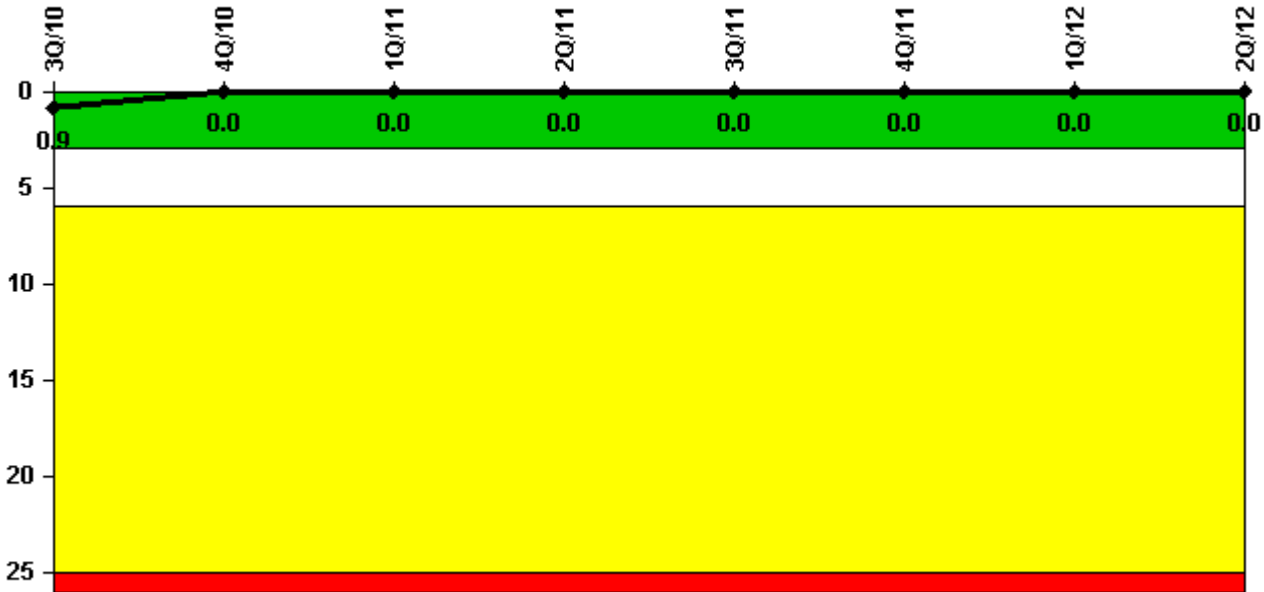


Waterford 3

2Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



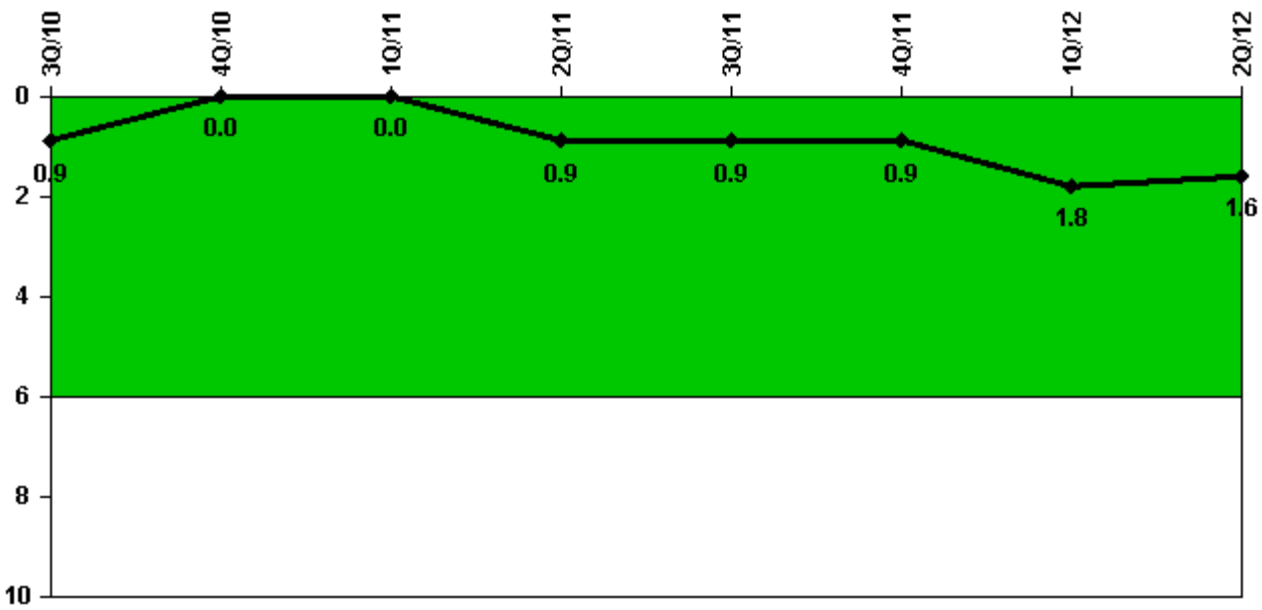
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 2159.0 | 1341.8 | 2208.0 | 2209.0 | 2183.0 | 2184.0 |
| Indicator value | 0.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



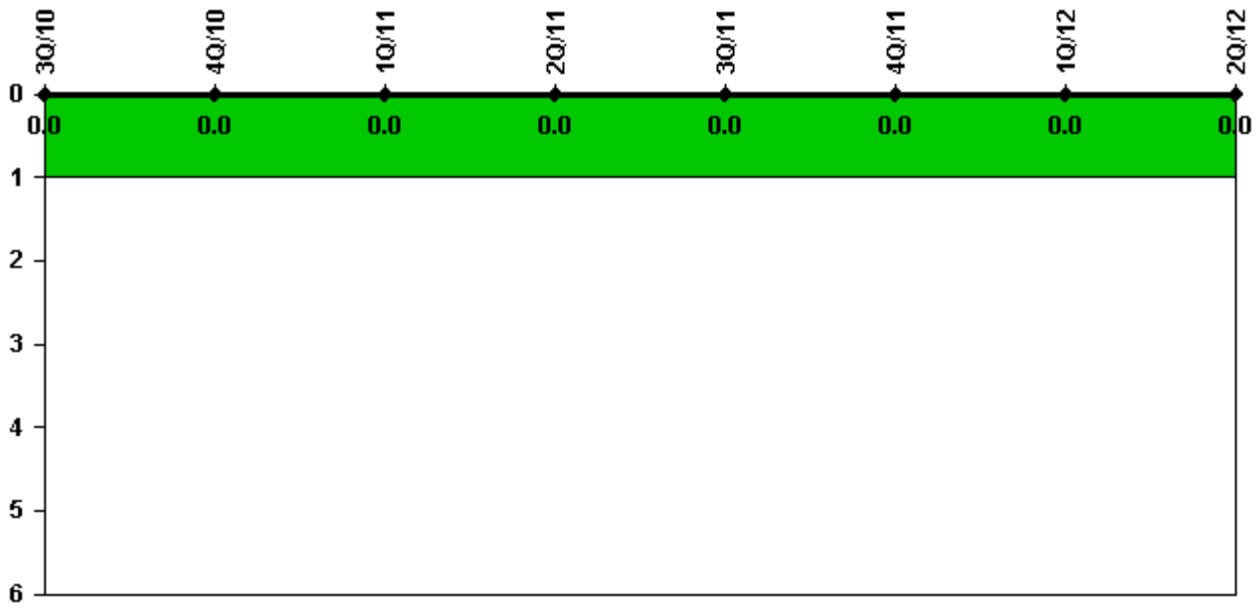
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes | 0 | 0 | 0 | 1.0 | 0 | 0 | 1.0 | 1.0 |
| Critical hours | 2208.0 | 2209.0 | 2159.0 | 1341.8 | 2208.0 | 2209.0 | 2183.0 | 2184.0 |
| Indicator value | 0.9 | 0 | 0 | 0.9 | 0.9 | 0.9 | 1.8 | 1.6 |

Licensee Comments: none

Unplanned Scrams with Complications



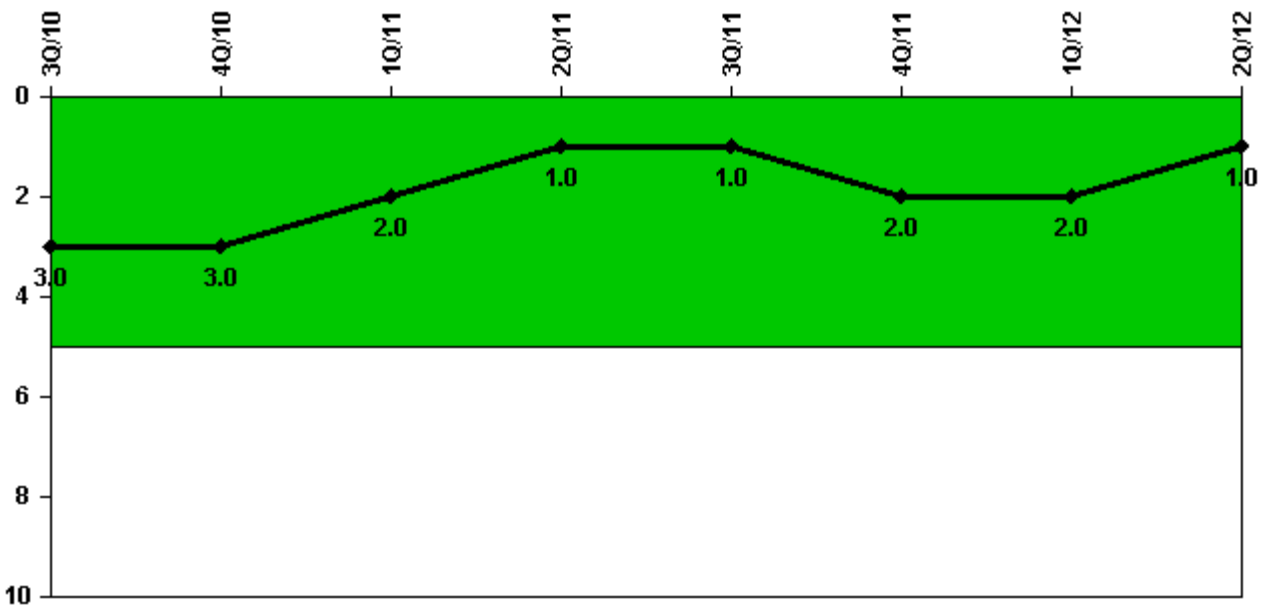
Thresholds: White > 1.0

Notes

| Unplanned Scrams with Complications | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 (PWR)



Thresholds: White > 5.0

Notes

| Safety System Functional Failures (PWR) | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Safety System Functional Failures | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Indicator value | 3 | 3 | 2 | 1 | 1 | 2 | 2 | 1 |

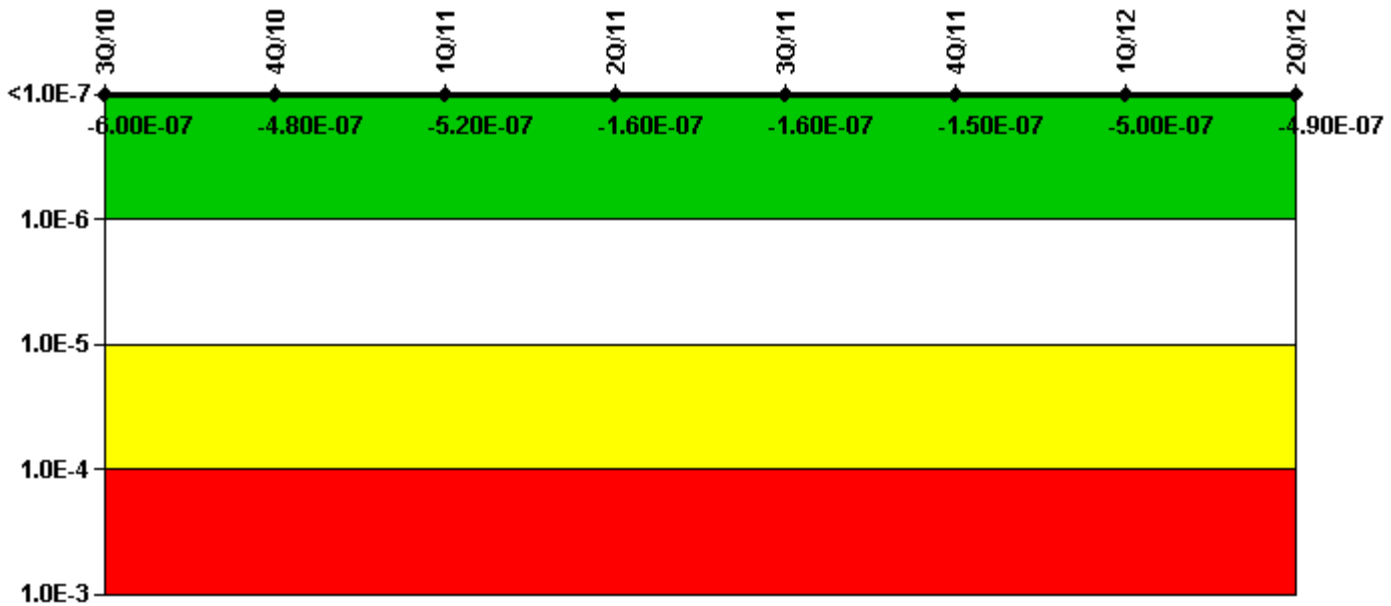
Licensee Comments:

4Q/11: A SSFF associated with the Heat Removal System was reported in Licensee Event Report 2011-005-00.

3Q/11: A change file is being submitted this quarter to provide a Licensee Event Report number for a Safety System Functional Failure that occurred in the second quarter of 2011. There is no change to the PI value or color.

2Q/11: There was one Safety System Functional Failure in the 2nd quarter of 2011 reported under License Event Report 2011-003-00.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

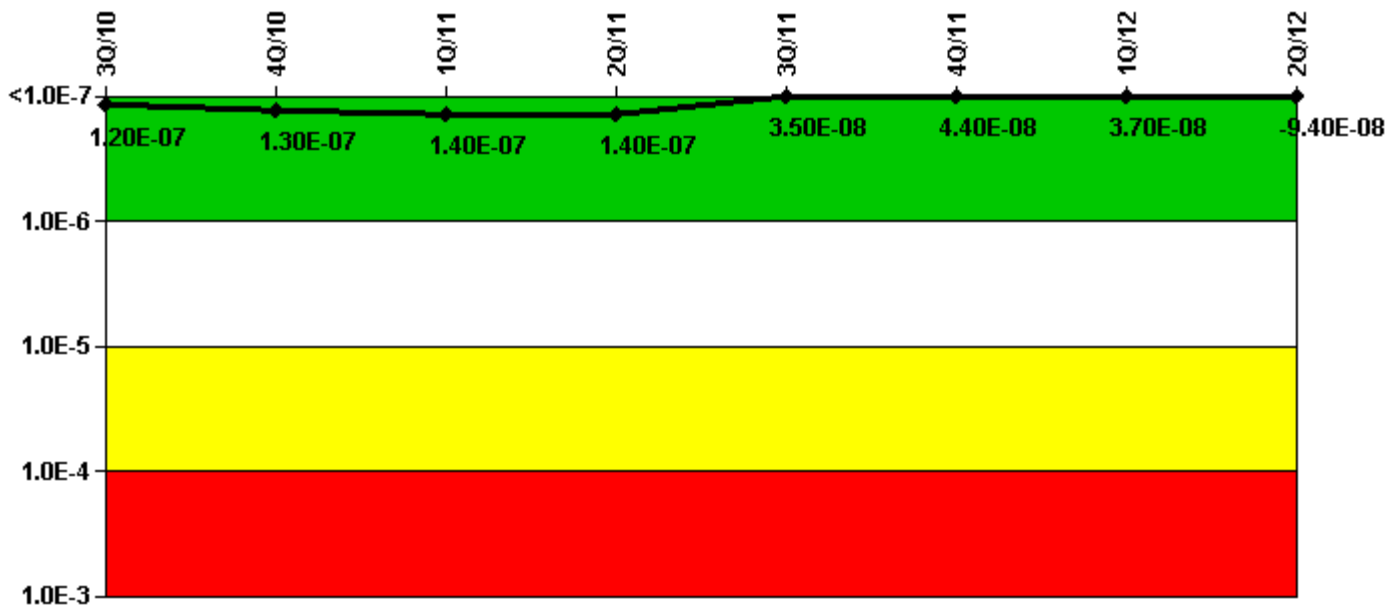
| Mitigating Systems Performance Index, Emergency AC Power System | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 7.37E-10 | 1.20E-07 | 7.11E-08 | 1.37E-07 | 1.38E-07 | 1.38E-07 | 4.65E-08 | 1.66E-08 |
| URI (Δ CDF) | -5.96E-07 | -5.96E-07 | -5.91E-07 | -3.00E-07 | -2.99E-07 | -2.86E-07 | -5.47E-07 | -5.04E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -6.00E-07 | -4.80E-07 | -5.20E-07 | -1.60E-07 | -1.60E-07 | -1.50E-07 | -5.00E-07 | -4.90E-07 |

Licensee Comments:

2Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised in April 2012 to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and was effective with the 1st quarter 2012 MSPI data.

1Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and is effective with the 1st quarter 2012 MSPI data.

Mitigating Systems Performance Index, High Pressure Injection System



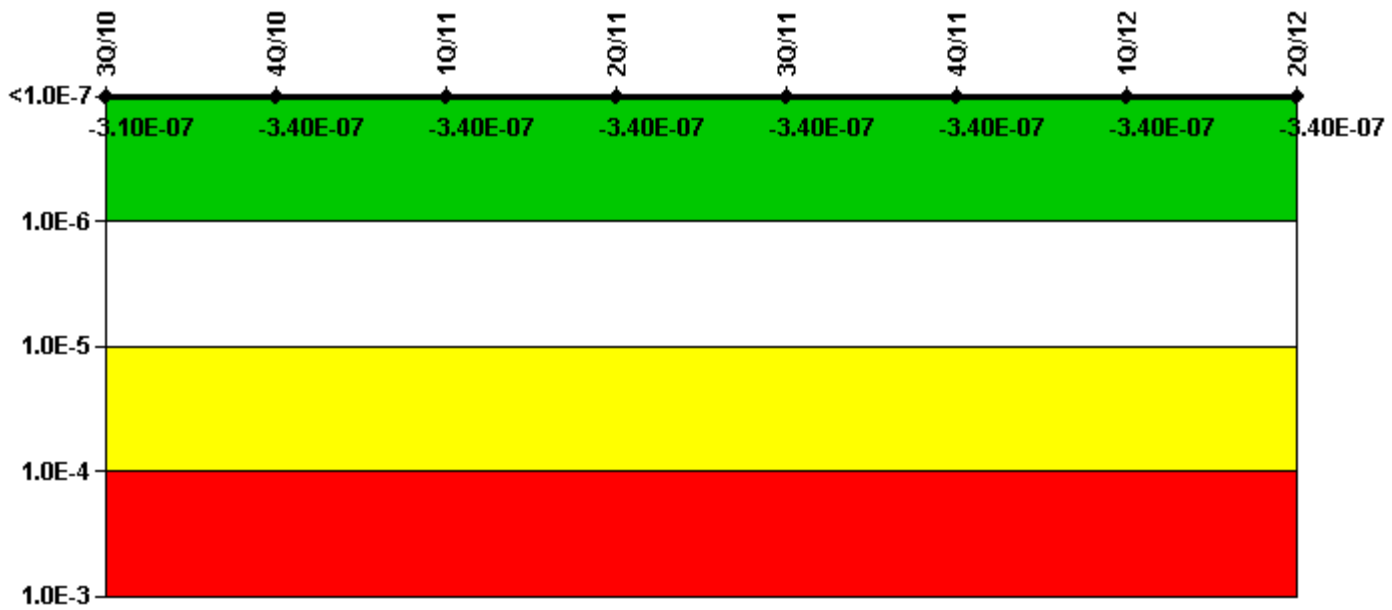
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|--|-----------|----------|----------|----------|----------|----------|----------|-----------|
| UAI (Δ CDF) | -2.98E-10 | 2.92E-09 | 1.05E-08 | 1.06E-08 | 1.29E-08 | 1.29E-08 | 1.74E-09 | -4.26E-09 |
| URI (Δ CDF) | 1.24E-07 | 1.29E-07 | 1.32E-07 | 1.29E-07 | 2.20E-08 | 3.10E-08 | 3.53E-08 | -8.97E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | 1.20E-07 | 1.30E-07 | 1.40E-07 | 1.40E-07 | 3.50E-08 | 4.40E-08 | 3.70E-08 | -9.40E-08 |

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



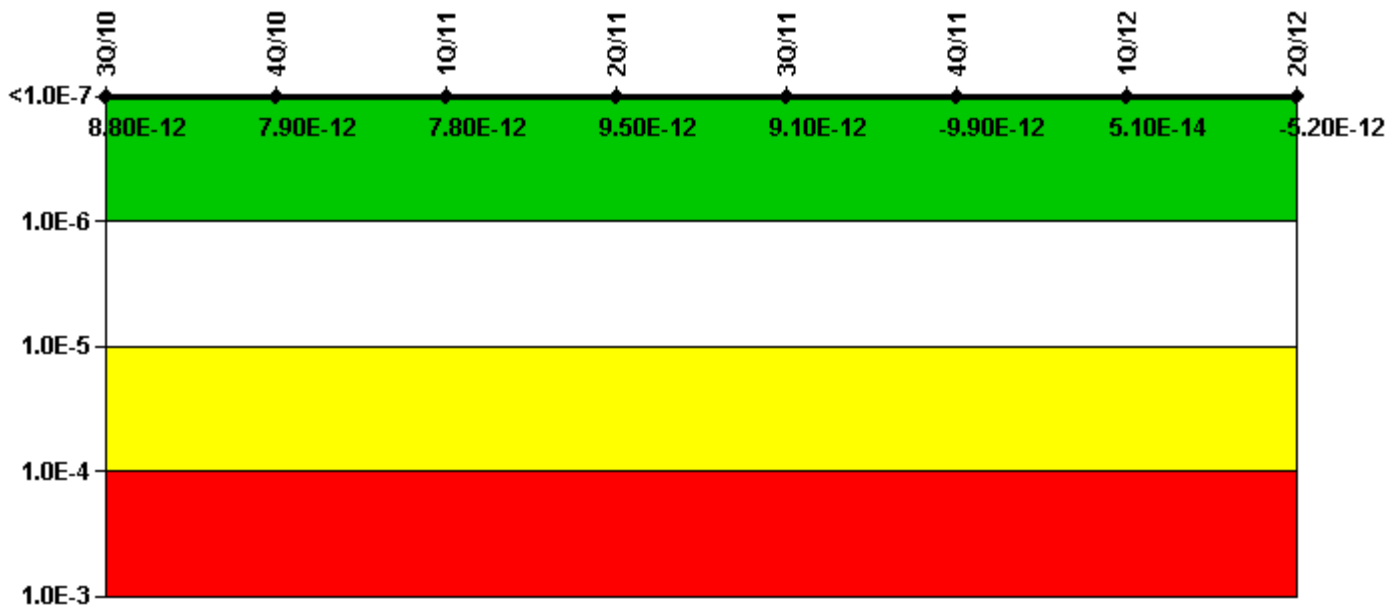
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

| Mitigating Systems Performance Index, Heat Removal System | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | -7.46E-09 | -3.68E-08 | -4.30E-08 | -4.30E-08 | -4.30E-08 | -4.27E-08 | -4.27E-08 | -4.30E-08 |
| URI (Δ CDF) | -2.98E-07 | -3.00E-07 | -2.99E-07 | -2.96E-07 | -3.02E-07 | -3.00E-07 | -2.96E-07 | -3.00E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -3.10E-07 | -3.40E-07 | -3.40E-07 | -3.40E-07 | -3.40E-07 | -3.40E-07 | -3.40E-07 | -3.40E-07 |

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



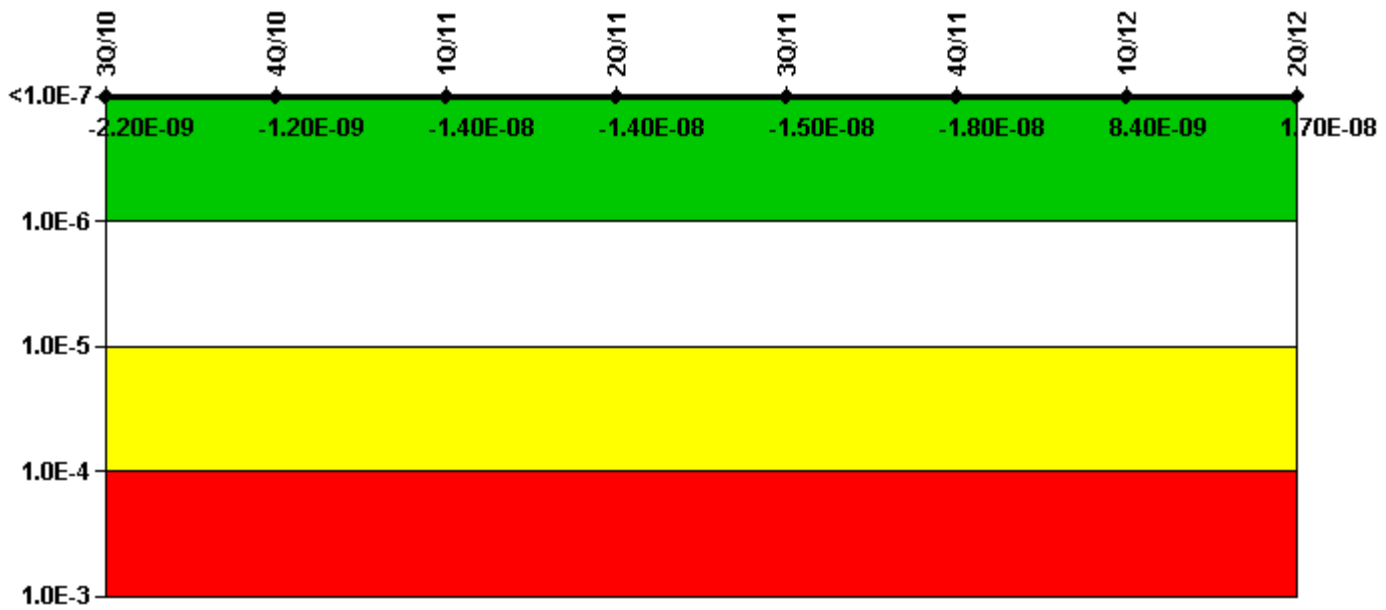
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

| Mitigating Systems Performance Index, Residual Heat Removal System | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 2.07E-11 | 1.98E-11 | 1.98E-11 | 2.14E-11 | 2.08E-11 | 1.61E-12 | 1.17E-11 | 6.30E-12 |
| URI (Δ CDF) | -1.19E-11 | -1.18E-11 | -1.20E-11 | -1.18E-11 | -1.16E-11 | -1.16E-11 | -1.16E-11 | -1.15E-11 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | 8.80E-12 | 7.90E-12 | 7.80E-12 | 9.50E-12 | 9.10E-12 | -9.90E-12 | 5.10E-14 | -5.20E-12 |

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



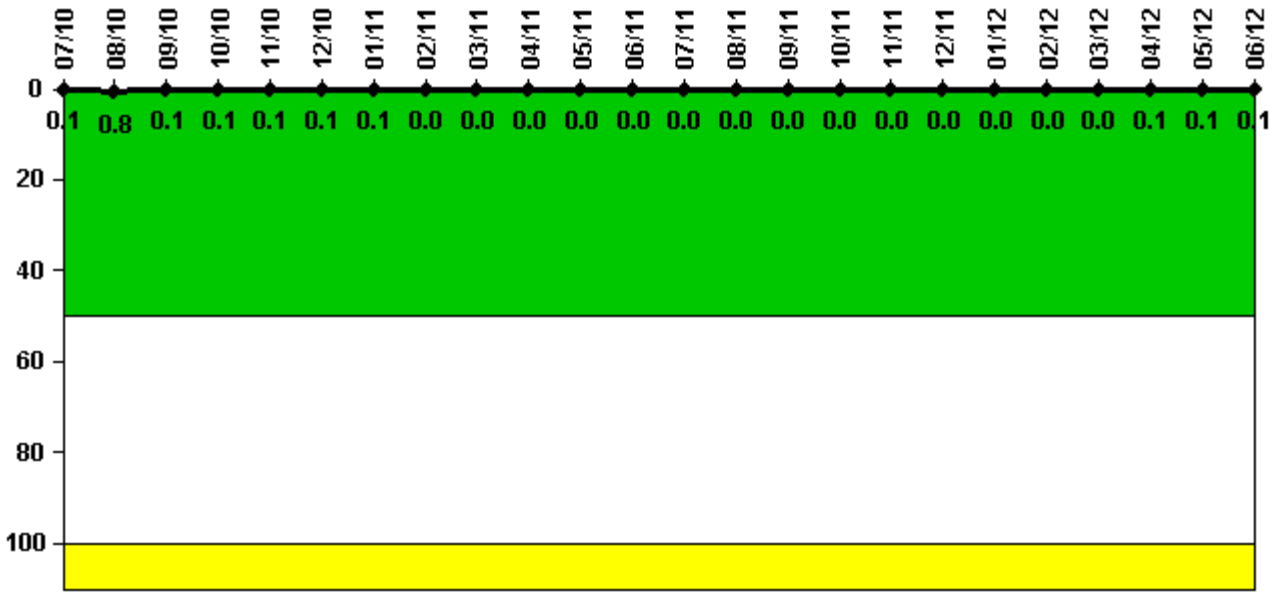
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

| Mitigating Systems Performance Index, Cooling Water Systems | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 1.03E-08 | 1.16E-08 | 1.20E-08 | 1.20E-08 | 1.13E-08 | 8.18E-09 | 3.38E-08 | 3.69E-08 |
| URI (Δ CDF) | -1.25E-08 | -1.29E-08 | -2.62E-08 | -2.63E-08 | -2.67E-08 | -2.59E-08 | -2.54E-08 | -2.02E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -2.20E-09 | -1.20E-09 | -1.40E-08 | -1.40E-08 | -1.50E-08 | -1.80E-08 | 8.40E-09 | 1.70E-08 |

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

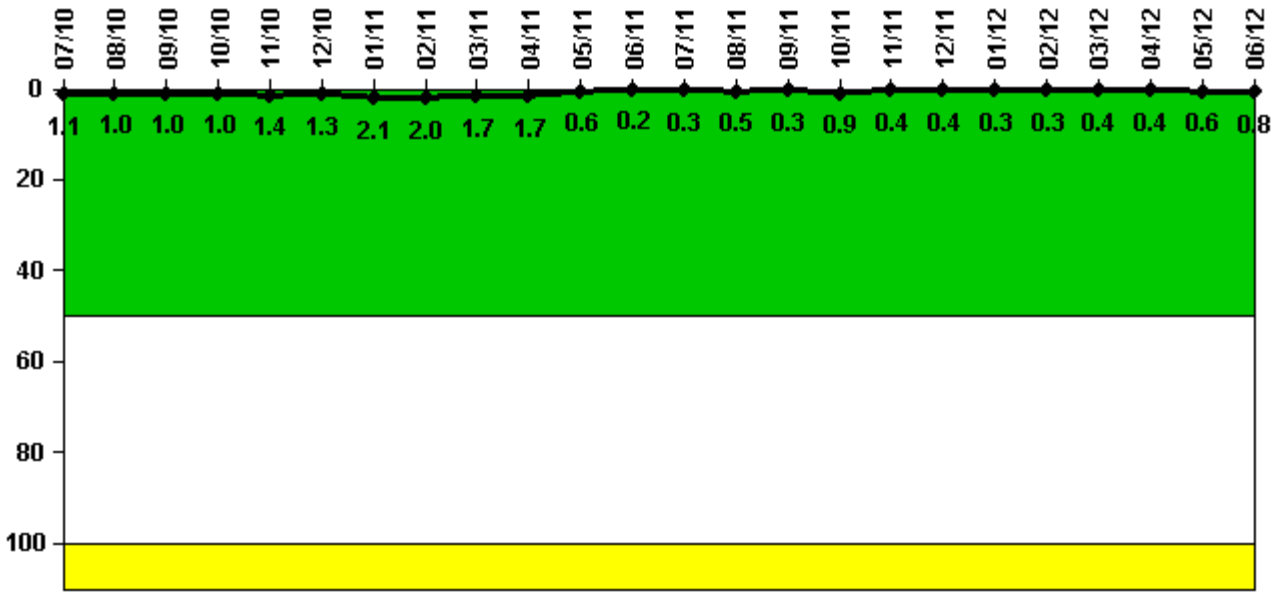
Notes

| Reactor Coolant System Activity | 7/10 | 8/10 | 9/10 | 10/10 | 11/10 | 12/10 | 1/11 | 2/11 | 3/11 | 4/11 | 5/11 | 6/11 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0.000724 | 0.008380 | 0.000762 | 0.000788 | 0.000759 | 0.000813 | 0.000814 | 0.000482 | 0.000278 | 0.000292 | 0.000248 | 0.000418 |
| Technical specification limit | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Indicator value | 0.1 | 0.8 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0 | 0 | 0 | 0 | 0 |

| Reactor Coolant System Activity | 7/11 | 8/11 | 9/11 | 10/11 | 11/11 | 12/11 | 1/12 | 2/12 | 3/12 | 4/12 | 5/12 | 6/12 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0.000436 | 0.000424 | 0.000413 | 0.000307 | 0.000449 | 0.000314 | 0.000499 | 0.000331 | 0.000355 | 0.000522 | 0.000580 | 0.000657 |
| Technical specification limit | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0.1 | 0.1 |

Licensee Comments: none

Reactor Coolant System Leakage



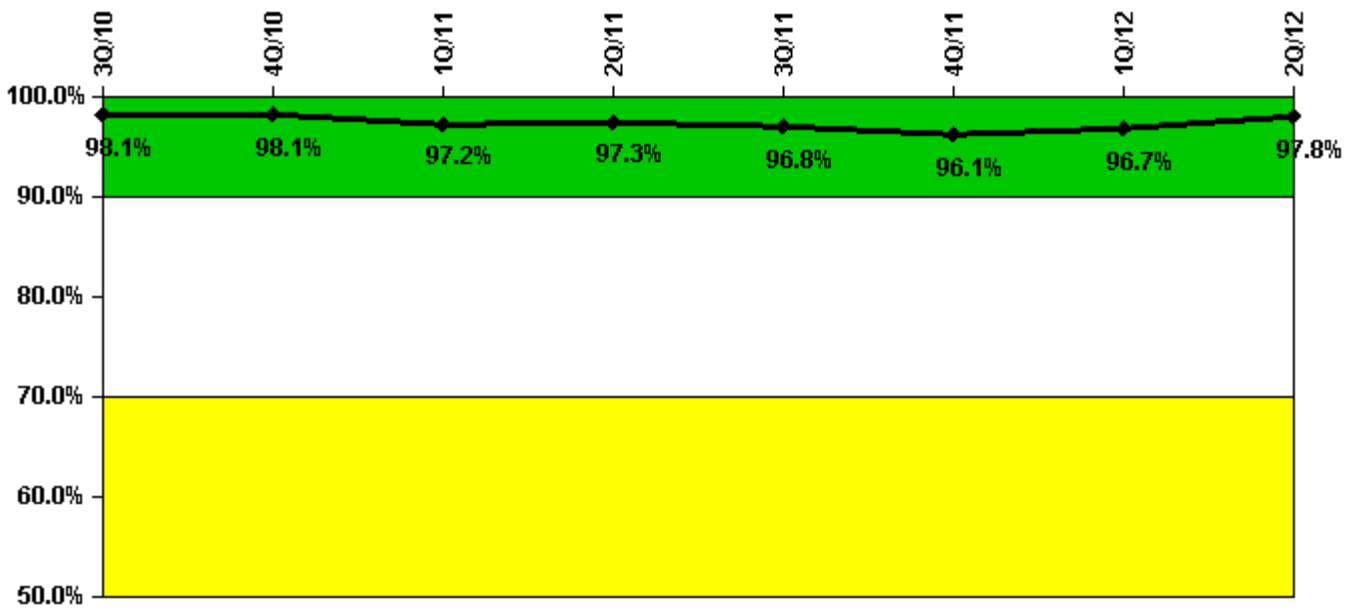
Thresholds: White > 50.0 Yellow > 100.0

Notes

| | | | | | | | | | | | | |
|---------------------------------------|-------------|-------------|-------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Reactor Coolant System Leakage | 7/10 | 8/10 | 9/10 | 10/10 | 11/10 | 12/10 | 1/11 | 2/11 | 3/11 | 4/11 | 5/11 | 6/11 |
| Maximum leakage | 0.110 | 0.100 | 0.100 | 0.100 | 0.140 | 0.130 | 0.210 | 0.200 | 0.170 | 0.170 | 0.060 | 0.020 |
| Technical specification limit | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Indicator value | 1.1 | 1.0 | 1.0 | 1.0 | 1.4 | 1.3 | 2.1 | 2.0 | 1.7 | 1.7 | 0.6 | 0.2 |
| Reactor Coolant System Leakage | 7/11 | 8/11 | 9/11 | 10/11 | 11/11 | 12/11 | 1/12 | 2/12 | 3/12 | 4/12 | 5/12 | 6/12 |
| Maximum leakage | 0.030 | 0.050 | 0.030 | 0.090 | 0.040 | 0.040 | 0.030 | 0.030 | 0.040 | 0.040 | 0.060 | 0.080 |
| Technical specification limit | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Indicator value | 0.3 | 0.5 | 0.3 | 0.9 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.4 | 0.6 | 0.8 |

Licensee Comments: none

Drill/Exercise Performance



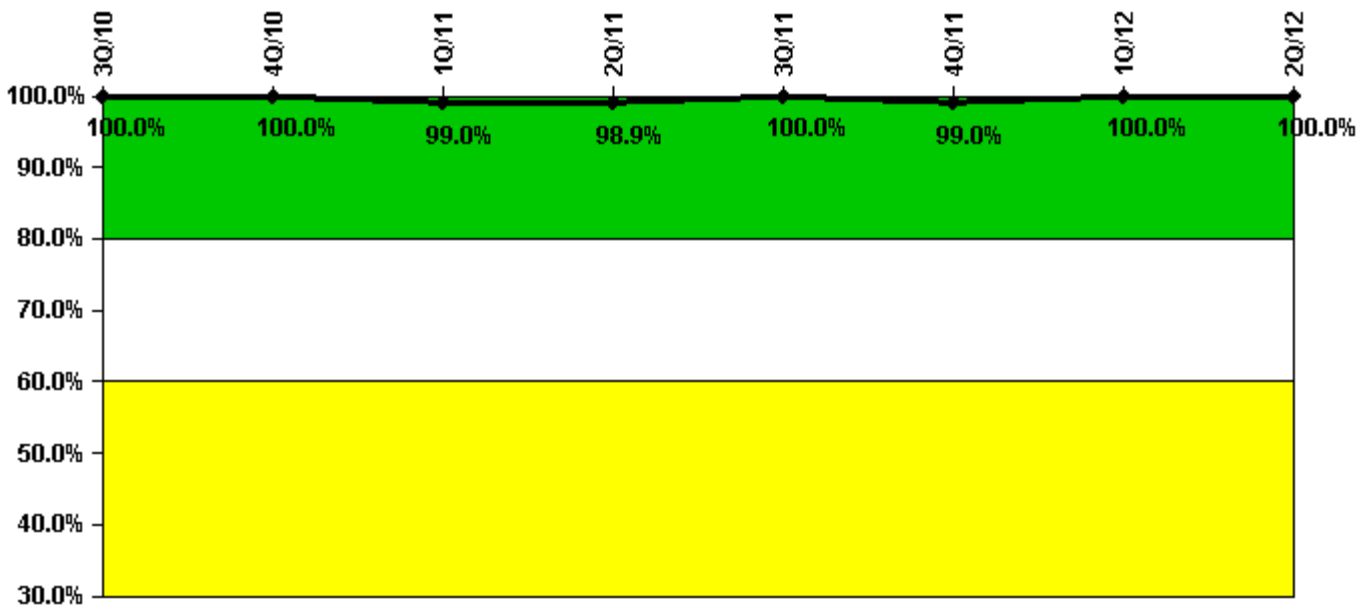
Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 52.0 | 28.0 | 24.0 | 12.0 | 17.0 | 37.0 | 36.0 | 62.0 |
| Total opportunities | 52.0 | 28.0 | 26.0 | 12.0 | 18.0 | 40.0 | 36.0 | 62.0 |
| Indicator value | 98.1% | 98.1% | 97.2% | 97.3% | 96.8% | 96.1% | 96.7% | 97.8% |

Licensee Comments: none

ERO Drill Participation



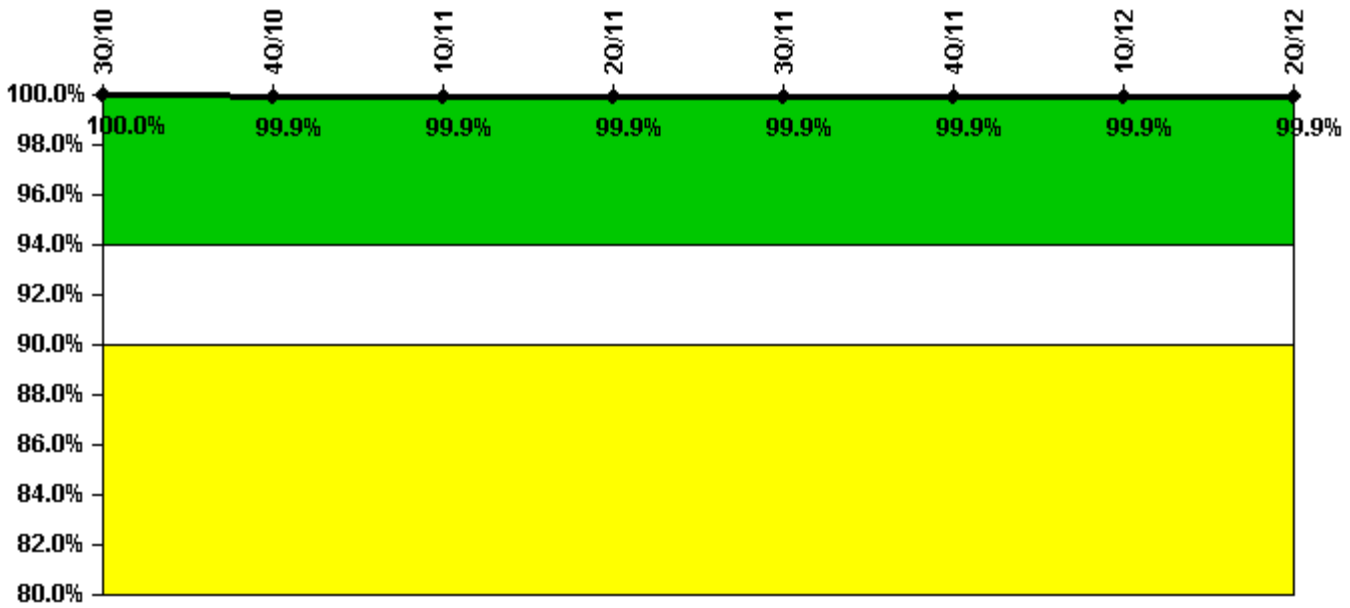
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|-----------------------------|--------|--------|-------|-------|--------|-------|--------|--------|
| Participating Key personnel | 123.0 | 125.0 | 101.0 | 93.0 | 92.0 | 97.0 | 93.0 | 94.0 |
| Total Key personnel | 123.0 | 125.0 | 102.0 | 94.0 | 92.0 | 98.0 | 93.0 | 94.0 |
| Indicator value | 100.0% | 100.0% | 99.0% | 98.9% | 100.0% | 99.0% | 100.0% | 100.0% |

Licensee Comments: none

Alert & Notification System



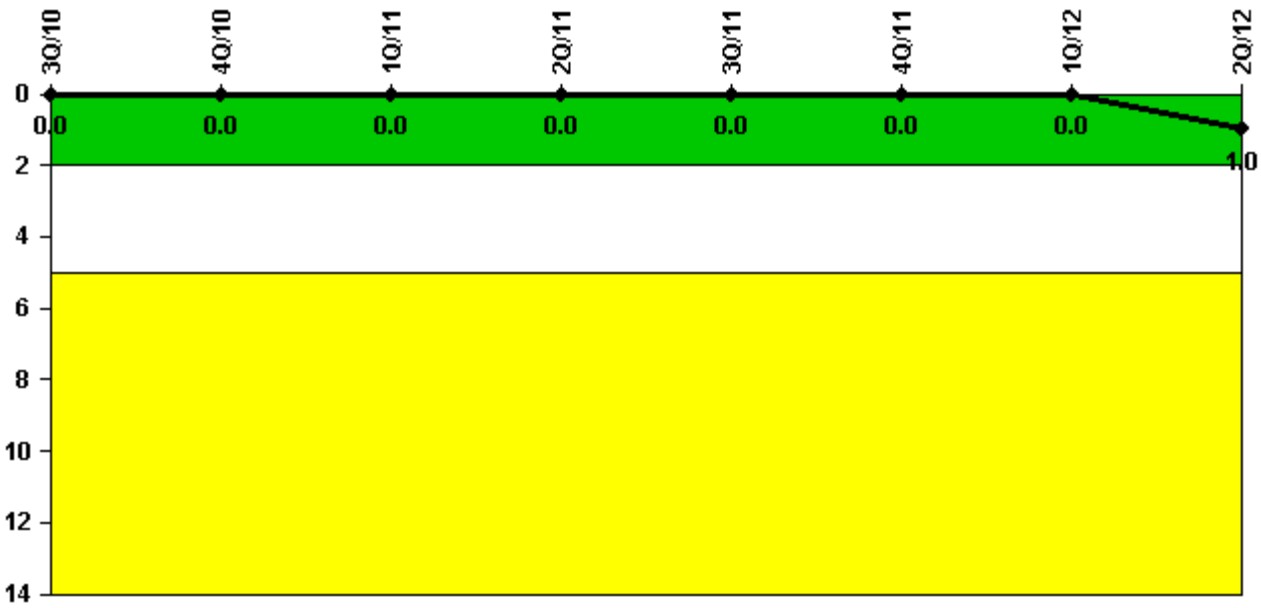
Thresholds: **White** < 94.0% **Yellow** < 90.0%

Notes

| Alert & Notification System | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|-----------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests | 438 | 437 | 438 | 438 | 437 | 438 | 438 | 437 |
| Total sirens-tests | 438 | 438 | 438 | 438 | 438 | 438 | 438 | 438 |
| Indicator value | 100.0% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



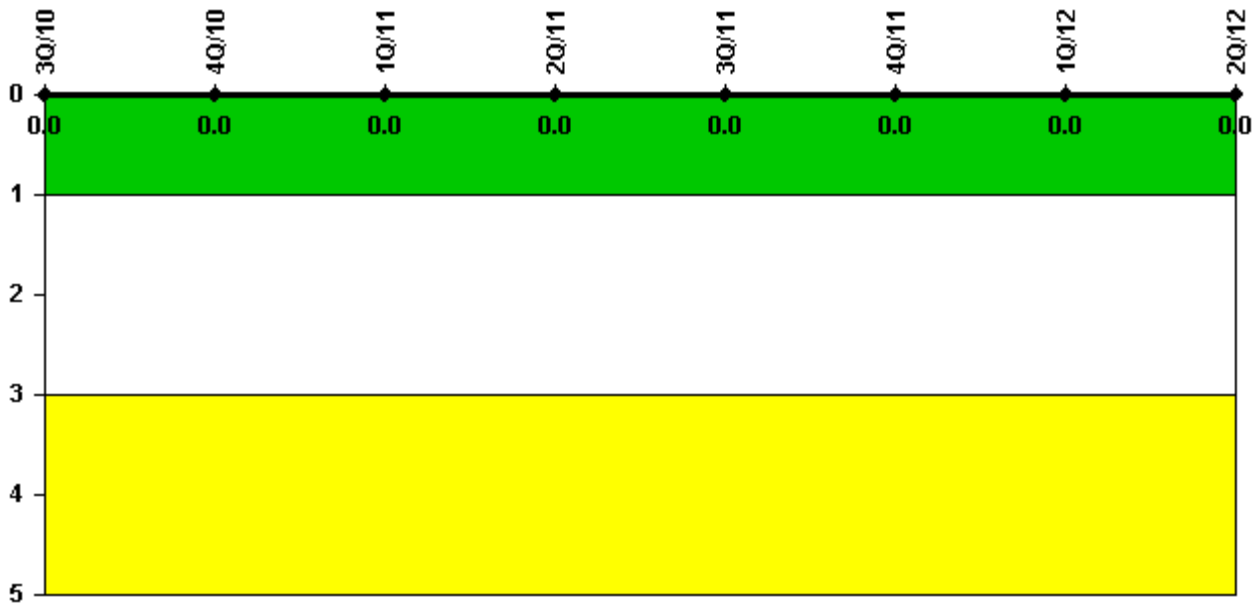
Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 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 | 1 |

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

| RETS/ODCM Radiological Effluent | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments:

2Q/11: Revised the June 2011 RETS/ODCM Radiological Effluent occurrence from 1 to 0 to correct a typographical error. There was no RETS/ODCM Radiological Effluent occurrence in the 2nd quarter 2011. This change does not affect the PI color, which remains green.

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.

Last Modified: July 24, 2012