

# Day Ahead Limiting Constraints

| Time Stamp       | Time Zone | Limiting Facility           | Facility PTID | Contingency | Constraint Cost (\$) |
|------------------|-----------|-----------------------------|---------------|-------------|----------------------|
| 01/30/2020 00:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -2.64                |
| 01/30/2020 01:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -4.23                |
| 01/30/2020 02:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -4.67                |
| 01/30/2020 03:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -5.55                |
| 01/30/2020 04:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -5.83                |
| 01/30/2020 05:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -4.43                |
| 01/30/2020 06:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -5.03                |
| 01/30/2020 07:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -2.81                |
| 01/30/2020 08:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -0.59                |
| 01/30/2020 15:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -0.2                 |
| 01/30/2020 16:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -1.91                |
| 01/30/2020 17:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -3.79                |
| 01/30/2020 18:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -1.12                |
| 01/30/2020 19:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -0.74                |
| 01/30/2020 20:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -0.05                |
| 01/30/2020 21:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -0.02                |
| 01/30/2020 22:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -0.8                 |
| 01/30/2020 23:00 | EST       | SCH - NE - NY               | 23318         | BASE CASE   | -3.68                |
| 01/30/2020 00:00 | EST       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 0.61                 |
| 01/30/2020 05:00 | EST       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 0.02                 |
| 01/30/2020 23:00 | EST       | CENTRAL EAST - VC           | 23330         | BASE CASE   | 1.75                 |
| 01/30/2020 02:00 | EST       | DUNWODIE 345 SHORE_RD 345 1 | 25091         | BASE CASE   | 0.99                 |
| 01/30/2020 12:00 | EST       | E179THST 138 SHERMCRK 138 1 | 25156         | BASE CASE   | -0.08                |
| 01/30/2020 13:00 | EST       | E179THST 138 SHERMCRK 138 1 | 25156         | BASE CASE   | -0.08                |
| 01/30/2020 10:00 | EST       | E179THST 138 SHERMCRK 138 2 | 25157         | BASE CASE   | -0.05                |
| 01/30/2020 11:00 | EST       | E179THST 138 SHERMCRK 138 2 | 25157         | BASE CASE   | -0.09                |
| 01/30/2020 14:00 | EST       | E179THST 138 SHERMCRK 138 2 | 25157         | BASE CASE   | -0.14                |
| 01/30/2020 22:00 | EST       | E179THST 138 SHERMCRK 138 2 | 25157         | BASE CASE   | -0.09                |
| 01/30/2020 07:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 0.32                 |
| 01/30/2020 08:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 0.94                 |
| 01/30/2020 09:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 2.97                 |
| 01/30/2020 10:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 2.92                 |
| 01/30/2020 11:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 3.5                  |
| 01/30/2020 12:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 3.14                 |
| 01/30/2020 13:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 4.51                 |
| 01/30/2020 14:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 4.3                  |
| 01/30/2020 15:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 3.35                 |
| 01/30/2020 16:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 2.36                 |
| 01/30/2020 17:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 0.71                 |
| 01/30/2020 19:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 0.97                 |
| 01/30/2020 20:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 0.1                  |
| 01/30/2020 21:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 0.12                 |
| 01/30/2020 22:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 2.68                 |
| 01/30/2020 23:00 | EST       | E179THST 138 HELLGATE 138 1 | 25288         | BASE CASE   | 0.03                 |
| 01/30/2020 13:00 | EST       | E179THST 138 HELLGATE 138 1 | 25289         | BASE CASE   | 5.23                 |
| 01/30/2020 15:00 | EST       | E179THST 138 HELLGATE 138 1 | 25289         | BASE CASE   | 1.87                 |
| 01/30/2020 22:00 | EST       | E179THST 138 HELLGATE 138 1 | 25289         | BASE CASE   | 4.06                 |
| 01/30/2020 09:00 | EST       | E179THST 138 HELLGATE 138 1 | 25290         | BASE CASE   | 0.96                 |
| 01/30/2020 10:00 | EST       | E179THST 138 HELLGATE 138 1 | 25290         | BASE CASE   | 2.63                 |
| 01/30/2020 11:00 | EST       | E179THST 138 HELLGATE 138 1 | 25290         | BASE CASE   | 4.25                 |
| 01/30/2020 12:00 | EST       | E179THST 138 HELLGATE 138 1 | 25290         | BASE CASE   | 3.57                 |
| 01/30/2020 14:00 | EST       | E179THST 138 HELLGATE 138 1 | 25290         | BASE CASE   | 5.48                 |
| 01/30/2020 00:00 | EST       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE   | 0.02                 |
| 01/30/2020 06:00 | EST       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE   | 0.02                 |
| 01/30/2020 07:00 | EST       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE   | 0.66                 |
| 01/30/2020 08:00 | EST       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE   | 1.87                 |
| 01/30/2020 09:00 | EST       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE   | 4.76                 |
| 01/30/2020 10:00 | EST       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE   | 2.53                 |
| 01/30/2020 11:00 | EST       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE   | 1.66                 |
| 01/30/2020 12:00 | EST       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE   | 1.81                 |
| 01/30/2020 13:00 | EST       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE   | 2.47                 |
| 01/30/2020 14:00 | EST       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE   | 1.72                 |
| 01/30/2020 15:00 | EST       | RAINEY 138 VERNON 138 1     | 25297         | BASE CASE   | 4.36                 |

|                  |     |                             |        |                               |       |
|------------------|-----|-----------------------------|--------|-------------------------------|-------|
| 01/30/2020 16:00 | EST | RAINEY 138 VERNON 138 1     | 25297  | BASE CASE                     | 4.7   |
| 01/30/2020 17:00 | EST | RAINEY 138 VERNON 138 1     | 25297  | BASE CASE                     | 1.41  |
| 01/30/2020 19:00 | EST | RAINEY 138 VERNON 138 1     | 25297  | BASE CASE                     | 1.94  |
| 01/30/2020 20:00 | EST | RAINEY 138 VERNON 138 1     | 25297  | BASE CASE                     | 0.17  |
| 01/30/2020 21:00 | EST | RAINEY 138 VERNON 138 1     | 25297  | BASE CASE                     | 0.15  |
| 01/30/2020 22:00 | EST | RAINEY 138 VERNON 138 1     | 25297  | BASE CASE                     | 0.25  |
| 01/30/2020 13:00 | EST | FRESHKLS 138 WILLWRK 138 1  | 25319  | BASE CASE                     | 1.49  |
| 01/30/2020 01:00 | EST | SCH - NPX_1385              | 325277 | BASE CASE                     | -0.57 |
| 01/30/2020 02:00 | EST | SCH - NPX_1385              | 325277 | BASE CASE                     | -0.67 |
| 01/30/2020 03:00 | EST | SCH - NPX_1385              | 325277 | BASE CASE                     | -1.55 |
| 01/30/2020 04:00 | EST | SCH - NPX_1385              | 325277 | BASE CASE                     | -1.58 |
| 01/30/2020 05:00 | EST | SCH - NPX_1385              | 325277 | BASE CASE                     | -0.87 |
| 01/30/2020 07:00 | EST | SCH - NPX_1385              | 325277 | BASE CASE                     | -1.34 |
| 01/30/2020 11:00 | EST | MOTTHAVN 345 DUNWODIE 345 1 | 25151  | DUNWODIE-MOTTHAVN_345_72      | -0.21 |
| 01/30/2020 13:00 | EST | MOTTHAVN 345 DUNWODIE 345 1 | 25151  | DUNWODIE-MOTTHAVN_345_72      | -1.08 |
| 01/30/2020 05:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -0.04 |
| 01/30/2020 08:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -0.04 |
| 01/30/2020 09:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -1.33 |
| 01/30/2020 10:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -3.68 |
| 01/30/2020 11:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -5.7  |
| 01/30/2020 12:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -4.98 |
| 01/30/2020 13:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -6.1  |
| 01/30/2020 14:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -7.66 |
| 01/30/2020 15:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -2.66 |
| 01/30/2020 16:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -0.32 |
| 01/30/2020 17:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -0.04 |
| 01/30/2020 18:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -0.04 |
| 01/30/2020 19:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -0.04 |
| 01/30/2020 20:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -0.04 |
| 01/30/2020 21:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -0.39 |
| 01/30/2020 22:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -5.67 |
| 01/30/2020 23:00 | EST | MOTTHAVN 345 DUNWODIE 345 2 | 25191  | MTN:DUNW 5 OR 6 O/S SB 4 OR 3 | -0.26 |
| 01/30/2020 00:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091  | NEPTUNE HVDC TIE LINE         | 1.13  |
| 01/30/2020 01:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091  | NEPTUNE HVDC TIE LINE         | 1.29  |
| 01/30/2020 04:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091  | NEPTUNE HVDC TIE LINE         | 1.26  |
| 01/30/2020 05:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091  | NEPTUNE HVDC TIE LINE         | 0.9   |
| 01/30/2020 07:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091  | NEPTUNE HVDC TIE LINE         | 0.39  |
| 01/30/2020 09:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091  | NEPTUNE HVDC TIE LINE         | 0.63  |
| 01/30/2020 20:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091  | NEPTUNE HVDC TIE LINE         | 2.27  |
| 01/30/2020 05:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303  | NEPTUNE HVDC TIE LINE         | 3.51  |
| 01/30/2020 06:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303  | NEPTUNE HVDC TIE LINE         | 3.82  |
| 01/30/2020 08:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303  | NEPTUNE HVDC TIE LINE         | 0.56  |
| 01/30/2020 22:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303  | NEPTUNE HVDC TIE LINE         | 3.04  |
| 01/30/2020 23:00 | EST | EGRDNCTY 138 NEWBRDGE 138 1 | 25303  | NEPTUNE HVDC TIE LINE         | 3.32  |
| 01/30/2020 00:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 13.55 |
| 01/30/2020 01:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 15.4  |
| 01/30/2020 02:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 11.84 |
| 01/30/2020 03:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 0.1   |
| 01/30/2020 04:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 15.05 |
| 01/30/2020 05:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 11.02 |
| 01/30/2020 06:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 9.75  |
| 01/30/2020 07:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 6.17  |
| 01/30/2020 08:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 8.62  |
| 01/30/2020 09:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 9.95  |
| 01/30/2020 10:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 6.8   |
| 01/30/2020 11:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 10.26 |
| 01/30/2020 12:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 9.09  |
| 01/30/2020 13:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 10.0  |
| 01/30/2020 14:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 9.78  |
| 01/30/2020 15:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 8.99  |
| 01/30/2020 16:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 4.08  |
| 01/30/2020 17:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 0.08  |
| 01/30/2020 18:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 16.86 |
| 01/30/2020 19:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 12.46 |
| 01/30/2020 20:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 28.74 |
| 01/30/2020 21:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 10.51 |
| 01/30/2020 22:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 9.02  |
| 01/30/2020 23:00 | EST | EGRDNCTY 138 VALLYSTR 138 1 | 25244  | SCB:NEWBRDG 1380 461&BK6+4    | 8.48  |
| 01/30/2020 05:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091  | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 0.25  |

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|------------------|-----|-----------------------------|-------|-------------------------------|--------|
| 01/30/2020 06:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 5.05   |
| 01/30/2020 07:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 0.25   |
| 01/30/2020 08:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.47   |
| 01/30/2020 15:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.15   |
| 01/30/2020 16:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.9    |
| 01/30/2020 17:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 3.15   |
| 01/30/2020 18:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 2.81   |
| 01/30/2020 19:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 2.05   |
| 01/30/2020 20:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 0.26   |
| 01/30/2020 21:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 2.3    |
| 01/30/2020 23:00 | EST | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 1.52   |
| 01/30/2020 06:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 17.74  |
| 01/30/2020 07:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 9.48   |
| 01/30/2020 08:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 6.54   |
| 01/30/2020 09:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 13.01  |
| 01/30/2020 10:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 13.95  |
| 01/30/2020 11:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 14.02  |
| 01/30/2020 12:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 10.96  |
| 01/30/2020 13:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 18.53  |
| 01/30/2020 14:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 16.66  |
| 01/30/2020 15:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 18.91  |
| 01/30/2020 16:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 16.91  |
| 01/30/2020 17:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 31.34  |
| 01/30/2020 18:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 26.14  |
| 01/30/2020 19:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 34.83  |
| 01/30/2020 20:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 12.18  |
| 01/30/2020 21:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 9.41   |
| 01/30/2020 22:00 | EST | GOWANUS 138 GREENWD 138 1   | 25215 | TWR:GOETHALS 22 & 21          | 17.54  |
| 01/30/2020 06:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -37.46 |
| 01/30/2020 07:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -18.3  |
| 01/30/2020 08:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -11.18 |
| 01/30/2020 09:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -21.0  |
| 01/30/2020 10:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -24.65 |
| 01/30/2020 11:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -25.25 |
| 01/30/2020 12:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -19.17 |
| 01/30/2020 13:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -33.23 |
| 01/30/2020 14:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -30.15 |
| 01/30/2020 15:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -32.94 |
| 01/30/2020 16:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -29.04 |
| 01/30/2020 17:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -62.56 |
| 01/30/2020 18:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -55.24 |
| 01/30/2020 19:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -68.59 |
| 01/30/2020 20:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -25.27 |
| 01/30/2020 21:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -19.27 |
| 01/30/2020 22:00 | EST | GREENWD 138 VERNON 138 1    | 25337 | TWR:GOETHALS 22 & 21          | -33.76 |
| 01/30/2020 06:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 1.44   |
| 01/30/2020 07:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 9.26   |
| 01/30/2020 08:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 0.06   |
| 01/30/2020 09:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 0.03   |
| 01/30/2020 10:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 6.53   |
| 01/30/2020 11:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 3.03   |
| 01/30/2020 12:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 1.55   |
| 01/30/2020 13:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 0.03   |
| 01/30/2020 15:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 0.78   |
| 01/30/2020 16:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 4.32   |
| 01/30/2020 17:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 7.05   |
| 01/30/2020 18:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 8.02   |
| 01/30/2020 19:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 4.04   |
| 01/30/2020 20:00 | EST | NIAGARA 230 PACKARD 230 1   | 25186 | TWR:PACKARD 62 & BP76         | 0.09   |
| 01/30/2020 06:00 | EST | NIAGB130 115 PACKARD 115 1  | 26055 | TWR:PACKARD 77 & 78           | -11.14 |
| 01/30/2020 07:00 | EST | NIAGB130 115 PACKARD 115 1  | 26055 | TWR:PACKARD 77 & 78           | -69.2  |
| 01/30/2020 09:00 | EST | NIAGB130 115 PACKARD 115 1  | 26055 | TWR:PACKARD 77 & 78           | -0.69  |
| 01/30/2020 10:00 | EST | NIAGB130 115 PACKARD 115 1  | 26055 | TWR:PACKARD 77 & 78           | -48.89 |
| 01/30/2020 11:00 | EST | NIAGB130 115 PACKARD 115 1  | 26055 | TWR:PACKARD 77 & 78           | -22.95 |
| 01/30/2020 12:00 | EST | NIAGB130 115 PACKARD 115 1  | 26055 | TWR:PACKARD 77 & 78           | -11.95 |
| 01/30/2020 13:00 | EST | NIAGB130 115 PACKARD 115 1  | 26055 | TWR:PACKARD 77 & 78           | -0.66  |
| 01/30/2020 15:00 | EST | NIAGB130 115 PACKARD 115 1  | 26055 | TWR:PACKARD 77 & 78           | -6.28  |
| 01/30/2020 16:00 | EST | NIAGB130 115 PACKARD 115 1  | 26055 | TWR:PACKARD 77 & 78           | -32.5  |
| 01/30/2020 17:00 | EST | NIAGB130 115 PACKARD 115 1  | 26055 | TWR:PACKARD 77 & 78           | -52.74 |

|                  |     |                            |       |                     |        |
|------------------|-----|----------------------------|-------|---------------------|--------|
| 01/30/2020 18:00 | EST | NIAGB130 115 PACKARD 115 1 | 26055 | TWR:PACKARD 77 & 78 | -59.05 |
| 01/30/2020 19:00 | EST | NIAGB130 115 PACKARD 115 1 | 26055 | TWR:PACKARD 77 & 78 | -30.41 |
| 01/30/2020 20:00 | EST | NIAGB130 115 PACKARD 115 1 | 26055 | TWR:PACKARD 77 & 78 | -1.16  |