

# Day Ahead Limiting Constraints

| Time Stamp       | Time Zone | Limiting Facility           | Facility PTID | Contingency | Constraint Cost (\$) |
|------------------|-----------|-----------------------------|---------------|-------------|----------------------|
| 11/06/2016 07:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -0.68                |
| 11/06/2016 00:00 | EDT       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 4.51                 |
| 11/06/2016 01:00 | EDT       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 3.14                 |
| 11/06/2016 01:00 | EST       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 3.82                 |
| 11/06/2016 02:00 | EST       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 3.15                 |
| 11/06/2016 03:00 | EST       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 1.24                 |
| 11/06/2016 04:00 | EST       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 1.27                 |
| 11/06/2016 05:00 | EST       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 0.51                 |
| 11/06/2016 06:00 | EST       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 0.34                 |
| 11/06/2016 09:00 | EST       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 1.52                 |
| 11/06/2016 10:00 | EST       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 0.03                 |
| 11/06/2016 11:00 | EST       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 1.55                 |
| 11/06/2016 23:00 | EST       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 3.72                 |
| 11/06/2016 01:00 | EST       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | BASE CASE   | 0.33                 |
| 11/06/2016 03:00 | EST       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | BASE CASE   | 0.11                 |
| 11/06/2016 04:00 | EST       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | BASE CASE   | 0.12                 |
| 11/06/2016 05:00 | EST       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | BASE CASE   | 0.14                 |
| 11/06/2016 07:00 | EST       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | BASE CASE   | 0.47                 |
| 11/06/2016 10:00 | EST       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | BASE CASE   | 0.27                 |
| 11/06/2016 00:00 | EDT       | TREMONT 345 SPRNBRK 345 1   | 25175         | BASE CASE   | -0.06                |
| 11/06/2016 09:00 | EST       | TREMONT 345 SPRNBRK 345 1   | 25175         | BASE CASE   | -0.16                |
| 11/06/2016 10:00 | EST       | TREMONT 345 SPRNBRK 345 1   | 25175         | BASE CASE   | -0.12                |
| 11/06/2016 12:00 | EST       | TREMONT 345 SPRNBRK 345 1   | 25175         | BASE CASE   | -0.25                |
| 11/06/2016 13:00 | EST       | TREMONT 345 SPRNBRK 345 1   | 25175         | BASE CASE   | -0.06                |
| 11/06/2016 14:00 | EST       | TREMONT 345 SPRNBRK 345 1   | 25175         | BASE CASE   | -0.09                |
| 11/06/2016 15:00 | EST       | TREMONT 345 SPRNBRK 345 1   | 25175         | BASE CASE   | -0.06                |
| 11/06/2016 21:00 | EST       | TREMONT 345 SPRNBRK 345 1   | 25175         | BASE CASE   | -0.02                |
| 11/06/2016 00:00 | EDT       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 0.98                 |
| 11/06/2016 01:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 0.87                 |
| 11/06/2016 02:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 0.03                 |
| 11/06/2016 03:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 0.31                 |
| 11/06/2016 04:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 0.34                 |
| 11/06/2016 05:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 0.38                 |
| 11/06/2016 06:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 1.69                 |
| 11/06/2016 07:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 2.64                 |
| 11/06/2016 08:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 0.15                 |
| 11/06/2016 09:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 1.23                 |
| 11/06/2016 10:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 6.04                 |
| 11/06/2016 11:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 0.78                 |
| 11/06/2016 12:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 1.85                 |
| 11/06/2016 13:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 0.54                 |
| 11/06/2016 14:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 0.8                  |
| 11/06/2016 15:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 7.69                 |
| 11/06/2016 16:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 19.06                |
| 11/06/2016 17:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 18.33                |
| 11/06/2016 18:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 30.08                |
| 11/06/2016 19:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 11.67                |
| 11/06/2016 20:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 5.88                 |
| 11/06/2016 21:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 0.59                 |
| 11/06/2016 22:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 0.5                  |
| 11/06/2016 23:00 | EST       | EGRDNCTY 138 VALLYSTR 138 1 | 25244         | BASE CASE   | 0.12                 |
| 11/06/2016 09:00 | EST       | E179THST 138 DUNWOODS 138 1 | 25287         | BASE CASE   | -0.02                |
| 11/06/2016 12:00 | EST       | E179THST 138 DUNWOODS 138 1 | 25287         | BASE CASE   | -0.04                |
| 11/06/2016 22:00 | EST       | E179THST 138 DUNWOODS 138 1 | 25287         | BASE CASE   | -0.02                |
| 11/06/2016 00:00 | EDT       | E179THST 138 HELLTP_W 138 1 | 25288         | BASE CASE   | 0.02                 |
| 11/06/2016 08:00 | EST       | E179THST 138 HELLTP_W 138 1 | 25288         | BASE CASE   | 0.02                 |
| 11/06/2016 09:00 | EST       | E179THST 138 HELLTP_W 138 1 | 25288         | BASE CASE   | 0.09                 |
| 11/06/2016 10:00 | EST       | E179THST 138 HELLTP_W 138 1 | 25288         | BASE CASE   | 0.07                 |
| 11/06/2016 11:00 | EST       | E179THST 138 HELLTP_W 138 1 | 25288         | BASE CASE   | 0.07                 |
| 11/06/2016 12:00 | EST       | E179THST 138 HELLTP_W 138 1 | 25288         | BASE CASE   | 0.14                 |
| 11/06/2016 13:00 | EST       | E179THST 138 HELLTP_W 138 1 | 25288         | BASE CASE   | 0.04                 |
| 11/06/2016 14:00 | EST       | E179THST 138 HELLTP_W 138 1 | 25288         | BASE CASE   | 0.06                 |
| 11/06/2016 15:00 | EST       | E179THST 138 HELLTP_W 138 1 | 25288         | BASE CASE   | 0.04                 |

|                  |     |                             |       |                                |       |
|------------------|-----|-----------------------------|-------|--------------------------------|-------|
| 11/06/2016 22:00 | EST | E179THST 138 HELLTP_W 138 1 | 25288 | BASE CASE                      | 0.09  |
| 11/06/2016 08:00 | EST | E179THST 138 HELLGT_E 138 1 | 25289 | BASE CASE                      | 0.02  |
| 11/06/2016 09:00 | EST | E179THST 138 HELLGT_E 138 1 | 25289 | BASE CASE                      | 0.19  |
| 11/06/2016 00:00 | EDT | E179THST 138 HELLGT_E 138 1 | 25290 | BASE CASE                      | 0.03  |
| 11/06/2016 22:00 | EST | E179THST 138 HELLGT_E 138 1 | 25290 | BASE CASE                      | 0.18  |
| 11/06/2016 10:00 | EST | HUDS_AVE 138 JAMAICA 138 1  | 25294 | BASE CASE                      | -0.07 |
| 11/06/2016 11:00 | EST | HUDS_AVE 138 JAMAICA 138 1  | 25294 | BASE CASE                      | -0.07 |
| 11/06/2016 12:00 | EST | HUDS_AVE 138 JAMAICA 138 1  | 25294 | BASE CASE                      | -0.14 |
| 11/06/2016 13:00 | EST | HUDS_AVE 138 JAMAICA 138 1  | 25294 | BASE CASE                      | -0.04 |
| 11/06/2016 14:00 | EST | HUDS_AVE 138 JAMAICA 138 1  | 25294 | BASE CASE                      | -0.06 |
| 11/06/2016 15:00 | EST | HUDS_AVE 138 JAMAICA 138 1  | 25294 | BASE CASE                      | -0.04 |
| 11/06/2016 12:00 | EST | RAINEY 138 VERNON 138 1     | 25297 | BASE CASE                      | 0.02  |
| 11/06/2016 17:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BUS:BARRETT 291 & G1 & R1      | 29.63 |
| 11/06/2016 16:00 | EST | LEEDS 345 N.SCTLND 345 1    | 25171 | MTN:LEED R395 OR R94301 O/S UP | -9.57 |
| 11/06/2016 21:00 | EST | LEEDS 345 N.SCTLND 345 1    | 25171 | MTN:LEED R395 OR R94301 O/S UP | -3.84 |
| 11/06/2016 06:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE          | 0.29  |
| 11/06/2016 15:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE          | 1.33  |
| 11/06/2016 16:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE          | 3.52  |
| 11/06/2016 17:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE          | 8.65  |
| 11/06/2016 18:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE          | 5.58  |
| 11/06/2016 19:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE          | 2.16  |
| 11/06/2016 20:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | NEPTUNE HVDC TIE LINE          | 1.07  |
| 11/06/2016 06:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 4.22  |
| 11/06/2016 07:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 6.59  |
| 11/06/2016 08:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 0.39  |
| 11/06/2016 09:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 3.09  |
| 11/06/2016 10:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 15.07 |
| 11/06/2016 11:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 1.96  |
| 11/06/2016 12:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 4.64  |
| 11/06/2016 13:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 1.36  |
| 11/06/2016 14:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 2.01  |
| 11/06/2016 15:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 19.18 |
| 11/06/2016 16:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 47.49 |
| 11/06/2016 17:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 118.3 |
| 11/06/2016 18:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 74.94 |
| 11/06/2016 19:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 29.07 |
| 11/06/2016 20:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 14.68 |
| 11/06/2016 21:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 1.5   |
| 11/06/2016 23:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | NEPTUNE HVDC TIE LINE          | 0.28  |
| 11/06/2016 00:00 | EDT | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | SCB:EGDNCTY(1330)262&467&BK2   | 3.79  |
| 11/06/2016 01:00 | EDT | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | SCB:EGDNCTY(1330)262&467&BK2   | 0.04  |
| 11/06/2016 01:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | SCB:EGDNCTY(1330)262&467&BK2   | 3.37  |
| 11/06/2016 02:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | SCB:EGDNCTY(1330)262&467&BK2   | 0.15  |
| 11/06/2016 03:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | SCB:EGDNCTY(1330)262&467&BK2   | 1.22  |
| 11/06/2016 04:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | SCB:EGDNCTY(1330)262&467&BK2   | 1.34  |
| 11/06/2016 05:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | SCB:EGDNCTY(1330)262&467&BK2   | 1.49  |
| 11/06/2016 22:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303 | SCB:EGDNCTY(1330)262&467&BK2   | 1.95  |
| 11/06/2016 00:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPNBK(RNS2):Y49&M29&Y49_ST | 0.7   |
| 11/06/2016 10:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPNBK(RNS2):Y49&M29&Y49_ST | 1.49  |
| 11/06/2016 21:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPNBK(RNS2):Y49&M29&Y49_ST | 0.21  |
| 11/06/2016 11:00 | EST | TREMONT 138 TREMONT 138 1   | 25649 | SCB:SPNBK(RNS2):Y49&M29&Y49_ST | -0.11 |
| 11/06/2016 22:00 | EST | TREMONT 138 TREMONT 138 1   | 25649 | SCB:SPNBK(RNS2):Y49&M29&Y49_ST | -0.15 |
| 11/06/2016 11:00 | EST | TREMONT 138 TREMONT 138 1   | 25650 | SCB:SPNBK(RNS2):Y49&M29&Y49_ST | -0.11 |
| 11/06/2016 22:00 | EST | TREMONT 138 TREMONT 138 1   | 25650 | SCB:SPNBK(RNS2):Y49&M29&Y49_ST | -0.15 |
| 11/06/2016 00:00 | EDT | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.11 |
| 11/06/2016 06:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.02 |
| 11/06/2016 07:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.02 |
| 11/06/2016 08:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.03 |
| 11/06/2016 09:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.36 |
| 11/06/2016 10:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.28 |
| 11/06/2016 11:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.26 |
| 11/06/2016 12:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.54 |
| 11/06/2016 13:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.15 |
| 11/06/2016 14:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.23 |
| 11/06/2016 15:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.15 |
| 11/06/2016 16:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.02 |
| 11/06/2016 20:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.02 |
| 11/06/2016 21:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.04 |
| 11/06/2016 22:00 | EST | W49TH_ST 345 SPRNBRK 345 1  | 25223 | SCB:SPNBK(RS3):W75&99941       | -0.35 |

|                  |     |                            |       |                          |       |
|------------------|-----|----------------------------|-------|--------------------------|-------|
| 11/06/2016 23:00 | EST | W49TH_ST 345 SPRNBRK 345 1 | 25223 | SCB:SPNBK(RS3):W75&99941 | -0.02 |
|------------------|-----|----------------------------|-------|--------------------------|-------|