

Day Ahead Limiting Constraints

| Time Stamp | Time Zone | Limiting Facility | Facility PTID | Contingency | Constraint Cost (\$) |
|------------------|-----------|-----------------------------|---------------|-------------|----------------------|
| 10/07/2018 09:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 1.37 |
| 10/07/2018 10:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 0.83 |
| 10/07/2018 11:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 2.66 |
| 10/07/2018 12:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 2.98 |
| 10/07/2018 13:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 3.49 |
| 10/07/2018 14:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 3.76 |
| 10/07/2018 15:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 3.61 |
| 10/07/2018 16:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 4.54 |
| 10/07/2018 17:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 5.88 |
| 10/07/2018 18:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 8.26 |
| 10/07/2018 19:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 9.65 |
| 10/07/2018 20:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 0.81 |
| 10/07/2018 21:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 0.42 |
| 10/07/2018 00:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -5.18 |
| 10/07/2018 01:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -3.68 |
| 10/07/2018 02:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -2.93 |
| 10/07/2018 03:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -3.42 |
| 10/07/2018 04:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -3.29 |
| 10/07/2018 05:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -4.34 |
| 10/07/2018 06:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -3.81 |
| 10/07/2018 07:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -2.49 |
| 10/07/2018 08:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -2.38 |
| 10/07/2018 09:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -0.4 |
| 10/07/2018 10:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -1.67 |
| 10/07/2018 11:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -2.22 |
| 10/07/2018 12:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -0.02 |
| 10/07/2018 22:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -0.94 |
| 10/07/2018 15:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 4.55 |
| 10/07/2018 16:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 3.23 |
| 10/07/2018 20:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 4.92 |
| 10/07/2018 21:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 1.3 |
| 10/07/2018 22:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 0.47 |
| 10/07/2018 23:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 3.4 |
| 10/07/2018 11:00 | EDT | ASTANNEX 345 E13THSTA 345 1 | 25134 | BASE CASE | 0.02 |
| 10/07/2018 12:00 | EDT | ASTANNEX 345 E13THSTA 345 1 | 25134 | BASE CASE | 0.02 |
| 10/07/2018 13:00 | EDT | ASTANNEX 345 E13THSTA 345 1 | 25134 | BASE CASE | 0.11 |
| 10/07/2018 14:00 | EDT | ASTANNEX 345 E13THSTA 345 1 | 25134 | BASE CASE | 0.17 |
| 10/07/2018 15:00 | EDT | ASTANNEX 345 E13THSTA 345 1 | 25134 | BASE CASE | 1.01 |
| 10/07/2018 20:00 | EDT | ASTANNEX 345 E13THSTA 345 1 | 25134 | BASE CASE | 0.53 |
| 10/07/2018 06:00 | EDT | E13THSTA 345 FARRAGUT 345 1 | 25177 | BASE CASE | 0.02 |
| 10/07/2018 08:00 | EDT | E13THSTA 345 FARRAGUT 345 1 | 25177 | BASE CASE | 0.02 |
| 10/07/2018 09:00 | EDT | E13THSTA 345 FARRAGUT 345 1 | 25177 | BASE CASE | 0.02 |
| 10/07/2018 10:00 | EDT | E13THSTA 345 FARRAGUT 345 1 | 25177 | BASE CASE | 0.02 |
| 10/07/2018 15:00 | EDT | E13THSTA 345 FARRAGUT 345 1 | 25177 | BASE CASE | 0.08 |
| 10/07/2018 16:00 | EDT | E13THSTA 345 FARRAGUT 345 1 | 25177 | BASE CASE | 1.42 |
| 10/07/2018 17:00 | EDT | E13THSTA 345 FARRAGUT 345 1 | 25177 | BASE CASE | 2.08 |
| 10/07/2018 18:00 | EDT | E13THSTA 345 FARRAGUT 345 1 | 25177 | BASE CASE | 3.03 |
| 10/07/2018 19:00 | EDT | E13THSTA 345 FARRAGUT 345 1 | 25177 | BASE CASE | 3.22 |
| 10/07/2018 20:00 | EDT | E13THSTA 345 FARRAGUT 345 1 | 25177 | BASE CASE | 1.56 |
| 10/07/2018 01:00 | EDT | FARRAGUT 138 HUDS_AVE 138 1 | 25291 | BASE CASE | -0.02 |
| 10/07/2018 02:00 | EDT | FARRAGUT 138 HUDS_AVE 138 1 | 25291 | BASE CASE | -0.02 |
| 10/07/2018 05:00 | EDT | FARRAGUT 138 HUDS_AVE 138 1 | 25291 | BASE CASE | -0.02 |
| 10/07/2018 06:00 | EDT | FARRAGUT 138 HUDS_AVE 138 1 | 25291 | BASE CASE | -0.04 |
| 10/07/2018 10:00 | EDT | FARRAGUT 138 HUDS_AVE 138 1 | 25291 | BASE CASE | -0.04 |
| 10/07/2018 11:00 | EDT | FARRAGUT 138 HUDS_AVE 138 1 | 25291 | BASE CASE | -0.04 |
| 10/07/2018 12:00 | EDT | FARRAGUT 138 HUDS_AVE 138 1 | 25291 | BASE CASE | -0.04 |
| 10/07/2018 13:00 | EDT | FARRAGUT 138 HUDS_AVE 138 1 | 25291 | BASE CASE | -0.04 |
| 10/07/2018 21:00 | EDT | FARRAGUT 138 HUDS_AVE 138 1 | 25291 | BASE CASE | -0.02 |
| 10/07/2018 03:00 | EDT | FARRAGUT 138 HUDS_AVE 138 1 | 25293 | BASE CASE | -0.02 |
| 10/07/2018 04:00 | EDT | FARRAGUT 138 HUDS_AVE 138 1 | 25293 | BASE CASE | -0.02 |
| 10/07/2018 00:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |
| 10/07/2018 22:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |
| 10/07/2018 23:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |

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|------------------|-----|-----------------------------|--------|-------------------------------|--------|
| 10/07/2018 11:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 0.78 |
| 10/07/2018 12:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 2.95 |
| 10/07/2018 13:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 3.59 |
| 10/07/2018 14:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 5.53 |
| 10/07/2018 15:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 2.41 |
| 10/07/2018 16:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 2.6 |
| 10/07/2018 17:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 5.19 |
| 10/07/2018 19:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 3.42 |
| 10/07/2018 21:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 2.17 |
| 10/07/2018 22:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 3.7 |
| 10/07/2018 23:00 | EDT | NYCA ACTIVE DNI | 990 | ACTIVE DNI | -0.78 |
| 10/07/2018 13:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BUS:BARRETT 292&459&G2&IC9-12 | 33.98 |
| 10/07/2018 14:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BUS:BARRETT 292&459&G2&IC9-12 | 29.23 |
| 10/07/2018 15:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BUS:BARRETT 292&459&G2&IC9-12 | 55.0 |
| 10/07/2018 16:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BUS:BARRETT 292&459&G2&IC9-12 | 25.39 |
| 10/07/2018 17:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BUS:BARRETT 292&459&G2&IC9-12 | 18.87 |
| 10/07/2018 20:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BUS:BARRETT 292&459&G2&IC9-12 | 27.55 |
| 10/07/2018 21:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BUS:BARRETT 292&459&G2&IC9-12 | 31.22 |
| 10/07/2018 00:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 11.49 |
| 10/07/2018 01:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 9.24 |
| 10/07/2018 02:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 7.97 |
| 10/07/2018 03:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 8.0 |
| 10/07/2018 04:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 7.48 |
| 10/07/2018 05:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 8.33 |
| 10/07/2018 06:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 5.73 |
| 10/07/2018 07:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 6.39 |
| 10/07/2018 08:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 8.19 |
| 10/07/2018 09:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 7.19 |
| 10/07/2018 10:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 11.82 |
| 10/07/2018 11:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 11.92 |
| 10/07/2018 12:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 11.3 |
| 10/07/2018 13:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 13.17 |
| 10/07/2018 14:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 14.42 |
| 10/07/2018 15:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 13.79 |
| 10/07/2018 16:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 13.49 |
| 10/07/2018 17:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 15.14 |
| 10/07/2018 18:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 14.66 |
| 10/07/2018 19:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 14.34 |
| 10/07/2018 20:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 11.14 |
| 10/07/2018 21:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 14.05 |
| 10/07/2018 22:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 15.0 |
| 10/07/2018 23:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 11.29 |
| 10/07/2018 17:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.09 |
| 10/07/2018 18:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 73.89 |
| 10/07/2018 19:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 23.86 |
| 10/07/2018 22:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 33.19 |
| 10/07/2018 23:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 92.66 |
| 10/07/2018 13:00 | EDT | ASTANNEX 138 ASTORIAE 138 1 | 325849 | SIN:E13TH B47 & BK16 | 0.2 |
| 10/07/2018 14:00 | EDT | ASTANNEX 138 ASTORIAE 138 1 | 325849 | SIN:E13TH B47 & BK16 | 0.33 |
| 10/07/2018 15:00 | EDT | ASTANNEX 138 ASTORIAE 138 1 | 325849 | SIN:E13TH B47 & BK16 | 2.31 |
| 10/07/2018 16:00 | EDT | ASTANNEX 138 ASTORIAE 138 1 | 325849 | SIN:E13TH B47 & BK16 | 3.0 |
| 10/07/2018 17:00 | EDT | ASTANNEX 138 ASTORIAE 138 1 | 325849 | SIN:E13TH B47 & BK16 | 4.43 |
| 10/07/2018 18:00 | EDT | ASTANNEX 138 ASTORIAE 138 1 | 325849 | SIN:E13TH B47 & BK16 | 6.46 |
| 10/07/2018 19:00 | EDT | ASTANNEX 138 ASTORIAE 138 1 | 325849 | SIN:E13TH B47 & BK16 | 6.86 |
| 10/07/2018 20:00 | EDT | ASTANNEX 138 ASTORIAE 138 1 | 325849 | SIN:E13TH B47 & BK16 | 4.46 |
| 10/07/2018 16:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | TWR:GOETHALS 22 & 21 | 16.18 |
| 10/07/2018 17:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | TWR:GOETHALS 22 & 21 | 5.5 |
| 10/07/2018 18:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | TWR:GOETHALS 22 & 21 | 0.57 |
| 10/07/2018 20:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | TWR:GOETHALS 22 & 21 | 8.01 |
| 10/07/2018 16:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | TWR:GOETHALS 22 & 21 | 17.66 |
| 10/07/2018 17:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | TWR:GOETHALS 22 & 21 | 6.04 |
| 10/07/2018 18:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | TWR:GOETHALS 22 & 21 | 0.67 |
| 10/07/2018 19:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | TWR:GOETHALS 22 & 21 | 0.05 |
| 10/07/2018 20:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | TWR:GOETHALS 22 & 21 | 8.77 |
| 10/07/2018 16:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -35.27 |
| 10/07/2018 17:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -12.05 |
| 10/07/2018 18:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -1.33 |
| 10/07/2018 19:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -0.09 |
| 10/07/2018 20:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -17.5 |

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|------------------|-----|--------------------------|-------|----------------------|-------|
| 10/07/2018 21:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -0.03 |
| 10/07/2018 00:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 1.42 |
| 10/07/2018 01:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 0.52 |
| 10/07/2018 02:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 0.07 |
| 10/07/2018 07:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 1.49 |
| 10/07/2018 08:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 1.95 |
| 10/07/2018 09:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 4.81 |
| 10/07/2018 10:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 4.29 |
| 10/07/2018 11:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 6.47 |
| 10/07/2018 12:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 7.17 |
| 10/07/2018 13:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 8.46 |
| 10/07/2018 14:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 8.81 |
| 10/07/2018 15:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 8.45 |
| 10/07/2018 16:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 11.9 |
| 10/07/2018 17:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 16.96 |
| 10/07/2018 18:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 22.12 |
| 10/07/2018 19:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 23.77 |
| 10/07/2018 20:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 11.6 |
| 10/07/2018 21:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 7.63 |
| 10/07/2018 22:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 4.93 |
| 10/07/2018 23:00 | EDT | MARCY 765 MARCY 345 1 | 25455 | TWR:MOSES MA1 & MA2 | 4.18 |