

# Day Ahead Limiting Constraints

| Time Stamp       | Time Zone | Limiting Facility           | Facility PTID | Contingency           | Constraint Cost (\$) |
|------------------|-----------|-----------------------------|---------------|-----------------------|----------------------|
| 06/20/2016 02:00 | EDT       | CENTRAL EAST - VC           | 23330         | BASE CASE             | 0.1                  |
| 06/20/2016 03:00 | EDT       | CENTRAL EAST - VC           | 23330         | BASE CASE             | 0.08                 |
| 06/20/2016 13:00 | EDT       | GOETHALS 345 GOWANUS 345 1  | 25139         | BASE CASE             | 1.38                 |
| 06/20/2016 16:00 | EDT       | GOETHALS 345 GOWANUS 345 1  | 25139         | BASE CASE             | 9.83                 |
| 06/20/2016 10:00 | EDT       | E179THST 138 HELLP_W 138 1  | 25288         | BASE CASE             | 0.05                 |
| 06/20/2016 12:00 | EDT       | E179THST 138 HELLP_W 138 1  | 25288         | BASE CASE             | 3.23                 |
| 06/20/2016 13:00 | EDT       | E179THST 138 HELLP_W 138 1  | 25288         | BASE CASE             | 0.03                 |
| 06/20/2016 00:00 | EDT       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE             | 0.02                 |
| 06/20/2016 01:00 | EDT       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE             | 0.02                 |
| 06/20/2016 02:00 | EDT       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE             | 0.02                 |
| 06/20/2016 03:00 | EDT       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE             | 0.02                 |
| 06/20/2016 04:00 | EDT       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE             | 0.02                 |
| 06/20/2016 10:00 | EDT       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE             | 0.09                 |
| 06/20/2016 11:00 | EDT       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE             | 0.02                 |
| 06/20/2016 12:00 | EDT       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE             | 6.49                 |
| 06/20/2016 13:00 | EDT       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE             | 0.05                 |
| 06/20/2016 22:00 | EDT       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE             | 0.02                 |
| 06/20/2016 23:00 | EDT       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE             | 0.02                 |
| 06/20/2016 07:00 | EDT       | FRESHKLS 138 WILLWBRK 138 1 | 25319         | BASE CASE             | 0.02                 |
| 06/20/2016 10:00 | EDT       | FRESHKLS 138 WILLWBRK 138 1 | 25319         | BASE CASE             | 0.04                 |
| 06/20/2016 11:00 | EDT       | FRESHKLS 138 WILLWBRK 138 1 | 25319         | BASE CASE             | 0.03                 |
| 06/20/2016 12:00 | EDT       | FRESHKLS 138 WILLWBRK 138 1 | 25319         | BASE CASE             | 31.97                |
| 06/20/2016 13:00 | EDT       | FRESHKLS 138 WILLWBRK 138 1 | 25319         | BASE CASE             | 1.71                 |
| 06/20/2016 14:00 | EDT       | FRESHKLS 138 WILLWBRK 138 1 | 25319         | BASE CASE             | 7.31                 |
| 06/20/2016 15:00 | EDT       | FRESHKLS 138 WILLWBRK 138 1 | 25319         | BASE CASE             | 8.24                 |
| 06/20/2016 16:00 | EDT       | FRESHKLS 138 WILLWBRK 138 1 | 25319         | BASE CASE             | 9.95                 |
| 06/20/2016 17:00 | EDT       | FRESHKLS 138 WILLWBRK 138 1 | 25319         | BASE CASE             | 12.55                |
| 06/20/2016 18:00 | EDT       | FRESHKLS 138 WILLWBRK 138 1 | 25319         | BASE CASE             | 3.08                 |
| 06/20/2016 19:00 | EDT       | FRESHKLS 138 WILLWBRK 138 1 | 25319         | BASE CASE             | 0.09                 |
| 06/20/2016 20:00 | EDT       | FRESHKLS 138 WILLWBRK 138 1 | 25319         | BASE CASE             | 0.09                 |
| 06/20/2016 21:00 | EDT       | FRESHKLS 138 WILLWBRK 138 1 | 25319         | BASE CASE             | 0.03                 |
| 06/20/2016 15:00 | EDT       | GREENWD 138 VERNON 138 1    | 25337         | BASE CASE             | -3.88                |
| 06/20/2016 16:00 | EDT       | GREENWD 138 VERNON 138 1    | 25337         | BASE CASE             | -0.08                |
| 06/20/2016 17:00 | EDT       | GREENWD 138 VERNON 138 1    | 25337         | BASE CASE             | -0.08                |
| 06/20/2016 18:00 | EDT       | GREENWD 138 VERNON 138 1    | 25337         | BASE CASE             | -0.08                |
| 06/20/2016 19:00 | EDT       | GREENWD 138 VERNON 138 1    | 25337         | BASE CASE             | -0.08                |
| 06/20/2016 20:00 | EDT       | GREENWD 138 VERNON 138 1    | 25337         | BASE CASE             | -0.08                |
| 06/20/2016 21:00 | EDT       | GREENWD 138 VERNON 138 1    | 25337         | BASE CASE             | -0.02                |
| 06/20/2016 14:00 | EDT       | GOETHALS 345 GOWANUS 345 2  | 25571         | BASE CASE             | 7.26                 |
| 06/20/2016 15:00 | EDT       | GOETHALS 345 GOWANUS 345 2  | 25571         | BASE CASE             | 4.32                 |
| 06/20/2016 17:00 | EDT       | GOETHALS 345 GOWANUS 345 2  | 25571         | BASE CASE             | 12.42                |
| 06/20/2016 18:00 | EDT       | GOETHALS 345 GOWANUS 345 2  | 25571         | BASE CASE             | 2.98                 |
| 06/20/2016 13:00 | EDT       | SCH - NPX_1385              | 325277        | BASE CASE             | 0.7                  |
| 06/20/2016 15:00 | EDT       | SCH - NPX_1385              | 325277        | BASE CASE             | 4.29                 |
| 06/20/2016 16:00 | EDT       | SCH - NPX_1385              | 325277        | BASE CASE             | 4.27                 |
| 06/20/2016 17:00 | EDT       | SCH - NPX_1385              | 325277        | BASE CASE             | 9.23                 |
| 06/20/2016 18:00 | EDT       | SCH - NPX_1385              | 325277        | BASE CASE             | 0.59                 |
| 06/20/2016 20:00 | EDT       | SCH - NPX_1385              | 325277        | BASE CASE             | 4.03                 |
| 06/20/2016 21:00 | EDT       | HQTL ACTIVE DNI             | 980           | ACTIVE DNI            | -28.81               |
| 06/20/2016 00:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 1.08                 |
| 06/20/2016 06:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 2.56                 |
| 06/20/2016 07:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 1.93                 |
| 06/20/2016 08:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 2.31                 |
| 06/20/2016 09:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 1.05                 |
| 06/20/2016 12:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 3.9                  |
| 06/20/2016 13:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 2.76                 |
| 06/20/2016 15:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 2.46                 |
| 06/20/2016 17:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 10.03                |
| 06/20/2016 18:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 2.45                 |
| 06/20/2016 19:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 3.0                  |
| 06/20/2016 20:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 8.16                 |
| 06/20/2016 21:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 5.28                 |
| 06/20/2016 22:00 | EDT       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | NEPTUNE HVDC TIE LINE | 2.41                 |

|                  |     |                             |       |                               |        |
|------------------|-----|-----------------------------|-------|-------------------------------|--------|
| 06/20/2016 23:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE         | 2.26   |
| 06/20/2016 12:00 | EDT | GREENWD 138 VERNON 138 1    | 25337 | SCB:GOWANUS(22):42231&G27&BEC | -25.38 |
| 06/20/2016 13:00 | EDT | GREENWD 138 VERNON 138 1    | 25337 | SCB:GOWANUS(22):42231&G27&BEC | -0.27  |
| 06/20/2016 14:00 | EDT | GREENWD 138 VERNON 138 1    | 25337 | SCB:GOWANUS(22):42231&G27&BEC | -0.02  |
| 06/20/2016 10:00 | EDT | SCRIBA 345 VOLNEY 345 1     | 25204 | SCRIBA__VOLNEY__345_21        | 2.34   |
| 06/20/2016 11:00 | EDT | SCRIBA 345 VOLNEY 345 1     | 25204 | SCRIBA__VOLNEY__345_21        | 4.41   |
| 06/20/2016 15:00 | EDT | SCRIBA 345 VOLNEY 345 1     | 25204 | SCRIBA__VOLNEY__345_21        | 6.67   |
| 06/20/2016 19:00 | EDT | SCRIBA 345 VOLNEY 345 1     | 25204 | SCRIBA__VOLNEY__345_21        | 11.68  |
| 06/20/2016 21:00 | EDT | SCRIBA 345 VOLNEY 345 1     | 25204 | SCRIBA__VOLNEY__345_21        | 3.0    |
| 06/20/2016 10:00 | EDT | GOWANUS 138 GREENWD 138 1   | 25214 | TWR:GOETHALS 22 & 21          | 0.27   |
| 06/20/2016 10:00 | EDT | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 0.27   |
| 06/20/2016 10:00 | EDT | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -0.43  |
| 06/20/2016 06:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 10.39  |
| 06/20/2016 07:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 62.89  |
| 06/20/2016 08:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 93.61  |
| 06/20/2016 09:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 133.26 |
| 06/20/2016 10:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 204.73 |
| 06/20/2016 11:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 245.98 |
| 06/20/2016 12:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 251.45 |
| 06/20/2016 13:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 315.98 |
| 06/20/2016 14:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 335.1  |
| 06/20/2016 15:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 345.02 |
| 06/20/2016 16:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 309.1  |
| 06/20/2016 17:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 271.33 |
| 06/20/2016 18:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 171.44 |
| 06/20/2016 19:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 121.08 |
| 06/20/2016 20:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 74.33  |
| 06/20/2016 21:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 68.29  |
| 06/20/2016 22:00 | EDT | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 27.68  |
| 06/20/2016 08:00 | EDT | GARDNVLA 230 STOLLERD 230 1 | 25180 | TWR:PACKARD 77 & 78           | -57.12 |
| 06/20/2016 10:00 | EDT | GARDNVLA 230 STOLLERD 230 1 | 25180 | TWR:PACKARD 77 & 78           | -32.54 |
| 06/20/2016 11:00 | EDT | GARDNVLA 230 STOLLERD 230 1 | 25180 | TWR:PACKARD 77 & 78           | -15.44 |
| 06/20/2016 17:00 | EDT | GARDNVLA 230 STOLLERD 230 1 | 25180 | TWR:PACKARD 77 & 78           | -6.76  |
| 06/20/2016 19:00 | EDT | GARDNVLA 230 STOLLERD 230 1 | 25180 | TWR:PACKARD 77 & 78           | -25.25 |
| 06/20/2016 20:00 | EDT | GARDNVLA 230 STOLLERD 230 1 | 25180 | TWR:PACKARD 77 & 78           | -47.73 |
| 06/20/2016 21:00 | EDT | GARDNVLA 230 STOLLERD 230 1 | 25180 | TWR:PACKARD 77 & 78           | -65.56 |
| 06/20/2016 22:00 | EDT | GARDNVLA 230 STOLLERD 230 1 | 25180 | TWR:PACKARD 77 & 78           | -74.31 |