.05265	38.0	-104.0
21094	2697.6	3480.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-678.7	-1380.0	-0.25996	-0.25996	-577.5	-1278.8
			C:SIN:250				1677						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00002	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
21278	2719.3	3496.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-656.6	-1380.0	-0.26602	-0.25996	-577.5	-1284.4
			C:130750 COOPC345	345	147833 MARCY T1	345	1	196					
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.10700	-0.05661	-739.1	-893.1
21294	2725.1	3500.4	L: 130836 N.WAV115	115	131018 LOUNS115	115	1	22.2	150.0	0.04689			
			Base Case										
21305	2726.9	3501.7	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-89.5	-179.0	-0.03281	-0.02910	-76.0	-155.4
			C:130806 GARDV115	115	135450 GRDNVL1	115	1	297					
			Open 130806 GARDV115	115	135450 GRDNVL1	115	1			-0.12156	0.03049	111.2	194.4
21306	2727.1	3501.9	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-263.5	-926.0	-0.24292			
			Base Case										
21320	2732.6	3505.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.26727	-0.25996	-577.5	-1287.9
			C:SIN:180				1672						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.10059	-916.1	-1190.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04702	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00061	0.00021	88.8	89.4
21321	2732.6	3505.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-649.7	-1380.0	-0.26727	-0.25996	-577.5	-1287.9
			C:SIN:170				1671						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07265	-0.10059	-916.1	-1190.9
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.04710	0.00000	119.9	119.9
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00092	0.00029	74.8	75.6
21326	2734.5	3507.3	L: Interface 53 PJME-NYE					633.8	787.0	0.05604	-0.00000	451.8	451.8
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374					
			Open 130757 WATRC345	345	200769 HOMER CY	345	1			-0.33475	-0.16739	-543.5	-1001.3
21327	2734.5	3507.3	L: Interface 54 NYE-PJME					-633.8	-787.0	-0.05604	0.00000	-451.8	-451.8
			C:130757 WATRC345	345	200769 HOMER CY	345	1	1374					

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			Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.33475	-0.16739	-543.5	-1001.3
21328	2736.0	3508.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-668.8 -1380.0 -0.25996		-0.25996	-577.5	-1288.8
			C:GEN:SEABROOK				1573					
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
21329	2736.0	3508.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-668.8 -1380.0 -0.25996		-0.25996	-577.5	-1288.8
			C:GEN:SEAB&OMS				1575					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00002	0.00000	-0.1	-0.1
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
21347	2740.8	3512.0	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0 -707.0 -0.03647		-0.02122	-448.0	-506.2
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	7				
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1		-0.14263	0.10693	1114.8	1407.9
21348	2740.8	3512.0	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-607.0 -707.0 -0.03647		-0.02122	-448.0	-506.2
			C:SIN:440				1683					
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1		-0.14263	0.10693	1114.8	1407.9
21352	2741.5	3512.5	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-667.3 -1380.0 -0.25996		-0.25996	-577.5	-1290.2
			C:GEN:MILLST 3				1572					
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
21353	2741.5	3512.5	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-667.3 -1380.0 -0.25996		-0.25996	-577.5	-1290.2
			C:GEN:MLS3&OMS				1574					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00002	0.00000	-0.1	-0.1
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
21371	2748.5	3517.6	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	61.4 -143.0 -0.07437		-0.04689	24.3	-104.6
			C:130763 HILSD230	230	130768 WATRC230	230	1	219				
			Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.19959	0.13770	-186.1	192.4
21419	2756.5	3523.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1474.4 -1725.0 -0.09090		-0.07712	-1281.0	-1493.6
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	1				
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1		-0.29333	0.04696	659.3	788.7
21437	2761.3	3527.0	*L: 130753 FRASR345	345	130755 OAKDL345	345	1	-642.5 -1380.0 -0.26709		-0.25996	-577.5	-1295.3
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1012				
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.07092	-0.10059	-916.1	-1193.8
21456	2764.9	3529.7	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-28.4 239.0 0.09672		0.09063	-75.0	175.6
			C:130807 GOUDY115	115	131021 ROBBL115	115	1	300				
			Open 130807 GOUDY115	115	131021 ROBBL115	115	1		0.93989	0.00649	49.5	67.5
21589	2772.3	3535.1	L: 130807 GOUDY115	115	200680 LAUREL L	115	1	38.0 -108.0 -0.05265				
			Base Case									
22719	2779.1	3540.1	L: 130807 GOUDY115	115	130838 OAKDL115	115	1	-111.8 239.0 0.12624		0.09063	-75.0	176.9
			C:BUS:WATERCURE_230				1633					
			Open 130768 WATRC230	230	130772 SHRED230	230	1		0.29871	0.06217	71.0	243.8
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.22565	-0.07553	257.6	47.7
			Open 130763 HILSD230	230	130768 WATRC230	230	1		0.14326	0.00000	0.5	0.5
22841	2785.0	3544.4	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	13.6 -143.0 -0.05623		-0.04689	24.3	-106.3
			C:130768 WATRC230	230	130772 SHRED230	230	1	227				

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			Open 130768 WATRC230	230	130772 SHRED230	230	1					-0.15025	0.06217	71.0	244.2
22863	2786.1	3545.3	L: Interface 54 NYE-PJME					-600.5	-787.0	-0.06693		0.00000		-451.8	-451.8
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200								
			Open 130753 FRASR345	345	130755 OAKDL345	345	1					0.25747	-0.25996	-577.5	-1301.8
22864	2786.1	3545.3	L: Interface 53 PJME-NYE					600.5	787.0	0.06693		-0.00000		451.8	451.8
			C:130753 FRASR345	345	130755 OAKDL345	345	1 200								
			Open 130753 FRASR345	345	130755 OAKDL345	345	1					-0.25747	-0.25996	-577.5	-1301.8
22935	2797.3	3553.4	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	14.3	-143.0	-0.05623		-0.04689		24.3	-106.9
			C:SER:OAKDALE_WATRC230												1594
			Open 130768 WATRC230	230	130772 SHRED230	230	1					-0.15025	0.06217	71.0	244.9
			Open 130765 OAKDL230	230	130772 SHRED230	230	1	NA							
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1					0.10162	0.00000	6.8	6.8
22952	2802.4	3557.2	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	14.6	-143.0	-0.05623		-0.04689		24.3	-107.1
			C:130765 OAKDL230	230	130772 SHRED230	230	1 222								
			Open 130765 OAKDL230	230	130772 SHRED230	230	1					0.15025	-0.06217	-64.5	-238.8
22954	2803.1	3557.7	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	14.6	-143.0	-0.05623		-0.04689		24.3	-107.2
			C:130765 OAKDL230	230	130838 OAKDL115	115	1 223								
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1					-0.15026	0.06217	64.3	238.5
22965	2807.2	3560.7	L: 130801 PAVMT115	115	130857 STOLE115	115	1	-87.3	-179.0	-0.03267		-0.02910		-76.0	-157.7
			C:130857 STOLE115	115	131466 DAVIS115	115	1 368								
			Open 130857 STOLE115	115	131466 DAVIS115	115	1					-0.28642	0.01244	39.4	74.3
23021	2826.4	3574.9	*L: 130836 N.WAV115	115	131018 LOUNS115	115	1	16.0	173.0	0.05556		0.04689		22.2	154.8
			C:130807 GOUDY115	115	200680 LAUREL L	115	1 1376								
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1					-0.16462	-0.05265	38.0	-110.8
23061	2850.8	3592.7	L: Interface 54 NYE-PJME					-345.7	-787.0	-0.15482		0.00000		-451.8	-451.8
			C:ETHS/NWES/LLGD												1648
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1					0.52034	-0.17264	117.6	-374.5
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1					0.53724	-0.06451	43.0	-140.9
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1					0.57599	-0.05265	38.0	-112.1
23062	2850.8	3592.7	L: Interface 53 PJME-NYE					345.7	787.0	0.15482		-0.00000		451.8	451.8
			C:ETHS/NWES/LLGD												1648
			Open 130763 HILSD230	230	200675 E.TWANDA	230	1					-0.52034	-0.17264	117.6	-374.5
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1					-0.53724	-0.06451	43.0	-140.9
			Open 130807 GOUDY115	115	200680 LAUREL L	115	1					-0.57599	-0.05265	38.0	-112.1
23074	2868.1	3605.4	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-296.5	-1076.0	-0.27178		-0.24292		-263.5	-960.2
			C:130768 WATRC230	230	130772 SHRED230	230	1 227								
			Open 130768 WATRC230	230	130772 SHRED230	230	1					-0.46423	0.06217	71.0	249.3
23075	2869.7	3606.6	L: Interface 42 K-to-I					-936.1	-1307.0	-0.12924					
			Base Case												
23076	2869.7	3606.6	L: Interface 41 I-to-K					936.1	1307.0	0.12924					
			Base Case												
23081	2872.9	3609.0	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-295.2	-1076.0	-0.27178		-0.24292		-263.5	-961.4

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			C:SER:OAKDALE_WATRC230										1594	
			Open 130768 WATRC230	230	130772	SHRED230	230	1		-0.46423	0.06217	71.0	249.6	
			Open 130765 OAKDL230	230	130772	SHRED230	230	1	NA					
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1		0.19473	0.00000	6.8	6.8	
23082	2875.8	3611.2	L: 135251 S RIPLEY	230	200654	ERIE E	230	1	-114.5	-637.0	-0.18169	-0.13170	11.3	-367.5
			C:SER:HC-SR_37&W-F_171										1600	
			Open 135398 SW345	345	200769	HOMER CY	345	1		0.28847	-0.10053	-378.4	-667.5	
			Open 135277 FALCONER	115	200579	WARREN	115	1		0.46324	-0.04530	-35.9	-166.2	
23083	2876.5	3611.6	L: 136184 CORTLAND	115	136247	TULLER H	115	1	-64.8	-159.0	-0.03276	-0.01976	-35.9	-92.8
			C:130753 FRASR345	345	130755	OAKDL345	345	1	200					
			Open 130753 FRASR345	345	130755	OAKDL345	345	1		0.04998	-0.25996	-577.5	-1325.3	
23086	2879.2	3613.6	L: 130755 OAKDL345	345	130757	WATRC345	345	1	-293.5	-1076.0	-0.27178	-0.24292	-263.5	-962.9
			C:130765 OAKDL230	230	130772	SHRED230	230	1	222					
			Open 130765 OAKDL230	230	130772	SHRED230	230	1		0.46423	-0.06217	-64.5	-243.5	
23087	2879.6	3613.9	L: 130755 OAKDL345	345	130757	WATRC345	345	1	-293.4	-1076.0	-0.27178	-0.24292	-263.5	-963.1
			C:130765 OAKDL230	230	130838	OAKDL115	115	1	223					
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1		-0.46423	0.06217	64.3	243.3	
23091	2887.0	3619.3	L: 130750 COOPC345	345	146754	MDTN TAP	345	1	1350.8	1793.0	0.15317	0.09609	874.1	1151.5
			C:125001 ROCK TAV	345	130750	COOPC345	345	2	8					
			Open 125001 ROCK TAV	345	130750	COOPC345	345	2		-0.64149	-0.08898	-743.2	-1000.1	
23092	2888.0	3620.1	L: 130807 GOUDY115	115	130838	OAKDL115	115	1	-120.9	239.0	0.12464	0.09063	-75.0	186.7
			C:130763 HILSD230	230	130768	WATRC230	230	1	219					
			Open 130763 HILSD230	230	130768	WATRC230	230	1		0.24699	0.13770	-186.1	211.6	
23095	2889.7	3621.3	L: 130807 GOUDY115	115	130838	OAKDL115	115	1	-91.1	239.0	0.11422	0.09063	-75.0	186.9
			C:130763 HILSD230	230	200675	E.TWANDA	230	1	1375					
			Open 130763 HILSD230	230	200675	E.TWANDA	230	1		-0.13669	-0.17264	117.6	-381.2	
23106	2906.4	3633.6	L: 130807 GOUDY115	115	130848	S.OWE115	115	1	24.3	-112.0	-0.04689			
			Base Case											
23117	2929.5	3650.6	L: 130755 OAKDL345	345	130757	WATRC345	345	1	-368.0	-1076.0	-0.24169	-0.24292	-263.5	-975.2
			C:HQ-NY-765-New										1776	
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833	MARCY T1	345	1		-0.03770	-0.01752	624.7	573.4	
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		-0.03770	-0.01524	543.6	499.0	
			Open 156 MCY765SW	0.0	147827	MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839	MOSES E	230	1		0.00000	0.01638	10.3	58.3	
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839	MOSES E	230	1		0.05810	0.00000	18.8	18.8	
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
			Open 158 MS765SW2	0.0	147828	MASS 765	765	1	NA					
			Open 157 MS765SW1	0.0	147828	MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX		13.8	generation by							100.0	percent dispatch

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Set      bus 181319 CHAT G3      120    load to    357.0 MW dispatch
Decrease bus 180002 BEA-DL      13.8 generation by 100.0 percent dispatch
Set      bus 181419 CHAT G4      120    load to    357.0 MW dispatch
23120   2945.7 3662.5 L: 130807 GOUDY115      115 130838 OAKDL115      115 1      -61.8 239.0 0.10213      0.09063 -75.0 192.0
C:130768 WATRC230      230 130772 SHRED230      230 1 227
Open 130768 WATRC230      230 130772 SHRED230      230 1      0.18505 0.06217 71.0 254.2
23124   2948.7 3664.7 L: 130755 OAKDL345      345 130757 WATRC345      345 1      -359.7 -1076.0 -0.24292      -0.24292 -263.5 -979.8
C:GEN:9 MI PT2
Remove unit 2 from bus 136700 9M PT 2G 25.0 1197.5 MW dispatch
23129   2954.0 3668.6 L: 130807 GOUDY115      115 130838 OAKDL115      115 1      -46.7 239.0 0.09672      0.09063 -75.0 192.7
C:130835 N.END115      115 131021 ROBBL115      115 1 345
Open 130835 N.END115      115 131021 ROBBL115      115 1      -0.93989 -0.00649 -30.1 -49.2
23130   2955.0 3669.3 L: 130807 GOUDY115      115 130838 OAKDL115      115 1      -62.8 239.0 0.10213      0.09063 -75.0 192.8
C:SER:OAKDALE_WATRC230      1594
Open 130768 WATRC230      230 130772 SHRED230      230 1      0.18505 0.06217 71.0 254.8
Open 130765 OAKDL230      230 130772 SHRED230      230 1      NA
Open 130765 OAKDL230      230 130838 OAKDL115      115 1      -0.14074 0.00000 6.8 6.8
23133   2957.5 3671.1*L: 130807 GOUDY115      115 130838 OAKDL115      115 1      -63.0 239.0 0.10213      0.09063 -75.0 193.0
C:130765 OAKDL230      230 130772 SHRED230      230 1 222
Open 130765 OAKDL230      230 130772 SHRED230      230 1      -0.18505 -0.06217 -64.5 -248.4
23145   2982.6 3689.6 L: 130794 DELHI115      115 130838 OAKDL115      115 1      -76.3 -179.0 -0.03442      -0.01908 -42.2 -99.2
C:130753 FRASR345      345 130755 OAKDL345      345 1 200
Open 130753 FRASR345      345 130755 OAKDL345      345 1      0.05902 -0.25996 -577.5 -1352.9

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APPENDIX F – NOTES ON PJM EAST – NY EAST INTERFACE

PJM East to NY East:

PJM East - NY East represents the flows on the following interfaces:

- PJM East - Zone G: Jefferson-Ramapo 500 kV line (1000 MW) + Waldwick-S.Mahwah 138 kV lines (-1000 MW) + Flow from PJM to RECO load (500 MW)

The limits on the PJM East - Zone G interface is determined by the PSEG-ConEd wheel (0 MW) plus the flow from PJM into RECO load (500 MW).

- PJM East - Zone J: Hudson-Farragut PARs + Linden-Goethals PARs

The PJM East - Zone J interface has the following limits: 1200/800/700/600.

1200 MW represents the maximum capability of the Hudson-Farragut PARs + Linden-Goethals PARs. The other limits 800/700/600 MW depend on the status of generation in PJM (Bergen 2 combined-cycle plant, Linden 2 combined-cycle plant and Hudson 2 generation). It is our understanding that the PJM East to Zone J flow is presently capped at 1000 MW based on the PSEG to Con Ed Wheeling Agreement.

Although the Linden VFT is shown as a separate bubble, it is part of PJM and thus the flow on the PJM East - Linden VFT interface is 0 MW.

The PJM East - NY East flow however does not appear to include the flow between Linden VFT and NYCA.

Based on the above discussion, PJM East - NY East interface flow is limited to: 500 MW + 1000 MW = 1500 MW

Note: In the power flow case, RECO is radially connected to the Orange & Rockland (O&R) system through ten ties. Since the RECO system comprises only load and no generation, the addition of these ties to the interface definitions reduces the PJM East to NY East interface flows by an amount which is independent of the generation dispatch (roughly 550 MW for summer 2018 peak conditions). "Calculated" transfer limits across the affected interfaces are accordingly reduced. i.e., PJM East to NY East flow in STARS 2018 power flow case (not counting the Linden VFT - NYCA flow) is: 1000 MW (flow on PJM East - Zone G) - 550 (RECO load) = 450 MW. See below:

**** Interface ****				Limit	Limit		
				Import	Export	InitFlow	
53	PJME-NYE			-5618.0	5618.0	451.8	
List of interface branches							
**	From Bus	**	**	To Bus	**	CKT	InitFlow
	91 JEFFERSN	500	126250	RAMAPO 5	500	1	1001.1
	4989 HUDSON1	345	126278	B3402 PAR1	345	1	332.9
	4996 LINDEN	230	126321	GOETHALS	230	1	334.5
	5028 WALDWICK	345	146752	SMAHWAH1	345	1	-453.9
	5028 WALDWICK	345	146753	SMAHWAH2	345	1	-546.8
	5039 HUDSON2	345	126279	C3403 PAR2	345	1	332.9

9803	HCOR138	138	146761	BURNS138	138	1	-105.3
9804	SMAH138	138	146769	RAMP138	138	1	-149.8
9804	SMAH138	138	146752	SMAHWAH1	345	1	-127.2
9808	HCOR69	69.0	146812	WNYA69	69.0	1	-29.8
9809	MONTVALE	69.0	146777	BLUHILL	69.0	1	5.9
9809	MONTVALE	69.0	146777	BLUHILL	69.0	2	5.9
9809	MONTVALE	69.0	146850	L491T	69.0	1	-56.3
9810	SMAH69	69.0	146790	HILB69	69.0	1	-78.6
9811	HCOR34	34.5	146826	PEARL34	34.5	1	9.1
9814	CRESSKIL	69.0	146807	SPARKILL	69.0	1	-22.8
Total Flow:							451.8

NY East to PJM East:

Similarly, the NY East - PJM East interface is limited to 2000 MW. This represents the flows on the following interfaces:

- Zone G - PJM East: Ramapo-Jefferson 500 kV line (1000 MW) + S.Mahwah-Waldwick 138 kV lines (1000 MW) + Flow from RECO load to PJM (0 MW) and. The limits on the Zone G - PJM East interface is capped at 2000 MW.
- Zone J - PJM East: Farragut-Hudson PARs + Goethals-Linden PARs (0 MW)

For the purposes of evaluating NY-PJM transfers, a sensitivity case was developed with Ramapo-Jefferson 500 kV flow set at 1000 MW. In this sensitivity case, the calculated transfer across the NY East - PJM East interface is increased by 550 MW due to RECO load and reduced by 1000 MW due to the flow on the Farragut-Hudson PARs and Goethals-Linden PARs. i.e., the net transfer on the NY East to PJM East interface is: $2000+550-1000 = 1550$ MW. See below:

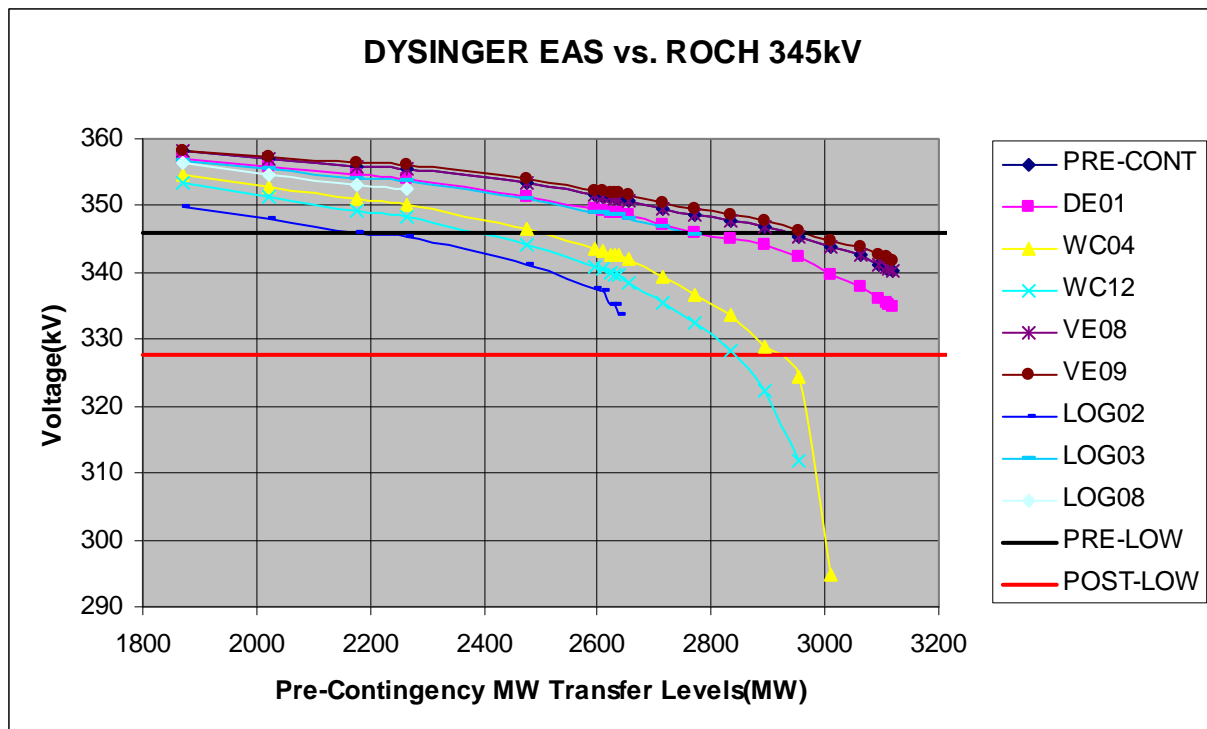
**** Interface ***				Limit	Limit		
			Import	Export	InitFlow		
54	NYE-PJME		-5618.0	5618.0	1547.9		
List of interface branches							
**	From Bus	**	**	To Bus	**	CKT	InitFlow
126250	RAMAPO 5	500	91	JEFFERSN	500	1	998.9
126278	B3402 PAR1	345	4989	HUDSON1	345	1	-333.1
126321	GOETHALS	230	4996	LINDEN	230	1	-334.4
146752	SMAHWAH1	345	5028	WALDWICK	345	1	456.0
146753	SMAHWAH2	345	5028	WALDWICK	345	1	544.8
126279	C3403 PAR2	345	5039	HUDSON2	345	1	-333.1
146761	BURNS138	138	9803	HCOR138	138	1	105.0
146769	RAMP138	138	9804	SMAH138	138	1	152.9
146752	SMAHWAH1	345	9804	SMAH138	138	1	119.8
146812	WNYA69	69.0	9808	HCOR69	69.0	1	33.4
146777	BLUHILL	69.0	9809	MONTVALE	69.0	1	-5.9
146777	BLUHILL	69.0	9809	MONTVALE	69.0	2	-5.9
146850	L491T	69.0	9809	MONTVALE	69.0	1	56.4
146790	HILB69	69.0	9810	SMAH69	69.0	1	78.8
146826	PEARL34	34.5	9811	HCOR34	34.5	1	-9.5
146807	SPARKILL	69.0	9814	CRESSKIL	69.0	1	23.7
Total Flow:							1547.9

APPENDIX G – PV CURVES FOR VOLTAGE TRANSFER ANALYSIS

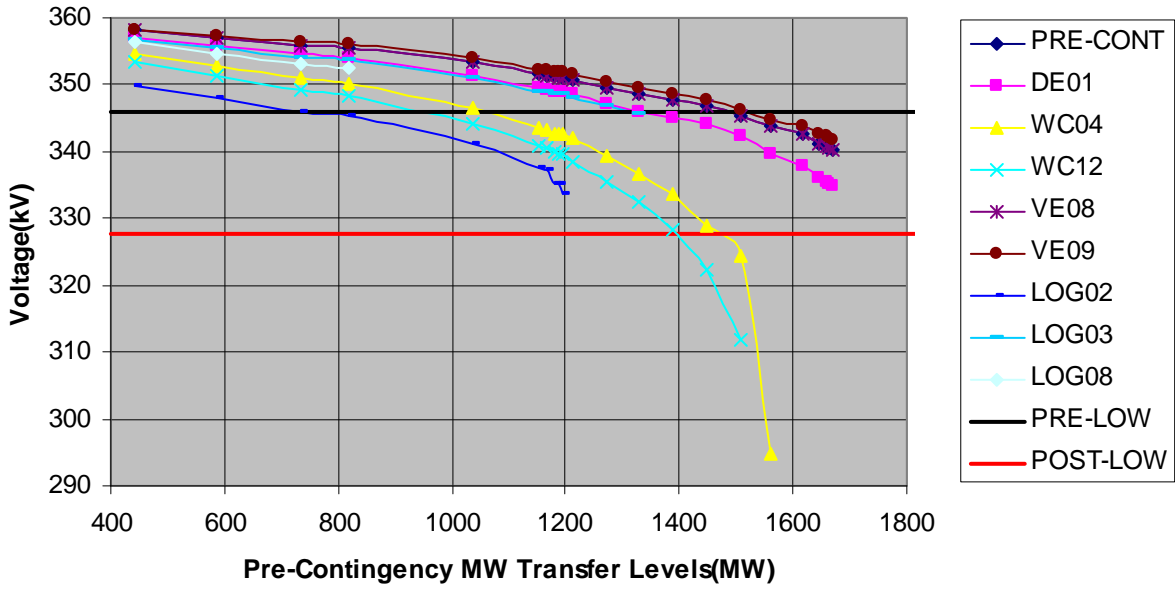
G.1 DYSINGER EAST & WEST CENTRAL

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

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



WEST-CENTRAL vs. ROCH 345kV

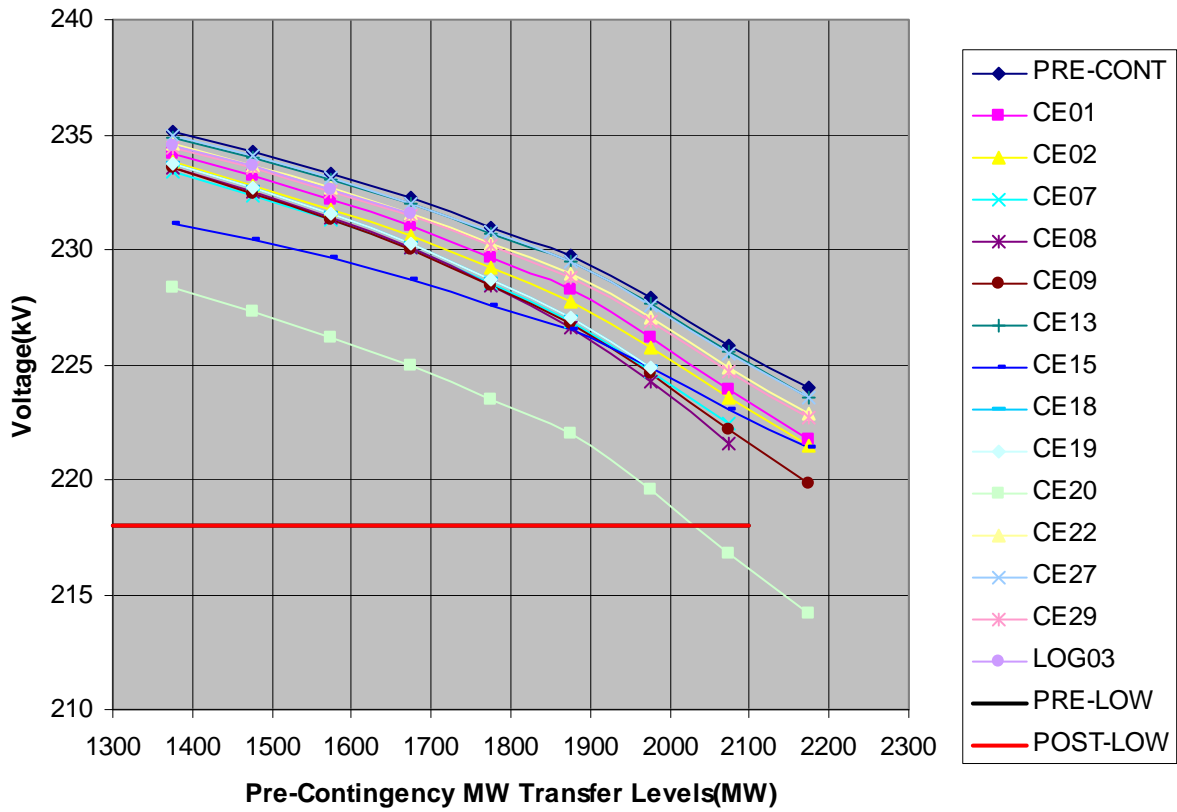


G.2 MOSES SOUTH OPEN

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

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

Moses South vs. Porter 2 230kV

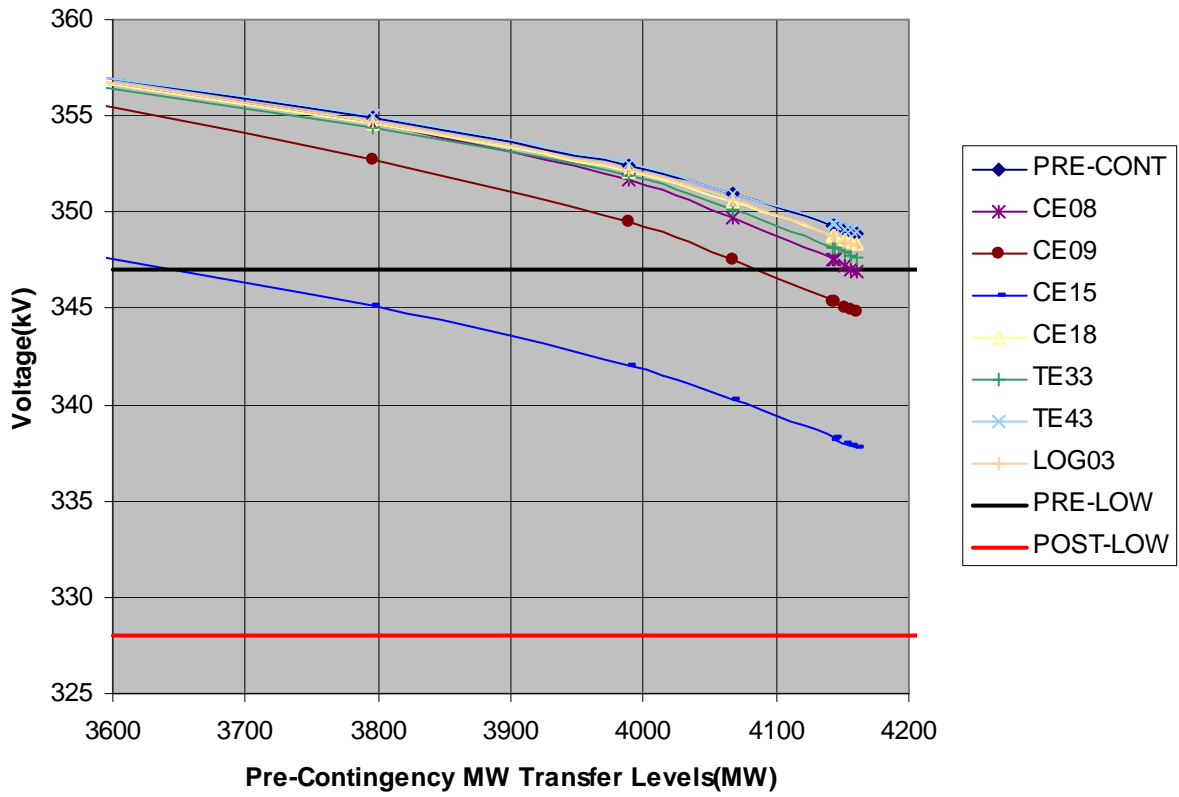


G.3 VOLNEY EAST, TOTAL EAST, CENTRAL EAST, CENTRAL EAST + FRASER-GILB, CE GROUP, F TO G, MARCY SOUTH

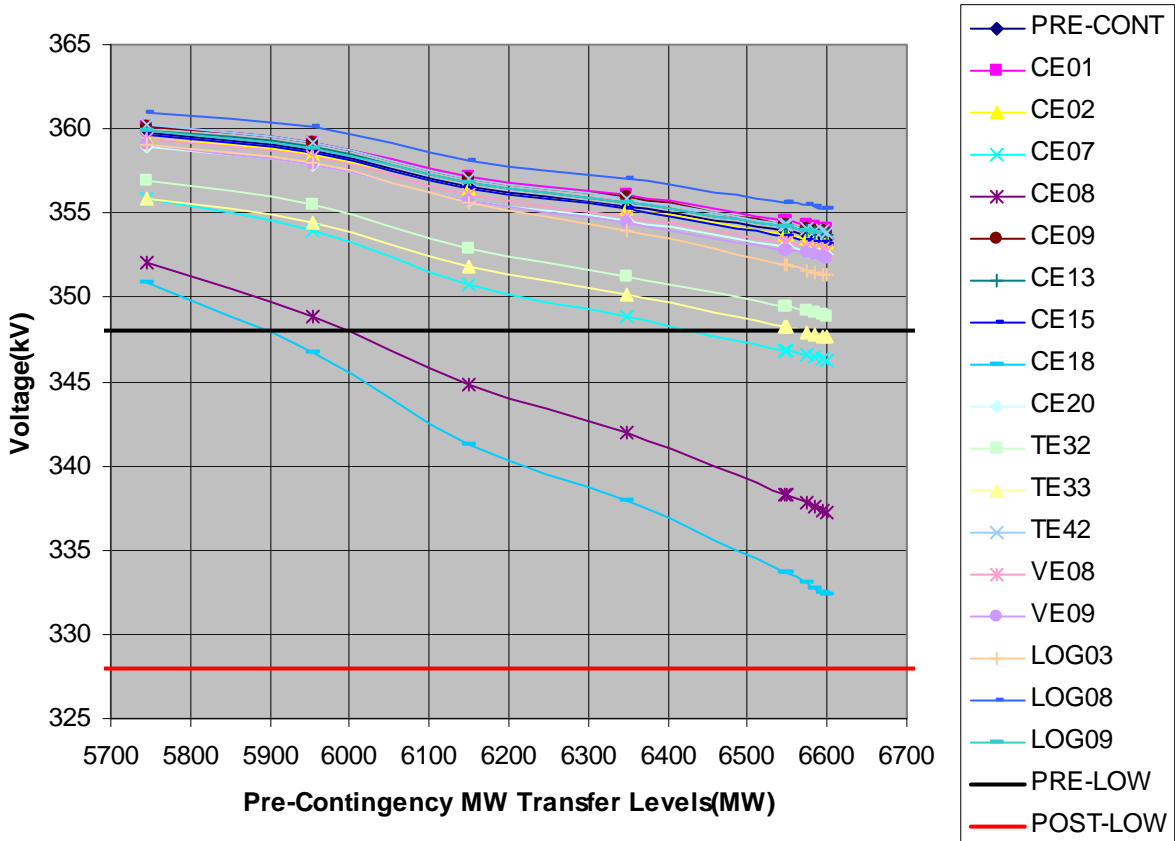
Monitored Buses	Bus Number	Base kV	Pre-Low kV	Pre-Low PU	Post-Low kV	Post-Low PU
Cooper Corners 345	130750	345	338	0.980	328	0.951
Edic 345	137200	345	347	1.006	328	0.951
Fraser 345	130753	345	338	0.980	328	0.951
Leeds 345	137451	345	345	1.000	328	0.951
Marcy 345	147833	345	348	1.009	328	0.951
New Scotland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

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

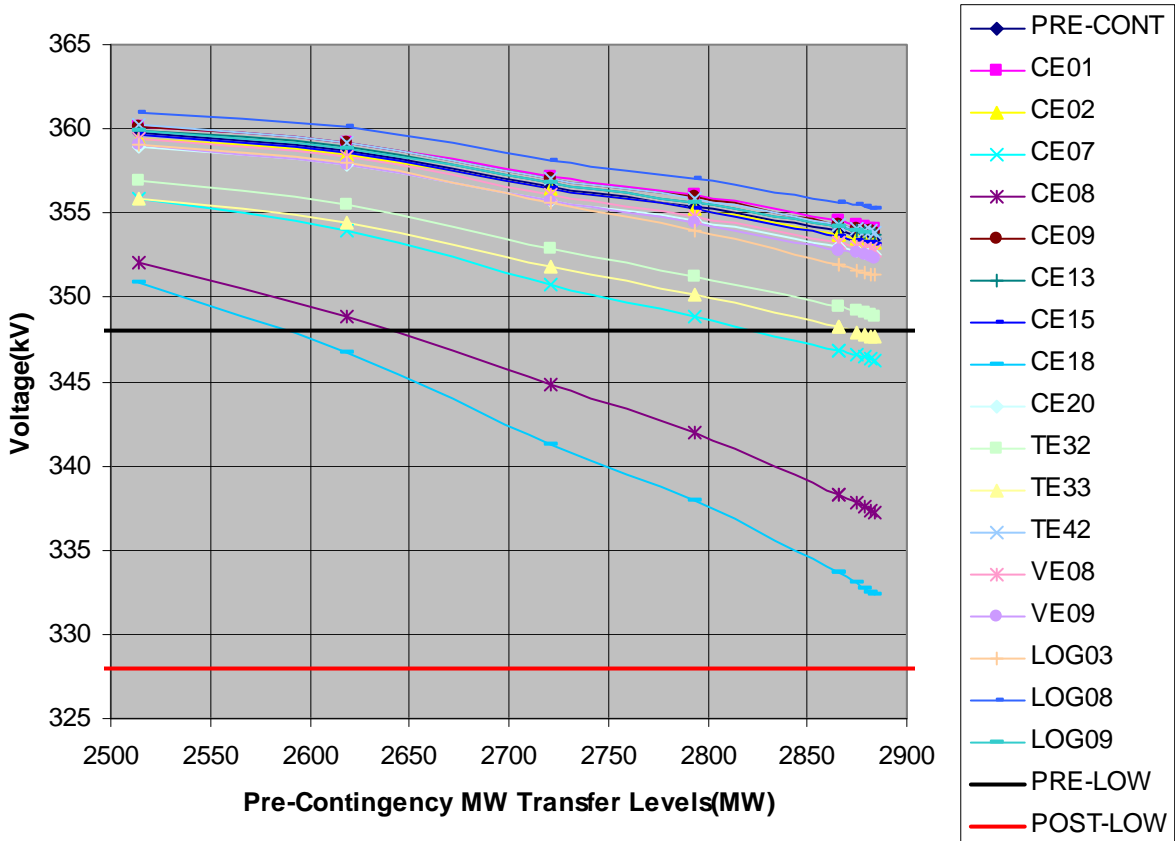
Volney East vs. EDIC 345kV



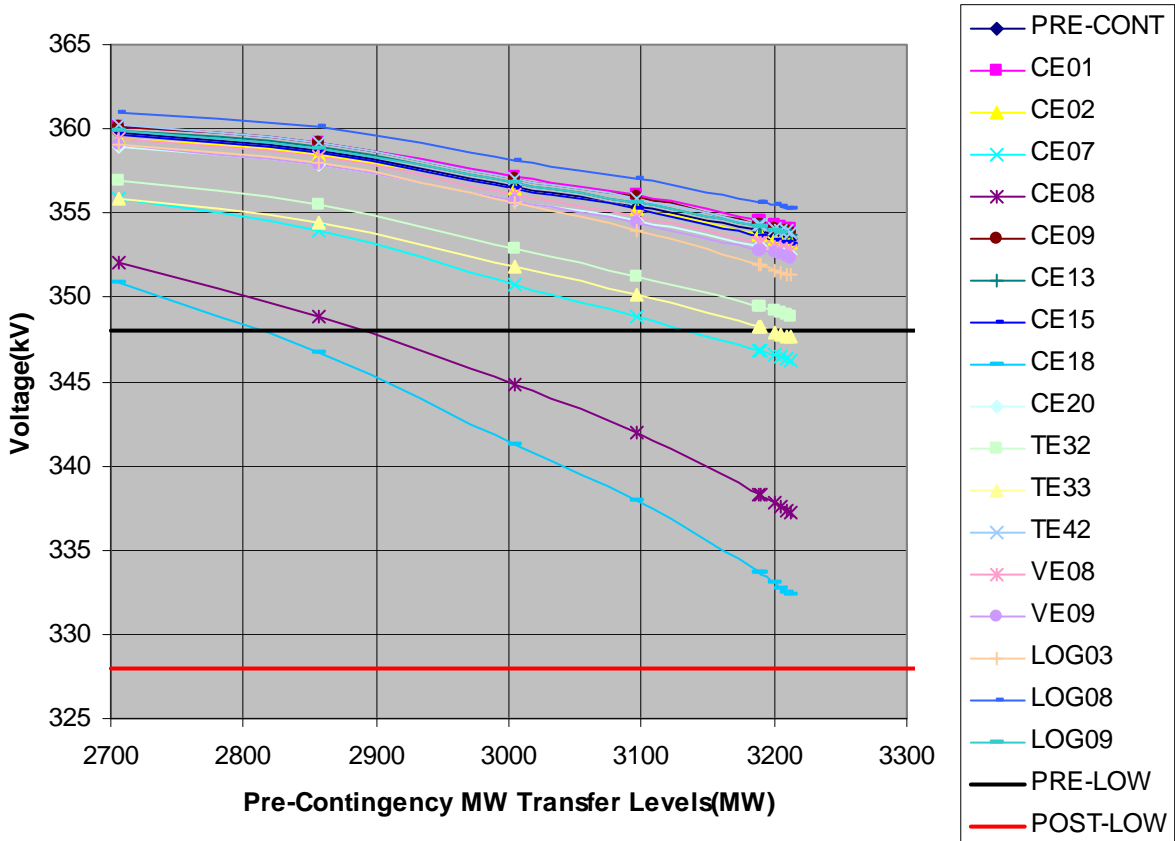
TOTAL EAST vs. N.SCOT99 kV



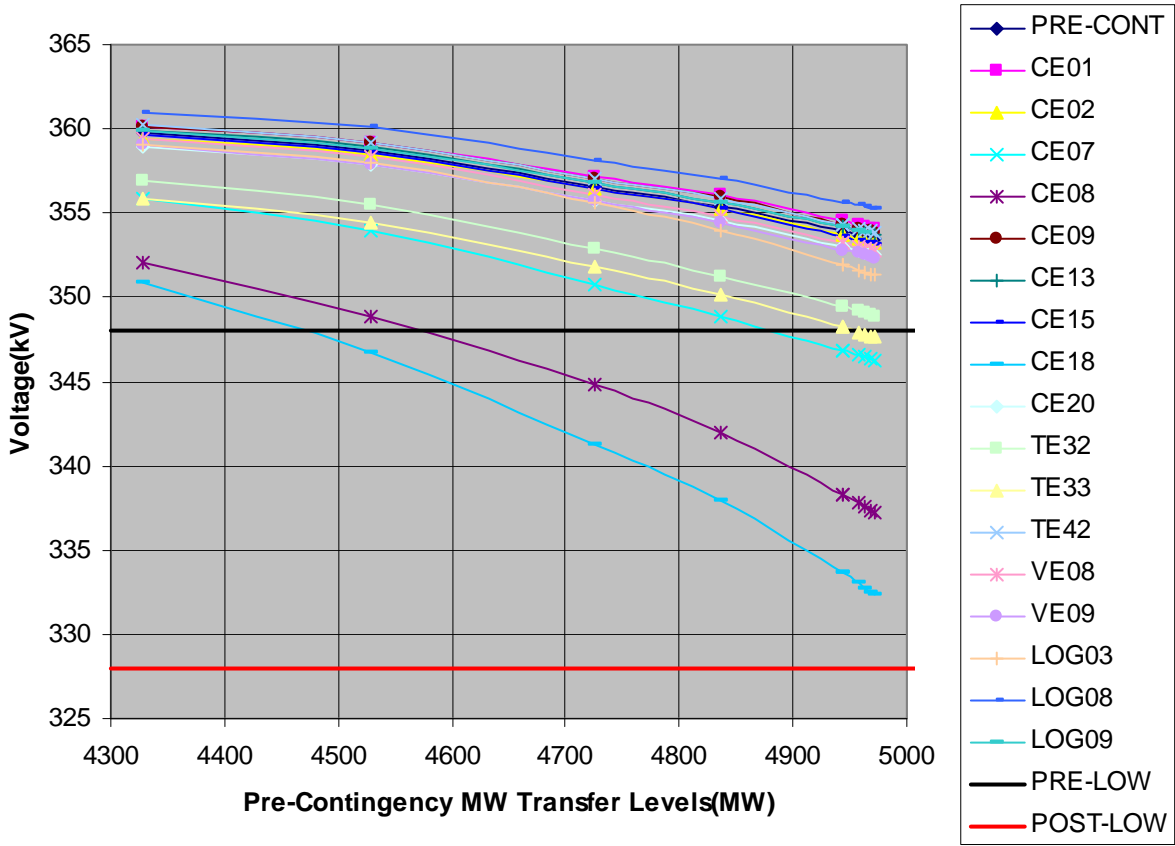
CENTRAL EAST vs. N.SCOT99 kV



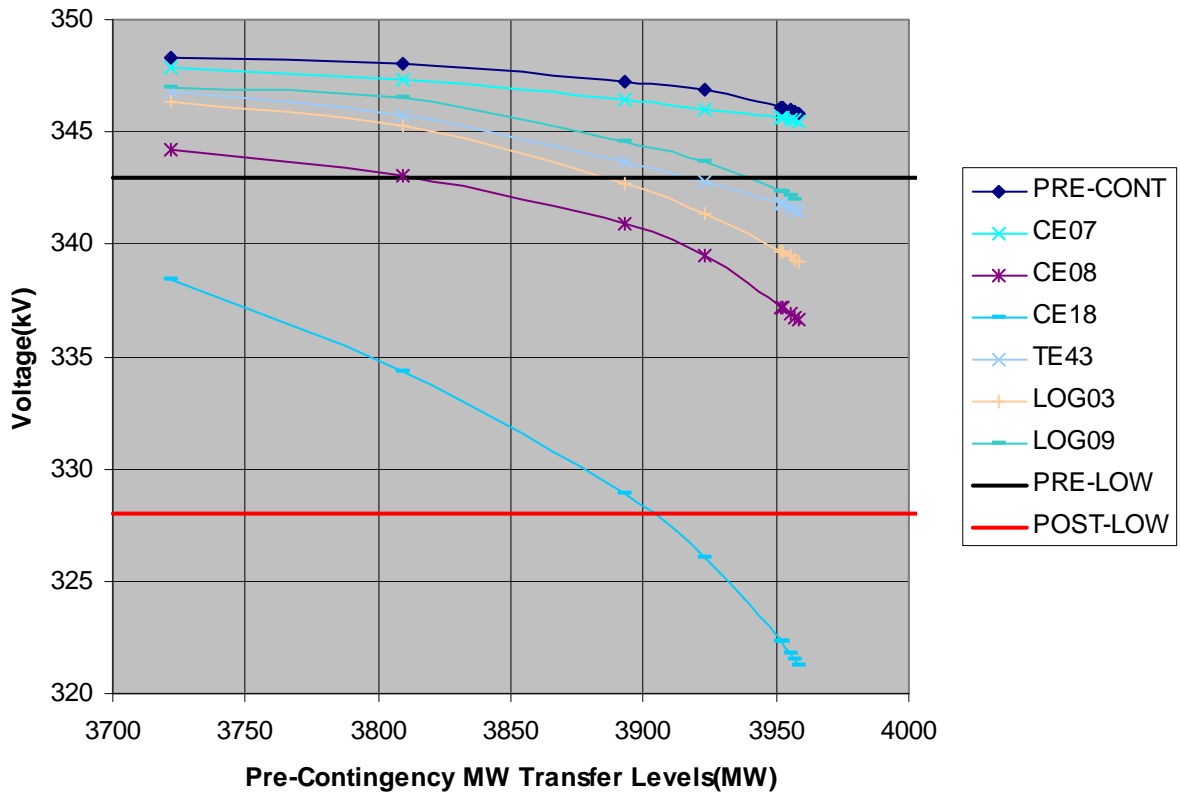
CE+FRAS-GILB vs. N.SCOT99 kV



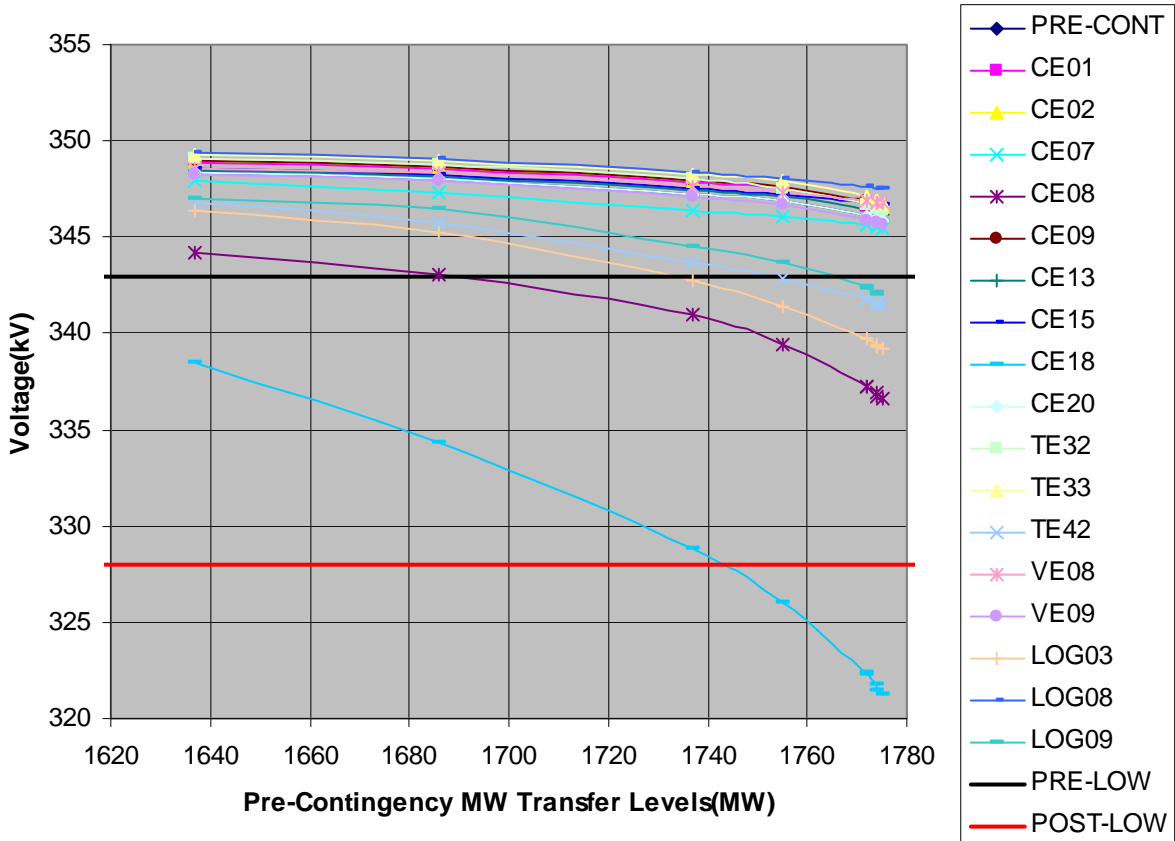
CE-GROUP vs. N.SCOT99 kV



F-TO-G vs. PLTVLLEY kV



MARCY SOUTH vs. PLTVLLEY kV

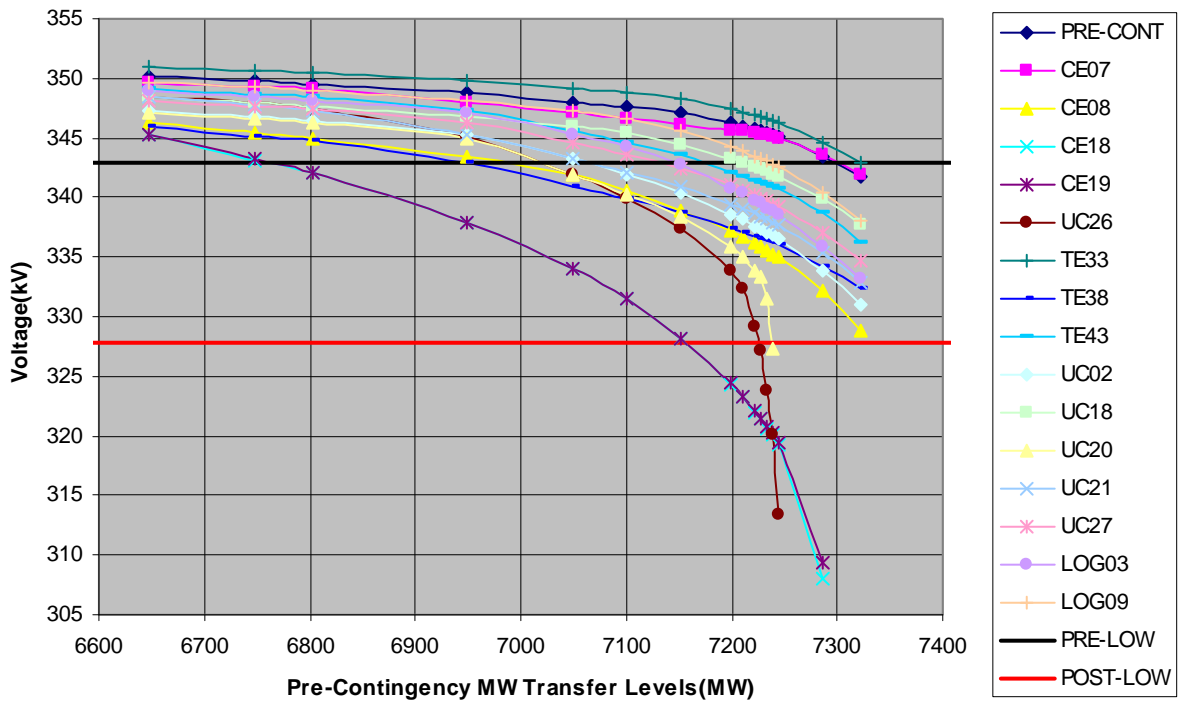


G.4 UPNY-SENY OPEN, UPNY-CONED OPEN, MILLWOOD SOUTH CLOSED, I TO J+K

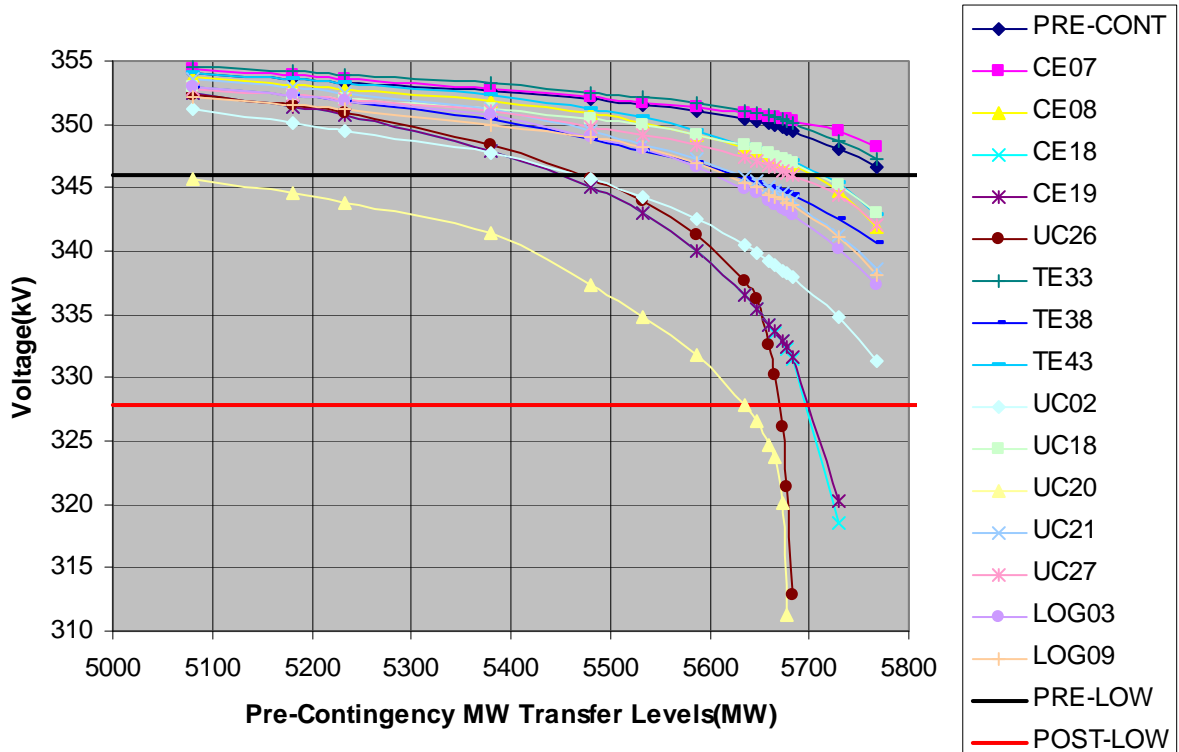
Monitored Buses	Bus Number	Base kV	Pre-Low kV	Pre-Low PU	Post-Low kV	Post-Low PU
Bowline 345	126260	345	345	1.000	328	0.950
Buchanan South 345	126263	345	346	1.003	328	0.950
Coopers Corners 345	130750	345	338	0.980	328	0.950
Dunwoodie 345	126266	345	346	1.003	328	0.950
Edic 345	137200	345	347	1.006	328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

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

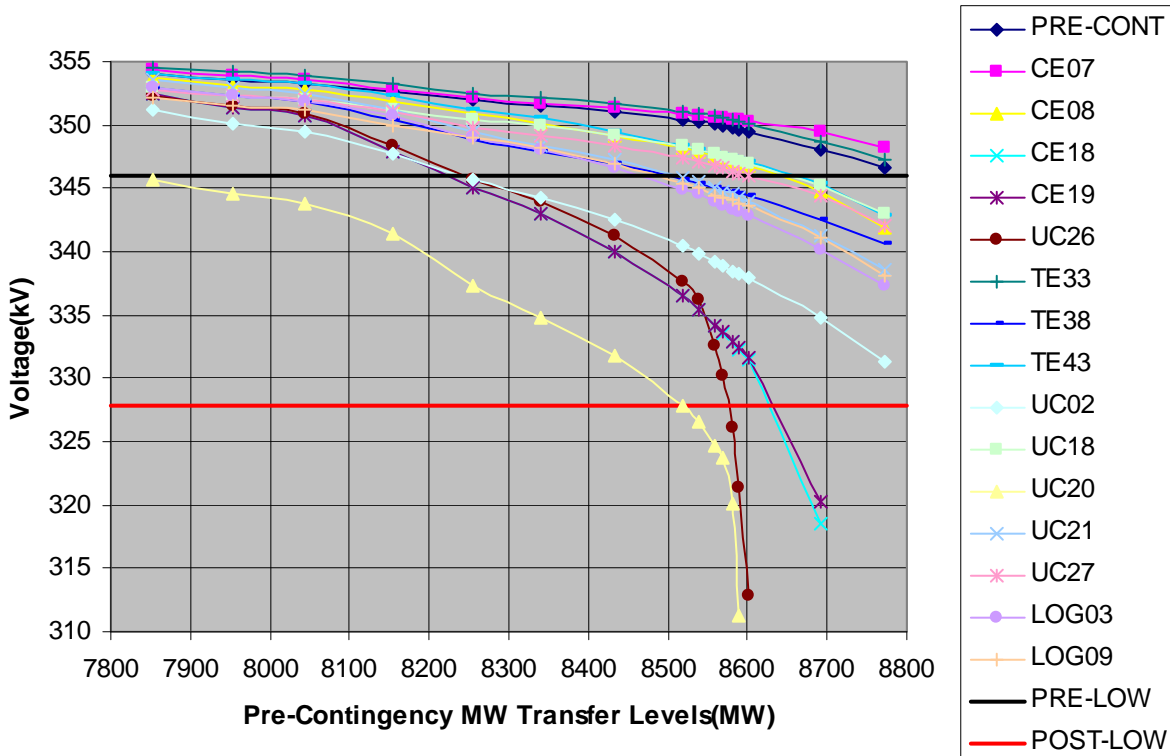
UPNY-SENY vs. Pleasant Valley 345kV



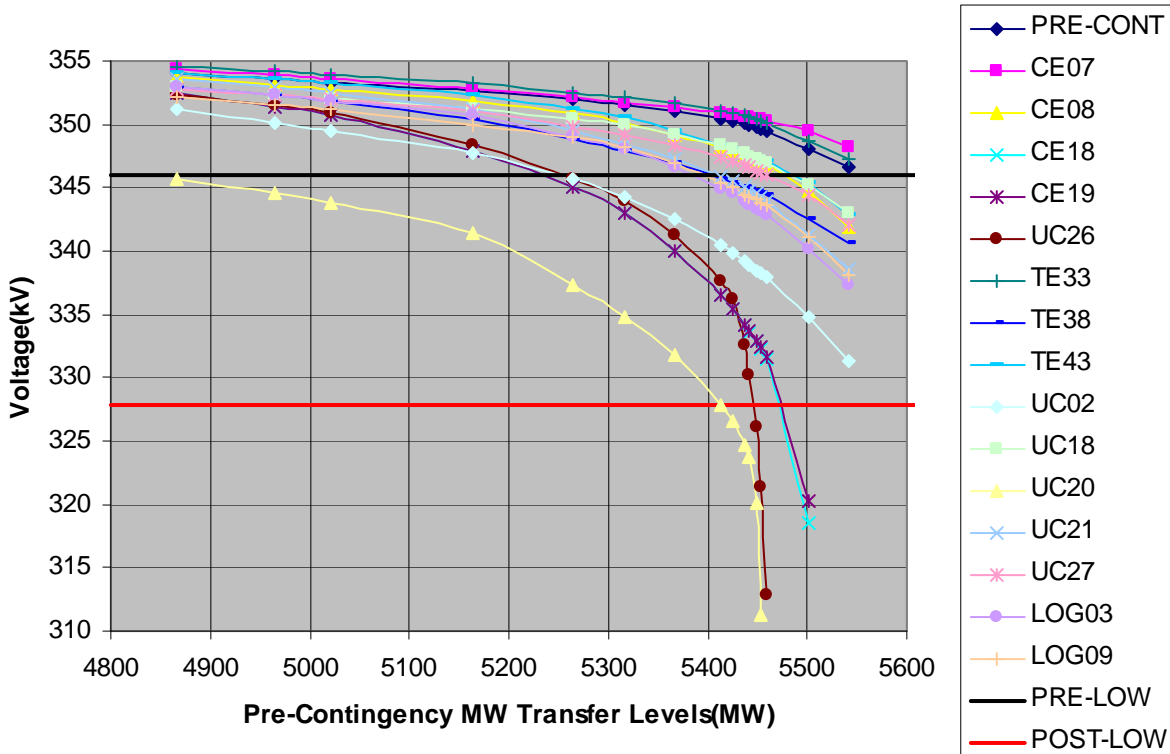
UPNY-ConED vs. Sprainbrook 345kV



Millwood S Closed vs. Sprainbrook 345kV



I to J+K vs. Sprainbrook 345kV



APPENDIX H – REVERSE TRANSFER LIMITS

Appendix H.1 Insert - LIPA-NYISO Export Limit.xls

K to I and K to J Interface Details

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- TUE, MAY 05 2009 11:19 <IND000>X
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File C:\Projects\NYISO\STARS\LF\abb-v3-lipa-export.sav
 Subsys.File C:\Projects\NYISO\STARS\MUST_TLTG\STARS-TTL.sub
 Monit.File C:\Projects\NYISO\STARS\MUST_TLTG\STARS-TTL.mon
 Contin.File C:\Projects\NYISO\STARS\MUST_TLTG\STARS-TTL.con
 Exclud.File C:\Projects\NYISO\STARS\MUST_TLTG\STARS.exc

Study transfer. From K_EXPORT To HI_IMPORT . Transfer level - 3000.0 MW

***** Base Case Report *****

List of 2 interfaces of total 64

**** Interface ***	Limit	Limit				
	Import	Export	InitFlow	ResFlow	Change	PTDF
42 K-to-I	-1307.0	1307.0	11.7	3011.7U	3000.0	1.00000

List of interface branches

** From Bus	** **	To Bus	** CKT	InitFlow	ResFlow	PTDF
128835 SHORE RD	345 126266	DUNWODIE	345 1	-53.1	2946.9	1.0000
147857 DVNPT NK	345 126299	REACBUS	345 1	64.8	64.8	-0.0000

List of 2 interfaces of total 64

**** Interface ***	Limit	Limit				
	Import	Export	InitFlow	ResFlow	Change	PTDF
44 K-to-J	-510.0	510.0	505.7	505.7	0.0	0.00000

List of interface branches

** From Bus	** **	To Bus	** CKT	InitFlow	ResFlow	PTDF
129235 V STRM P	138 126455	JAMAICA	138 1	269.1	269.1	0.0000
129249 L SUCSPH	138 126455	JAMAICA	138 1	236.6	236.6	0.0000

LIPA Export to NYCA

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- TUE, MAY 05 2009 11:12 <PC2000>X
 2009 CRP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW
 Case.File C:\Projects\NYISO\STARS\LF\abb-v3-lipa-export.sav
 Subsys.File C:\Projects\NYISO\STARS\MUST TLTG\STARS-TTL.sub
 Monit.File C:\Projects\NYISO\STARS\MUST TLTG\STARS-TTL.mon
 Contin.File C:\Projects\NYISO\STARS\MUST TLTG\STARS-TTL.con
 Exclud.File C:\Projects\NYISO\STARS\MUST TLTG\STARS.exe

Base Case Violations report ordered by transfer capability. Total 37317 violations

Interface-1 Interface 42 K-to-I Init.Flow= 11.66 TDF= 1.0000
 Interface-2 Interface 44 K-to-J Init.Flow= 505.75 TDF= 0.0000

N	NITC	IntPcel	IntFee2	Limiting constraint	Base Flow	MW Rating	PTDF
38	-9.7	2.0	505.7	129202 BARRETT1	138 129234 VLY STRM	138 1	219.6 219.0 0.06029
39	-5.4	6.2	505.7	129270 E.G.C.	138 129310 NEWBRGE	138 1	-236.0 -235.0 -0.18500 LIPA to NYISO Export Limit = 6.2*505.7 = 511.9 MW
40	1.4	13.0	505.7	129271 E.G.C.-2	138 129310 NEWBRGE	138 2	-234.8 -235.0 -0.17756
42	9.8	21.4	505.7	129265 CARLE PL	138 129270 E.G.C.	138 1	-259.7 -263.0 -0.33742
44	27.0	38.7	505.7	129203 BARRETT2	138 129234 VLY STRM	138 2	217.4 219.0 0.05952
54	137.1	148.8	505.7	129281 GLNWD GT	138 129282 GLNWD NO	138 1	247.5 297.0 0.36135
57	163.1	174.7	505.7	129270 E.G.C.	138 129288 ROSLYN	138 1	206.8 263.0 0.34454
67	198.1	209.7	505.7	129270 E.G.C.	138 129310 NEWBRGE	138 3	-220.5 -253.0 -0.16415
147	231.7	243.4	505.7	129328 ELWOOD 1	138 129342 NRTHPRT2	138 1	-357.2 -370.0 -0.05509
1820	314.8	326.4	505.7	129329 ELWOOD 2	138 129342 NRTHPRT2	138 1	-352.4 -370.0 -0.05578
3613	379.0	390.6	505.7	129265 CARLE PL	138 129283 GLNWD SO	138 1	169.1 297.0 0.33742
5293	402.6	414.3	505.7	129281 GLNWD GT	138 129288 ROSLYN	138 1	-158.3 -297.0 -0.34454
5436	616.2	627.8	505.7	129282 GLNWD NO	138 129293 SHORE RD	138 1	237.2 497.0 0.42166
8818	652.1	663.8	505.7	126266 DUNWODIE	345 128835 SHORE RD	345 1	53.1 -599.0 -1.00000
8853	692.0	703.6	505.7	129361 RULND RD	138 129421 HOLBROOK	138 1	-171.7 -499.0 -0.47292
8932	911.3	923.0	505.7	129283 GLNWD SO	138 129293 SHORE RD	138 1	142.0 497.0 0.38959
10666	970.4	982.1	505.7	129271 E.G.C.-2	138 129310 NEWBRGE	138 4	-168.6 -288.0 -0.12308
10685	1015.4	1027.1	505.7	128835 SHORE RD	345 129293 SHORE RD	138 1	26.6 -482.0 -0.50089
10689	1018.8	1030.5	505.7	128835 SHORE RD	345 129293 SHORE RD	138 2	26.5 -482.0 -0.49911
14201	1295.3	1307.0	505.7	Interface 41 I-to-K			-11.7 -1307.0 -1.00000
14202	1295.3	1307.0	505.7	Interface 42 K-to-I			11.7 1307.0 1.00000
14205	1299.6	1311.3	505.7	Interface 29 ConEd-LIPA			-517.4 -1817.0 -1.00000
14206	1304.7	1316.3	505.7	129310 NEWBRGE	138 129361 RULND RD	138 1	-64.2 -263.0 -0.15235
14207	1304.7	1316.3	505.7	129310 NEWBRGE	138 129361 RULND RD	138 2	-64.2 -263.0 -0.15235
14211	1314.6	1326.2	505.7	129315 SYOSSET	138 129351 OAKWOOD	138 1	-192.8 -274.0 -0.06180
15968	1403.3	1415.0	505.7	129315 SYOSSET	138 129333 GRENLAWN	138 1	-182.9 -274.0 -0.06495
17709	1457.9	1469.6	505.7	129418 CAITHNESS1	138 129461 SILLS RD2	138 1	150.0 261.0 0.07614
19513	1562.5	1574.1	505.7	129329 ELWOOD 2	138 129333 GRENLAWN	138 1	326.8 414.0 0.05578
19583	1584.0	1595.6	505.7	129310 NEWBRGE	138 129361 RULND RD	138 3	-61.2 -285.0 -0.14132
28298	1874.9	1886.6	505.7	129305 LCST GRV	138 129315 SYOSSET	138 1	-200.3 -442.0 -0.12889
28329	1914.4	1926.0	505.7	129321 BAGATELLE	138 129324 BETHPAGE	138 1	229.6 389.0 0.08326
28382	2046.2	2057.9	505.7	129305 LCST GRV	138 129310 NEWBRGE	138 1	114.3 378.0 0.12889
28409	2126.1	2137.8	505.7	129282 GLNWD NO	138 129587 GLNWD NO	69.0 1	10.2 -118.0 -0.06031
30210	2677.7	2689.4	505.7	129328 ELWOOD 1	138 129351 OAKWOOD	138 1	248.5 414.0 0.06180
30283	2782.4	2794.1	505.7	129283 GLNWD SO	138 129588 GLNWD SO	69.0 1	27.1 -118.0 -0.05216
35570	2958.6	2970.3	505.7	129321 BAGATELLE	138 129355 PILGRIM	138 1	-250.7 -497.0 -0.08326

From	To	Transfer Level	N	FCITC	Interfa ce-1	Interfa ce-2	Flag	Limiting Constraint	Contingency	Ncon	PreShif t	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final		
K EXPORT	HI IMPORT	3000.0	1	-171045	-171034	505.7		L: Interface 21 PJM-WEST											
									C:129092 PTVEFG3 20.0 129448 PT JEFF1 138 11	516	5375.1	0.0	0.03142		0.00002	5347.0	5343.0		
									Open 129092 PTVEFG3 20.0 129448 PT JEFF1 138 1										
			2	-124520	-124508	505.7		L: Interface 20 PJM-CENT											
									C:129027 NRTPGT4 22.0 129342 NRTHPRT2 138 11	511	3971.0	0.0	0.03189		0.00004	-0.24937	-112.6	21426.1	
									Open 129027 NRTPGT4 22.0 129342 NRTHPRT2 138 1										
			3	-97297.7	-97286	505.7		L: Interface 20 PJM-CENT											
									C:129076 HOLTS1-5 13.8 129427 HOLTS GT 138 11	515	3894.4	0.0	0.04003		0.00004	-0.53973	-0.05901	-359.2	6988.2
									Open 129076 HOLTS1-5 13.8 129427 HOLTS GT 138 1										
			4	-93583.8	-93572.2	505.7		L: Interface 20 PJM-CENT											
									C:129071 CAITH-GT 16.5 129418 CAITHNESS1 138 11	513	3858.3	0.0	0.04123		0.00004	-0.54092	-0.07392	-216.8	6975.0
									Open 129071 CAITH-GT 16.5 129418 CAITHNESS1 138 1										
			5	-93583.8	-93572.2	505.7		L: Interface 20 PJM-CENT											
									C:129418 CAITHNESS1 138 129461 SILLS RD2 138 11	473	3858.3	0.0	0.04123		0.00004	-0.54093	-0.07614	-150.0	6975.1
									Open 129418 CAITHNESS1 138 129461 SILLS RD2 138 1										
			6	-56310	-56298.3	505.7		L: Interface 20 PJM-CENT											
									C:129092 PTVEFG3 20.0 129448 PT JEFF1 138 11	516	3838.0	0.0	0.06816		0.00004	-0.54093	-0.07614	-150.0	6975.1
									Open 129092 PTVEFG3 20.0 129448 PT JEFF1 138 11										

H.2 West Central Reverse Limit (Thermal)



West Central (Negative Limit)

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- MON, APR 27 2009 0:42 <PC2000>X
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS: NYCA DEMAND 37130MW
 Case.File C:\Projects\NYISO\STARS\MUST TLTG\abb-v3.sav
 Subsys.File C:\Projects\NYISO\STARS\MUST TLTG\STARS-TTL.sub
 Monit.File C:\Projects\NYISO\STARS\MUST TLTG\STARS-TTL.mon
 Contin.File C:\Projects\NYISO\STARS\MUST TLTG\STARS-TTL.con
 Exclud.File C:\Projects\NYISO\STARS\MUST TLTG\STARS.exc

Base Case Violations report ordered by transfer capability. Total 10672 violations

Interface-1 Interface 2 WEST-CENTRAL Init.Flow= 170.68 TDF=-0.7746

N	NITC	IntFcel	Limiting constraint	Base Flow	MW Rating	PTDF		
3549	274.2	-41.7	125020 DANSKAMA	115 125021 DC CBLTP	115 1	168.8	178.0	0.03337
3554	537.7	-245.8	125002 ROSETON	345 125190 ROSE GN1	24.0 1	-438.2	-614.0	-0.32689
3555	605.9	-298.6	125002 ROSETON	345 125192 ROSE GN2	24.0 2	-526.7	-614.0	-0.14409
3559	947.2	-563.0	125015 AC CBLTP	115 125020 DANSKAMA	115 1	-162.5	-193.0	-0.03220
3560	957.4	-570.9	125015 AC CBLTP	115 125041 N.CHELSE	115 1	162.2	193.0	0.03220
3575	1684.4	-1134.0	126260 BOWLINE1	345 146750 WHAV345	345 10	470.6	687.0	0.12845
3580	1929.3	-1323.7	125021 DC CBLTP	115 125041 N.CHELSE	115 1	168.6	233.0	0.03337
3581	1933.1	-1326.6	126260 BOWLINE1	345 146841 BOW1	20.0 1	-471.7	-720.0	-0.12845
7133	2178.2	-1516.4	126261 BOWLINE2	345 146840 BOW2	20.0 1	-451.7	-720.0	-0.12320
7150	2296.8	-1608.3	125020 DANSKAMA	115 125193 DANSK G4	16.1 4	-202.6	-329.0	-0.05502
7192	2375.6	-1649.3	125020 DANSKAMA	115 125194 DANSK G3	16.1 3	-119.5	-198.0	-0.03303
8861	2471.1	-1743.3	130763 HILSD230	230 130768 WATRC230	230 1	-186.1	-504.0	-0.12865
8868	2499.6	-1765.4	130807 GOUDY115	115 130848 S.OWE115	115 1	24.3	112.0	0.03509
8881	2558.6	-1811.1	130757 WATRC345	345 130768 WATRC230	230 1	257.6	452.0	0.07599
8887	2567.4	-1817.9	125002 ROSETON	345 126281 FISHKILL	345 1	1506.4	1935.0	0.16695
9012	2763.0	-1969.4	130807 GOUDY115	115 130838 OAKDL115	115 1	-75.0	-238.0	-0.05900
10616	2891.1	-2068.7	130787 CODNT115	115 130830 MONTR115	115 1	15.5	108.0	0.03198

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
GHI_EXPOR	A_IMPORT	3000.0	1	-3830.7	3137.8		L: Interface 55 PJME-NYEnoRE		665	1556.0	1287.0	0.07022		0.00000	1299.1	1299.1
							C:SIN:301									
							Open 126260 BOWLINE1	345 146841 BOW1 20.0 1		NA						
							Open 126260 BOWLINE1	345 146750 WHAV345 345 10					-0.54534	-0.12845	-470.6	21.4
							Open 126290 LADENTWN	345 146750 WHAV345 345 1					-0.00140	-0.12086	-170.6	292.4
			2	-3830.7	3137.8		L: Interface 56 NYE-PJMEEnoRE		665	-1556.0	-1287.0	-0.07022		0.00000	-1299.1	-1299.1
							C:SIN:301									
							Open 126260 BOWLINE1	345 146841 BOW1 20.0 1		NA						
							Open 126260 BOWLINE1	345 146750 WHAV345 345 10					0.54534	-0.12845	-470.6	21.4
							Open 126290 LADENTWN	345 146750 WHAV345 345 1					0.00140	-0.12086	-170.6	292.4
			3	-3798.8	3113.1		L: Interface 55 PJME-NYEnoRE		79	1627.6	1287.0	0.08966		0.00000	1299.1	1299.1
							C:126260 BOWLINE1	345 146750 WHAV345 345 10								
							Open 126260 BOWLINE1	345 146750 WHAV345 345 10					-0.69802	-0.12845	-470.6	17.3
			4	-3798.8	3113.1		L: Interface 56 NYE-PJMEEnoRE		79	-1627.6	-1287.0	-0.08966		0.00000	-1299.1	-1299.1
							C:126260 BOWLINE1	345 146750 WHAV345 345 10								
							Open 126260 BOWLINE1	345 146750 WHAV345 345 10					0.69802	-0.12845	-470.6	17.3
			5	-3728.7	3058.8		L: Interface 51 G-PJMEast		665	-203.7	0.0	-0.05464		0.00000	-0.4	-0.4
							C:SIN:301									
							Open 126260 BOWLINE1	345 146841 BOW1 20.0 1		NA						
							Open 126260 BOWLINE1	345 146750 WHAV345 345 10					0.43615	-0.12845	-470.6	8.3
							Open 126290 LADENTWN	345 146750 WHAV345 345 1					-0.01142	-0.12086	-170.6	280.1
			6	-3728.7	3058.8		L: Interface 52 PJMEast-G		203.7	203.7	0.0	0.05464		0.00000	0.4	0.4
							C:SIN:301									
							Open 126260 BOWLINE1	345 146841 BOW1 20.0 1		NA						
							Open 126260 BOWLINE1	345 146750 WHAV345 345 10					-0.43615	-0.12845	-470.6	8.3
							Open 126290 LADENTWN	345 146750 WHAV345 345 1					0.01142	-0.12086	-170.6	280.1
			7	-3690.8	3029.4		L: Interface 49 C-PJMCentral		200	282.0	0.0	0.07640		0.11744	198.6	-234.8
							C:130753 FRASR345	345 130755 OAKDL345 345 1								
							Open 130753 FRASR345	345 130755 OAKDL345 345 1					-0.14438	0.28424	-577.5	-1626.6
			8	-3690.8	3029.4		L: Interface 50 PJMCentral-C		200	-282.0	0.0	-0.07640		-0.11744	-198.6	234.8
							C:130753 FRASR345	345 130755 OAKDL345 345 1								
							Open 130753 FRASR345	345 130755 OAKDL345 345 1					0.14438	0.28424	-577.5	-1626.6
			9	-3670.4	3013.6		L: Interface 52 PJMEast-G		79	249.2	0.0	0.06791		0.00000	0.4	0.4
							C:126260 BOWLINE1	345 146750 WHAV345 345 10								

West Central Negative

29	-2008.9	1726.7		L: Interface 49 C-PJMCentral		225.4	0.0	0.11218		0.11744	198.6	-37.3
				C:SIN:1701	671							
				Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.02816	0.18658	-916.1	-1290.9
				Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					0.00840	0.00000	119.9	119.9
				Open 137235 PORTER 1 115 137246 VALLEY 115 1					-0.00022	0.00018	74.8	74.5
30	-2008.9	1726.7		L: Interface 50 PJMCentral-C		-225.4	0.0	-0.11218		-0.11744	-198.6	37.3
				C:SIN:1701	671							
				Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					0.02816	0.18658	-916.1	-1290.9
				Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.00840	0.00000	119.9	119.9
				Open 137235 PORTER 1 115 137246 VALLEY 115 1					0.00022	0.00018	74.8	74.5
31	-2002.6	1721.8		L: Interface 49 C-PJMCentral		235.2	0.0	0.11744		0.11744	198.6	-36.6
				C:GEN:SALEMI	567							
				Remove unit 1 from bus 36 SALEM-G1 22.0 1117.3 MW dispatch								
32	-2002.6	1721.8		L: Interface 50 PJMCentral-C		-235.2	0.0	-0.11744		-0.11744	-198.6	36.6
				C:GEN:SALEMI	567							
				Remove unit 1 from bus 36 SALEM-G1 22.0 1117.3 MW dispatch								
33	-2000	1719.8		L: Interface 50 PJMCentral-C		-227.2	0.0	-0.11361		-0.11744	-198.6	36.3
				C:126294 PLTVLLEY 345 137451 LEEDS 3 345 2	120							
				Open 126294 PLTVLLEY 345 137451 LEEDS 3 345 2					0.02236	0.17118	-1281.0	-1623.4
34	-2000	1719.8		L: Interface 49 C-PJMCentral		227.2	0.0	0.11361		0.11744	198.6	-36.3
				C:126294 PLTVLLEY 345 137451 LEEDS 3 345 2	120							
				Open 126294 PLTVLLEY 345 137451 LEEDS 3 345 2					-0.02236	0.17118	-1281.0	-1623.4
35	-1996.5	1717.1		L: Interface 50 PJMCentral-C		-224.1	0.0	-0.11224		-0.11744	-198.6	35.9
				C:137453 N.SCOT99 345 147833 MARCY T1 345 11	12							
				Open 137453 N.SCOT99 345 147833 MARCY T1 345 11					0.02785	0.18658	-916.1	-1288.6
36	-1996.5	1717.1		L: Interface 49 C-PJMCentral		224.1	0.0	0.11224		0.11744	198.6	-35.9
				C:137453 N.SCOT99 345 147833 MARCY T1 345 11	12							
				Open 137453 N.SCOT99 345 147833 MARCY T1 345 11					-0.02785	0.18658	-916.1	-1288.6
37	-1988.4	1710.8*		L: Interface 49 C-PJMCentral		233.5	0.0	0.11744		0.11744	198.6	-34.9
				C:GEN:MARTN CK1	569							
				Remove unit 4 from bus 3151 MTN CK 4 24.0 704.3 MW dispatch								
38	-1988.4	1710.8*		L: Interface 50 PJMCentral-C		-233.5	0.0	-0.11744		-0.11744	-198.6	34.9
				C:GEN:MARTN CK1	569							
				Remove unit 4 from bus 3151 MTN CK 4 24.0 704.3 MW dispatch								
3259	-1672.6	1466.2		L: Interface 51 G-PJMEast		76.3	0.0	0.04560		0.00000	-0.4	-0.4
				C:ETHS/NWES/LLGD1	648							
				Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.37609	0.06169	117.6	14.4
				Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.38778	0.02774	43.0	-3.4
				Open 130807 GOUDY115 115 200680 LAUREL L 115 1					0.41556	0.02801	38.0	-8.9
3260	-1672.6	1466.2		L: Interface 52 PJMEast-G		-76.3	0.0	-0.04560		0.00000	0.4	0.4
				C:ETHS/NWES/LLGD1	648							
				Open 130763 HILSD230 230 200675 E.TWANDA 230 1					-0.37609	0.06169	117.6	14.4
				Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					-0.38778	0.02774	43.0	-3.4
				Open 130807 GOUDY115 115 200680 LAUREL L 115 1					-0.41556	0.02801	38.0	-8.9
3513	-1251.9	1140.4		L:125015 AC CBLTP 115 125041 N.CHELSE 115 1	25	319.2	240.0	0.06323		0.03220	162.2	121.9
				C:125020 DANSKAMA 115 125021 DC CBLTP 115 1								
				Open 125020 DANSKAMA 115 125021 DC CBLTP 115 1					0.92978	0.03337	168.8	127.1
3514	-1248.4	1137.7		L:125015 AC CBLTP 115 125041 N.CHELSE 115 1	29	318.9	240.0	0.06323		0.03220	162.2	122.0
				C:125021 DC CBLTP 115 125043 N.CHELSE 115 1								
				Open 125021 DC CBLTP 115 125041 N.CHELSE 115 1					0.92978	0.03337	168.6	126.9
3543	-131	272.2		L: Interface 55 PJME-NVEnoRE		1296.5	1287.0	0.07237		0.00000	1299.1	1299.1
				C:126313 BUCH138 138 126314 PEKDDUM1 138 1	136							
				Open 126313 BUCH138 138 126314 PEKDDUM1 138 1					-0.68643	-0.10543	3.8	17.6
3544	-131	272.2		L: Interface 56 PJME-NVEnoRE		-1296.5	-1287.0	-0.07237		0.00000	-1299.1	-1299.1
				C:126313 BUCH138 138 126314 PEKDDUM1 138 1	136							
				Open 126313 BUCH138 138 126314 PEKDDUM1 138 1					0.68643	-0.10543	3.8	17.6
3545	-64.3	220.5		L:125021 DC CBLTP 115 125041 N.CHELSE 115 1	15	320.1	316.0	0.06339		0.03337	168.6	166.5
				C:125015 AC CBLTP 115 125020 DANSKAMA 115 1								
				Open 125015 AC CBLTP 115 125020 DANSKAMA 115 1					-0.93208	-0.03220	-162.5	-160.4
3546	-59.4	216.7		L:125021 DC CBLTP 115 125041 N.CHELSE 115 1	16	319.8	316.0	0.06339		0.03337	168.6	166.6
				C:125015 AC CBLTP 115 125041 N.CHELSE 115 1								
				Open 125015 AC CBLTP 115 125041 N.CHELSE 115 1					0.93208	0.03220	162.2	160.3
3547	27.1	149.7		L: Interface 52 PJMEast-G		-1.3	0.0	0.04835		0.00000	0.4	0.4
				C:126313 BUCH138 138 126314 PEKDDUM1 138 1	136							
				Open 126313 BUCH138 138 126314 PEKDDUM1 138 1					-0.45856	-0.10543	3.8	0.9
3548	27.1	149.7		L: Interface 51 G-PJMEast		1.3	0.0	-0.04835		0.00000	-0.4	-0.4
				C:126313 BUCH138 138 126314 PEKDDUM1 138 1	136							
				Open 126313 BUCH138 138 126314 PEKDDUM1 138 1					0.45856	-0.10543	3.8	0.9
3549	274.2	-41.7		L:125020 DANSKAMA 115 125021 DC CBLTP 115 1		168.8	178.0	0.03337				
				Base Case								
3550	403.4	-141.8		L:125015 AC CBLTP 115 125020 DANSKAMA 115 1	25	-319.5	-345.0	-0.06323		-0.03220	-162.5	-175.5
				C:125020 DANSKAMA 115 125021 DC CBLTP 115 1								
				Open 125020 DANSKAMA 115 125021 DC CBLTP 115 1					-0.92978	0.03337	168.8	182.3
3551	406.9	-144.5		L:125015 AC CBLTP 115 125020 DANSKAMA 115 1	29	-319.3	-345.0	-0.06323		-0.03220	-162.5	-175.6
				C:125021 DC CBLTP 115 125041 N.CHELSE 115 1								
				Open 125021 DC CBLTP 115 125041 N.CHELSE 115 1					-0.92978	0.03337	168.6	182.2
3552	468.4	-192.1		L:125020 DANSKAMA 115 125021 DC CBLTP 115 1	15	320.3	350.0	0.06339		0.03337	168.8	184.5
				C:125015 AC CBLTP 115 125020 DANSKAMA 115 1								
				Open 125015 AC CBLTP 115 125020 DANSKAMA 115 1					-0.93208	-0.03220	-162.5	-177.6
3553	473.2	-195.9		L:125020 DANSKAMA 115 125021 DC CBLTP 115 1		320.0	350.0	0.06339		0.03337	168.8	184.6

West Central Negative

Table with multiple columns: ID, X, Y, Z, Description, X2, Y2, Z2, V1, V2, V3, V4, V5, V6. Rows include entries like 'C:125015 AC CBLTP 115 125041 N.CHELSE 115 1', 'Open 125015 AC CBLTP 115 125041 N.CHELSE 115 1', 'L:125002 ROSETON 345 125190 ROSE GN1 24.0 1', etc.

H.3 West Central Reverse Limit (Voltage)

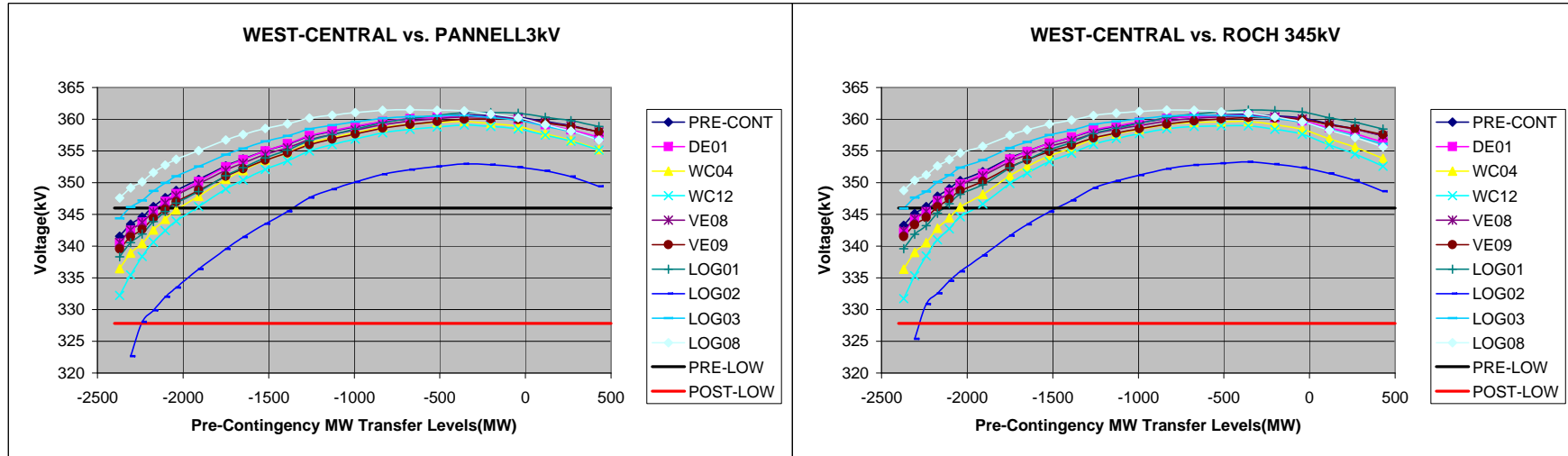
Summary

Interfaces	Post-Contingency Low (A)				95% Voltage Collapse (B)			2018 Limit	2009 RNA	Diff %
	MW Flow	Limiting bus	Limit. Volt.	Con	MW Flow	Con	Tip of Curve	Min(A,B)	2013 Limits	
West Central (Negative)	2239	Pannel Road 345	328	LOG02	2200	LOG02	2316	2200	1300	69.2

2009 RNA limits based on Table C-3 in Appendix C of NYISO RNA report

Note:
LOG02

L/O GINNA GENERATION



APPENDIX I – GRIDVIEW BENCHMARKING

I.1. Introduction

GridView has Monte Carlo Simulation capability to evaluate various uncertainties, such as, generator and transmission forced outages, load forecast errors, fuel forecast errors, wind forecast error, etc. It calculates Loss of Load Expectation (LOLE) and Expected Energy Not Served (EENS) for the system with transmission constraints. In this report, the results obtained from GridView simulations are compared with the results for NYCA system (as provided by NYISO using GE-MARS program) as well as results obtained by hand calculations for a text book example and the IEEE-RTS system. In Section 1, NYCA system results comparison is discussed. In the following section, the benchmark comparison for the IEEE Reliability Test System (RTS) cases is presented. In the last section, comparison of results for a textbook example consisting of 5 generating units is illustrated.

I.2. GridView Benchmark with GE-MARS

2.1 NYCA Test System

Test system of isolated NYISO is based on the bubble diagram shown in Figure1. All the external interchanges are ignored for the benchmark cases. In the GridView model, all ties are open to limit loop flows through external systems to mimic the isolated NYISO system. The transfer limits between NYISO zones are modeled in GridView cases. Cross Sound (100 MW) and Neptune (660MW after May 2010) are modeled in 2010. The capacity, maintenance, and forced outage data (transition states and transition rates) for all the units as provided by NYISO was used in the GridView model. Emergency Operating Procedures (EOPs) and Special Case Resources (SCR) for each zone are included depending upon the assumptions for the specific cases. Sales in zone A and D, GT units derating in C, F and J are modeled based on hourly schedules.

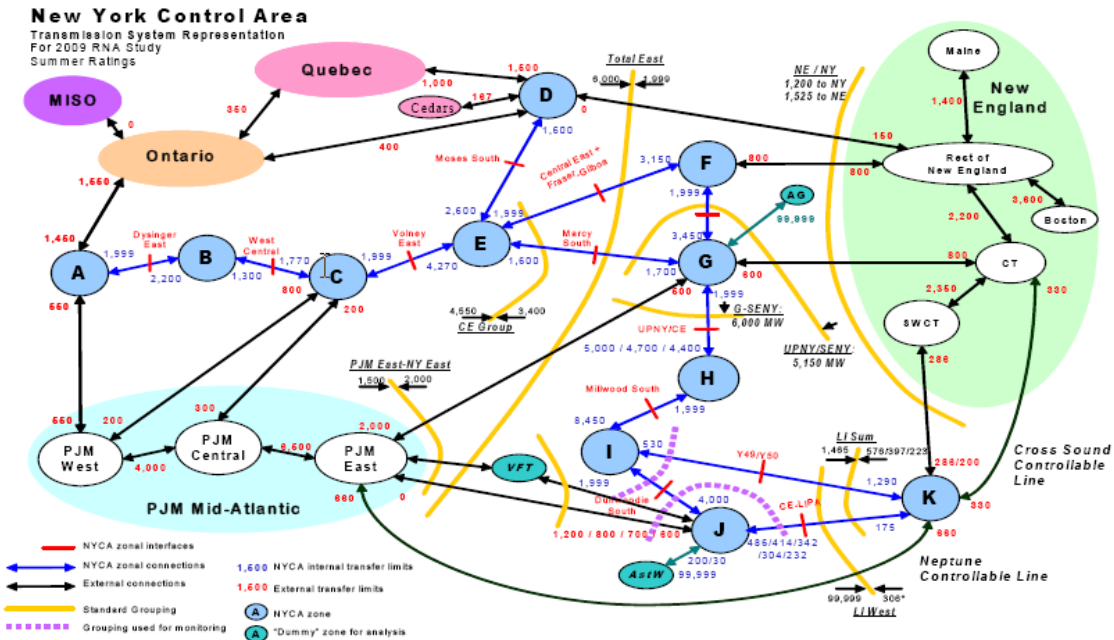


Figure 1. NY Control Area Model and Neighboring Systems

High Load Growth with Extreme Weather Condition case in NYISO Reliability Need Assessment (RNA) Report was used for the benchmarking. The zonal load totals (coincident peak) are shown in Table 1.

Table 1. Zonal Load Summary

Zone	Peak Load (MW)
A	2920
B	2095
C	3089
D	1008
E	1708
F	2473
G	2553
H	714
I	1741
J	13178
K	5931

EOP data are shown in Table 2. Steps #2 and #3 (in Table-2) are modeled as SCR resources. Steps #4 thru' #9 are modeled as EOP resources. SCR and

EOP by zone are modeled as fixed MW (not p.u. of load curve) capacity without limits on # times per month.

Table 2. EOP by Zone (provided by NYISO)

Step	1	2	3	4	5	6	7	8	9	10
Zone	Op Reserves	SCR Load	SCR Gen	EDRP	5% man. volt red	30 Min Reserves	5% Rem volt red	Vol Curtail*	Public Appeals	10 Min Reserves
A	-180.0	479.4	1.8	9.9	15.0	180.0	0.0	0.1	0.0	0.0
B	0.0	197.6	0.0	3.0	7.0	0.0	38.1	16.0	8.0	0.0
C	0.0	202.9	0.5	9.6	20.7	0.0	6.0	0.4	0.0	0.0
D	0.0	115.0	0.0	2.2	8.8	0.0	0.0	0.0	0.0	0.0
E	0.0	59.1	0.0	15.9	8.9	0.0	5.9	0.4	0.0	0.0
F	-462.8	147.7	0.0	17.1	1.9	0.0	22.1	0.1	0.0	463.0
G	-259.2	10.4	41.2	12.3	7.8	0.0	10.0	41.9	0.0	259.0
H	0.0	2.2	0.0	2.7	3.5	0.0	0.3	0.0	0.0	0.0
I	0.0	36.0	0.6	3.2	0.0	0.0	29.1	23.7	0.0	0.0
J	-358.0	547.2	84.6	59.7	0.0	0.0	298.0	44.2	0.0	358.0
K	-540.0	87.3	128.5	24.9	6.1	420.0	105.0	2.0	80.0	120.0
NYCA	-1800.0	1884.7	257.1	160.4	79.7	600.0	514.5	128.7	88.0	1200.0

*contains MP Non essential, TO interruptible, and Voluntary Ind & Commercials

The following features were also included in the GridView model to provide similar functionalities as in the RNA study:

1. Generator multi-state transition rate model
2. Transmission transfer limit transition rate model
3. Load uncertainty model
4. Thermal unit temperature related deration model

2.2 NYCA Isolated System with Generator Multi-State Transition Rate Only

In the initial GridView results only Item#1, mentioned earlier, is included. Then, two cases with and without EOP were run in GridView. The results are compared (shown in Table 3) with GE-MARS results provided by NYISO.

Table 3. Benchmark Results for NYISO Isolated Case Without Transmission Transition Rates, GT Units Temperature Derating and Load Uncertainty

Zone	No EOP		EOP	
	GridView LOLE (days/yr)	GE-MARS** LOLE (days/yr)	GridView LOLE (days/yr)	GE-MARS** LOLE (days/yr)
A	0.00	0	0.00	0
B	18.83	15.998	5.05	0.82
C	0.00	0	0.00	0
D	0.00	0.06	0.00	0
E	18.83	13.35	5.06	0.47
F	0.69	0.634	0.04	0
G	6.54	7.204	1.81	0.132
H	0.64	0.49	0.37	0.236
I	18.83	20.886	5.05	4.824
J	18.84	21.026	5.06	5.072
K	18.61	19.016	1.28	0.62
NYCA	18.838	21.304	5.066	5.39

** The GE-MARS results were provided by Greg Drake, NYISO

2.3 NYCA Isolated System including generator and transmission transition rates, derating and load uncertainty

As a next step, the comparison cases included all the four items mentioned earlier. The GridView and GE-MARS (from NYISO) results are shown Table 4. The LOLE values in these cases are lower (better reliability) mainly due to Indian Point#2 generator assumed to be in-service as compared to being out-of-service in the above Table-3 cases.

Table 4. Benchmark Results for NYISO Isolated Case With Transmission Transition Rates, GT Units Temperature derating and Load Uncertainty

Zone	No EOP		EOP	
	GridView LOLE (days/yr)	GE-MARS ** LOLE (days/yr)	GridView LOLE (days/yr)	GE-MARS *** LOLE (days/yr)
A	0.000	0	0.000	0
B	9.387	9.707	1.598	1.16
C	0.004	0	0.001	0
D	0.000	0.262	0.000	0
E	9.385	7.859	1.597	0.797
F	0.458	0.565	0.090	0
G	4.538	5.648	0.863	0.065
H	0.010	0.003	0.000	0
I	9.385	10.677	1.597	1.995
J	9.390	11.25	1.599	2.129
K	9.181	10.49	1.549	0.855
NYCA	9.393	11.706	1.600	2.306

** No EOP case is the Case 1 in Larry Eng's Email
 *** EOP case is the Case 3 in Larry Eng's Email

2.4 NYCA Isolated System including generator and transmission transition rates, derating and load uncertainty with line limit enforced

In addition to model transmission system using transferring limits between bubbles, GridView can model transmission system explicitly. With the thermal limits (Rating - C) enforced for all 115KV and above lines and transformers (about 1400+ transformers and lines), the LOLE values were slightly increased (in comparison with no individual line limit case in table 4). Table 5 shows the result of the case with EOP.

Table 5. Benchmark Results for NYISO Isolated Case With 115KV and above Lines Thermal Limits Enforced

Zone	EOP
	GridView LOLE (days/year)
A	0.000
B	1.634
C	0.001
D	0.001
E	1.634
F	0.082
G	0.814
H	0.006
I	1.634
J	1.636
K	1.542
NYCA	1.638

Notes:

1. In the GridView model, the limits for all 115KV and above lines and transformers are enforced except for those with limits of zero or 9999.
2. With explicit model of transmission system, it requires to model generating units individually. Aggregated generators cause local congestions. However, moving the aggregated generators to higher voltage bus may not solve all the local congestions.
3. Generator location inside the bubble does matter to the LOLE calculation.
4. Transmission topology could affect the LOLE results significantly. The missing branch between east and west Astoria cause significant congestion between Astoria and Corona..
5. Transmission lines congestions inside bubbles resulted in an increase of unserved load and LOLE.
6. Explicit transmission model help to identify the transmission bottleneck inside bubbles.

2.5 Conclusions from Benchmarking with GE-MARS

GridView was first benchmarked with analytical method using IEEE RTS case and Textbook example. Then additional features such as generator multi-state transition rate model, transfer limit transition rate, load uncertainty pattern, and unit temperature derating, were added. With these new features, GridView is capable of closely matching with NYISO results generated with GE-MARS. In addition to above new features, GridView can model explicit transmission limits and contingency constraints in the LOLE calculation. It uses transmission model instead of using transportation model.

The possible reasons for the differences in the above comparison Tables are:

1. EOPs are modeled as fixed MW value in GridView for year around. In the NYISO cases the EOPs change depending upon the month. This information is available now.
2. EOP limits by # of calls in month are not modeled in GridView.
3. 150 MW summer scheduled maintenance was not available at the time of these simulations.

I.3. IEEE Reliability Test System

3.1 Test System

IEEE Reliability Test System (RTS) case was developed to benchmark the GridView Monte Carlo Simulation. RTS data is based on paper "IEEE Reliability Test System", published on IEEE Transactions [1]. The input data are as shown in Figure 2 through 5.

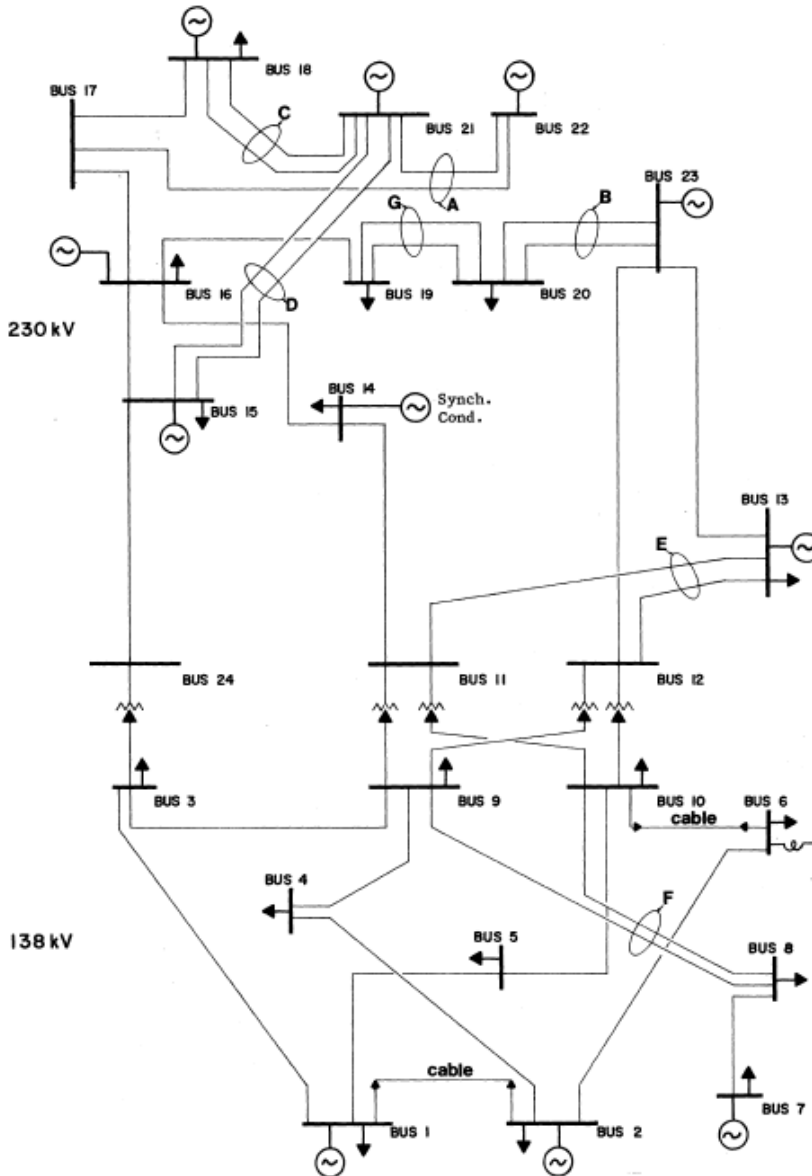


Figure 2. Reliability Test System Diagram

**Figure 3.
Generating Unit Locations**

Bus	Unit 1 MW	Unit 2 MW	Unit 3 MW	Unit 4 MW	Unit 5 MW	Unit 6 MW
1	20	20	76	76		
2	20	20	76	76		
7	100	100	100			
13	197	197	197			
15	12	12	12	12	12	155
16	155					
18	400					
21	400					
22	50	50	50	50	50	50
23	155	155	350			

**Figure 4
Generating Unit Reliability Data**

Unit Size MW	Number of Units	Forced Outage Rate(3)	MTTF(1) hrs.	MTTR(2) hrs.	Scheduled Maintenance wks/year
12	5	0.02	2940	60	2
20	4	0.10	450	50	2
50	6	0.01	1980	20	2
76	4	0.02	1960	40	3
100	3	0.04	1200	50	3
155	4	0.04	960	40	4
197	3	0.05	950	50	4
350	1	0.08	1150	100	5
400	2	0.12	1100	150	6

NOTES:

(1) MTTF = mean time to failure

(2) MTTR = mean time to repair

(3) Forced outage rate = $\frac{MTTR}{MTTF + MTTR}$

Figure 5.
Bus Load Data

Bus	Load		Bus Load % of System Load
	MW	MVA _r	
1	108	22	3.8
2	97	20	3.4
3	180	37	6.3
4	74	15	2.6
5	71	14	2.5
6	136	28	4.8
7	125	25	4.4
8	171	35	6.0
9	175	36	6.1
10	195	40	6.8
13	265	54	9.3
14	194	39	6.8
15	317	64	11.1
16	100	20	3.5
18	333	68	11.7
19	181	37	6.4
20	128	26	4.5
<hr/>			
TOTAL	2850	580	100.0

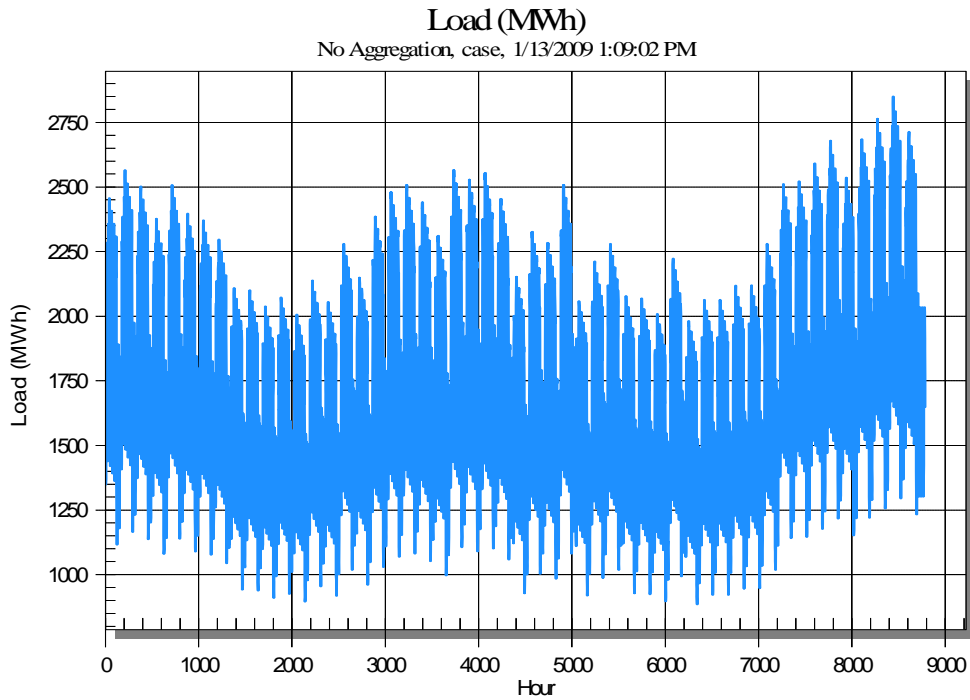


Figure 6. Hourly Load Data

3.2 Analytical Calculation

Based on Unit Capacity and Forced Outage Rate (FOR), Capacity Outage probabilities in Table 4 were calculated by long-hand (spread-sheet) for IEEE RTS case. The complete table is shown in Appendix

Table 4. Capacity Outage Table

Step#	CAP IN	OUT	PROB	CUMULATIVE
443	2850	555	0.010953	0.095531288
444	2849	556	3.45E-06	0.084578061
445	2848	557	4.95E-05	0.084574608
446	2847	558	2.47E-05	0.08452509
447	2846	559	0.000334	0.084500358
448	2845	560	5.02E-05	0.084166192
449	2844	561	3.61E-05	0.084116027
450	2843	562	6.28E-05	0.084079953
451	2842	563	9.85E-08	0.084017183
452	2841	564	2.95E-05	0.084017085
453	2840	565	2.75E-05	0.08398759
454	2839	566	4.18E-05	0.0839601
455	2838	567	0.002562	0.083918293
456	2837	568	4.98E-06	0.081355876
457	2836	569	0.000149	0.081350893
458	2835	570	0.000288	0.081201684
459	2834	571	1.37E-05	0.08091331
460	2833	572	9.29E-05	0.080899651
461	2832	573	1.87E-06	0.080806801
462	2831	574	3.1E-06	0.080804935
463	2830	575	0.004868	0.080801837
464	2829	576	0.00068	0.075933852
465	2828	577	1.33E-05	0.075253504
466	2827	578	8.81E-06	0.075240213
467	2826	579	0.000193	0.075231402
468	2825	580	2.37E-06	0.075038359
469	2824	581	0.000295	0.075035985
470	2823	582	2.97E-05	0.074740891
471	2822	583	3.2E-05	0.074711186
472	2821	584	1.03E-05	0.074679154
473	2820	585	4.43E-06	0.074668876
474	2819	586	4.47E-06	0.074664443
475	2818	587	0.000737	0.074659976
476	2817	588	6.97E-05	0.073922749
477	2816	589	2.55E-05	0.073853082
478	2815	590	5.42E-05	0.073827607
479	2814	591	4.18E-05	0.073773448

3.3 GridView Calculation

3.3.1 Flat Load Case

In the first test, we use a flat load of 2850 MW for a year. From Capacity Outage Table (column#2), the CAP IN < 2850 MW, will cause loss of load. The cumulative probability of (In Service Generation is less than 2850) is 0.084578. For hourly simulation of 8736 hours in a year, the expected LOLE is $8736 \times 0.084578 = 738.8$ Hours/Year. GridView simulation shows an LOLE of 740.5 hours/yr.

Table 5. Flat Load LOLE Comparison between Analytical and GridView

Flat Load (MW)	Analytical LOLE (hrs/Yr)	GridView LOLE (hrs/Yr)
2850	738.8	740.5
2750	415.6	417.7

3.3.2 Daily Peaks Case

If the daily peak load is used, the calculated **LOLE is 1.36886 days/yr** by analytical approach [2]. GridView simulation shows the calculated **LOLE is 1.37400 days/yr**.

3.3.3 Hourly Load Profile Case

If the 8736 hourly load is used, the calculated **LOLE is 9.39418 hrs/yr** [2]. GridView simulation shows the calculated **LOLE is 9.389 hrs/yr** and unserved load is 1163 MWh (compared with 1176 MWh [2]). The GridView result is shown in Figure 7. The Monte-Carlo convergence plot is shown in Figure 8.

I.4. Five bus example from Text Book

4.1 Test System

The 5-bus system is from Billinton's text book "Power system reliability evaluation", [3]. It contains 5 generating units, 40 MW each, with a forced outage of 0.01. The system data are shown in Figures 9 and 10.

4.2 GridView Calculation

The results from GridView runs and analytical calculation are shown in Table 6.

Table 6. GridView Results Comparison between Analytical results

Flat Load (MW)	Analytical LOLE (hrs/Yr)	GridView LOLE (hrs/Yr)
200	145.99	144.103
180	82.704	80.69
160	3.61	3.60

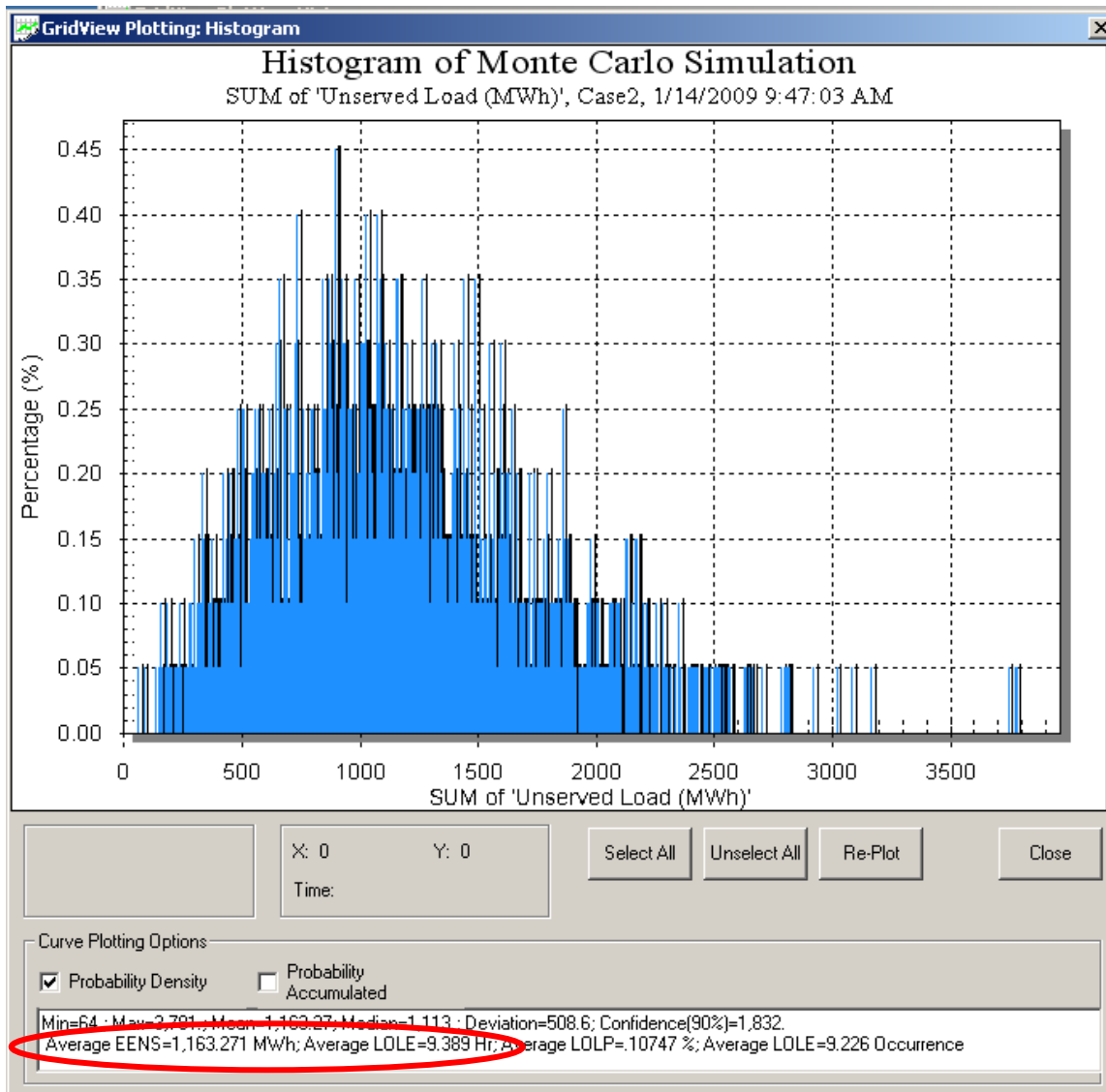


Figure 7. Histogram of Unserved Energy and Statistics

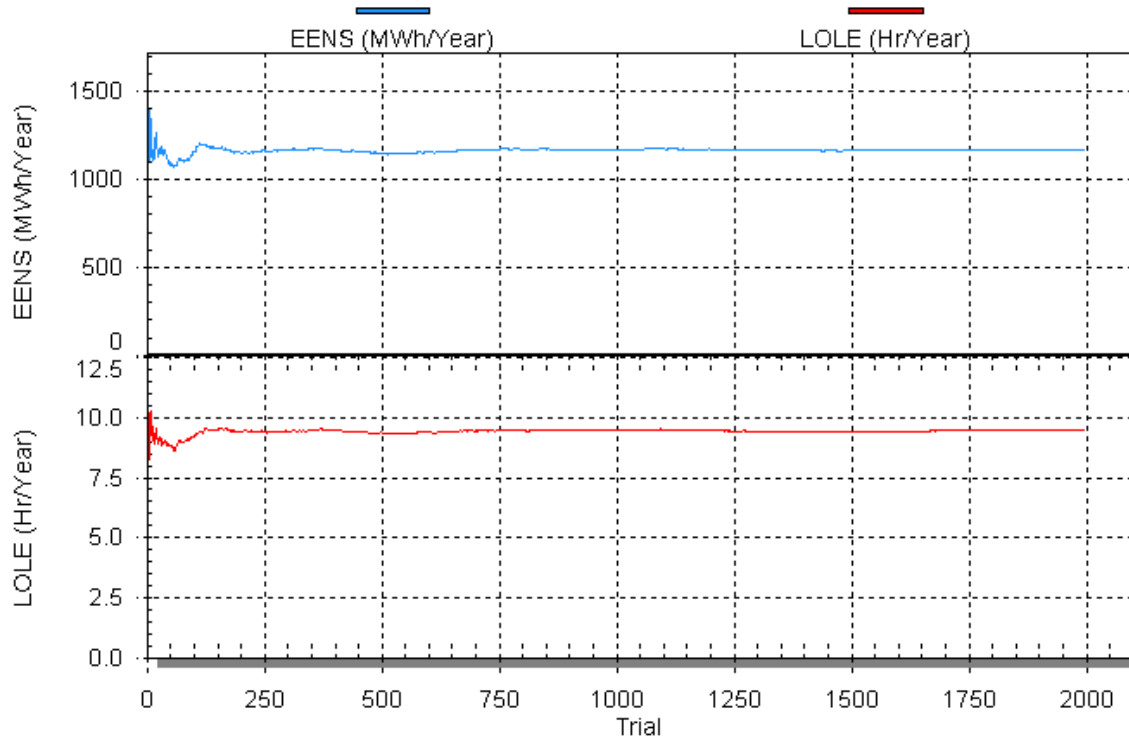


Figure 8. Convergence Plot for LOLE and EENS

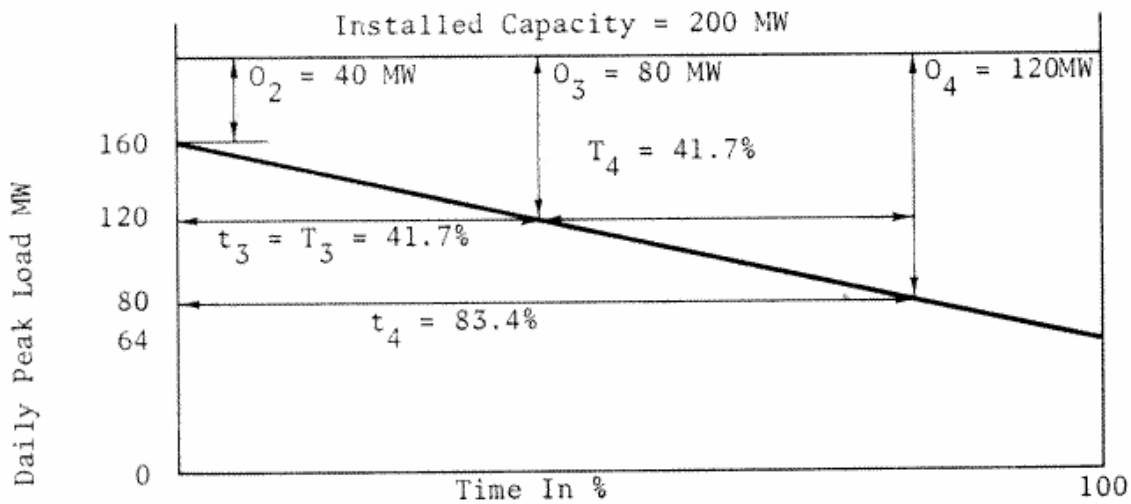


Figure 9. Time periods during which load loss occurs

Capacity out of Service	Capacity in Service	Cumulative Probability	Time Interval t_k in %	Expected Load Loss
0 MW	200	1.000000	0	---
40	160	0.049009	0	---
80	120	0.000980	41.7	0.0408660
120	80	0.000009	41.7	0.0003753
				<u>0.0412413</u>

Figure 10. Capacity outage probability table

I.5. References

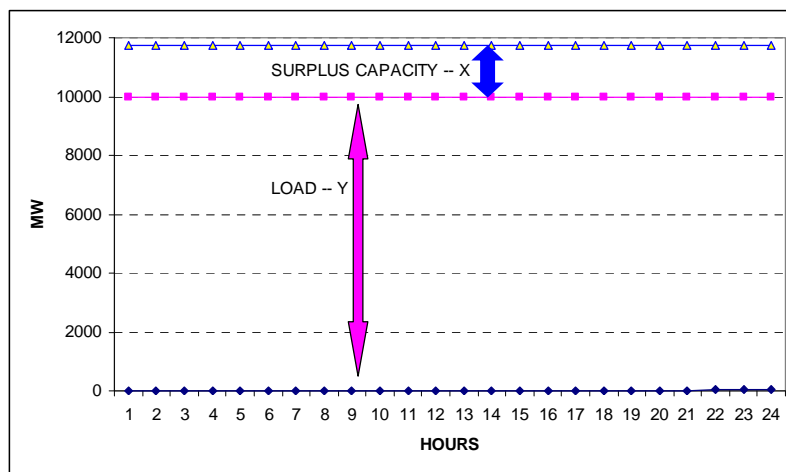
1. IEEE Reliability Test System. IEEE Transactions on PAS, Vol. PAS-98, No. 6, 1979. pp. 2047- 2054.
2. The IEEE Reliability Test System – Extensions to and Evaluation of the Generating System. IEEE Transactions on Power System, Vol. PWRS-1, No. 4, November 1986. pp 1-7.
3. Roy Billinton. Power System Reliability Evaluation. Gordon and Breach. 1970.

APPENDIX J – REPRESENTATION OF EXTERNAL AREAS IN GRIDVIEW

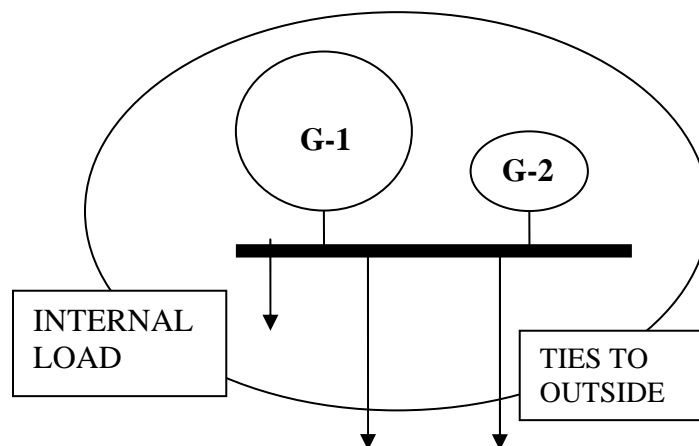
Purpose: Determine a simplified equivalent representation for the external area.

Assumption:

1. The external area will provide assistance to the extent of surplus capacity available within its area without any involuntary load curtailment. This means we need to determine the probability of surplus available in an external area after meeting its own load.
2. Assume a Load level of 10,000MW (Y) and a Capacity Margin of 15% or 1,750MW [$X/(X+Y)$] for illustration purposes.



3. Consider two equivalent generators, one to serve the internal load and the second to represent the surplus generation as shown in the figure below.



4. Because the priority is always to serve the internal load, almost all the risk of generation unavailability can be transferred to the surplus capacity that supports the assistance to other areas . The probability calculation is shown below. The LOLE is calculated on the basis of same daily peak load in this example.

MW	Prob(In)	Prob(Out)	
9999	0.999999	0.000001	
1766	0.999720	0.000280	
CAP-IN	PROB	CUM. PROB	LOLE
11765	0.999719	1.000000	
9999	0.000280	0.000281	0.102565
1766	0.000001	0.000001	0.000365
0	0.000000	0.000000	
Total	1.000000		

5. The Reliability Criterion is 0.1 day/yr is satisfied by the above two generator example.
6. The first equivalent generator which is equal to the peak load (MW) minus 1MW (say) has an infinitely small FOR. The second generator has a forced outage rate of 0.000280. This FOR of the second generator indirectly defines the probability of unavailability of surplus capacity within in a given area for external assistance without any native load shedding. Instead representing the surplus capacity MW as a single generator, multiple generators can be used; provided the probability of outage of all these units is equal to the FOR of the second equivalent generator. For example, if 5 units are used to represent the surplus capacity, the FOR of each of these units can be calculated to be 0.195.

**APPENDIX K – RENEWABLE ENERGY IN INTERMEDIATE YEAR
REFERENCE CASE**

1. Annual energy of NYCA load in the Intermediate Year is 187,562 GWh. With RPS of 25% the required annual renewable energy is 46,891 GWh.
2. Total annual renewable energy in the Intermediate Year reference case is 44,385 GWh. The table below shows the annual energy of each renewable unit.
3. To meet RPS requirement 2,511 GWh of renewable energy would need to be added to current Intermediate Year reference case. That is equivalent to 1,071 MW of Wind Name plate capacity with 26.8% capacity factor (terrestrial). Correspondingly, in the wind profile peak output will be 843MW.

Table K.1. Intermediate Year Annual Energy of Renewable Units in NYCA

Unit Name	Unit type	Intermediate Year Annual Energy (MWh)	Zone
ADIRRR	BIOMASS	70,824	Capital
AMRFF1	BIOMASS	141,800	West
AMRFF2	BIOMASS	143,941	West
CHATGY	BIOMASS	123,811	North
DCCRA	BIOMASS	74,143	Hudson Valley
BRSWP G2_1	HYDRO_PS	611,089	NE
HYD_GRPA	HYDRO	15,000	West
HYD_GRPB	HYDRO	385,452	Genessee
HYD_GRPC	HYDRO	817,512	Central
HYD_GRPD	HYDRO	639,770	North
HYD_GRPE	HYDRO	3,720,120	Mohawk Valley
HYD_GRPF	HYDRO	3,683,280	Capital
HYD_GRPG	HYDRO	764,242	Hudson Valley
HYD_GRPI	HYDRO	14,002	Dunwoodie
LFG_GRPA	BIOMASS	129,701	West
LFG_GRPB	BIOMASS	59,995	Genessee
LFG_GRPC	BIOMASS	256,558	Central
LFG_GRPD	BIOMASS	12,360	North
LFG_GRPE	BIOMASS	38,822	Mohawk Valley
LFG_GRPF	BIOMASS	69,062	Capital
LFG_GRPK	BIOMASS	8,095	Long Island
LYNDLE	BIOMASS	128,560	Mohawk Valley
MOSES_SU	HYDRO	10,701,659	West
MOSES_WI	HYDRO	10,021,549	West
MSW_GRPC	BIOMASS	4,298	Central
OCCRR	BIOMASS	216,106	Central
STLAWG	HYDRO	6,433,580	North
WHLWES	BIOMASS	436,677	Millwood
WND002C	WIND_NT	185,259	Central
WND005A	WIND_NT	59,088	West
WND006E	WIND_NT	973,463	Mohawk Valley
WND007A	WIND_NT	315,494	West
WND008D	WIND_NT	926,619	North
WND008D1	WIND_NT	313,172	North
WND010D	WIND_NT	324,094	North

Unit Name	Unit type	Intermediate Year Annual Energy (MWh)	Zone
WND013C	WIND_NT	85,080	Central
WND013E	WIND_NT	97,848	Mohawk Valley
WND031C	WIND_NT	341,896	Central
WND068E	WIND_NT	29,684	Mohawk Valley
Solar RPS1	Solar	82,770	Long Island
Solar RPS2	Solar	82,654	Long Island
PPLRENEW	BIOMASS	24,966	PJM to LI
BRKFLD NE	HYDRO	279,201	NE to LI
BRKFLD PJM	HYDRO	14,527	PJM to LI
LIWIND	WIND	527,352	Long Island
Total Renewable Energy		44,385,175	NYCA

APPENDIX L – NEW WIND CAPACITY CALCULATION



The New York State Renewable Portfolio Standards (RPS) requires 25% of the energy to be supplied from Renewable Resources. In Scenarios #2 and #4, the import from Hydro-Quebec is 25% or more and this mainly being a hydro resource meets the RPS requirement. The remaining two scenarios #1 and #3 have been modified to explicitly include Renewables, assumed to mainly consist of Wind Generation, for the purposes of this Study.

The total new capacity required with wind is calculated on the basis of the following assumptions:

1. The effective reserve margin of 16.5% is same as that used for other scenarios.
2. One-fourth (25%) of the additional energy, i.e. 4597 GWh required for the ten year load growth comes from new wind resources.
3. The short-fall in total renewable energy in the Intermediate Year Case is 2,511GWh and this will also be assumed to be made-up for the Horizon Year case.
4. The total additional renewable energy is 7,108GWh.
5. The wind profile for the new terrestrial wind generation will have 26.8% capacity factor. This is calculated by combining all the wind farm output (8760 hours wind generation profile provided by NYISO) and total wind capacity in the Intermediate Year case.
6. The wind profile for the Off-shore wind generation will have 34.4% capacity factor. This is calculated by combining all the wind farm output (8760 hours wind generation profile provided by LIPA) and total peak wind output.
7. For calculation of reserve margins, the Capacity Credit for new terrestrial wind generation is assumed to be 10%, which is consistent with other reliability studies being performed by NYCA.
8. The Capacity Credit for new off-shore wind generation is assumed to be 30%, since the wind pattern has a higher coincidence factor during the peak load hours (a window of 2pm – 6pm during June thru' August).
9. In scenario#5 (down-state generation), 85% of the new wind is assumed to be off-shore type connected to down state zones J & K and the remaining 15% from land based wind in external areas. The capacity requirement for this scenario is shown in Table L.1 (see next page).

Table L.1

Capacity Requirement Calculation for Scenario#5			
Item#	Item Name	Year 2028	Remarks
1	System Peak Load (MW)	40,816	
2	Peak Load + Reserve Margin (MW)	47,551	16.5% reserve margin
3	SCR/EOP (MW)	2,084	
4	Installed Capacity (MW)	45,467	#2 - #3
5	Installed Capacity in 2018 Case (MW)	40,452	
6	Additional Capacity above 2018 Case (MW)	5,015	#3 - #4
7	New Renewable Resource Energy (GWh) in 2028	4,597	
8	Make-up for short-fall in 2018 case	2,511	
9	Total New Renewable Resource Energy (GWh)	7,108	
10	For Scenario#5	15%	Terrestrial Wind Farms
11	For Scenario#5	85%	Offshore Wind Farms
12	C.F.of NYCA Wind profile - Total in 2018 case	26.8%	Terrestrial Wind Farms
13	Off-Shore Wind Curve	34.4%	Offshore Wind Farms
14	New Terrestrial Wind Capacity (MW)	454	
15	New Off-shore Wind Capacity (MW)	2,005	
16	Total New Wind Capacity (MW)	2,459	#14 + #15
17	New Terrestrial Wind Capacity Credit (MW)	45	10% for Terrestrial Wind Farms
18	New Off-shore Wind Capacity Credit(MW)	601	30% Off-shore wind farm
19	Total New Wind Capacity Credit (MW)	646	#17 + #18
20	Additional Installed Capacity (MW) - Wind Cap. Credit (MW)	4,369	#6 - #19
21	New Non-wind Capacity Requirement(MW)	4,369	
22	Total Capacity (MW) in 2028	47,280	#5 + #16 + #21
23	Additional Capacity (MW) from 2018	6,828	

Table L.2

Capacity Requirement Calculation for Scenario#6			
Item#	Item Name	Year 2028	Remarks
1	System Peak Load (MW)	40,816	
2	Peak Load + Reserve Margin (MW)	47,551	16.5% reserve margin
3	SCR/EOP (MW)	2,084	
4	Installed Capacity (MW)	45,467	#2 - #3
5	Installed Capacity in 2018 Case (MW)	40,452	
6	Additional Capacity above 2018 Case (MW)	5,015	#4 - #5
7	New Renewable Resource Energy (GWh) in 2028	4,597	25% from Renewable
8	Make-up for short-fall in 2018 case	2,511	
9	Total New Renewable Resource Energy (GWh)	7,108	
10	For Scenario#7	100%	Terrestrial Wind Farms
11	For Scenario#7	0%	Offshore Wind Farms
12	C.F.of NYCA Wind profile - Total in 2018 case	26.8%	Terrestrial Wind Farms
13	Off-Shore Wind Curve	34.4%	Offshore Wind Farms
14	New Terrestrial Wind Capacity (MW)	3,028	
15	New Off-shore Wind Capacity (MW)	-	
16	Total New Wind Capacity (MW)	3,028	#14 + #15
17	New Terrestrial Wind Capacity Credit (MW)	303	10% for Terrestrial Wind Farms
18	New Off-shore Wind Capacity Credit(MW)	-	30% Off-shore wind farm
19	Total New Wind Capacity Credit (MW)	303	#17 + #18
20	Additional Installed Capacity (MW) - Wind Cap. Credit (MW)	4,712	#6 - #19
21	New Non-wind Capacity Requirement(MW)	4,712	
22	Total Capacity (MW) in 2028	48,192	#5 + #16 + #21
23	Additional Capacity (MW) from 2018	7,740	#22 - #5

10. In scenario#6 (up-state generation), all new wind units are assumed to be on-shore type connected to zones A-F; 50% of renewable capacity is in the upstate zones and 50% in external areas (PJM and HQ). The capacity requirement for this scenario is shown in Table L.2 (see previous page).

Based on the new generation capacity calculation in the previous two tables, the generation is allocated to different zones for both the Scenarios #5 & 6.

APPENDIX M – NEW GENERATION CALCULATION

Table M.1: New Generation Capacity for Scenarios 1-4

	INTERNAL										EXTERNAL - FIRM PURCHASE												
	85% OF REQUIREMENT (MW)		4,263		4,263		15% OF REQUIREMENT (MW)						752		752								
	LOAD	NEW GEN	CONVENTIONAL	LOCATIONS FOR NEW GENERATOR	Units	MW	Bus#	Bus Name	kV	Units	MW												
SCENARIO-1 (85%DOWN STATE, 15% EXTERNAL)	ZONE-H	782	141	1	250	126262	BUCHANAN N	345	1	250	10%	ISONE	ZONE-K	500	500	100656	NEW HAVN	345	2	500			
	ZONE-I	1,753	316	1	250	126292	PL VILLE	345	1	250	5%	PJM	ZONE-J	265	265	4989	HUDSON1	345	1	265			
	ZONE-J	14,326	2,586	10	2,500	126272	E 13TH ST	345	6	1,500										3	765		
	ZONE-K	6,757	1,220	5	1,250	126304	W 49TH ST	345	4	1,000													
	ZONE-K					129361	RULAND	138	3	750													
	ZONE-K					129421	HOLLBROOK	138	2	500													
	ZONES-TOTAL	23,618	4,263	17	4,250					17	4,250											765	
	TOTAL NEW CAPACITY		4,250												TOTAL	765							765
	SCENARIO-2 (50% UPSTATE, 50% EXTERNAL)	50% OF REQRMNT		2,508		2,508		50% OF REQRMNT						2,507		2,507							
		LOAD	NEW GEN	CONVENTIONAL	LOCATIONS FOR NEW GENERATOR	Units	MW	Bus#	Bus Name	kV	Units	MW											
ZONE-A		3,123	550	2	500	130754	KINTI345	345	1	250	25%	PJM	ZONES-A&C	1,255	1,255	200769	HOMER CY	345	4	1,000			
ZONE-B		2,365	416	2	500	135250	DUNKIRK	230	1	250										1	255		
ZONE-C		3,323	585	2	500	149000	ROCHESTER	345	2	500	25%	HQ	ZONE-D	1,260	1,260	180819	CHA-NY	765	4	1,000			
ZONE-D		971	171	1	250	136150	CLAY	345	2	500										1	260		
ZONE-E		1,600	282	1	250	147837	MASS230A	230	1	250										10	2,515		
ZONE-F		2,868	505	2	500	137200	EDIC	345	1	250													
ZONE-F						137455	ATHENS	345	2	500													
ZONES-TOTAL		14,250	2,509	10	2,500					10	2,500											2,515	
TOTAL NEW CAPACITY		2,500												TOTAL	2,515							2,515	
SCENARIO-3 (90% ALL ZONES, 10% EXTERNAL LOW IMPORT)	90% OF REQRMNT		4,514		4,514		10% OF REQRMNT						501		501								
	LOAD	NEW GEN	CONVENTIONAL	LOCATIONS FOR NEW GENERATOR	Units	MW	Bus#	Bus Name	kV	Units	MW												
	ZONE-A	3,123	345	2	500	130754	KINTI345	345	1	250	3.3%	ISONE	ZONES-F&G	170	170	102926	NORTHFIELD	345	1	170			
	ZONE-B	2,365	262	1	250	135250	DUNKIRK	230	1	250	3.3%	PJM	ZONE-J	170	170	4989	HUDSON1	345	1	170			
	ZONE-C	3,323	368	2	500	149000	ROCHESTER	345	1	250	3.3%	HQ	ZONE-D	175	175	180819	CHA-NY	765	1	175			
	ZONE-D	971	107	0	-	136150	CLAY	345	2	500												515	
	ZONE-E	1,600	177	1	250	137200	EDIC	345	1	250													
	ZONE-F	2,868	317	1	250	137455	ATHENS	345	1	250													
	ZONE-G	2,948	326	1	250	125000	HURLEY 3	345	1	250													
	ZONE-H	782	86	0	-																		
ZONE-I	1,753	194	1	250	126292	PL VILLE	345	1	250														
ZONE-J	14,326	1,584	6	1,500	126272	E 13TH ST	345	4	1,000														
ZONE-K	6,757	747	3	750	126304	W 49TH ST	345	2	500														
ZONE-K					129361	RULAND	138	2	500														
ZONE-K					129421	HOLLBROOK	138	1	250														
ZONES-TOTAL	40,816	4,513	18	4,500					18	4,500											515		
TOTAL NEW CAPACITY		4,500												TOTAL	515							515	
SCENARIO-4 (25% ALL ZONES, 75% EXTERNAL HIGH IMPORTS)	25% OF REQRMNT		1,254		1,254		75% OF REQRMNT						3,761										
	LOAD	NEW GEN	CONVENTIONAL	LOCATIONS FOR NEW GENERATOR	Units	MW	Bus#	Bus Name	kV	Units	MW												
	ZONE-A	3,123	96	1	250	130754	KINTI345	345	1	250	25%	PJM	ZONES I/J/K	1,255	1,255	5054	ESSEX	230	2	255			
	ZONE-B	2,365	73	0	-												4989	HUDSON1	345	2	265		
	ZONE-C	3,323	102	1	250	136150	CLAY	345	1	250												500	
	ZONE-D	971	30	0	-																	2,250	
	ZONE-E	1,600	49	0	-																	260	
	ZONE-F	2,868	88	0	-																		
	ZONE-G	2,948	91	0	-																		
	ZONE-H	782	24	0	-																		
ZONE-I	1,753	54	0	-																			
ZONE-J	14,326	440	2	500	126272	E 13TH ST	345	1	250														
ZONE-K	6,757	208	1	250	126304	W 49TH ST	345	1	250														
ZONE-K					129361	RULAND	138	1	250														
ZONES-TOTAL	40,816	1,255	5	1,250					5	1,250												3,765	
TOTAL NEW CAPACITY		1,250												TOTAL	3,765							3,765	

Table M.2: New Generation Capacity for Renewable Scenarios 5-6

SCENARIO-5 (85% DOWN STATE - 15% EXTERNAL)	INTERNAL														EXTERNAL - FIRM PURCHASE																									
	85% OF REQUIREMENT (MW)		3,714		2,090		INTERNAL														15% OF REQUIREMENT (MW)		1,024		369		EXTERNAL - FIRM PURCHASE													
	LOAD	NEW GEN	RENEW	Bus#	Bus Name	kV	Units	MW	Units	MW	Bus#	Bus Name	kV	Units	MW	Units	MW	RENEW	Bus#	Bus Name	kV	Units	MW	Units	MW	CONVENTIONAL	Bus#	Bus Name	kV	Units	MW									
ZONE-H	782	123	-					1	250	126262	BUCHANAN N	345	1	250	10%	ZONE-K	683	240	100656	NEW HAVN	345	1	240	443	100656	NEW HAVN	345	1	250											
ZONE-I	1,753	276	-					1	250	126292	PL VILLE	345	1	250	5%	PJM	ZONE-J	341	128	4989	HUDSON1	345	1	128	212	4989	HUDSON1	345	1	212										
ZONE-J	14,326	2,253	1,400	126286	Gowanus	345	1	1,400	8	2,210	126272	E 13TH ST	345	4	1,000																									
ZONE-K	6,757	1,063	700	129403	Sterling Rd	138	1	700	4	1,000	129361	HOLLBROOK	138	2	500																									
ZONES-TOTAL	23,618	3,715	2,100					14	3,710				15	3,710																										
TOTAL NEW CAPACITY			5,810																																					
TABLE X.5: NEW GENERATION CAPACITY FOR RENEWABLE SCENARIO #7 - REVISED																																								
SCENARIO-7 (50% UPSTATE, 50% EXTERNAL) 100% GROWTH ENERGY FROM RENEWABLES	50% OF REQRMNT		3,870		1,514		INTERNAL														50% OF REQUIREMENT		3,870		1,514		EXTERNAL - FIRM PURCHASE													
	LOAD	NEW GEN	RENEW	Bus#	Bus Name	kV	Units	MW	Units	MW	Bus#	Bus Name	kV	Units	MW	Units	MW	RENEW	Bus#	Bus Name	kV	Units	MW	CNNVNTL	Bus#	Bus Name	kV	Units	MW											
	ZONE-A	3,123	848	332	130756	Stola Road	345	1	132	2	500	130754	KINT1345	345	1	250	25%	PJM	ZONE-AAC	1,935	757	200769	HOMER CY	345	1	757	1,178	200769	HOMER CY	345	4	1,000								
ZONE-B	2,365	642	251	135863	Batavia	115	1	126	2	500	149000	ROCHESTER	345	2	500	25%	HQ	ZONE-D	1,935	757	180819	CHA-NY	765	1	757	1,178	180819	CHA-NY	765	4	1,000									
ZONE-C	3,323	902	353	130764	Meyer	230	1	150	2	500	136150	CLAY	345	2	500																									
ZONE-D	971	264	103	130803	Flat St (Pittsborough Wind Farm)	115	1	53																																
ZONE-E	1,600	435	170	147849	Wills W	230	1	23	1	106	147837	MASS230A	230	1	106																									
ZONE-F	2,868	779	305	137248	Valley	115	1	50																																
ZONES-TOTAL	14,250	3,870	1,514					15	1,514	10	2,356			18	2,356																									
TOTAL NEW CAPACITY			3,870																																					