

Day Ahead Limiting Constraints

| Time Stamp | Time Zone | Limiting Facility | Facility PTID | Contingency | Constraint Cost (\$) |
|------------------|-----------|-----------------------------|---------------|-------------|----------------------|
| 10/17/2018 01:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 0.02 |
| 10/17/2018 04:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 0.05 |
| 10/17/2018 05:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 0.04 |
| 10/17/2018 06:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 4.34 |
| 10/17/2018 07:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 3.69 |
| 10/17/2018 08:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 1.9 |
| 10/17/2018 09:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 6.04 |
| 10/17/2018 10:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 6.5 |
| 10/17/2018 11:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 5.23 |
| 10/17/2018 12:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 2.52 |
| 10/17/2018 13:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 2.79 |
| 10/17/2018 14:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 1.58 |
| 10/17/2018 18:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 2.13 |
| 10/17/2018 19:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 2.1 |
| 10/17/2018 20:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 3.96 |
| 10/17/2018 21:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 0.55 |
| 10/17/2018 18:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -2.76 |
| 10/17/2018 19:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -0.2 |
| 10/17/2018 20:00 | EDT | SCH - NE - NY | 23318 | BASE CASE | -1.13 |
| 10/17/2018 00:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 15.12 |
| 10/17/2018 01:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 24.41 |
| 10/17/2018 02:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 21.14 |
| 10/17/2018 03:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 28.45 |
| 10/17/2018 04:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 17.98 |
| 10/17/2018 05:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 20.55 |
| 10/17/2018 06:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 5.55 |
| 10/17/2018 07:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 9.36 |
| 10/17/2018 08:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 12.18 |
| 10/17/2018 12:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 0.33 |
| 10/17/2018 13:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 6.87 |
| 10/17/2018 14:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 9.92 |
| 10/17/2018 15:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 14.3 |
| 10/17/2018 16:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 18.5 |
| 10/17/2018 17:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 23.43 |
| 10/17/2018 18:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 11.86 |
| 10/17/2018 19:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 15.72 |
| 10/17/2018 20:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 6.99 |
| 10/17/2018 21:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 15.99 |
| 10/17/2018 22:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 13.99 |
| 10/17/2018 23:00 | EDT | CENTRAL EAST - VC | 23330 | BASE CASE | 21.11 |
| 10/17/2018 09:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.02 |
| 10/17/2018 10:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.02 |
| 10/17/2018 11:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.02 |
| 10/17/2018 12:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.02 |
| 10/17/2018 13:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.02 |
| 10/17/2018 14:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.02 |
| 10/17/2018 15:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.02 |
| 10/17/2018 16:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.02 |
| 10/17/2018 17:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.02 |
| 10/17/2018 20:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.25 |
| 10/17/2018 00:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |
| 10/17/2018 09:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |
| 10/17/2018 10:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |
| 10/17/2018 11:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |
| 10/17/2018 12:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |
| 10/17/2018 13:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |
| 10/17/2018 14:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |
| 10/17/2018 15:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |
| 10/17/2018 16:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |
| 10/17/2018 17:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |
| 10/17/2018 20:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.49 |
| 10/17/2018 23:00 | EDT | RAINEY 138 VERNON 138 1 | 25297 | BASE CASE | 0.02 |
| 10/17/2018 12:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 0.82 |

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|------------------|-----|-----------------------------|--------|-------------------------|--------|
| 10/17/2018 22:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 1.62 |
| 10/17/2018 00:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 22.41 |
| 10/17/2018 01:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 21.69 |
| 10/17/2018 02:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 19.39 |
| 10/17/2018 06:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 27.5 |
| 10/17/2018 07:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 29.78 |
| 10/17/2018 08:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 21.63 |
| 10/17/2018 09:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 40.01 |
| 10/17/2018 10:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 36.08 |
| 10/17/2018 11:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 32.15 |
| 10/17/2018 12:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 28.33 |
| 10/17/2018 13:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 29.87 |
| 10/17/2018 14:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 46.4 |
| 10/17/2018 16:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 30.68 |
| 10/17/2018 17:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 56.33 |
| 10/17/2018 18:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 59.56 |
| 10/17/2018 19:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 61.21 |
| 10/17/2018 20:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 40.42 |
| 10/17/2018 21:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 41.16 |
| 10/17/2018 22:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 13.98 |
| 10/17/2018 23:00 | EDT | BROWNFLS 115 TAYLORVL 115 2 | 26077 | BROWNFLS-TAYLORVL_115_3 | 37.81 |
| 10/17/2018 00:00 | EDT | ADIRNDCK 230 PORTER 230 1 | 25082 | CHASLAKE-PORTER__230_11 | 12.38 |
| 10/17/2018 03:00 | EDT | ADIRNDCK 230 PORTER 230 1 | 25082 | CHASLAKE-PORTER__230_11 | 7.83 |
| 10/17/2018 04:00 | EDT | ADIRNDCK 230 PORTER 230 1 | 25082 | CHASLAKE-PORTER__230_11 | 15.39 |
| 10/17/2018 05:00 | EDT | ADIRNDCK 230 PORTER 230 1 | 25082 | CHASLAKE-PORTER__230_11 | 13.14 |
| 10/17/2018 14:00 | EDT | ADIRNDCK 230 PORTER 230 1 | 25082 | CHASLAKE-PORTER__230_11 | 0.59 |
| 10/17/2018 15:00 | EDT | ADIRNDCK 230 PORTER 230 1 | 25082 | CHASLAKE-PORTER__230_11 | 31.38 |
| 10/17/2018 16:00 | EDT | ADIRNDCK 230 PORTER 230 1 | 25082 | CHASLAKE-PORTER__230_11 | 19.03 |
| 10/17/2018 09:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | MTN:GOE 6 O/S SB 6 GOW | 0.02 |
| 10/17/2018 10:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | MTN:GOE 6 O/S SB 6 GOW | 0.02 |
| 10/17/2018 11:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | MTN:GOE 6 O/S SB 6 GOW | 0.02 |
| 10/17/2018 12:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | MTN:GOE 6 O/S SB 6 GOW | 0.02 |
| 10/17/2018 13:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | MTN:GOE 6 O/S SB 6 GOW | 0.02 |
| 10/17/2018 14:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | MTN:GOE 6 O/S SB 6 GOW | 0.02 |
| 10/17/2018 15:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | MTN:GOE 6 O/S SB 6 GOW | 0.02 |
| 10/17/2018 16:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | MTN:GOE 6 O/S SB 6 GOW | 0.02 |
| 10/17/2018 17:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | MTN:GOE 6 O/S SB 6 GOW | 0.02 |
| 10/17/2018 19:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | MTN:GOE 6 O/S SB 6 GOW | 3.78 |
| 10/17/2018 20:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | MTN:GOE 6 O/S SB 6 GOW | 5.49 |
| 10/17/2018 19:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | MTN:GOE 6 O/S SB 6 GOW | -8.17 |
| 10/17/2018 20:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | MTN:GOE 6 O/S SB 6 GOW | -10.47 |
| 10/17/2018 00:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 3.04 |
| 10/17/2018 01:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 3.25 |
| 10/17/2018 02:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 5.91 |
| 10/17/2018 03:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 5.66 |
| 10/17/2018 04:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 4.9 |
| 10/17/2018 05:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 1.74 |
| 10/17/2018 06:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 5.07 |
| 10/17/2018 07:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 3.97 |
| 10/17/2018 08:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 4.02 |
| 10/17/2018 09:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 4.73 |
| 10/17/2018 10:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 6.26 |
| 10/17/2018 11:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 5.52 |
| 10/17/2018 12:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 6.38 |
| 10/17/2018 13:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 4.43 |
| 10/17/2018 14:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 4.9 |
| 10/17/2018 15:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 5.12 |
| 10/17/2018 16:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 7.42 |
| 10/17/2018 17:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 6.14 |
| 10/17/2018 18:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 11.15 |
| 10/17/2018 19:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 6.62 |
| 10/17/2018 20:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 7.21 |
| 10/17/2018 21:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 6.22 |
| 10/17/2018 22:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 10.66 |
| 10/17/2018 23:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE | 5.86 |