

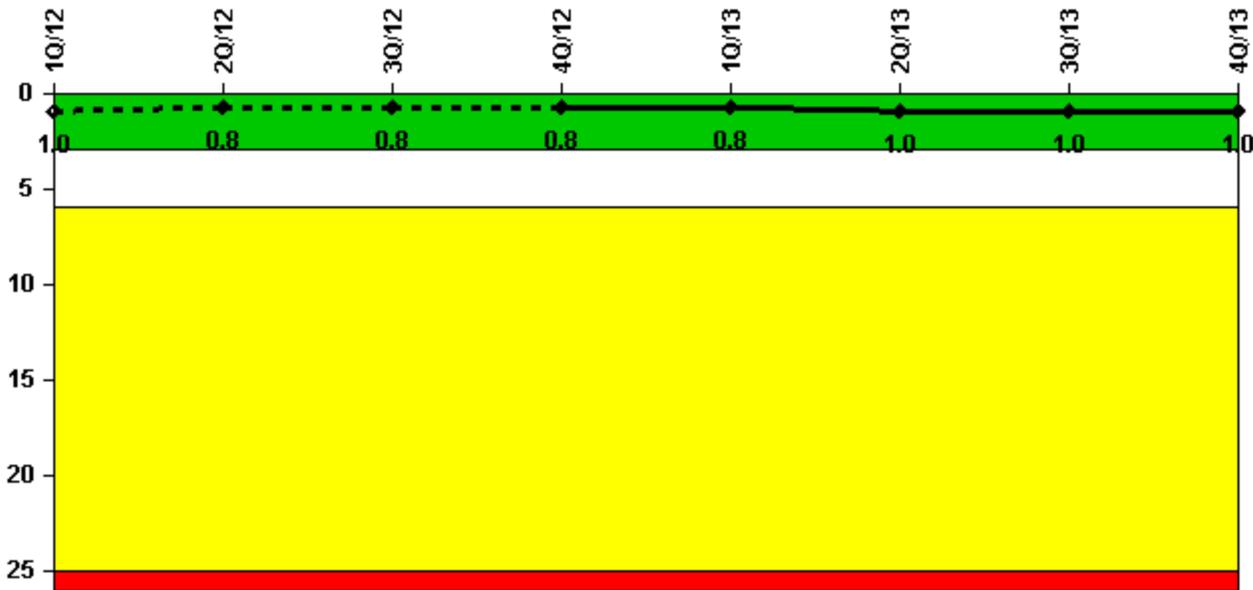
Perry 1

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



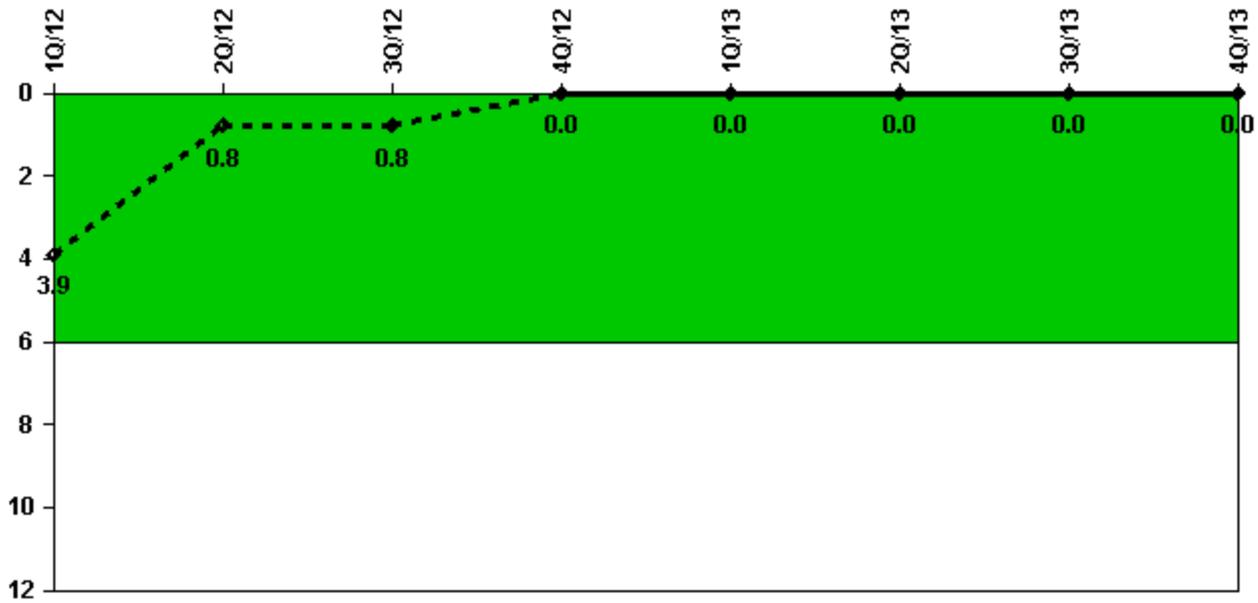
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams | 1.0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 2131.0 | 2111.7 | 2208.0 | 2209.0 | 1719.9 | 1098.3 | 2167.6 | 2209.0 |
| Indicator value | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 |

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



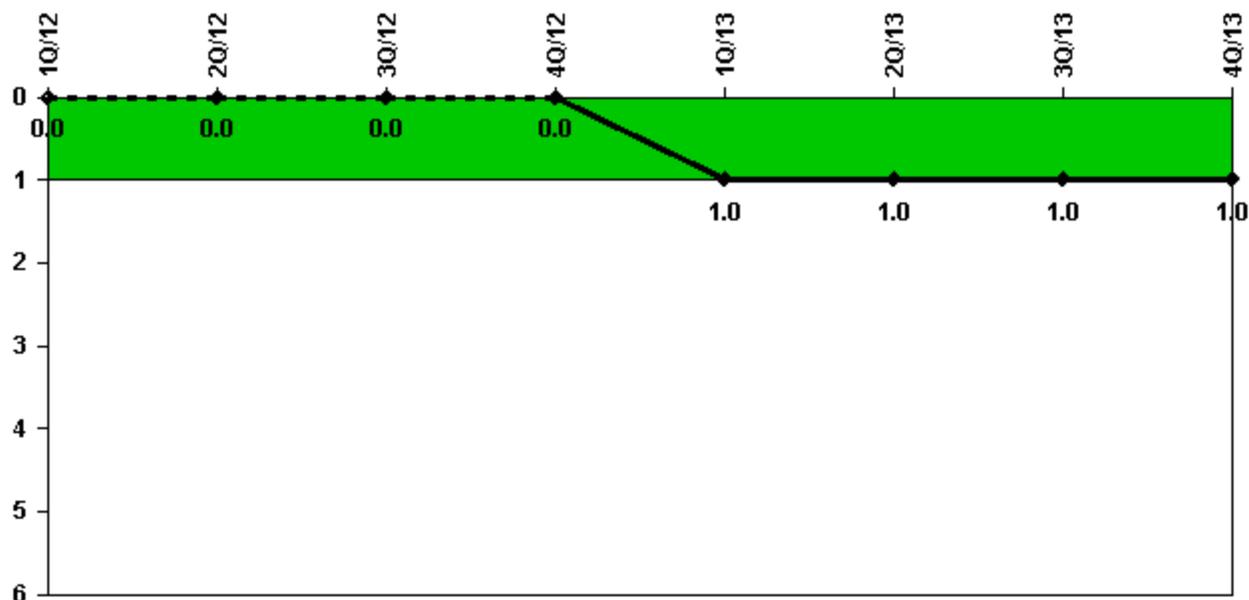
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|------------|------------|------------|----------|----------|----------|----------|----------|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2131.0 | 2111.7 | 2208.0 | 2209.0 | 1719.9 | 1098.3 | 2167.6 | 2209.0 |
| Indicator value | 3.9 | 0.8 | 0.8 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

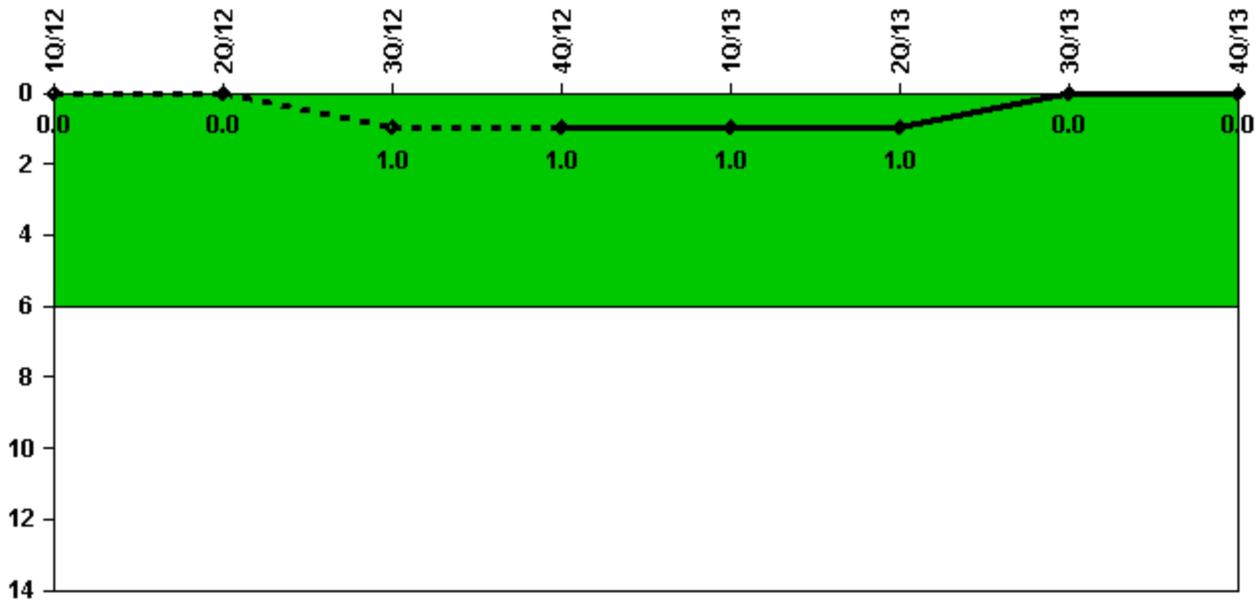
Notes

| Unplanned Scrams with Complications | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|-------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Scrams with complications | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 |
| | | | | | | | | |
| Indicator value | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |

Licensee Comments:

1Q/13: Further review of the January 22, 2013 scram against NEI 99-02 Revision 6 criteria determined that it counts as a USwC. A change file is submitted to correct the PI data initially reported.

Safety System Functional Failures (BWR)



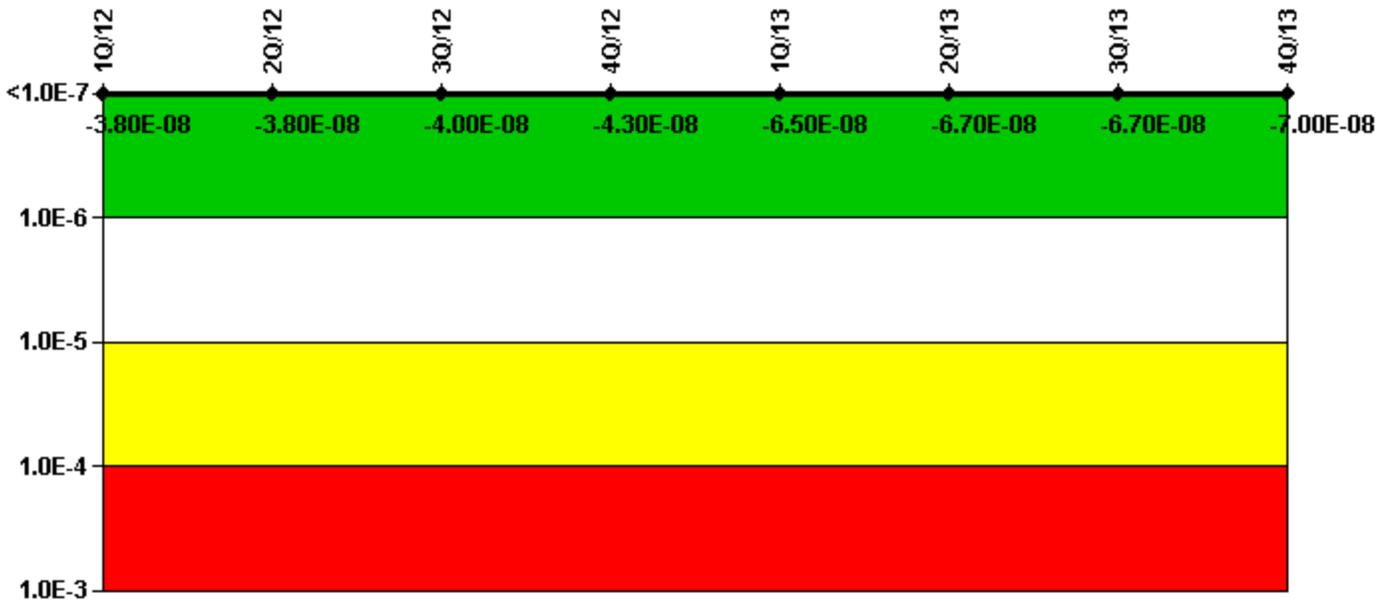
Thresholds: White > 6.0

Notes

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

Licensee Comments: none

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 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 2.19E-08 | 2.26E-08 | 1.97E-08 | 4.00E-08 | 1.75E-08 | 1.56E-08 | 1.60E-08 | 1.28E-08 |
| URI (Δ CDF) | -6.01E-08 | -6.01E-08 | -6.01E-08 | -8.30E-08 | -8.30E-08 | -8.30E-08 | -8.30E-08 | -8.30E-08 |
| PLE | NO |
| Indicator value | -3.80E-08 | -3.80E-08 | -4.00E-08 | -4.30E-08 | -6.50E-08 | -6.70E-08 | -6.70E-08 | -7.00E-08 |

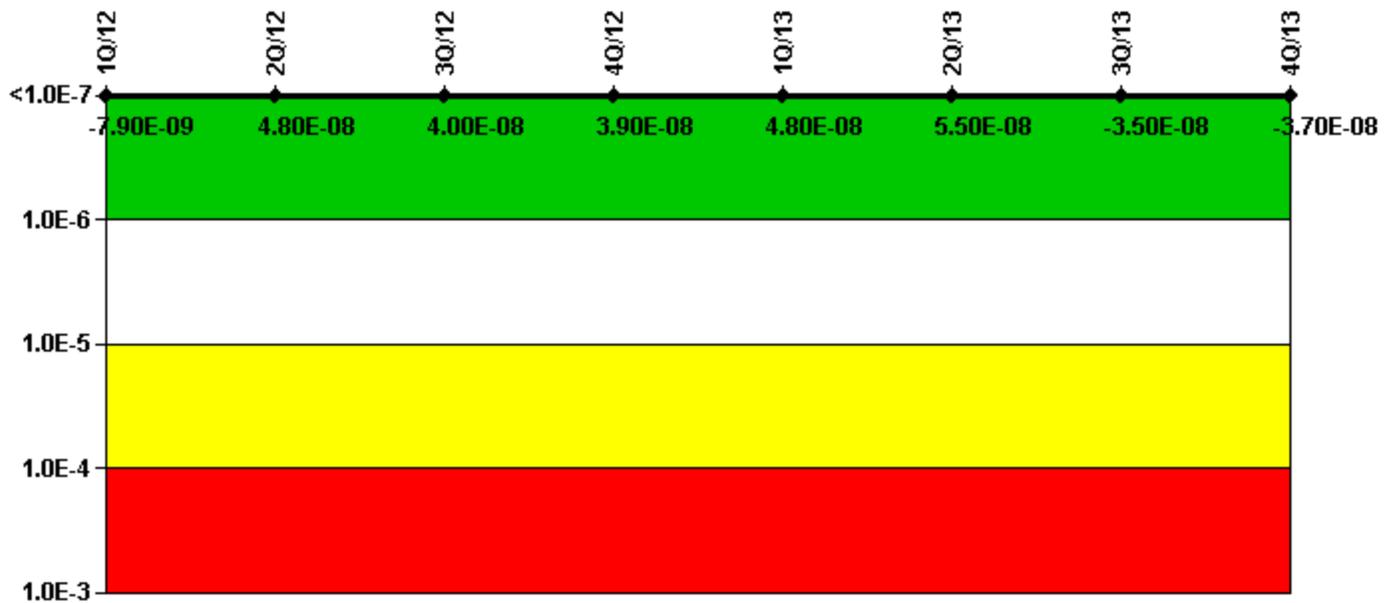
Licensee Comments:

2Q/13: Changed PRA Parameter(s). The common cause adjustment (CCA) factors were re-calculated to provide more precise results. The newly calculated CCA factors are applicable to Q4 2012 and later MSPI data.

1Q/13: Changed PRA Parameter(s).

4Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, High Pressure Injection System



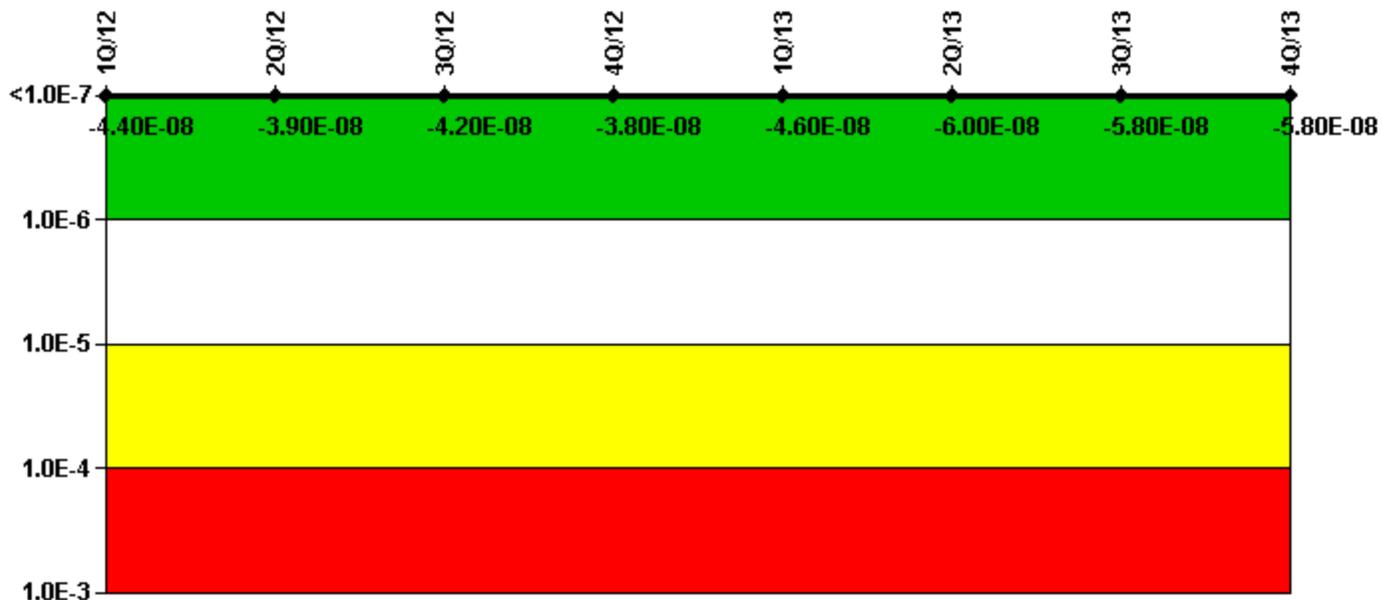
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 5.47E-08 | 1.11E-07 | 1.02E-07 | 9.77E-08 | 1.08E-07 | 1.14E-07 | 2.43E-08 | 2.29E-08 |
| URI (Δ CDF) | -6.26E-08 | -6.26E-08 | -6.26E-08 | -5.91E-08 | -5.96E-08 | -5.96E-08 | -5.96E-08 | -5.96E-08 |
| PLE | NO |
| Indicator value | -7.90E-09 | 4.80E-08 | 4.00E-08 | 3.90E-08 | 4.80E-08 | 5.50E-08 | -3.50E-08 | -3.70E-08 |

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



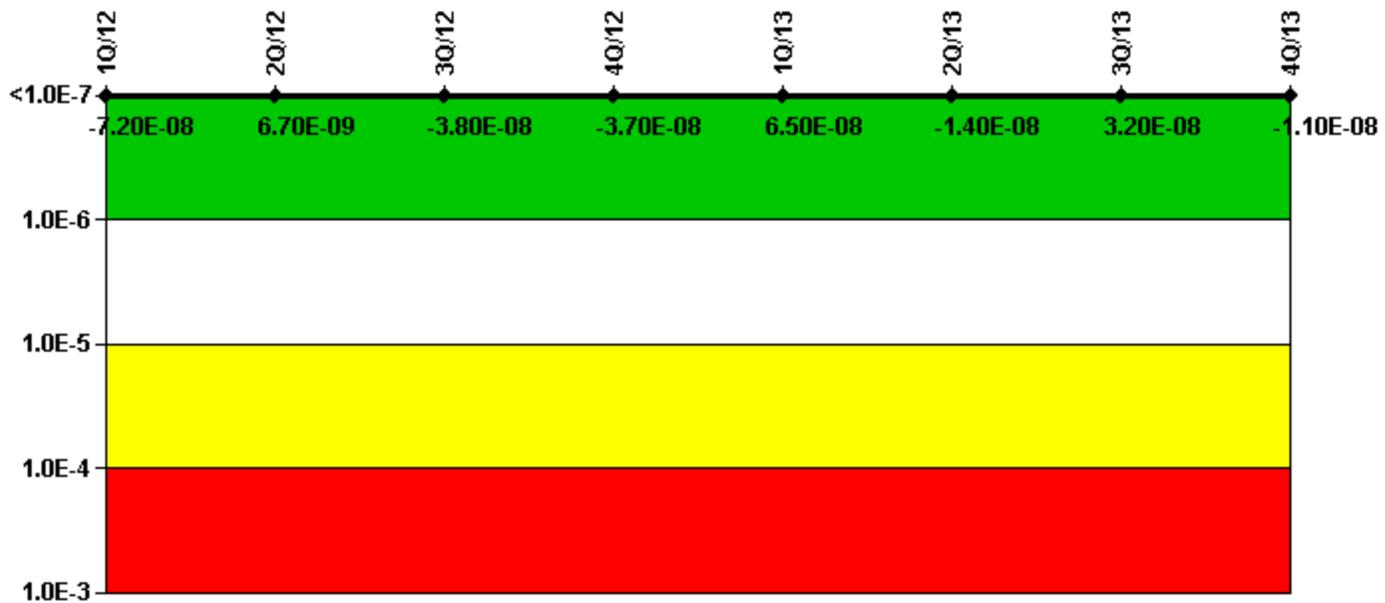
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

| Mitigating Systems Performance Index, Heat Removal System | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | -3.71E-09 | 1.79E-09 | -1.37E-09 | 4.38E-09 | -2.00E-09 | -1.63E-08 | -1.35E-08 | -1.35E-08 |
| URI (Δ CDF) | -4.03E-08 | -4.03E-08 | -4.03E-08 | -4.20E-08 | -4.40E-08 | -4.40E-08 | -4.40E-08 | -4.40E-08 |
| PLE | NO |
| Indicator value | -4.40E-08 | -3.90E-08 | -4.20E-08 | -3.80E-08 | -4.60E-08 | -6.00E-08 | -5.80E-08 | -5.80E-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 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (ΔCDF) | 8.46E-09 | 8.71E-08 | 4.28E-08 | 4.14E-08 | 1.43E-07 | 6.37E-08 | 1.10E-07 | 6.70E-08 |
| URI (ΔCDF) | -8.04E-08 | -8.04E-08 | -8.04E-08 | -7.80E-08 | -7.80E-08 | -7.80E-08 | -7.80E-08 | -7.80E-08 |
| PLE | NO |
| Indicator value | -7.20E-08 | 6.70E-09 | -3.80E-08 | -3.70E-08 | 6.50E-08 | -1.40E-08 | 3.20E-08 | -1.10E-08 |

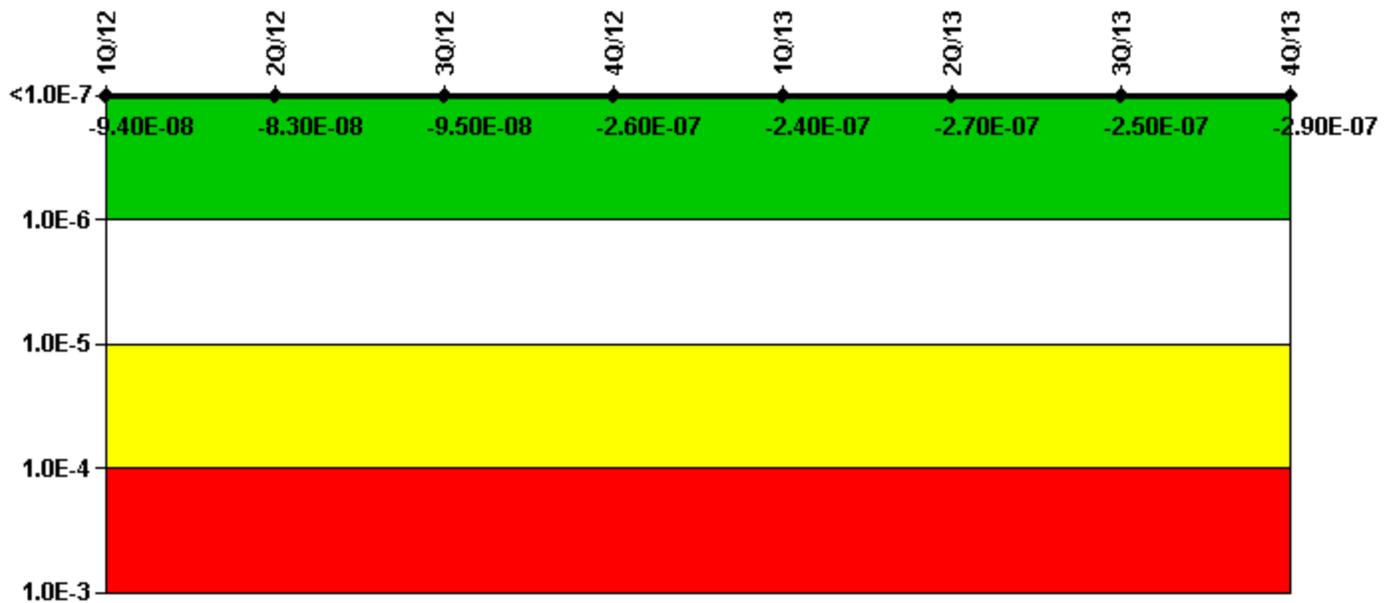
Licensee Comments:

2Q/13: Changed PRA Parameter(s). The common cause adjustment (CCA) factors were re-calculated to provide more precise results. The newly calculated CCA factors are applicable to Q4 2012 and later MSPI data.

1Q/13: Changed PRA Parameter(s).

4Q/12: Changed PRA Parameter(s).

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 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (ΔCDF) | -5.39E-08 | -4.20E-08 | -5.41E-08 | -3.91E-08 | -1.11E-08 | -4.60E-08 | -2.23E-08 | -6.58E-08 |
| URI (ΔCDF) | -4.06E-08 | -4.06E-08 | -4.06E-08 | -2.26E-07 | -2.26E-07 | -2.26E-07 | -2.26E-07 | -2.26E-07 |
| PLE | NO |
| Indicator value | -9.40E-08 | -8.30E-08 | -9.50E-08 | -2.60E-07 | -2.40E-07 | -2.70E-07 | -2.50E-07 | -2.90E-07 |

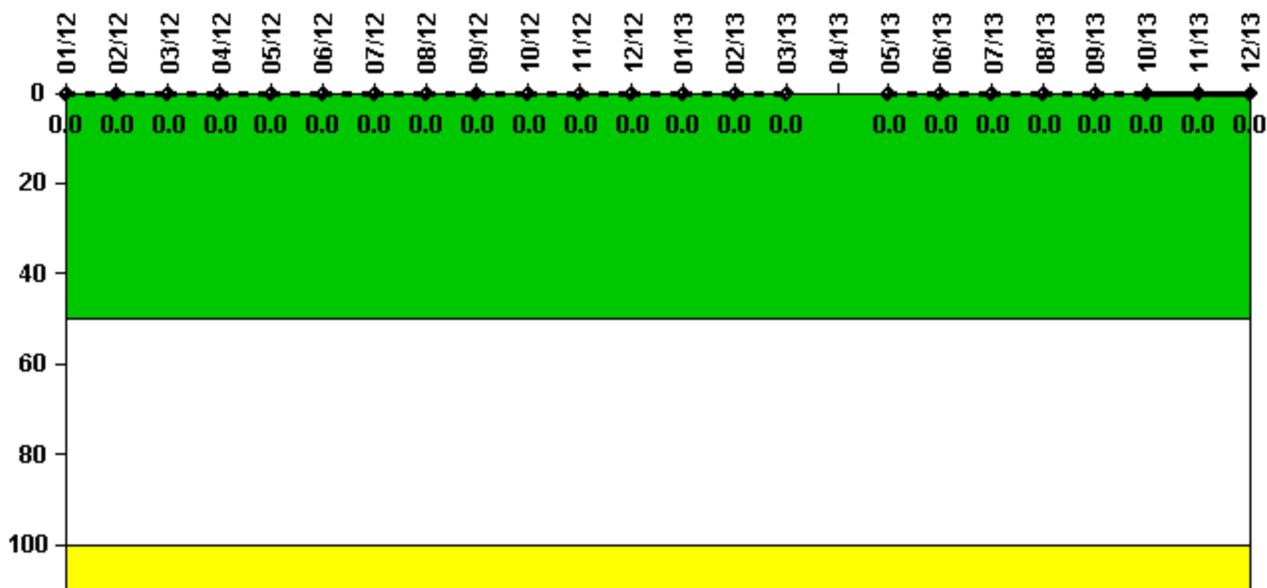
Licensee Comments:

2Q/13: Changed PRA Parameter(s). The common cause adjustment (CCA) factors were re-calculated to provide more precise results. The newly calculated CCA factors are applicable to Q4 2012 and later MSPI data.

1Q/13: Changed PRA Parameter(s).

4Q/12: Changed PRA Parameter(s).

Reactor Coolant System Activity



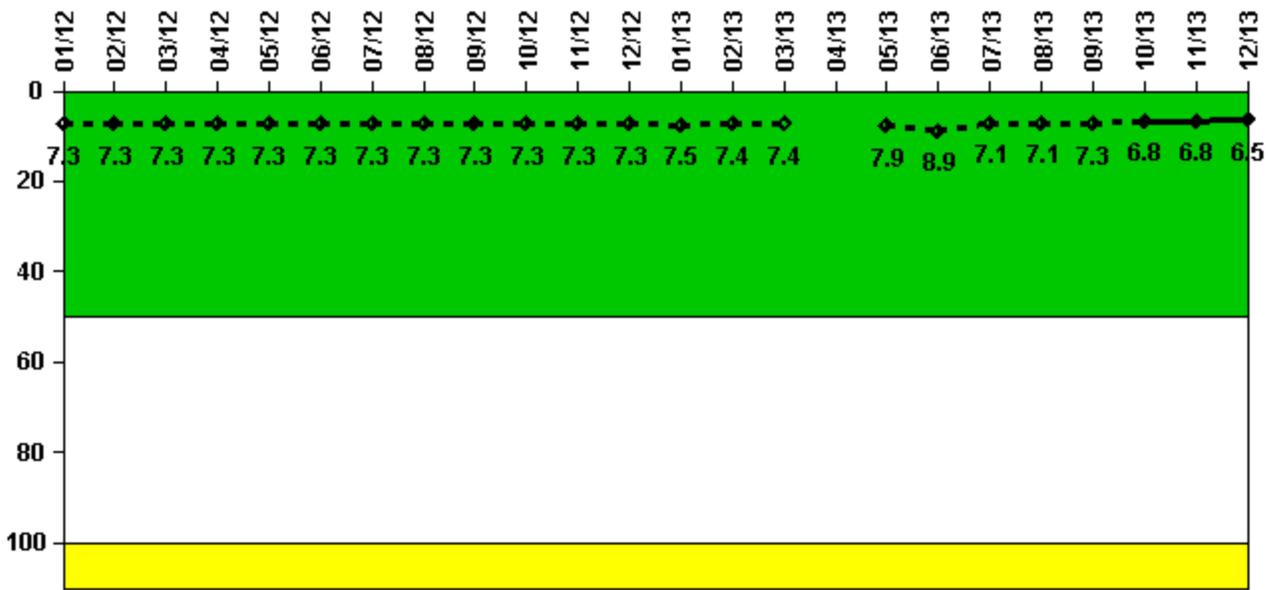
Thresholds: White > 50.0 Yellow > 100.0

Notes

| Reactor Coolant System Activity | 1/12 | 2/12 | 3/12 | 4/12 | 5/12 | 6/12 | 7/12 | 8/12 | 9/12 | 10/12 | 11/12 | 12/12 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0.000037 | 0.000045 | 0.000043 | 0.000026 | 0.000029 | 0.000032 | 0.000030 | 0.000028 | 0.000029 | 0.000039 | 0.000027 | 0.000031 |
| 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 | 1/13 | 2/13 | 3/13 | 4/13 | 5/13 | 6/13 | 7/13 | 8/13 | 9/13 | 10/13 | 11/13 | 12/13 |
| Maximum activity | 0.000025 | 0.000028 | 0.000029 | N/A | 0.000045 | 0.000017 | 0.000016 | 0.000016 | 0.000015 | 0.000017 | 0.000017 | 0.000025 |
| 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 | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

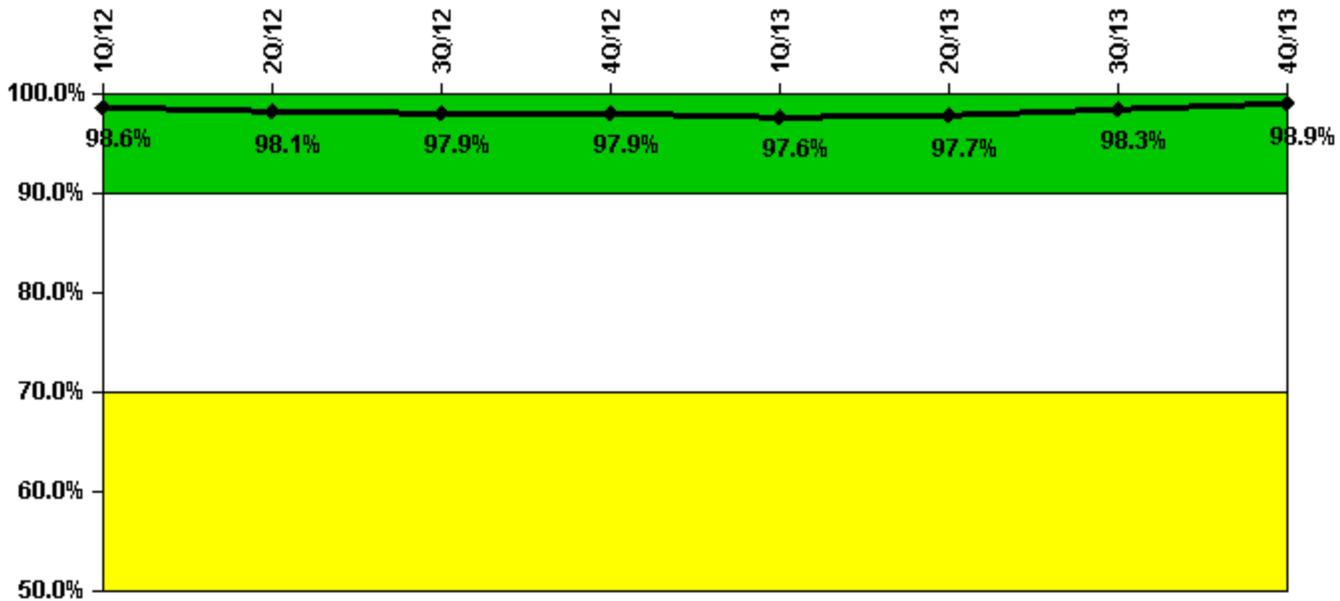
Notes

| Reactor Coolant System Leakage | 1/12 | 2/12 | 3/12 | 4/12 | 5/12 | 6/12 | 7/12 | 8/12 | 9/12 | 10/12 | 11/12 | 12/12 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 2.180 | 2.200 | 2.200 | 2.190 | 2.190 | 2.190 | 2.190 | 2.180 | 2.180 | 2.200 | 2.200 | 2.200 |
| Technical specification limit | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Indicator value | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| Reactor Coolant System Leakage | 1/13 | 2/13 | 3/13 | 4/13 | 5/13 | 6/13 | 7/13 | 8/13 | 9/13 | 10/13 | 11/13 | 12/13 |
| Maximum leakage | 2.250 | 2.210 | 2.210 | N/A | 2.380 | 2.680 | 2.130 | 2.130 | 2.200 | 2.050 | 2.050 | 1.950 |
| Technical specification limit | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Indicator value | 7.5 | 7.4 | 7.4 | N/A | 7.9 | 8.9 | 7.1 | 7.1 | 7.3 | 6.8 | 6.8 | 6.5 |

Licensee Comments:

9/13: On November 19, 2013 it was discovered that an incorrect value had been submitted for Maximum RCS Identified Leakage for July 2013. 2.14 gpm had been entered, the correct value is 2.13 gpm. The change does not affect the PI value.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

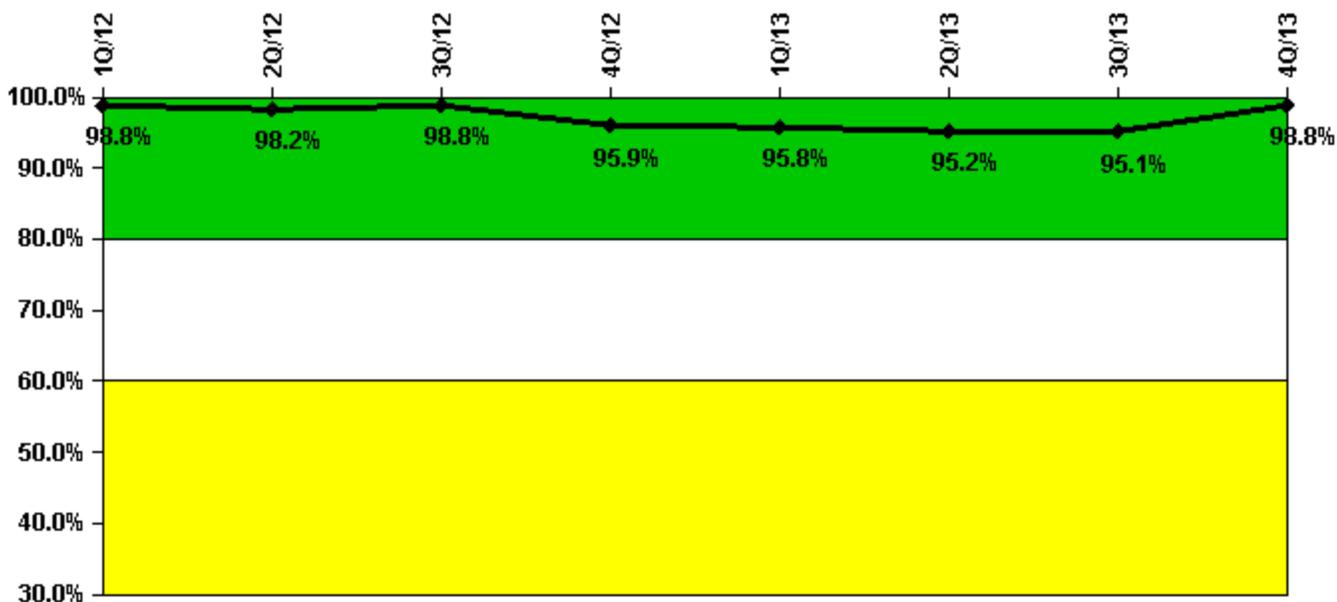
Notes

| Drill/Exercise Performance | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 46.0 | 22.0 | 25.0 | 19.0 | 7.0 | 6.0 | 28.0 | 20.0 |
| Total opportunities | 46.0 | 23.0 | 26.0 | 19.0 | 7.0 | 6.0 | 28.0 | 20.0 |
| Indicator value | 98.6% | 98.1% | 97.9% | 97.9% | 97.6% | 97.7% | 98.3% | 98.9% |

Licensee Comments:

2Q/12: Corrected the number total opportunities from 2 to 3 initially reported for June 2012. Added a missed DEP opportunity for not declaring an Unusual Event for in-plant changing radiological conditions on June 3, 2012 that met EPlan entry criteria, discovered after the fact. PI color remains GREEN.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

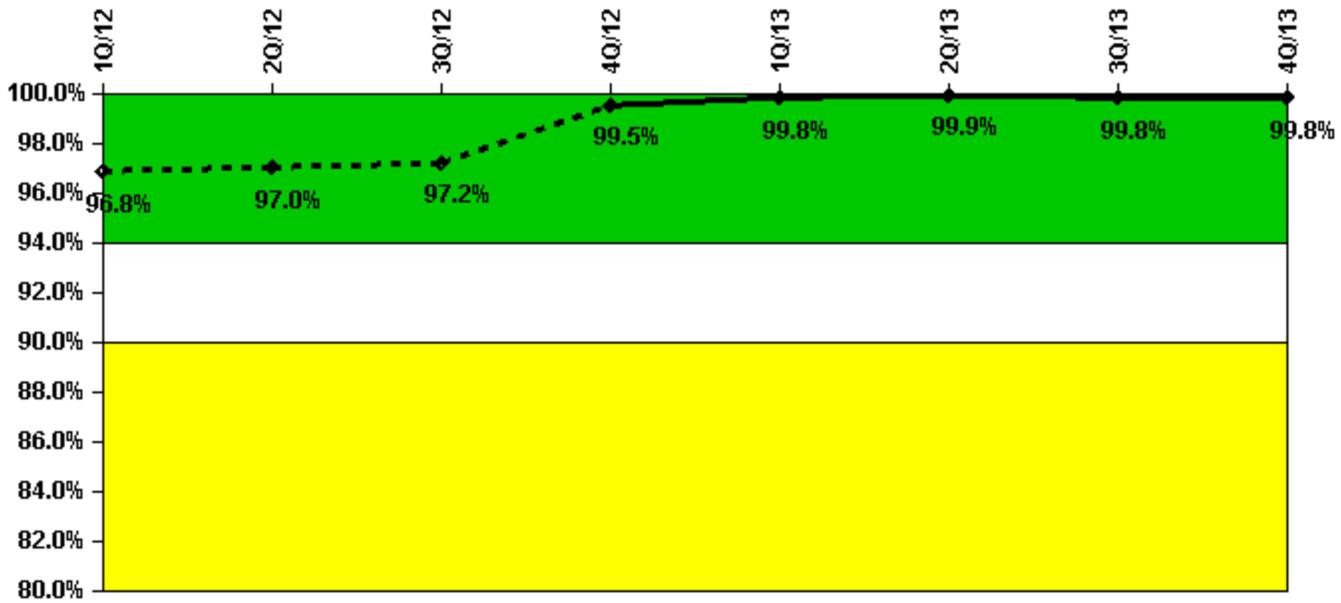
Notes

| ERO Drill Participation | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Participating Key personnel | 161.0 | 165.0 | 162.0 | 163.0 | 159.0 | 159.0 | 155.0 | 159.0 |
| Total Key personnel | 163.0 | 168.0 | 164.0 | 170.0 | 166.0 | 167.0 | 163.0 | 161.0 |
| Indicator value | 98.8% | 98.2% | 98.8% | 95.9% | 95.8% | 95.2% | 95.1% | 98.8% |

Licensee Comments:

3Q/12: Changed the number of participating and total key ERO personnel initially reported in September 2012. An individual was removed from the key ERO population for unavailability to respond to an emergency event. PI color remains GREEN.

Alert & Notification System



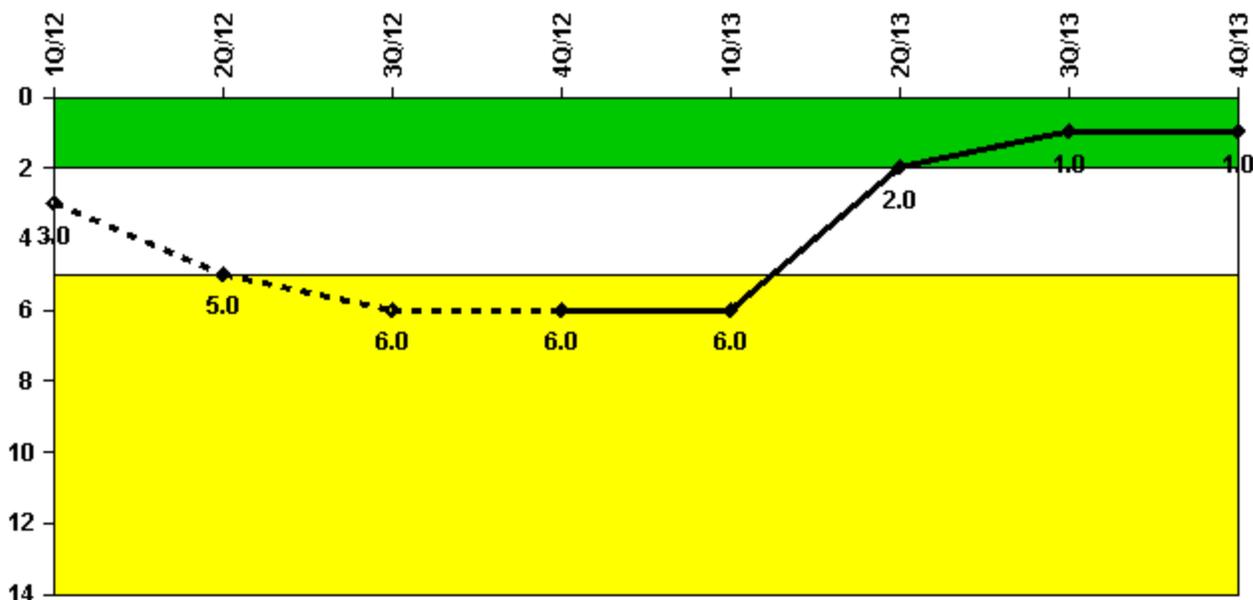
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests | 525 | 530 | 520 | 531 | 531 | 532 | 593 | 532 |
| Total sirens-tests | 532 | 532 | 521 | 532 | 532 | 532 | 596 | 532 |
| Indicator value | 96.8% | 97.0% | 97.2% | 99.5% | 99.8% | 99.9% | 99.8% | 99.8% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| High radiation area occurrences | 0 | 5 | 1 | 0 | 0 | 1 | 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 | 3 | 5 | 6 | 6 | 6 | 2 | 1 | 1 |

Licensee Comments:

3Q/12: The 2012-09 PI occurrence for potential inadequate LHRA controls established for a loaded HI-STORM container is currently being evaluated at the root cause level. The PI value may change depending on results of the root cause evaluation.

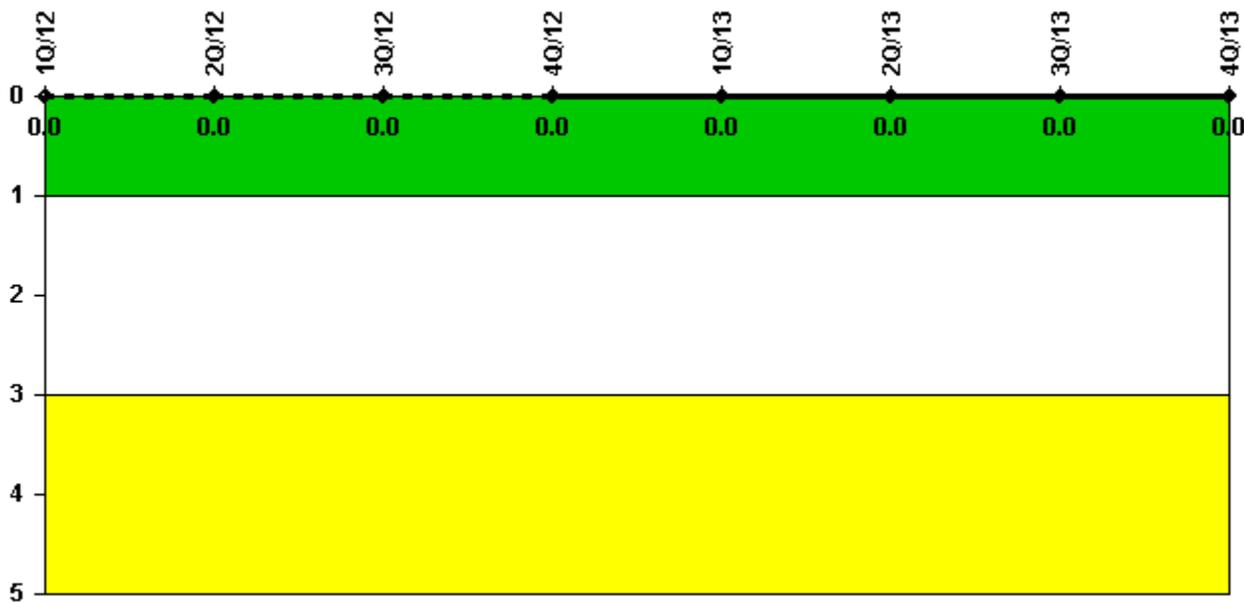
2Q/12: The number of TS HRA occurrences reported for June remains under evaluation at this time. A Frequently Asked Question (FAQ) submittal is planned to address the associated issues, which include having the same cause in a common time frame for the occurrences. The PI value may be modified as a result. With submittal of the Second Quarter 2012 PI data, the indicator performance has exceeded the green/white threshold and has moved to the Increased Regulatory Response Band. The PI color is WHITE.

2Q/12: Corrected the number of TS HRA occurrences initially reported for June 2012 from 4 to 2 based on further review of the associated event and application of NEI 99-02 guidelines. A Frequently Asked Question (FAQ) has been submitted to address the associated issues, which include having the same cause in a common time frame for the occurrences. The FAQ is currently under review at this time. The PI value may be modified at the completion of the FAQ process. The PI color is WHITE (Increased Regulatory Response Band) and is not changed by this correction. Corrected the number of TS HRA occurrences reported for April 2012 from 0 to 1. A root cause extent-of-condition review performed in the fourth quarter 2012 identified an area in the plant which met TS HRA conditions in April 2012 that was not controlled in accordance with TS. PI color remains WHITE.

2Q/12: Corrected the number of TS HRA occurrences initially reported for June 2012 from 2 to 3 based on the final outcome of Frequently Asked Question (FAQ) 12-04. The FAQ process was entered to evaluate the number of occurrences that should be reported for the June 2-7, 2012, Radwaste El. 574 resin event. NRC ROP review of the FAQ determined that 3 TS HRA occurrences should be reported. Also the number of TS HRA occurrences reported for April 2012 was corrected earlier from 0 to 1. A root cause extent-of-condition review performed in the fourth quarter 2012 identified an area of the plant which met TS HRA conditions in April 2012 that was not controlled in accordance with TS. With these corrections, the total number of TS HRA occurrences at the end of the Second Quarter 2012 is 5, which is at WHITE/YELLOW (Increased Regulatory Response Band/Required Regulatory Response Band) performance threshold. The PI color transitions to YELLOW in September 2012 when a TS HRA occurrence was experienced for failure to adequately control access to the top of a loaded HI-STORM container whose radiation levels met criteria for a TS HRA. In April 2013, performance returns to the WHITE/YELLOW threshold with a total of 5 occurrences in the past 12 months.

2Q/12: Corrected the number of TS HRA occurrences initially reported for June 2012 from 4 to 2 based on further review of the associated event and application of NEI 99-02 guidelines. A Frequently Asked Question (FAQ) has been submitted to address the associated issues, which include having the same cause in a common time frame for the occurrences. The FAQ is currently under review at this time. The PI value may be modified at the completion of the FAQ process. The PI color is WHITE (Increased Regulatory Response Band) and is not changed by this correction.

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

| RETS/ODCM Radiological Effluent | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | |

| | | | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indicator value | 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: January 22, 2014