

Day Ahead Limiting Constraints

| Time Stamp | Time Zone | Limiting Facility | Facility PTID | Contingency | Constraint Cost (\$) |
|------------------|-----------|-----------------------------|---------------|-------------|----------------------|
| 12/14/2017 06:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 1.29 |
| 12/14/2017 07:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 2.55 |
| 12/14/2017 08:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 2.8 |
| 12/14/2017 09:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 2.72 |
| 12/14/2017 10:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 2.61 |
| 12/14/2017 11:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 1.34 |
| 12/14/2017 12:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 2.91 |
| 12/14/2017 13:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 2.38 |
| 12/14/2017 14:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 2.44 |
| 12/14/2017 15:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 4.0 |
| 12/14/2017 16:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 11.92 |
| 12/14/2017 17:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 11.69 |
| 12/14/2017 18:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 8.85 |
| 12/14/2017 19:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 2.81 |
| 12/14/2017 20:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 4.45 |
| 12/14/2017 21:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 6.33 |
| 12/14/2017 22:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 7.15 |
| 12/14/2017 23:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | 2.02 |
| 12/14/2017 01:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -4.21 |
| 12/14/2017 02:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -3.81 |
| 12/14/2017 03:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -4.64 |
| 12/14/2017 04:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -4.23 |
| 12/14/2017 05:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -15.13 |
| 12/14/2017 06:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -19.77 |
| 12/14/2017 07:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -10.65 |
| 12/14/2017 08:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -18.28 |
| 12/14/2017 09:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -15.26 |
| 12/14/2017 10:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -14.35 |
| 12/14/2017 11:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -12.15 |
| 12/14/2017 12:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -9.78 |
| 12/14/2017 13:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -10.68 |
| 12/14/2017 14:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -9.27 |
| 12/14/2017 15:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -10.02 |
| 12/14/2017 16:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -22.01 |
| 12/14/2017 17:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -24.44 |
| 12/14/2017 18:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -22.9 |
| 12/14/2017 19:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -22.21 |
| 12/14/2017 20:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -17.83 |
| 12/14/2017 21:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -9.21 |
| 12/14/2017 22:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -10.51 |
| 12/14/2017 23:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -6.07 |
| 12/14/2017 00:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 52.13 |
| 12/14/2017 01:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 42.26 |
| 12/14/2017 02:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 39.21 |
| 12/14/2017 03:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 38.34 |
| 12/14/2017 04:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 42.18 |
| 12/14/2017 05:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 33.11 |
| 12/14/2017 06:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 18.07 |
| 12/14/2017 07:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 1.85 |
| 12/14/2017 10:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 14.27 |
| 12/14/2017 11:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 22.54 |
| 12/14/2017 12:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 25.21 |
| 12/14/2017 13:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 25.62 |
| 12/14/2017 14:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 26.25 |
| 12/14/2017 15:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 27.77 |
| 12/14/2017 16:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 11.79 |
| 12/14/2017 18:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 5.15 |
| 12/14/2017 19:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 15.92 |
| 12/14/2017 20:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 23.88 |
| 12/14/2017 21:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 31.24 |
| 12/14/2017 22:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 19.92 |
| 12/14/2017 23:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 57.49 |
| 12/14/2017 10:00 | EST | E179THST 138 SHERMCRK 138 1 | 25156 | BASE CASE | -0.5 |

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|------------------|-----|-----------------------------|-------|----------------------------|--------|
| 12/14/2017 11:00 | EST | E179THST 138 SHERMCRK 138 1 | 25156 | BASE CASE | -1.99 |
| 12/14/2017 13:00 | EST | E179THST 138 SHERMCRK 138 1 | 25156 | BASE CASE | -9.09 |
| 12/14/2017 14:00 | EST | E179THST 138 SHERMCRK 138 1 | 25156 | BASE CASE | -4.02 |
| 12/14/2017 12:00 | EST | E179THST 138 SHERMCRK 138 2 | 25157 | BASE CASE | -5.74 |
| 12/14/2017 07:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.02 |
| 12/14/2017 10:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 7.9 |
| 12/14/2017 11:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 6.2 |
| 12/14/2017 12:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 6.62 |
| 12/14/2017 13:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 6.03 |
| 12/14/2017 14:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 8.63 |
| 12/14/2017 15:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 7.8 |
| 12/14/2017 16:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.18 |
| 12/14/2017 19:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 1.39 |
| 12/14/2017 21:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.29 |
| 12/14/2017 10:00 | EST | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 7.81 |
| 12/14/2017 11:00 | EST | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 5.9 |
| 12/14/2017 12:00 | EST | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 5.13 |
| 12/14/2017 13:00 | EST | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 3.67 |
| 12/14/2017 14:00 | EST | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 7.59 |
| 12/14/2017 15:00 | EST | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 7.79 |
| 12/14/2017 16:00 | EST | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.17 |
| 12/14/2017 19:00 | EST | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 1.39 |
| 12/14/2017 21:00 | EST | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.3 |
| 12/14/2017 08:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191 | DUNWODIE-MOTTHAVN_345_71 | -0.03 |
| 12/14/2017 11:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191 | DUNWODIE-MOTTHAVN_345_71 | -2.14 |
| 12/14/2017 14:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191 | DUNWODIE-MOTTHAVN_345_71 | -5.03 |
| 12/14/2017 09:00 | EST | MOTTHAVN 345 DUNWODIE 345 1 | 25151 | DUNWODIE-MOTTHAVN_345_72 | -0.03 |
| 12/14/2017 10:00 | EST | MOTTHAVN 345 DUNWODIE 345 1 | 25151 | DUNWODIE-MOTTHAVN_345_72 | -0.57 |
| 12/14/2017 12:00 | EST | MOTTHAVN 345 DUNWODIE 345 1 | 25151 | DUNWODIE-MOTTHAVN_345_72 | -7.18 |
| 12/14/2017 13:00 | EST | MOTTHAVN 345 DUNWODIE 345 1 | 25151 | DUNWODIE-MOTTHAVN_345_72 | -11.38 |
| 12/14/2017 15:00 | EST | MOTTHAVN 345 DUNWODIE 345 1 | 25151 | DUNWODIE-MOTTHAVN_345_72 | -0.03 |
| 12/14/2017 00:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 11.42 |
| 12/14/2017 01:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 15.0 |
| 12/14/2017 02:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 11.68 |
| 12/14/2017 03:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 12.11 |
| 12/14/2017 04:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 13.09 |
| 12/14/2017 05:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 23.13 |
| 12/14/2017 06:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 24.78 |
| 12/14/2017 07:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 26.99 |
| 12/14/2017 08:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 29.1 |
| 12/14/2017 09:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 28.92 |
| 12/14/2017 10:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 26.86 |
| 12/14/2017 11:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 28.06 |
| 12/14/2017 12:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 30.41 |
| 12/14/2017 13:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 32.2 |
| 12/14/2017 14:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 32.07 |
| 12/14/2017 15:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 31.48 |
| 12/14/2017 16:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 25.61 |
| 12/14/2017 17:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 47.09 |
| 12/14/2017 18:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 52.36 |
| 12/14/2017 19:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 55.79 |
| 12/14/2017 20:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 40.03 |
| 12/14/2017 21:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 39.21 |
| 12/14/2017 22:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 35.86 |
| 12/14/2017 23:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 38.52 |
| 12/14/2017 00:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 37.25 |
| 12/14/2017 01:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 38.45 |
| 12/14/2017 02:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.1 |
| 12/14/2017 05:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 25.96 |
| 12/14/2017 06:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 11.21 |
| 12/14/2017 07:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 8.81 |
| 12/14/2017 08:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 9.35 |
| 12/14/2017 09:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 9.62 |
| 12/14/2017 10:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 5.15 |
| 12/14/2017 11:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 4.93 |
| 12/14/2017 12:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 5.14 |
| 12/14/2017 13:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.1 |
| 12/14/2017 14:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.1 |
| 12/14/2017 15:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 2.28 |

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|------------------|-----|-----------------------------|-------|----------------------------|--------|
| 12/14/2017 19:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.63 |
| 12/14/2017 20:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 37.13 |
| 12/14/2017 21:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 44.48 |
| 12/14/2017 22:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 124.02 |
| 12/14/2017 23:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 49.4 |
| 12/14/2017 08:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -18.23 |
| 12/14/2017 09:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -24.52 |
| 12/14/2017 10:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -16.59 |
| 12/14/2017 11:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -21.49 |
| 12/14/2017 12:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -14.47 |
| 12/14/2017 13:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -13.01 |
| 12/14/2017 14:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -12.74 |
| 12/14/2017 15:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -19.13 |
| 12/14/2017 16:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -33.19 |
| 12/14/2017 17:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -61.04 |
| 12/14/2017 18:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -45.92 |
| 12/14/2017 19:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -37.1 |
| 12/14/2017 20:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -34.45 |
| 12/14/2017 21:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -30.41 |
| 12/14/2017 22:00 | EST | PLSNTVLY 345 ATHENS 345 1 | 25054 | TWR:UCC2-41&FCC-33 | -26.4 |