

Day Ahead Limiting Constraints

| Time Stamp | Time Zone | Limiting Facility | Facility PTID | Contingency | Constraint Cost (\$) |
|------------------|-----------|-----------------------------|---------------|-------------|----------------------|
| 11/18/2017 08:00 | EST | SCH - PJ - NY | 23316 | BASE CASE | -0.65 |
| 11/18/2017 00:00 | EST | SCH - OH - NY | 23317 | BASE CASE | 2.98 |
| 11/18/2017 01:00 | EST | SCH - OH - NY | 23317 | BASE CASE | 4.75 |
| 11/18/2017 02:00 | EST | SCH - OH - NY | 23317 | BASE CASE | 3.17 |
| 11/18/2017 03:00 | EST | SCH - OH - NY | 23317 | BASE CASE | 1.35 |
| 11/18/2017 04:00 | EST | SCH - OH - NY | 23317 | BASE CASE | 1.82 |
| 11/18/2017 05:00 | EST | SCH - OH - NY | 23317 | BASE CASE | 1.71 |
| 11/18/2017 06:00 | EST | SCH - OH - NY | 23317 | BASE CASE | 3.71 |
| 11/18/2017 07:00 | EST | SCH - OH - NY | 23317 | BASE CASE | 1.0 |
| 11/18/2017 08:00 | EST | SCH - OH - NY | 23317 | BASE CASE | 2.32 |
| 11/18/2017 09:00 | EST | SCH - OH - NY | 23317 | BASE CASE | 2.28 |
| 11/18/2017 10:00 | EST | SCH - OH - NY | 23317 | BASE CASE | 1.02 |
| 11/18/2017 11:00 | EST | SCH - OH - NY | 23317 | BASE CASE | 0.98 |
| 11/18/2017 06:00 | EST | SCH - HQ - NY | 23324 | BASE CASE | 2.08 |
| 11/18/2017 07:00 | EST | SCH - HQ - NY | 23324 | BASE CASE | 2.06 |
| 11/18/2017 08:00 | EST | SCH - HQ - NY | 23324 | BASE CASE | 2.41 |
| 11/18/2017 11:00 | EST | SCH - HQ - NY | 23324 | BASE CASE | 1.01 |
| 11/18/2017 12:00 | EST | SCH - HQ - NY | 23324 | BASE CASE | 0.63 |
| 11/18/2017 13:00 | EST | SCH - HQ - NY | 23324 | BASE CASE | 0.75 |
| 11/18/2017 14:00 | EST | SCH - HQ - NY | 23324 | BASE CASE | 0.06 |
| 11/18/2017 15:00 | EST | SCH - HQ - NY | 23324 | BASE CASE | 0.2 |
| 11/18/2017 00:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 15.56 |
| 11/18/2017 01:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 12.19 |
| 11/18/2017 02:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 14.11 |
| 11/18/2017 03:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 11.23 |
| 11/18/2017 04:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 10.43 |
| 11/18/2017 05:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 10.53 |
| 11/18/2017 16:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 3.65 |
| 11/18/2017 17:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 8.05 |
| 11/18/2017 18:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 10.09 |
| 11/18/2017 19:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 12.76 |
| 11/18/2017 20:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 10.49 |
| 11/18/2017 21:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 10.63 |
| 11/18/2017 22:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 8.44 |
| 11/18/2017 23:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 14.86 |
| 11/18/2017 06:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 0.13 |
| 11/18/2017 12:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 0.47 |
| 11/18/2017 15:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 0.97 |
| 11/18/2017 21:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 1.21 |
| 11/18/2017 12:00 | EST | ASTANNEX 345 E13THSTA 345 1 | 25142 | BASE CASE | 0.02 |
| 11/18/2017 14:00 | EST | ASTANNEX 345 E13THSTA 345 1 | 25142 | BASE CASE | 0.02 |
| 11/18/2017 19:00 | EST | ASTANNEX 345 E13THSTA 345 1 | 25142 | BASE CASE | 0.02 |
| 11/18/2017 20:00 | EST | ASTANNEX 345 E13THSTA 345 1 | 25142 | BASE CASE | 0.03 |
| 11/18/2017 22:00 | EST | ASTANNEX 345 E13THSTA 345 1 | 25142 | BASE CASE | 0.02 |
| 11/18/2017 06:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BASE CASE | 3.81 |
| 11/18/2017 07:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BASE CASE | 1.52 |
| 11/18/2017 16:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BASE CASE | 0.94 |
| 11/18/2017 21:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BASE CASE | 1.24 |
| 11/18/2017 11:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.49 |
| 11/18/2017 12:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 1.29 |
| 11/18/2017 13:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 1.02 |
| 11/18/2017 14:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 1.3 |
| 11/18/2017 15:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.84 |
| 11/18/2017 16:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.52 |
| 11/18/2017 18:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.18 |
| 11/18/2017 19:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 1.12 |
| 11/18/2017 20:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 2.25 |
| 11/18/2017 21:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.8 |
| 11/18/2017 22:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 2.42 |
| 11/18/2017 23:00 | EST | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 2.0 |
| 11/18/2017 14:00 | EST | E179THST 138 HELLGATE 138 1 | 25289 | BASE CASE | 2.61 |
| 11/18/2017 16:00 | EST | E179THST 138 HELLGATE 138 1 | 25289 | BASE CASE | 1.04 |
| 11/18/2017 11:00 | EST | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 0.98 |

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|------------------|-----|-----------------------------|-------|--------------------------------|-------|
| 11/18/2017 12:00 | EST | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 2.59 |
| 11/18/2017 13:00 | EST | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 2.06 |
| 11/18/2017 15:00 | EST | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 1.69 |
| 11/18/2017 18:00 | EST | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 0.37 |
| 11/18/2017 19:00 | EST | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 2.26 |
| 11/18/2017 20:00 | EST | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 4.54 |
| 11/18/2017 21:00 | EST | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 1.6 |
| 11/18/2017 22:00 | EST | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 4.91 |
| 11/18/2017 23:00 | EST | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 4.06 |
| 11/18/2017 11:00 | EST | RAINEY 138 VERNON 138 1 | 25296 | BASE CASE | 0.09 |
| 11/18/2017 12:00 | EST | RAINEY 138 VERNON 138 1 | 25296 | BASE CASE | 0.26 |
| 11/18/2017 13:00 | EST | RAINEY 138 VERNON 138 1 | 25296 | BASE CASE | 0.21 |
| 11/18/2017 14:00 | EST | RAINEY 138 VERNON 138 1 | 25296 | BASE CASE | 0.26 |
| 11/18/2017 15:00 | EST | RAINEY 138 VERNON 138 1 | 25296 | BASE CASE | 0.17 |
| 11/18/2017 16:00 | EST | RAINEY 138 VERNON 138 1 | 25296 | BASE CASE | 0.1 |
| 11/18/2017 18:00 | EST | RAINEY 138 VERNON 138 1 | 25296 | BASE CASE | 0.02 |
| 11/18/2017 19:00 | EST | RAINEY 138 VERNON 138 1 | 25296 | BASE CASE | 0.23 |
| 11/18/2017 20:00 | EST | RAINEY 138 VERNON 138 1 | 25296 | BASE CASE | 0.47 |
| 11/18/2017 21:00 | EST | RAINEY 138 VERNON 138 1 | 25296 | BASE CASE | 0.16 |
| 11/18/2017 22:00 | EST | RAINEY 138 VERNON 138 1 | 25296 | BASE CASE | 0.51 |
| 11/18/2017 23:00 | EST | RAINEY 138 VERNON 138 1 | 25296 | BASE CASE | 0.42 |
| 11/18/2017 06:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | BASE CASE | 12.92 |
| 11/18/2017 07:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | BASE CASE | 5.17 |
| 11/18/2017 22:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | BASE CASE | 8.41 |
| 11/18/2017 06:00 | EST | NYCA ACTIVE DNI | 990 | ACTIVE DNI | -0.18 |
| 11/18/2017 08:00 | EST | NYCA ACTIVE DNI | 990 | ACTIVE DNI | 0.29 |
| 11/18/2017 10:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 2.33 |
| 11/18/2017 11:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 0.06 |
| 11/18/2017 16:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 3.3 |
| 11/18/2017 17:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 4.22 |
| 11/18/2017 18:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 3.31 |
| 11/18/2017 19:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 1.63 |
| 11/18/2017 14:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 13.64 |
| 11/18/2017 15:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 12.77 |
| 11/18/2017 16:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 21.33 |
| 11/18/2017 17:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 17.12 |
| 11/18/2017 18:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 7.65 |
| 11/18/2017 19:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 18.39 |
| 11/18/2017 20:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 25.47 |
| 11/18/2017 21:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 16.61 |
| 11/18/2017 22:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 12.2 |
| 11/18/2017 23:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 13.08 |
| 11/18/2017 00:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.26 |
| 11/18/2017 08:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.26 |
| 11/18/2017 09:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.1 |
| 11/18/2017 10:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 27.92 |
| 11/18/2017 11:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 15.86 |
| 11/18/2017 12:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 50.39 |
| 11/18/2017 13:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 31.68 |
| 11/18/2017 14:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 35.16 |
| 11/18/2017 15:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 32.92 |
| 11/18/2017 16:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 46.64 |
| 11/18/2017 17:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 44.12 |
| 11/18/2017 18:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 42.2 |
| 11/18/2017 19:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 47.37 |
| 11/18/2017 20:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 65.58 |
| 11/18/2017 21:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 31.87 |
| 11/18/2017 22:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 67.31 |
| 11/18/2017 23:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 33.73 |
| 11/18/2017 06:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.03 |
| 11/18/2017 07:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 0.53 |
| 11/18/2017 12:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 0.79 |
| 11/18/2017 20:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 0.84 |
| 11/18/2017 00:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -0.02 |
| 11/18/2017 07:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -0.02 |
| 11/18/2017 10:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -0.02 |
| 11/18/2017 13:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -4.04 |
| 11/18/2017 14:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -5.13 |
| 11/18/2017 15:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -3.32 |

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| 11/18/2017 16:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -2.05 |
| 11/18/2017 17:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -0.02 |
| 11/18/2017 18:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -0.72 |
| 11/18/2017 19:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -4.44 |
| 11/18/2017 20:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -8.92 |
| 11/18/2017 21:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -3.15 |
| 11/18/2017 22:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -9.6 |
| 11/18/2017 23:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25053 | SCB:SPBK(RS4):M52&99941&4S1&S2 | -7.93 |
| 11/18/2017 06:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25223 | SCB:SPBK(RS5):M51&99941&5S1&S2 | -0.06 |
| 11/18/2017 08:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25223 | SCB:SPBK(RS5):M51&99941&5S1&S2 | -0.02 |
| 11/18/2017 11:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25223 | SCB:SPBK(RS5):M51&99941&5S1&S2 | -1.93 |
| 11/18/2017 12:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25223 | SCB:SPBK(RS5):M51&99941&5S1&S2 | -5.1 |