

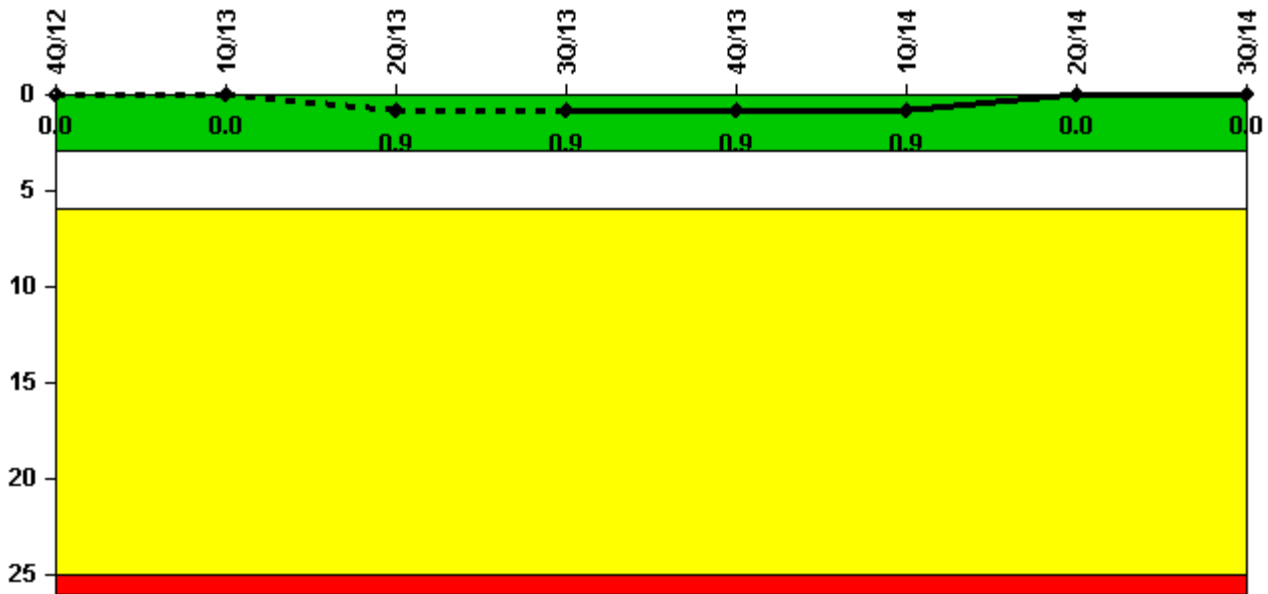
Susquehanna 1

3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



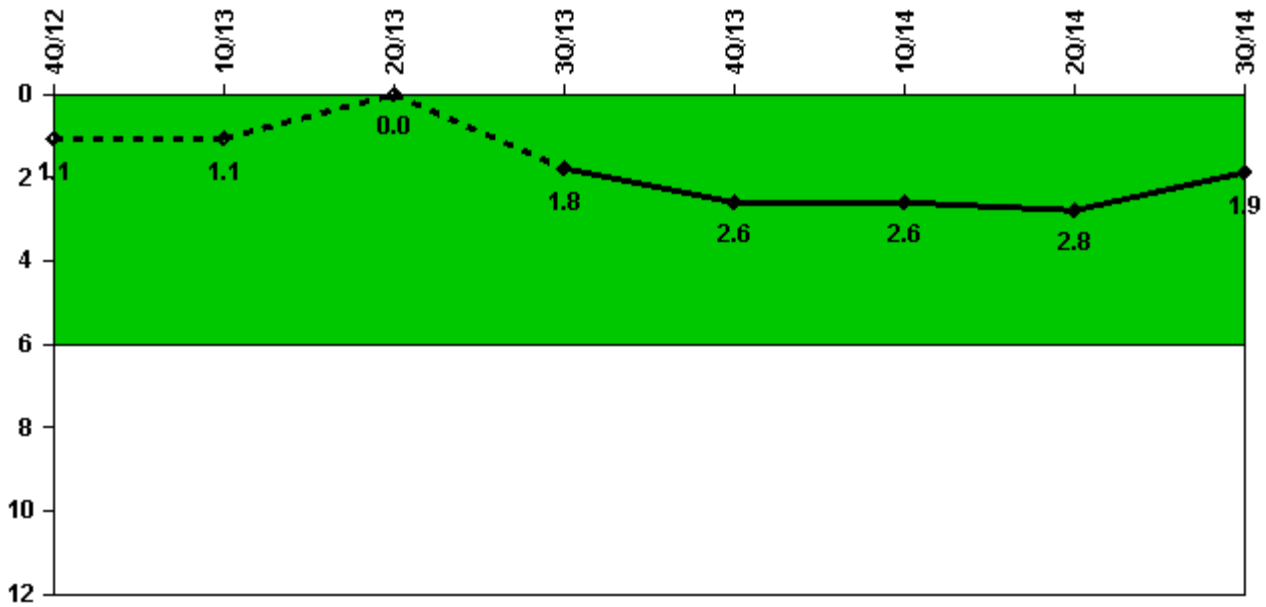
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|--|----------|----------|------------|------------|------------|------------|----------|----------|
| Unplanned scrams | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1792.2 | 2159.0 | 1491.3 | 2208.0 | 2209.0 | 2159.0 | 899.9 | 2208.0 |
| Indicator value | 0 | 0 | 0.9 | 0.9 | 0.9 | 0.9 | 0 | 0 |

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



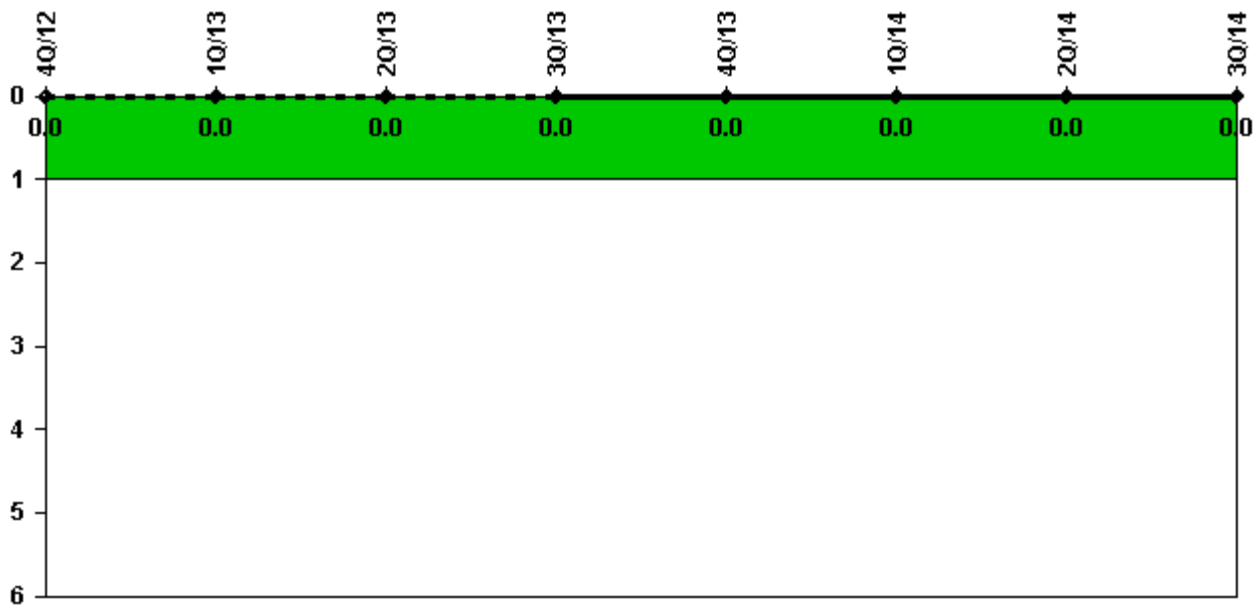
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|------------|------------|----------|------------|------------|------------|------------|------------|
| Unplanned power changes | 0 | 0 | 0 | 2.0 | 1.0 | 0 | 0 | 1.0 |
| Critical hours | 1792.2 | 2159.0 | 1491.3 | 2208.0 | 2209.0 | 2159.0 | 899.9 | 2208.0 |
| Indicator value | 1.1 | 1.1 | 0 | 1.8 | 2.6 | 2.6 | 2.8 | 1.9 |

Licensee Comments: none

Unplanned Scrams with Complications



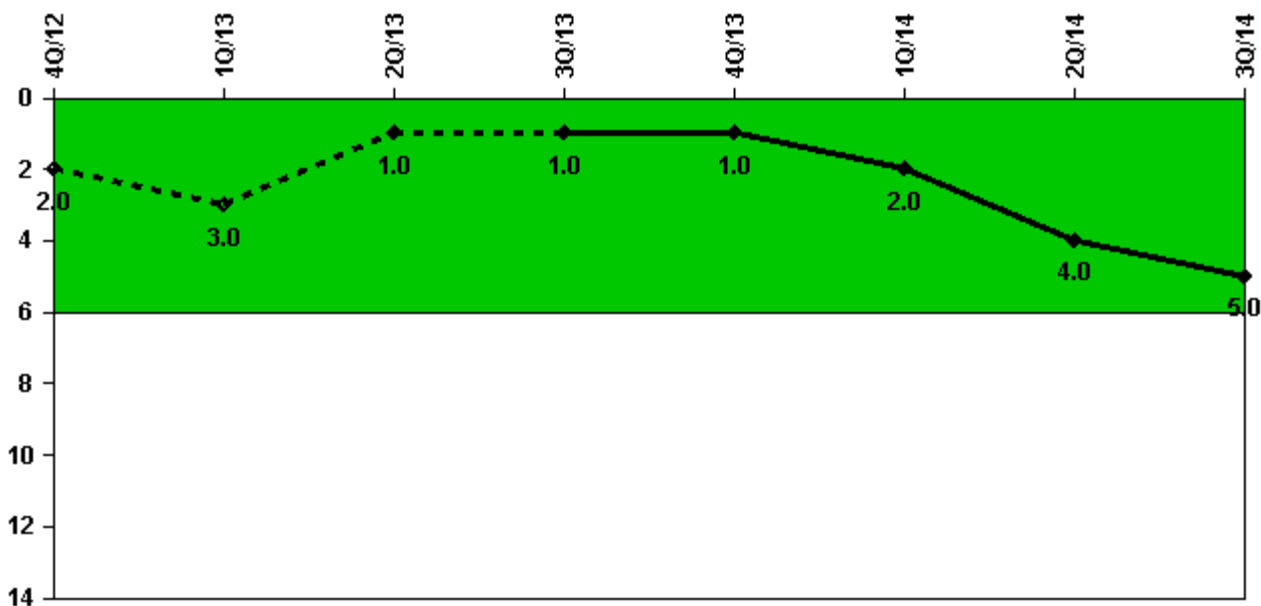
Thresholds: White > 1.0

Notes

| Unplanned Scrams with Complications | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|-------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Scrams with complications | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| Indicator value | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Licensee Comments: none

Safety System Functional Failures (BWR)



Thresholds: White > 6.0

Notes

| Safety System Functional Failures (BWR) | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| Safety System Functional Failures | 0 | 1 | 0 | 0 | 0 | 2 | 2 | 1 |
| Indicator value | 2 | 3 | 1 | 1 | 1 | 2 | 4 | 5 |

Licensee Comments:

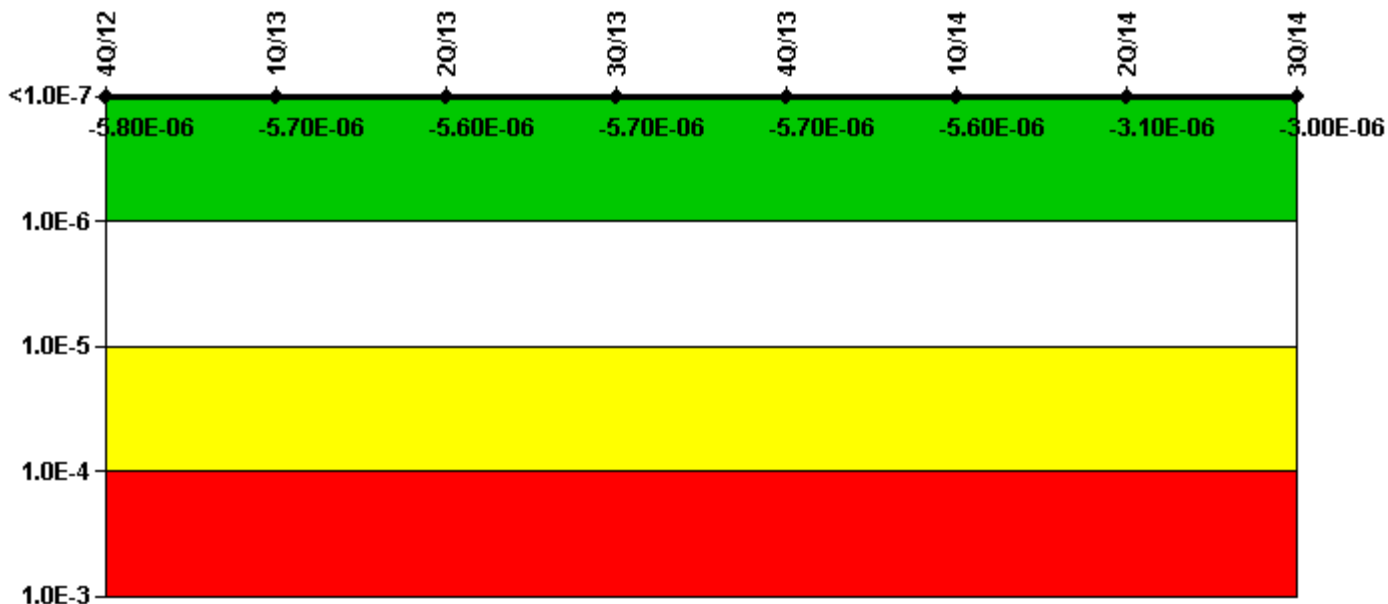
3Q/14: LER 50-387/2013-009-00: RPS EPA Logic Card Underfrequency Trip Setpoints Out of Calibration, submitted on July 18, 2014.

2Q/14: LER 387(388) 2014-002-00: Secondary Containment Door Found Ajar; Submitted on April 9, 2014
 LER387(388) 2014-003-00: Loss of Secondary Containment During TS SR 3.6.4.1.5 Drawdown Testing; Submitted on May 1, 2014

1Q/14: LER 387/2013-007-00: Loss of Secondary Containment due to drawdown test failure, submitted on January 21, 2014

1Q/13: LER 387/2012-010-00: Both Trains of Control Structure HVAC at Susquehanna Were Rendered Inoperable, submitted on February 12, 2013

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

| Mitigating Systems Performance Index, Emergency AC Power System | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 2.07E-07 | 2.14E-07 | 2.16E-07 | 2.13E-07 | 2.13E-07 | 1.99E-07 | 1.27E-07 | 1.10E-07 |
| URI (Δ CDF) | -5.96E-06 | -5.87E-06 | -5.83E-06 | -5.88E-06 | -5.90E-06 | -5.81E-06 | -3.26E-06 | -3.15E-06 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -5.80E-06 | -5.70E-06 | -5.60E-06 | -5.70E-06 | -5.70E-06 | -5.60E-06 | -3.10E-06 | -3.00E-06 |

Licensee Comments:

3Q/14: Risk Cap Invoked.

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

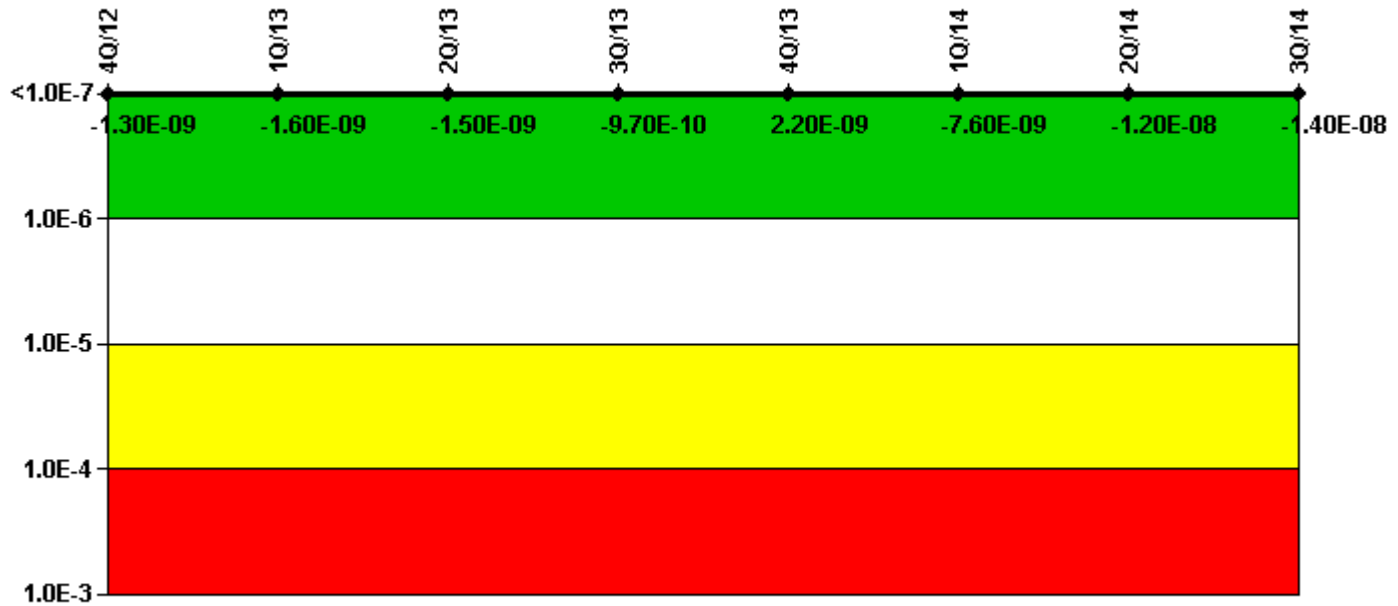
2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



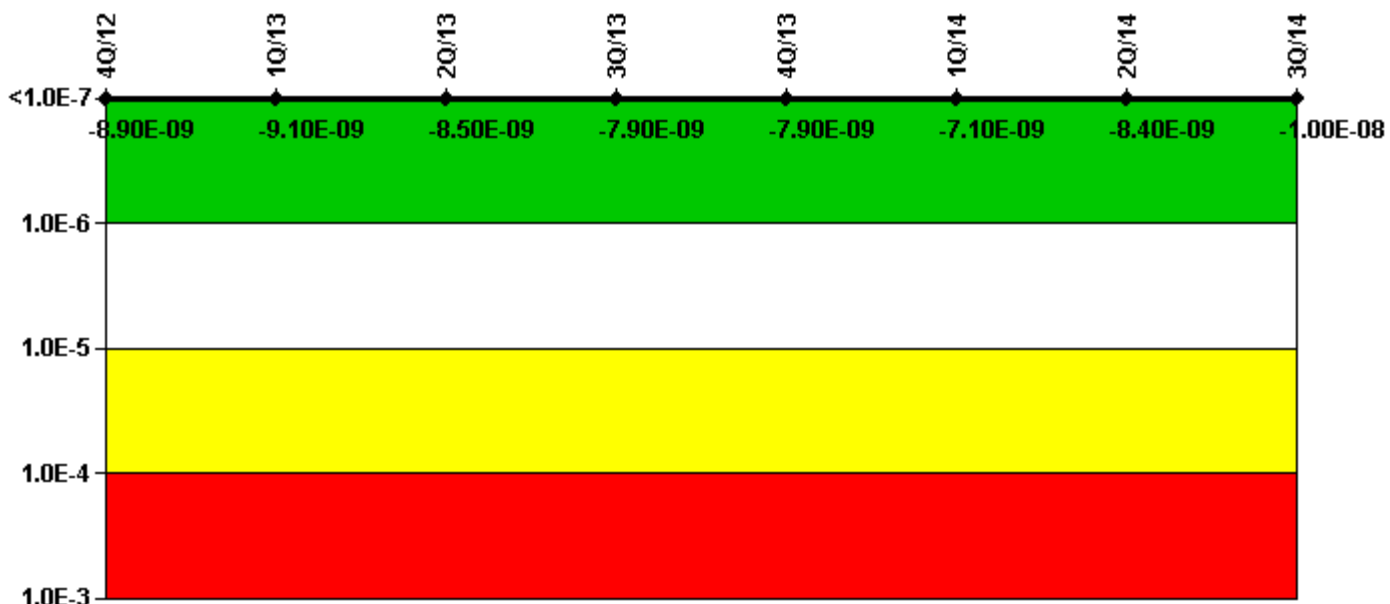
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 5.38E-09 | 5.07E-09 | 5.14E-09 | 4.97E-09 | 8.15E-09 | -1.67E-09 | -3.00E-09 | -4.56E-09 |
| URI (Δ CDF) | -6.71E-09 | -6.65E-09 | -6.65E-09 | -5.94E-09 | -5.94E-09 | -5.94E-09 | -8.96E-09 | -8.96E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -1.30E-09 | -1.60E-09 | -1.50E-09 | -9.70E-10 | 2.20E-09 | -7.60E-09 | -1.20E-08 | -1.40E-08 |

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



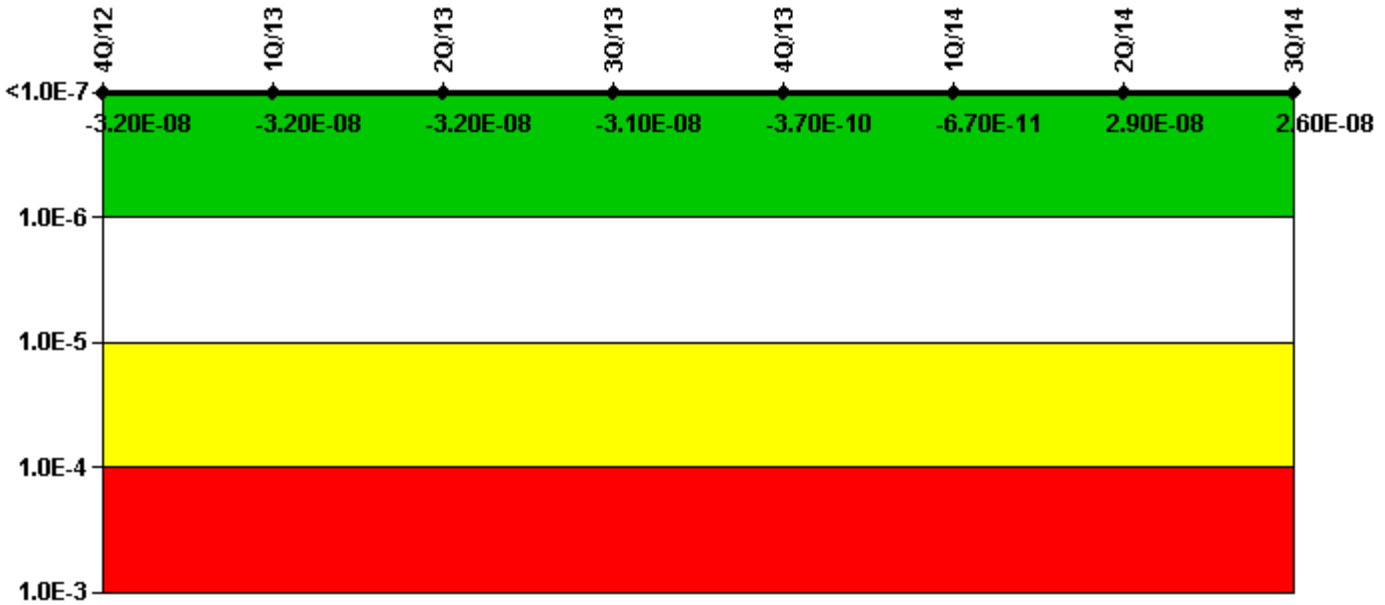
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

| Mitigating Systems Performance Index, Heat Removal System | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | -5.55E-10 | -6.68E-10 | -6.41E-10 | -7.05E-10 | -7.05E-10 | -2.61E-10 | 3.39E-10 | -1.61E-09 |
| URI (Δ CDF) | -8.39E-09 | -8.39E-09 | -7.84E-09 | -7.15E-09 | -7.15E-09 | -6.85E-09 | -8.78E-09 | -8.41E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -8.90E-09 | -9.10E-09 | -8.50E-09 | -7.90E-09 | -7.90E-09 | -7.10E-09 | -8.40E-09 | -1.00E-08 |

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

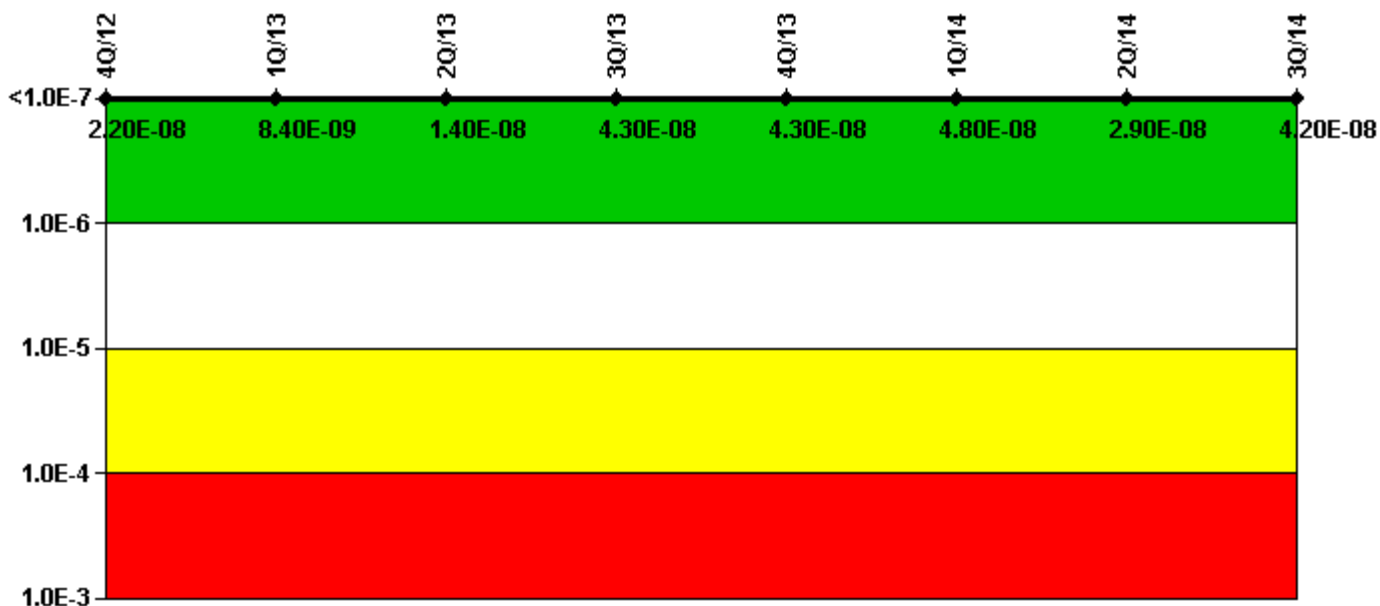
Notes

| Mitigating Systems Performance Index, Residual Heat Removal System | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|
| UAI (Δ CDF) | 2.40E-09 | 1.58E-09 | 1.62E-09 | 1.53E-09 | 6.01E-09 | 6.09E-09 | 1.22E-08 | 3.85E-09 |
| URI (Δ CDF) | -3.43E-08 | -3.34E-08 | -3.35E-08 | -3.27E-08 | -6.38E-09 | -6.15E-09 | 1.71E-08 | 2.22E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -3.20E-08 | -3.20E-08 | -3.20E-08 | -3.10E-08 | -3.70E-10 | -6.70E-11 | 2.90E-08 | 2.60E-08 |

Licensee Comments:

1Q/14: Previously reported data for Residual Heat Removal Mitigating Systems Performance Index for the months of November and December, 2013 are revised due to an Anti-Rotation Device failure. There is no safety significance associated with these changes. The PI color was green before the data revision and it remains green after the changes.

Mitigating Systems Performance Index, Cooling Water Systems



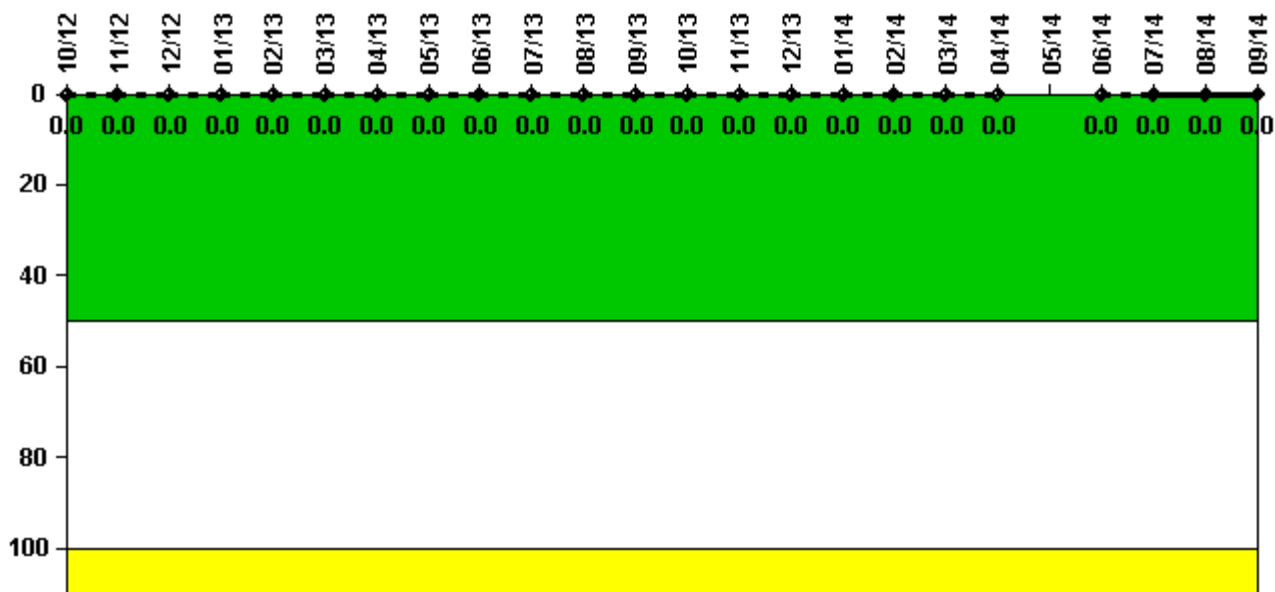
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

| Mitigating Systems Performance Index, Cooling Water Systems | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 5.67E-08 | 4.30E-08 | 4.84E-08 | 7.77E-08 | 7.85E-08 | 8.28E-08 | 7.14E-08 | 8.58E-08 |
| URI (Δ CDF) | -3.47E-08 | -3.46E-08 | -3.48E-08 | -3.50E-08 | -3.51E-08 | -3.51E-08 | -4.28E-08 | -4.37E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | 2.20E-08 | 8.40E-09 | 1.40E-08 | 4.30E-08 | 4.30E-08 | 4.80E-08 | 2.90E-08 | 4.20E-08 |

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

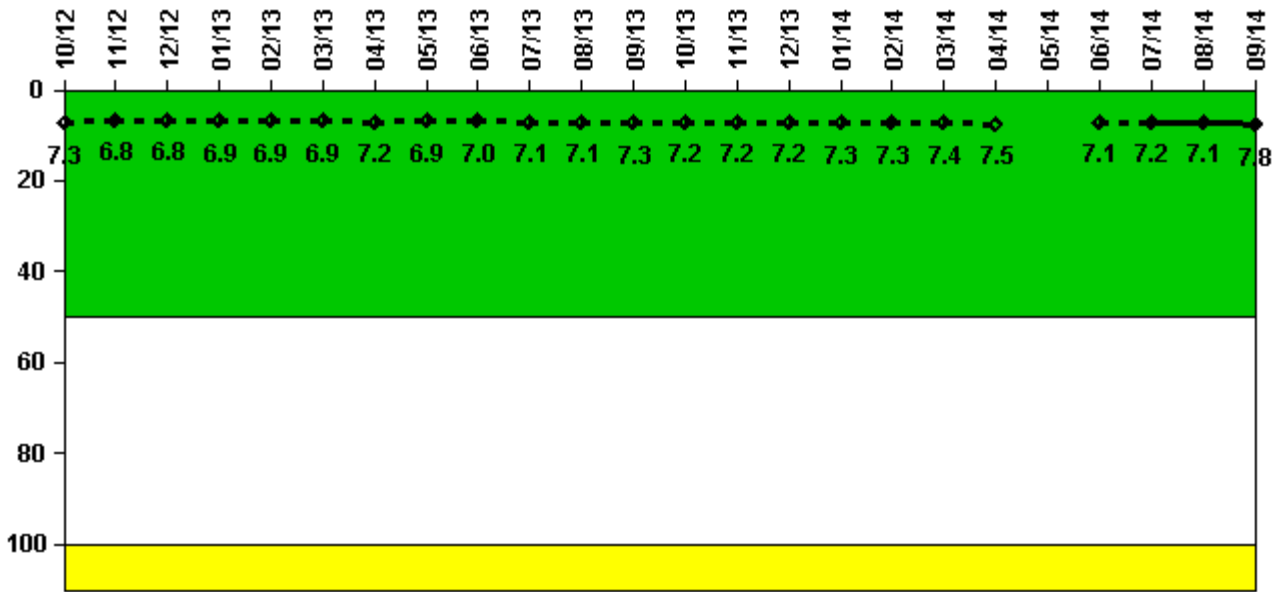
Notes

| Reactor Coolant System Activity | 10/12 | 11/12 | 12/12 | 1/13 | 2/13 | 3/13 | 4/13 | 5/13 | 6/13 | 7/13 | 8/13 | 9/13 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0.000005 | 0.000006 | 0.000007 | 0.000006 | 0.000007 | 0.000007 | 0.000007 | 0.000007 | 0.000007 | 0.000007 | 0.000007 | 0.000008 |
| Technical specification limit | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Reactor Coolant System Activity | 10/13 | 11/13 | 12/13 | 1/14 | 2/14 | 3/14 | 4/14 | 5/14 | 6/14 | 7/14 | 8/14 | 9/14 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|------|----------|----------|----------|----------|
| Maximum activity | 0.000007 | 0.000008 | 0.000008 | 0.000009 | 0.000008 | 0.000010 | 0.000010 | N/A | 0.000005 | 0.000006 | 0.000007 | 0.000007 |
| Technical specification limit | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | 0 | 0 | 0 | 0 |

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

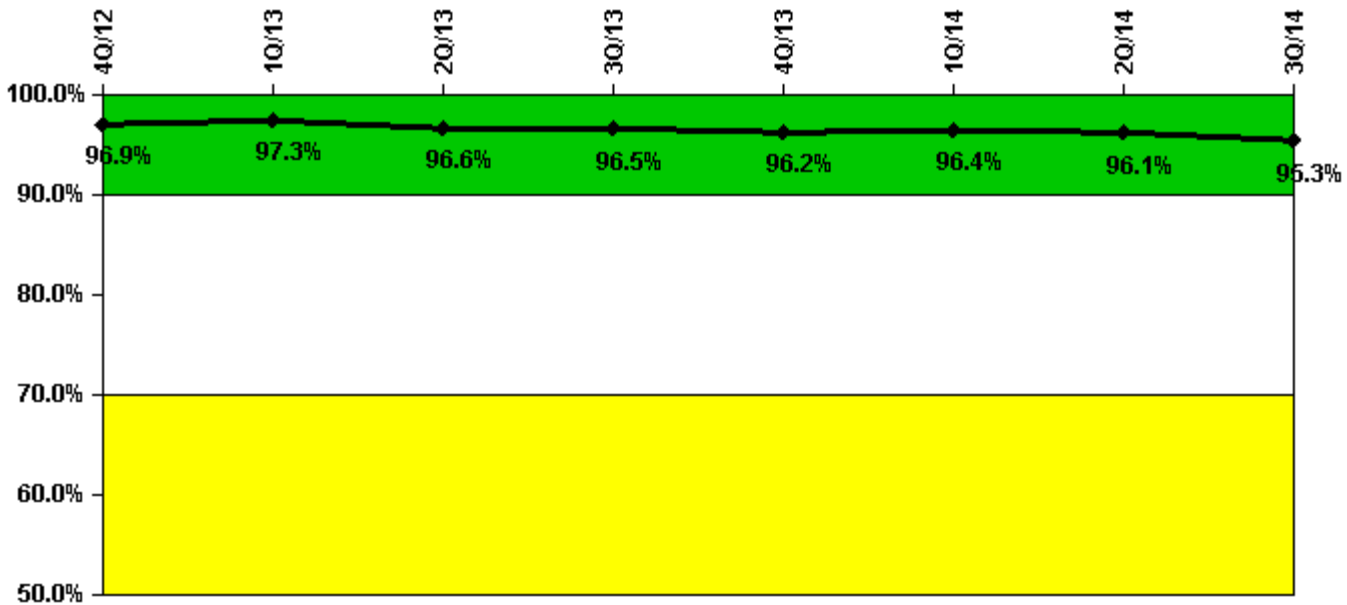
| Reactor Coolant System Leakage | 10/12 | 11/12 | 12/12 | 1/13 | 2/13 | 3/13 | 4/13 | 5/13 | 6/13 | 7/13 | 8/13 | 9/13 |
|--------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Maximum leakage | 1.830 | 1.710 | 1.710 | 1.730 | 1.720 | 1.720 | 1.810 | 1.720 | 1.740 | 1.770 | 1.770 | 1.820 |
| Technical specification limit | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| Indicator value | 7.3 | 6.8 | 6.8 | 6.9 | 6.9 | 6.9 | 7.2 | 6.9 | 7.0 | 7.1 | 7.1 | 7.3 |

| Reactor Coolant System Leakage | 10/13 | 11/13 | 12/13 | 1/14 | 2/14 | 3/14 | 4/14 | 5/14 | 6/14 | 7/14 | 8/14 | 9/14 |
|--------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Maximum leakage | 1.790 | 1.790 | 1.810 | 1.820 | 1.830 | 1.850 | 1.880 | N/A | 1.780 | 1.810 | 1.780 | 1.960 |
| Technical specification limit | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| Indicator value | 7.2 | 7.2 | 7.2 | 7.3 | 7.3 | 7.4 | 7.5 | N/A | 7.1 | 7.2 | 7.1 | 7.8 |

Licensee Comments:

6/13: Previously reported data for Reactor Coolant System Leakage for the months of July 2012, October 2012, December 2012, and February 2013 is revised due to data entry errors. There is no safety significance associated with these changes. The PI color was green before the data revision and it remains green after the changes.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

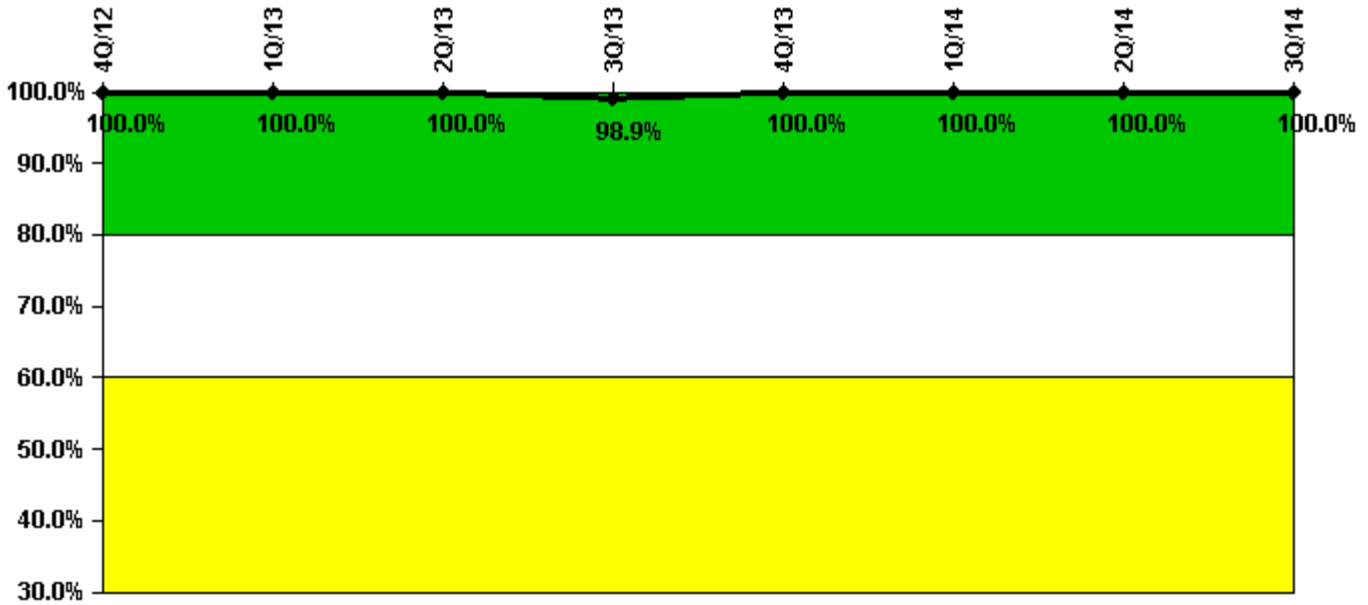
Notes

| Drill/Exercise Performance | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 7.0 | 18.0 | 17.0 | 19.0 | 24.0 | 56.0 | 25.0 | 36.0 |
| Total opportunities | 8.0 | 18.0 | 18.0 | 20.0 | 25.0 | 59.0 | 26.0 | 38.0 |
| Indicator value | 96.9% | 97.3% | 96.6% | 96.5% | 96.2% | 96.4% | 96.1% | 95.3% |

Licensee Comments:

3Q/14: Data for Drill / Exercise Performance was revised based on reevaluation of the data over the past two years. Specifically, data was revised for the following time periods: July 2012; April, Nov & Dec 2013; Feb, March & June 2014. The PI color was Green before the revisions and remains Green after the revisions for each of the time periods. There is no safety significance associated with these revisions.

ERO Drill Participation



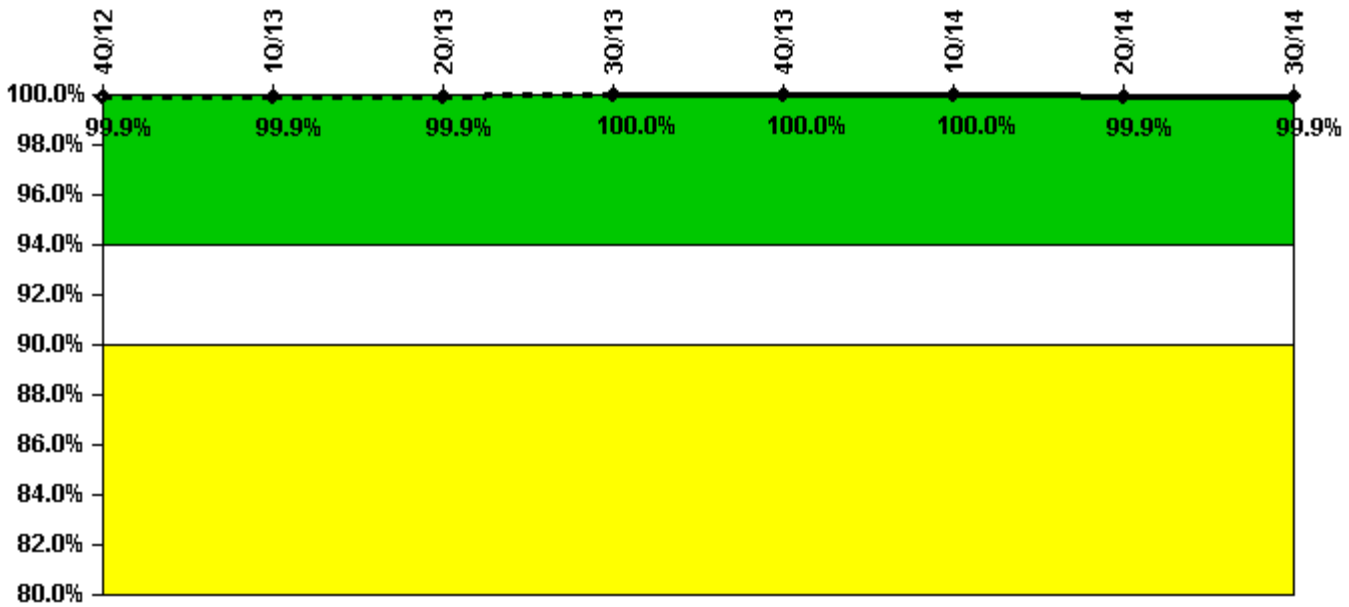
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|-----------------------------|--------|--------|--------|-------|--------|--------|--------|--------|
| Participating Key personnel | 77.0 | 80.0 | 82.0 | 86.0 | 91.0 | 94.0 | 90.0 | 86.0 |
| Total Key personnel | 77.0 | 80.0 | 82.0 | 87.0 | 91.0 | 94.0 | 90.0 | 86.0 |
| Indicator value | 100.0% | 100.0% | 100.0% | 98.9% | 100.0% | 100.0% | 100.0% | 100.0% |

Licensee Comments: none

Alert & Notification System



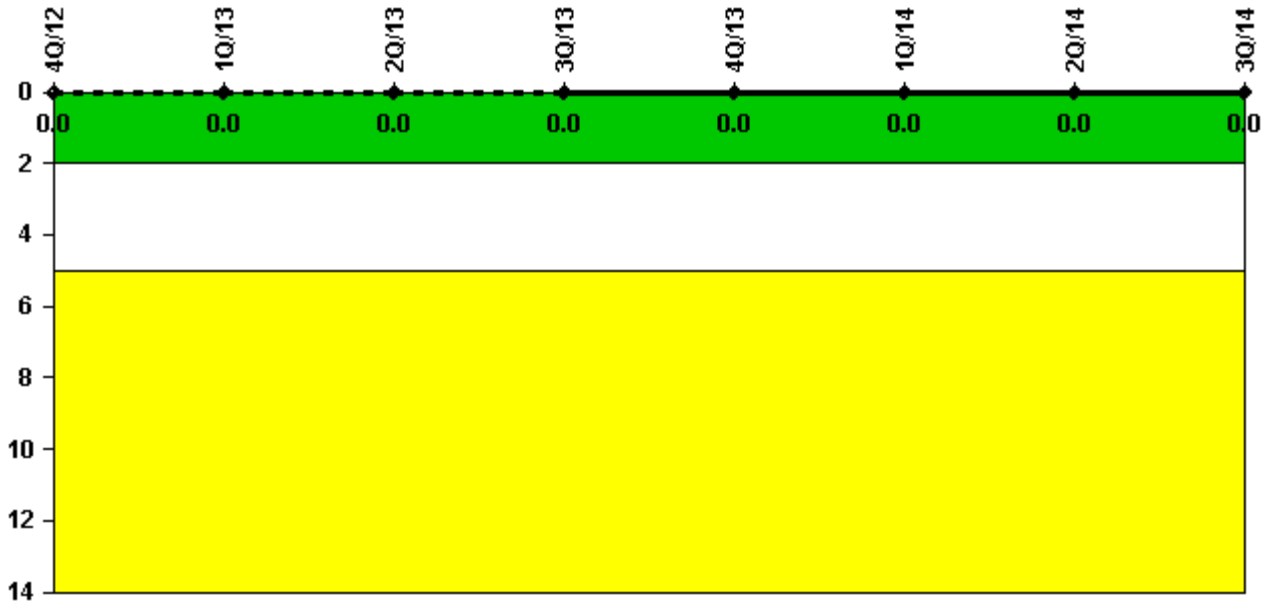
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|-----------------------------|-------|-------|-------|--------|--------|--------|-------|-------|
| Successful siren-tests | 531 | 608 | 532 | 608 | 532 | 608 | 530 | 684 |
| Total sirens-tests | 532 | 608 | 532 | 608 | 532 | 608 | 532 | 684 |
| Indicator value | 99.9% | 99.9% | 99.9% | 100.0% | 100.0% | 100.0% | 99.9% | 99.9% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



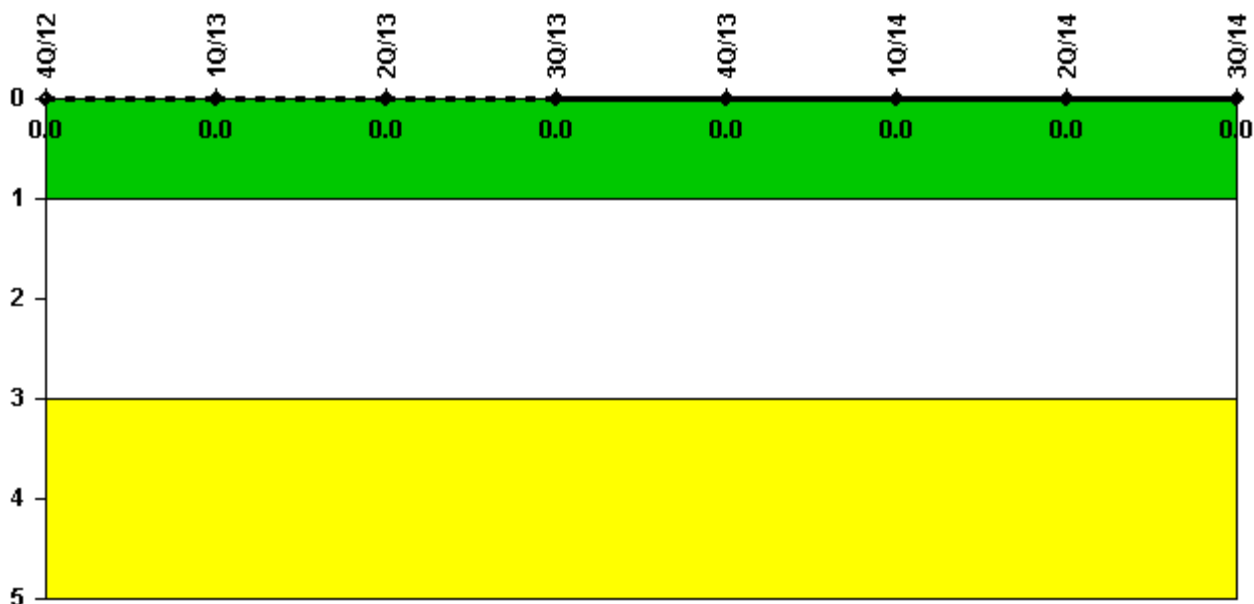
Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Very high radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unintended exposure occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

| RETS/ODCM Radiological Effluent | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

 [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: November 3, 2014