

Day Ahead Limiting Constraints

| Time Stamp | Time Zone | Limiting Facility | Facility PTID | Contingency | Constraint Cost (\$) |
|------------------|-----------|-----------------------------|---------------|-------------|----------------------|
| 07/07/2018 00:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 1.58 |
| 07/07/2018 15:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 1.19 |
| 07/07/2018 18:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 3.52 |
| 07/07/2018 19:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 3.11 |
| 07/07/2018 20:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 5.64 |
| 07/07/2018 21:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 4.88 |
| 07/07/2018 22:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 3.07 |
| 07/07/2018 00:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 7.76 |
| 07/07/2018 01:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 11.46 |
| 07/07/2018 02:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 10.59 |
| 07/07/2018 03:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 10.36 |
| 07/07/2018 04:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 9.62 |
| 07/07/2018 05:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 9.38 |
| 07/07/2018 06:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 0.6 |
| 07/07/2018 07:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 3.63 |
| 07/07/2018 21:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 0.02 |
| 07/07/2018 00:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 1.5 |
| 07/07/2018 01:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 1.45 |
| 07/07/2018 22:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 0.13 |
| 07/07/2018 23:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 3.83 |
| 07/07/2018 06:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 0.81 |
| 07/07/2018 07:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 0.74 |
| 07/07/2018 08:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 0.8 |
| 07/07/2018 09:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 1.12 |
| 07/07/2018 10:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 1.61 |
| 07/07/2018 11:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 1.5 |
| 07/07/2018 12:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 1.82 |
| 07/07/2018 13:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 2.52 |
| 07/07/2018 14:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 2.9 |
| 07/07/2018 15:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 2.13 |
| 07/07/2018 16:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 0.44 |
| 07/07/2018 18:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 0.25 |
| 07/07/2018 19:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 1.0 |
| 07/07/2018 20:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 1.1 |
| 07/07/2018 21:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 1.73 |
| 07/07/2018 00:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -8.47 |
| 07/07/2018 01:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -0.02 |
| 07/07/2018 02:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -0.02 |
| 07/07/2018 07:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -1.11 |
| 07/07/2018 08:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -9.54 |
| 07/07/2018 09:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -7.05 |
| 07/07/2018 10:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -1.8 |
| 07/07/2018 11:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -0.84 |
| 07/07/2018 12:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -0.96 |
| 07/07/2018 13:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -10.97 |
| 07/07/2018 14:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -9.09 |
| 07/07/2018 15:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -2.83 |
| 07/07/2018 16:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -0.35 |
| 07/07/2018 17:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -0.1 |
| 07/07/2018 18:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -0.27 |
| 07/07/2018 19:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -2.13 |
| 07/07/2018 20:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -0.66 |
| 07/07/2018 21:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -4.4 |
| 07/07/2018 22:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -8.09 |
| 07/07/2018 23:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -13.05 |
| 07/07/2018 00:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 2.97 |
| 07/07/2018 07:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.06 |
| 07/07/2018 08:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 3.04 |
| 07/07/2018 09:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 2.15 |
| 07/07/2018 10:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.33 |
| 07/07/2018 11:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.02 |
| 07/07/2018 12:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.02 |
| 07/07/2018 13:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 3.45 |

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| 07/07/2018 14:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 2.72 |
| 07/07/2018 15:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.64 |
| 07/07/2018 19:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.55 |
| 07/07/2018 20:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.02 |
| 07/07/2018 21:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 1.22 |
| 07/07/2018 22:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 2.72 |
| 07/07/2018 23:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 4.6 |
| 07/07/2018 22:00 | EDT | E179THST 138 HELLGATE 138 1 | 25289 | BASE CASE | 5.25 |
| 07/07/2018 00:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 5.78 |
| 07/07/2018 01:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 0.02 |
| 07/07/2018 07:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 0.07 |
| 07/07/2018 08:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 5.85 |
| 07/07/2018 09:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 4.14 |
| 07/07/2018 10:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 0.61 |
| 07/07/2018 13:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 6.64 |
| 07/07/2018 14:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 5.23 |
| 07/07/2018 15:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 1.19 |
| 07/07/2018 19:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 1.03 |
| 07/07/2018 21:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 2.33 |
| 07/07/2018 23:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 8.91 |
| 07/07/2018 00:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 0.17 |
| 07/07/2018 08:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 0.22 |
| 07/07/2018 09:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 0.17 |
| 07/07/2018 10:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 0.05 |
| 07/07/2018 01:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | BASE CASE | -0.02 |
| 07/07/2018 02:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | BASE CASE | -0.02 |
| 07/07/2018 09:00 | EDT | HQTL ACTIVE DNI | 980 | ACTIVE DNI | -3.17 |
| 07/07/2018 10:00 | EDT | HQTL ACTIVE DNI | 980 | ACTIVE DNI | -16.91 |
| 07/07/2018 12:00 | EDT | HQTL ACTIVE DNI | 980 | ACTIVE DNI | 22.03 |
| 07/07/2018 13:00 | EDT | HQTL ACTIVE DNI | 980 | ACTIVE DNI | 4.33 |
| 07/07/2018 00:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 24.48 |
| 07/07/2018 21:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 25.99 |
| 07/07/2018 22:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 11.62 |
| 07/07/2018 23:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 47.62 |
| 07/07/2018 23:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BUS:BARRETT 292&459&G2&IC9-12 | 48.14 |
| 07/07/2018 00:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 17.79 |
| 07/07/2018 01:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 17.38 |
| 07/07/2018 02:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.1 |
| 07/07/2018 03:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.1 |
| 07/07/2018 07:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 18.07 |
| 07/07/2018 08:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 16.29 |
| 07/07/2018 09:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 12.97 |
| 07/07/2018 10:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 5.11 |
| 07/07/2018 11:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 4.39 |
| 07/07/2018 12:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 3.92 |
| 07/07/2018 13:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 3.25 |
| 07/07/2018 14:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 3.56 |
| 07/07/2018 15:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 3.38 |
| 07/07/2018 16:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 4.1 |
| 07/07/2018 17:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 2.68 |
| 07/07/2018 18:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 4.15 |
| 07/07/2018 19:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 4.47 |
| 07/07/2018 20:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 4.56 |
| 07/07/2018 21:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 5.62 |
| 07/07/2018 22:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 12.19 |
| 07/07/2018 23:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 0.08 |
| 07/07/2018 06:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.68 |
| 07/07/2018 07:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 4.63 |
| 07/07/2018 08:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 4.45 |
| 07/07/2018 09:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 4.54 |
| 07/07/2018 10:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 4.18 |
| 07/07/2018 11:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 3.84 |
| 07/07/2018 12:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 4.42 |
| 07/07/2018 13:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 5.72 |
| 07/07/2018 14:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 6.56 |
| 07/07/2018 15:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 4.95 |
| 07/07/2018 16:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.62 |
| 07/07/2018 17:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 0.48 |
| 07/07/2018 18:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.25 |

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| 07/07/2018 19:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 2.83 |
| 07/07/2018 20:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 3.05 |
| 07/07/2018 21:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 4.52 |
| 07/07/2018 22:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.84 |
| 07/07/2018 11:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -0.11 |
| 07/07/2018 12:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -0.29 |
| 07/07/2018 13:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -15.26 |
| 07/07/2018 14:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -21.6 |
| 07/07/2018 15:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -27.08 |
| 07/07/2018 16:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -17.89 |
| 07/07/2018 17:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -19.78 |
| 07/07/2018 18:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -70.23 |
| 07/07/2018 19:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -17.66 |
| 07/07/2018 20:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -19.33 |
| 07/07/2018 21:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -62.67 |
| 07/07/2018 10:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | TWR:MOSES MA1 & MA2 | 37.0 |
| 07/07/2018 11:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | TWR:MOSES MA1 & MA2 | 41.84 |