

Day Ahead Limiting Constraints

| Time Stamp | Time Zone | Limiting Facility | Facility PTID | Contingency | Constraint Cost (\$) |
|------------------|-----------|-----------------------------|---------------|-------------|----------------------|
| 07/13/2017 13:00 | EDT | UPNY CONED | 23315 | BASE CASE | 17.68 |
| 07/13/2017 14:00 | EDT | UPNY CONED | 23315 | BASE CASE | 26.1 |
| 07/13/2017 15:00 | EDT | UPNY CONED | 23315 | BASE CASE | 20.33 |
| 07/13/2017 16:00 | EDT | UPNY CONED | 23315 | BASE CASE | 19.24 |
| 07/13/2017 17:00 | EDT | UPNY CONED | 23315 | BASE CASE | 18.77 |
| 07/13/2017 18:00 | EDT | UPNY CONED | 23315 | BASE CASE | 11.72 |
| 07/13/2017 19:00 | EDT | UPNY CONED | 23315 | BASE CASE | 9.52 |
| 07/13/2017 20:00 | EDT | UPNY CONED | 23315 | BASE CASE | 10.8 |
| 07/13/2017 00:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 1.34 |
| 07/13/2017 01:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 1.34 |
| 07/13/2017 02:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 0.77 |
| 07/13/2017 03:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 0.3 |
| 07/13/2017 04:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 0.3 |
| 07/13/2017 05:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 1.47 |
| 07/13/2017 06:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 0.97 |
| 07/13/2017 23:00 | EDT | SCH - OH - NY | 23317 | BASE CASE | 0.3 |
| 07/13/2017 00:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 5.18 |
| 07/13/2017 01:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 4.03 |
| 07/13/2017 02:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 4.03 |
| 07/13/2017 03:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 4.27 |
| 07/13/2017 04:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 4.13 |
| 07/13/2017 05:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 4.28 |
| 07/13/2017 06:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 5.23 |
| 07/13/2017 07:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 5.09 |
| 07/13/2017 08:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 5.17 |
| 07/13/2017 09:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 5.51 |
| 07/13/2017 10:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 6.57 |
| 07/13/2017 11:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 5.68 |
| 07/13/2017 12:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 5.95 |
| 07/13/2017 13:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 4.4 |
| 07/13/2017 14:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 5.02 |
| 07/13/2017 15:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 2.43 |
| 07/13/2017 16:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 2.41 |
| 07/13/2017 19:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 1.25 |
| 07/13/2017 20:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 1.99 |
| 07/13/2017 21:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 4.68 |
| 07/13/2017 22:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 2.57 |
| 07/13/2017 23:00 | EDT | SCH - HQ - NY | 23324 | BASE CASE | 3.11 |
| 07/13/2017 01:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 4.81 |
| 07/13/2017 02:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 4.63 |
| 07/13/2017 03:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 3.83 |
| 07/13/2017 04:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 3.85 |
| 07/13/2017 05:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 3.56 |
| 07/13/2017 06:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | BASE CASE | 0.2 |
| 07/13/2017 07:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 5.14 |
| 07/13/2017 08:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 3.97 |
| 07/13/2017 09:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 1.11 |
| 07/13/2017 10:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 1.91 |
| 07/13/2017 13:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 3.13 |
| 07/13/2017 14:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 8.44 |
| 07/13/2017 15:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 23.85 |
| 07/13/2017 16:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 22.22 |
| 07/13/2017 17:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 23.53 |
| 07/13/2017 18:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 16.81 |
| 07/13/2017 19:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 9.58 |
| 07/13/2017 21:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 0.78 |
| 07/13/2017 23:00 | EDT | SPRNBK 345 EGRDNCTR 345 1 | 25105 | BASE CASE | 2.14 |
| 07/13/2017 11:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25151 | BASE CASE | -41.38 |
| 07/13/2017 12:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25151 | BASE CASE | -45.87 |
| 07/13/2017 21:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25151 | BASE CASE | -58.82 |
| 07/13/2017 22:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25151 | BASE CASE | -64.9 |
| 07/13/2017 02:00 | EDT | E179THST 138 SHERMCRK 138 2 | 25157 | BASE CASE | -9.44 |
| 07/13/2017 09:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -56.64 |

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|------------------|-----|-----------------------------|-------|-----------|--------|
| 07/13/2017 10:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -57.5 |
| 07/13/2017 13:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -0.03 |
| 07/13/2017 19:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -5.85 |
| 07/13/2017 20:00 | EDT | MOTTHAVN 345 DUNWODIE 345 1 | 25191 | BASE CASE | -1.75 |
| 07/13/2017 03:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | BASE CASE | 0.04 |
| 07/13/2017 06:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | BASE CASE | 0.11 |
| 07/13/2017 10:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | BASE CASE | 4.62 |
| 07/13/2017 11:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | BASE CASE | 35.04 |
| 07/13/2017 21:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | BASE CASE | 35.79 |
| 07/13/2017 22:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | BASE CASE | 26.29 |
| 07/13/2017 01:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | BASE CASE | 0.12 |
| 07/13/2017 02:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | BASE CASE | 0.14 |
| 07/13/2017 03:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | BASE CASE | 0.04 |
| 07/13/2017 06:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | BASE CASE | 0.12 |
| 07/13/2017 07:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | BASE CASE | 0.48 |
| 07/13/2017 09:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | BASE CASE | 2.04 |
| 07/13/2017 10:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | BASE CASE | 4.62 |
| 07/13/2017 11:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | BASE CASE | 35.04 |
| 07/13/2017 12:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | BASE CASE | 9.63 |
| 07/13/2017 19:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | BASE CASE | 19.29 |
| 07/13/2017 20:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | BASE CASE | 33.41 |
| 07/13/2017 21:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | BASE CASE | 36.05 |
| 07/13/2017 22:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | BASE CASE | 39.83 |
| 07/13/2017 00:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.3 |
| 07/13/2017 01:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.12 |
| 07/13/2017 02:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.14 |
| 07/13/2017 03:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 1.6 |
| 07/13/2017 04:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.13 |
| 07/13/2017 06:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 3.61 |
| 07/13/2017 07:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.48 |
| 07/13/2017 08:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.45 |
| 07/13/2017 23:00 | EDT | E179THST 138 HELLGATE 138 1 | 25288 | BASE CASE | 0.54 |
| 07/13/2017 15:00 | EDT | E179THST 138 HELLGATE 138 1 | 25289 | BASE CASE | -0.02 |
| 07/13/2017 17:00 | EDT | E179THST 138 HELLGATE 138 1 | 25289 | BASE CASE | -0.02 |
| 07/13/2017 03:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 3.12 |
| 07/13/2017 04:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 0.27 |
| 07/13/2017 06:00 | EDT | E179THST 138 HELLGATE 138 1 | 25290 | BASE CASE | 6.98 |
| 07/13/2017 11:00 | EDT | GREENWD 138 KENTAVE 138 1 | 25299 | BASE CASE | -16.09 |
| 07/13/2017 12:00 | EDT | GREENWD 138 KENTAVE 138 1 | 25299 | BASE CASE | -26.94 |
| 07/13/2017 13:00 | EDT | GREENWD 138 KENTAVE 138 1 | 25299 | BASE CASE | -12.56 |
| 07/13/2017 18:00 | EDT | GREENWD 138 KENTAVE 138 1 | 25299 | BASE CASE | -35.47 |
| 07/13/2017 19:00 | EDT | GREENWD 138 KENTAVE 138 1 | 25299 | BASE CASE | -39.9 |
| 07/13/2017 00:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 3.03 |
| 07/13/2017 01:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 0.17 |
| 07/13/2017 02:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 0.2 |
| 07/13/2017 03:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 0.08 |
| 07/13/2017 06:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 0.25 |
| 07/13/2017 07:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 0.68 |
| 07/13/2017 08:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 0.19 |
| 07/13/2017 09:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 1.1 |
| 07/13/2017 10:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 8.92 |
| 07/13/2017 11:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 70.27 |
| 07/13/2017 12:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 65.51 |
| 07/13/2017 13:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 56.56 |
| 07/13/2017 14:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 41.26 |
| 07/13/2017 15:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 20.14 |
| 07/13/2017 16:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 3.95 |
| 07/13/2017 17:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 16.43 |
| 07/13/2017 18:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 86.48 |
| 07/13/2017 19:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 85.77 |
| 07/13/2017 20:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 66.99 |
| 07/13/2017 21:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 72.14 |
| 07/13/2017 22:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 72.17 |
| 07/13/2017 23:00 | EDT | FRESHKLS 138 WILLWBRK 138 1 | 25319 | BASE CASE | 9.09 |
| 07/13/2017 00:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | BASE CASE | -6.45 |
| 07/13/2017 10:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | BASE CASE | -8.44 |
| 07/13/2017 11:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | BASE CASE | -53.92 |
| 07/13/2017 12:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | BASE CASE | -34.42 |
| 07/13/2017 13:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | BASE CASE | -12.64 |

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| 07/13/2017 18:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | BASE CASE | -35.55 |
| 07/13/2017 19:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | BASE CASE | -40.93 |
| 07/13/2017 23:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | BASE CASE | -20.11 |
| 07/13/2017 13:00 | EDT | GOETHALS 345 GOWANUS 345 2 | 25571 | BASE CASE | 29.26 |
| 07/13/2017 14:00 | EDT | GOETHALS 345 GOWANUS 345 2 | 25571 | BASE CASE | 41.15 |
| 07/13/2017 15:00 | EDT | GOETHALS 345 GOWANUS 345 2 | 25571 | BASE CASE | 20.07 |
| 07/13/2017 16:00 | EDT | GOETHALS 345 GOWANUS 345 2 | 25571 | BASE CASE | 3.93 |
| 07/13/2017 17:00 | EDT | GOETHALS 345 GOWANUS 345 2 | 25571 | BASE CASE | 16.37 |
| 07/13/2017 18:00 | EDT | GOETHALS 345 GOWANUS 345 2 | 25571 | BASE CASE | 9.8 |
| 07/13/2017 07:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 2.96 |
| 07/13/2017 08:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 2.17 |
| 07/13/2017 12:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 1.36 |
| 07/13/2017 13:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 24.8 |
| 07/13/2017 14:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 47.39 |
| 07/13/2017 15:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 80.95 |
| 07/13/2017 16:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 81.12 |
| 07/13/2017 17:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 81.97 |
| 07/13/2017 18:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 50.42 |
| 07/13/2017 19:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 29.88 |
| 07/13/2017 20:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 14.65 |
| 07/13/2017 21:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 5.56 |
| 07/13/2017 22:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 9.13 |
| 07/13/2017 23:00 | EDT | SCH - NPX_1385 | 325277 | BASE CASE | 8.95 |
| 07/13/2017 00:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 9.42 |
| 07/13/2017 01:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 7.7 |
| 07/13/2017 02:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 6.11 |
| 07/13/2017 03:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 4.83 |
| 07/13/2017 04:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 4.65 |
| 07/13/2017 05:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 3.3 |
| 07/13/2017 06:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 5.03 |
| 07/13/2017 07:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 0.52 |
| 07/13/2017 08:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 2.23 |
| 07/13/2017 09:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 4.85 |
| 07/13/2017 10:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 0.89 |
| 07/13/2017 11:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 2.93 |
| 07/13/2017 12:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 3.44 |
| 07/13/2017 13:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 5.6 |
| 07/13/2017 14:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 31.05 |
| 07/13/2017 15:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 29.59 |
| 07/13/2017 16:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 31.97 |
| 07/13/2017 17:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 31.51 |
| 07/13/2017 18:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 27.76 |
| 07/13/2017 19:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 6.35 |
| 07/13/2017 20:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 5.16 |
| 07/13/2017 21:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 4.48 |
| 07/13/2017 22:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 2.49 |
| 07/13/2017 23:00 | EDT | MALONE 115 WILLIS 115 1 | 25586 | ALCOA_PA-ALCOA_115_R8105 | 7.28 |
| 07/13/2017 11:00 | EDT | PLSNTVLY 345 LEEDS 345 1 | 25056 | ATHENS_-PLSNTVLY_345_91 | -4.52 |
| 07/13/2017 12:00 | EDT | PLSNTVLY 345 LEEDS 345 1 | 25056 | ATHENS_-PLSNTVLY_345_91 | -9.82 |
| 07/13/2017 13:00 | EDT | PLSNTVLY 345 LEEDS 345 1 | 25056 | ATHENS_-PLSNTVLY_345_91 | -53.77 |
| 07/13/2017 14:00 | EDT | PLSNTVLY 345 LEEDS 345 1 | 25056 | ATHENS_-PLSNTVLY_345_91 | -66.22 |
| 07/13/2017 15:00 | EDT | PLSNTVLY 345 LEEDS 345 1 | 25056 | ATHENS_-PLSNTVLY_345_91 | -99.73 |
| 07/13/2017 16:00 | EDT | PLSNTVLY 345 LEEDS 345 1 | 25056 | ATHENS_-PLSNTVLY_345_91 | -104.9 |
| 07/13/2017 17:00 | EDT | PLSNTVLY 345 LEEDS 345 1 | 25056 | ATHENS_-PLSNTVLY_345_91 | -99.85 |
| 07/13/2017 18:00 | EDT | PLSNTVLY 345 LEEDS 345 1 | 25056 | ATHENS_-PLSNTVLY_345_91 | -63.79 |
| 07/13/2017 19:00 | EDT | PLSNTVLY 345 LEEDS 345 1 | 25056 | ATHENS_-PLSNTVLY_345_91 | -29.77 |
| 07/13/2017 20:00 | EDT | PLSNTVLY 345 LEEDS 345 1 | 25056 | ATHENS_-PLSNTVLY_345_91 | -25.16 |
| 07/13/2017 21:00 | EDT | PLSNTVLY 345 LEEDS 345 1 | 25056 | ATHENS_-PLSNTVLY_345_91 | -4.29 |
| 07/13/2017 22:00 | EDT | PLSNTVLY 345 LEEDS 345 1 | 25056 | ATHENS_-PLSNTVLY_345_91 | -2.66 |
| 07/13/2017 19:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BUS:BARRETT 292&459&G2&IC9-12 | 5.98 |
| 07/13/2017 21:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BUS:BARRETT 292&459&G2&IC9-12 | 54.07 |
| 07/13/2017 22:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | BUS:BARRETT 292&459&G2&IC9-12 | 71.75 |
| 07/13/2017 12:00 | EDT | RIVRHEAD 138 WILDWOOD 138 1 | 25905 | BUS:BROOKHAVEN 874&864&BK 2 | -123.39 |
| 07/13/2017 13:00 | EDT | RIVRHEAD 138 WILDWOOD 138 1 | 25905 | BUS:BROOKHAVEN 874&864&BK 2 | -102.54 |
| 07/13/2017 14:00 | EDT | RIVRHEAD 138 WILDWOOD 138 1 | 25905 | BUS:BROOKHAVEN 874&864&BK 2 | -56.06 |
| 07/13/2017 18:00 | EDT | RIVRHEAD 138 WILDWOOD 138 1 | 25905 | BUS:BROOKHAVEN 874&864&BK 2 | -105.83 |
| 07/13/2017 19:00 | EDT | RIVRHEAD 138 WILDWOOD 138 1 | 25905 | BUS:BROOKHAVEN 874&864&BK 2 | -113.69 |
| 07/13/2017 07:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 42.72 |
| 07/13/2017 08:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 54.47 |

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| 07/13/2017 09:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 78.04 |
| 07/13/2017 10:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 102.99 |
| 07/13/2017 11:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 116.13 |
| 07/13/2017 12:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 153.79 |
| 07/13/2017 13:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 222.48 |
| 07/13/2017 14:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 287.31 |
| 07/13/2017 15:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 239.24 |
| 07/13/2017 16:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 238.4 |
| 07/13/2017 17:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 194.26 |
| 07/13/2017 18:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 119.83 |
| 07/13/2017 19:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 91.03 |
| 07/13/2017 20:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 86.12 |
| 07/13/2017 21:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 83.57 |
| 07/13/2017 22:00 | EDT | PACKARD 230 SAWYER 230 1 | 25164 | BUS:PACKARD BK3 & 61 & 78 | 1.98 |
| 07/13/2017 02:00 | EDT | MOTTHAVN 345 RAINEY 345 2 | 325431 | MOTTHAVN-RAINEY___345_Q11 | 9.61 |
| 07/13/2017 03:00 | EDT | MOTTHAVN 345 RAINEY 345 2 | 325431 | MOTTHAVN-RAINEY___345_Q11 | 3.17 |
| 07/13/2017 04:00 | EDT | MOTTHAVN 345 RAINEY 345 2 | 325431 | MOTTHAVN-RAINEY___345_Q11 | 0.27 |
| 07/13/2017 05:00 | EDT | MOTTHAVN 345 RAINEY 345 2 | 325431 | MOTTHAVN-RAINEY___345_Q11 | 0.03 |
| 07/13/2017 06:00 | EDT | MOTTHAVN 345 RAINEY 345 2 | 325431 | MOTTHAVN-RAINEY___345_Q11 | 7.47 |
| 07/13/2017 07:00 | EDT | MOTTHAVN 345 RAINEY 345 2 | 325431 | MOTTHAVN-RAINEY___345_Q11 | 30.11 |
| 07/13/2017 08:00 | EDT | MOTTHAVN 345 RAINEY 345 2 | 325431 | MOTTHAVN-RAINEY___345_Q11 | 28.63 |
| 07/13/2017 00:00 | EDT | MOTTHAVN 345 RAINEY 345 1 | 325430 | MOTTHAVN-RAINEY___345_Q12 | 20.06 |
| 07/13/2017 01:00 | EDT | MOTTHAVN 345 RAINEY 345 1 | 325430 | MOTTHAVN-RAINEY___345_Q12 | 8.15 |
| 07/13/2017 23:00 | EDT | MOTTHAVN 345 RAINEY 345 1 | 325430 | MOTTHAVN-RAINEY___345_Q12 | 35.29 |
| 07/13/2017 22:00 | EDT | LEEDS 345 N.SCTLND 345 1 | 25171 | N.SCTLND-LEEDS___345_94 | -3.78 |
| 07/13/2017 12:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | SCB:GOWANUS(14):42&42232&R14 | 31.86 |
| 07/13/2017 13:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | SCB:GOWANUS(14):42&42232&R14 | 13.09 |
| 07/13/2017 18:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | SCB:GOWANUS(14):42&42232&R14 | 36.86 |
| 07/13/2017 19:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | SCB:GOWANUS(14):42&42232&R14 | 41.96 |
| 07/13/2017 12:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | SCB:GOWANUS(2):41&42231&R4 | 21.88 |
| 07/13/2017 13:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | SCB:GOWANUS(2):41&42231&R4 | 13.09 |
| 07/13/2017 18:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | SCB:GOWANUS(2):41&42231&R4 | 36.88 |
| 07/13/2017 19:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | SCB:GOWANUS(2):41&42231&R4 | 21.95 |
| 07/13/2017 20:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | SCB:GOWANUS(22):42231&G27&BEC | -66.69 |
| 07/13/2017 00:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 52.35 |
| 07/13/2017 01:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 57.03 |
| 07/13/2017 02:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 54.92 |
| 07/13/2017 03:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 45.43 |
| 07/13/2017 04:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 45.69 |
| 07/13/2017 05:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 42.29 |
| 07/13/2017 06:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 16.61 |
| 07/13/2017 07:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 7.62 |
| 07/13/2017 08:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 11.55 |
| 07/13/2017 09:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 44.54 |
| 07/13/2017 10:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 52.43 |
| 07/13/2017 11:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 85.12 |
| 07/13/2017 12:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 95.98 |
| 07/13/2017 20:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 36.02 |
| 07/13/2017 21:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 19.32 |
| 07/13/2017 22:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 19.71 |
| 07/13/2017 23:00 | EDT | EGRDNCTY 138 VALLYSTR 138 1 | 25244 | SCB:NEWBRDG 1380 461&BK6+4 | 55.73 |
| 07/13/2017 09:00 | EDT | MOTTHAVN 345 RAINEY 345 2 | 325431 | SCB:RAINEY(1E):Q11&36311&BK8 | 0.22 |
| 07/13/2017 00:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 9.1 |
| 07/13/2017 06:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 2.46 |
| 07/13/2017 07:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 11.93 |
| 07/13/2017 08:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 10.21 |
| 07/13/2017 09:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 10.05 |
| 07/13/2017 10:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 13.08 |
| 07/13/2017 11:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 14.84 |
| 07/13/2017 12:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 16.73 |
| 07/13/2017 13:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 6.47 |
| 07/13/2017 14:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 17.41 |
| 07/13/2017 15:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 49.2 |
| 07/13/2017 16:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 45.83 |
| 07/13/2017 17:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 48.54 |
| 07/13/2017 18:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 34.68 |
| 07/13/2017 19:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 20.76 |
| 07/13/2017 20:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 6.29 |
| 07/13/2017 21:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 13.89 |

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|------------------|-----|-----------------------------|-------|-------------------------------|--------|
| 07/13/2017 22:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 15.25 |
| 07/13/2017 23:00 | EDT | DUNWODIE 345 SHORE_RD 345 1 | 25091 | SCB:SPBK(RNS2):Y49&M29&Y49_ST | 14.14 |
| 07/13/2017 21:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | SIN:VERNON-GRNWD 31232 & KENT | -51.62 |
| 07/13/2017 22:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | SIN:VERNON-GRNWD 31232 & KENT | -57.04 |
| 07/13/2017 00:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | TWR:GOETHALS 22 & 21 | 3.53 |
| 07/13/2017 01:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | TWR:GOETHALS 22 & 21 | 0.12 |
| 07/13/2017 02:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | TWR:GOETHALS 22 & 21 | 0.14 |
| 07/13/2017 07:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | TWR:GOETHALS 22 & 21 | 0.48 |
| 07/13/2017 08:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | TWR:GOETHALS 22 & 21 | 5.22 |
| 07/13/2017 09:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | TWR:GOETHALS 22 & 21 | 2.04 |
| 07/13/2017 21:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | TWR:GOETHALS 22 & 21 | 0.26 |
| 07/13/2017 22:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | TWR:GOETHALS 22 & 21 | 13.52 |
| 07/13/2017 23:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25214 | TWR:GOETHALS 22 & 21 | 10.61 |
| 07/13/2017 00:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | TWR:GOETHALS 22 & 21 | 3.53 |
| 07/13/2017 08:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | TWR:GOETHALS 22 & 21 | 5.22 |
| 07/13/2017 23:00 | EDT | GOWANUS 138 GREENWD 138 1 | 25215 | TWR:GOETHALS 22 & 21 | 10.61 |
| 07/13/2017 08:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -9.52 |
| 07/13/2017 09:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -4.07 |
| 07/13/2017 10:00 | EDT | GREENWD 138 VERNON 138 1 | 25337 | TWR:GOETHALS 22 & 21 | -0.76 |
| 07/13/2017 06:00 | EDT | NIAGARA 230 PACKARD 230 1 | 25186 | TWR:PACKARD 62 & BP76 | 0.41 |