

Day Ahead Limiting Constraints

| Time Stamp | Time Zone | Limiting Facility | Facility PTID | Contingency | Constraint Cost (\$) |
|------------------|-----------|-----------------------------|---------------|-------------------------------|----------------------|
| 12/28/2019 08:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -3.0 |
| 12/28/2019 09:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -1.58 |
| 12/28/2019 10:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -2.05 |
| 12/28/2019 11:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -2.1 |
| 12/28/2019 12:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -1.57 |
| 12/28/2019 13:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -0.9 |
| 12/28/2019 14:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -1.3 |
| 12/28/2019 15:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -1.84 |
| 12/28/2019 16:00 | EST | SCH - NE - NY | 23318 | BASE CASE | -2.44 |
| 12/28/2019 00:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 6.83 |
| 12/28/2019 01:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 6.65 |
| 12/28/2019 02:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 5.56 |
| 12/28/2019 03:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 6.62 |
| 12/28/2019 04:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 5.64 |
| 12/28/2019 05:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 4.31 |
| 12/28/2019 06:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 5.76 |
| 12/28/2019 07:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 6.29 |
| 12/28/2019 09:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 2.16 |
| 12/28/2019 10:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 1.16 |
| 12/28/2019 11:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 0.88 |
| 12/28/2019 12:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 1.49 |
| 12/28/2019 13:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 1.12 |
| 12/28/2019 16:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 1.08 |
| 12/28/2019 17:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 6.81 |
| 12/28/2019 18:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 7.74 |
| 12/28/2019 19:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 6.2 |
| 12/28/2019 20:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 4.95 |
| 12/28/2019 21:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 2.59 |
| 12/28/2019 22:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 2.44 |
| 12/28/2019 23:00 | EST | CENTRAL EAST - VC | 23330 | BASE CASE | 4.6 |
| 12/28/2019 22:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 0.51 |
| 12/28/2019 23:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 0.56 |
| 12/28/2019 16:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 1.84 |
| 12/28/2019 19:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 2.33 |
| 12/28/2019 20:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 2.56 |
| 12/28/2019 21:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 1.03 |
| 12/28/2019 23:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE | 2.31 |
| 12/28/2019 00:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.13 |
| 12/28/2019 01:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.1 |
| 12/28/2019 02:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.1 |
| 12/28/2019 06:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.08 |
| 12/28/2019 08:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.08 |
| 12/28/2019 09:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.08 |
| 12/28/2019 10:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 4.73 |
| 12/28/2019 11:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 4.58 |
| 12/28/2019 12:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 4.57 |
| 12/28/2019 13:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 5.6 |
| 12/28/2019 14:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 6.77 |
| 12/28/2019 15:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 6.56 |
| 12/28/2019 16:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 4.7 |
| 12/28/2019 17:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 13.87 |
| 12/28/2019 18:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 24.12 |
| 12/28/2019 19:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 5.94 |
| 12/28/2019 20:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 6.51 |
| 12/28/2019 21:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 8.48 |
| 12/28/2019 22:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 6.17 |
| 12/28/2019 23:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 5.88 |
| 12/28/2019 08:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 0.81 |
| 12/28/2019 09:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 0.4 |
| 12/28/2019 10:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 0.98 |
| 12/28/2019 11:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.53 |
| 12/28/2019 12:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.22 |
| 12/28/2019 13:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.23 |

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| 12/28/2019 14:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 2.11 |
| 12/28/2019 15:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 2.34 |
| 12/28/2019 16:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 3.31 |
| 12/28/2019 17:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 4.39 |
| 12/28/2019 18:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 4.39 |
| 12/28/2019 19:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.41 |
| 12/28/2019 20:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.63 |
| 12/28/2019 21:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.47 |