



Generation Resource Cold Weather Operational Exercise

SOS Meeting
January 27, 2016



Cold Weather Generation Exercise – 2014 vs. 2015

137 units with a total amount of 10,141 MW (13,616 MW ICAP) performed the cold weather generation operational exercise in 2015:

| 2014 Cold Weather Exercise Units | | |
|----------------------------------|-------------|---------------|
| Week of: | Total Units | Total Test MW |
| Dec. 2 - 5 | 21 | 659 |
| Dec. 9 - 12 | 48 | 2,893 |
| Dec. 16 - 19 | 48 | 2,737 |
| Dec. 23 - 26 | 3 | 222 |
| Dec. 30 - Jan. 2 | 31 | 2,468 |
| Jan. 6 – 9, 2015 | 17 | 940 |
| Total | 168 | 9,919 |

| 2015 Cold Weather Exercise Units | | |
|----------------------------------|-------------|---------------|
| Week of: | Total Units | Total Test MW |
| Dec. 1 - 4 | 16 | 1,660 |
| Dec. 7 - 11 | 6 | 249 |
| Dec. 14 - 18 | 10 | 774 |
| Dec. 21 - 25 | 4 | 320 |
| Dec. 28 - 31 | 12 | 890 |
| Jan. 4 - 8, 2016 | 59 | 3,727 |
| Jan. 11 - 15, 2016 | 30 | 2521 |
| Total | 137 | 10,141 |

2015 cold weather testing continued into the second week of January 2016 due to many temperature cancellations in December.



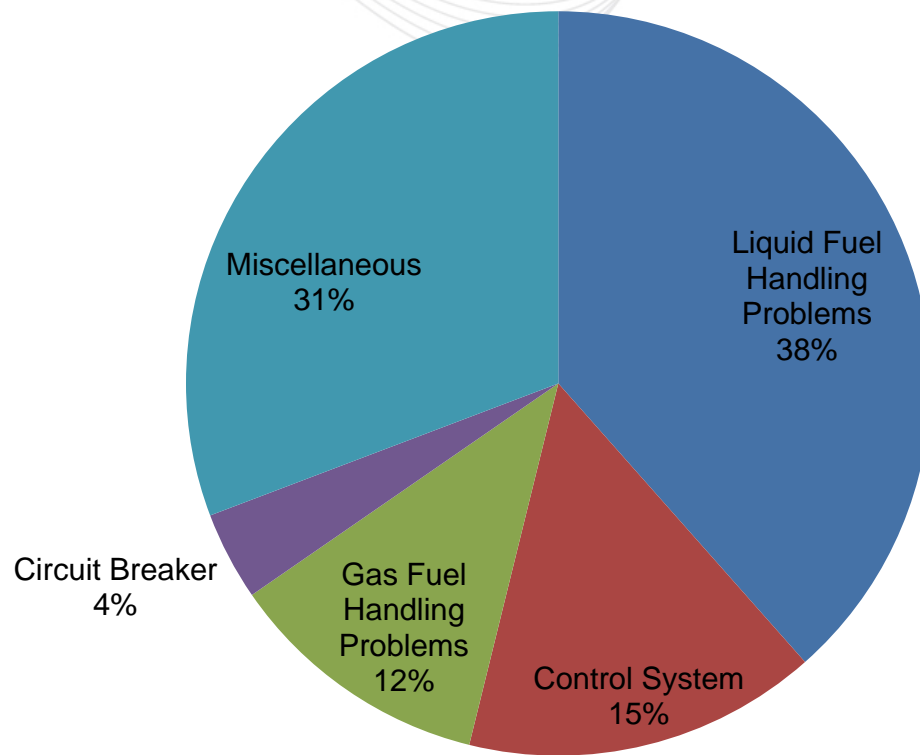
2015 Analysis of Results – Success / Failure

| Week of: | Total Units | | Failures | | Success | | | | Success Rate by Unit Count | Success Rate by MW Total | | |
|--------------|-------------|--------------|------------------------|----------------|------------|-------------|--------------------------|-------------|----------------------------|--------------------------|---------------|------------|
| | Total Units | Total MWs | Failures by Unit Count | Failures by MW | Success | | Initial Failure; Success | | | | Total Success | |
| | | | | | Units | MW | Units | MW | | | Units | MW |
| Dec 1 | 16 | 1660 | 0 | 0 | 14 | 1380 | 2 | 280 | 16 | 1660 | 100% | 100% |
| Dec 7 | 6 | 249 | 1 | 140 | 5 | 109 | 0 | 0 | 5 | 109 | 83% | 44% |
| Dec 14 | 10 | 774 | 0 | 0 | 10 | 774 | 0 | 0 | 10 | 774 | 100% | 100% |
| Dec 21 | 4 | 320 | 0 | 0 | 4 | 320 | 0 | 0 | 4 | 320 | 100% | 100% |
| Dec 28 | 12 | 890 | 0 | 0 | 10 | 835 | 2 | 55 | 12 | 890 | 100% | 100% |
| Jan 4, 2016 | 59 | 3727 | 1 | 11 | 46 | 2935 | 12 | 781 | 58 | 3716 | 98% | 100% |
| Jan 11, 2016 | 30 | 2521 | 2 | 92 | 22 | 2335 | 6 | 94 | 28 | 2429 | 93% | 96% |
| Total | 137 | 10141 | 4 | 243 | 111 | 8688 | 22 | 1210 | 133 | 9898 | 97% | 98% |

26 units out of 137 experienced initial failures; 22 of those 26 units experienced an initial failure, corrected the issue and completed the exercise; total success rates include the corrected failures.

2015 Cold Weather Generation Operational Exercise

Failure Causes



Note: Based on 26 unit testing failures



Generation Resource Cold Weather Checklist Summary of Results

Units That Completed a Cold Weather Checklist 2014

| | All Generation Resources | CT / Diesel / Steam / Combined Cycle Units |
|-------------------|--------------------------|--|
| Unit Count (%) | 91% | 98% |
| Total ICAP MW (%) | 98% | 99% |

Units That Completed a Cold Weather Checklist 2015

| | All Generation Resources | CT / Diesel / Steam / Combined Cycle Units |
|-------------------|--------------------------|--|
| Unit Count (%) | 94% | 94% |
| Total ICAP MW (%) | 99% | 97% |