

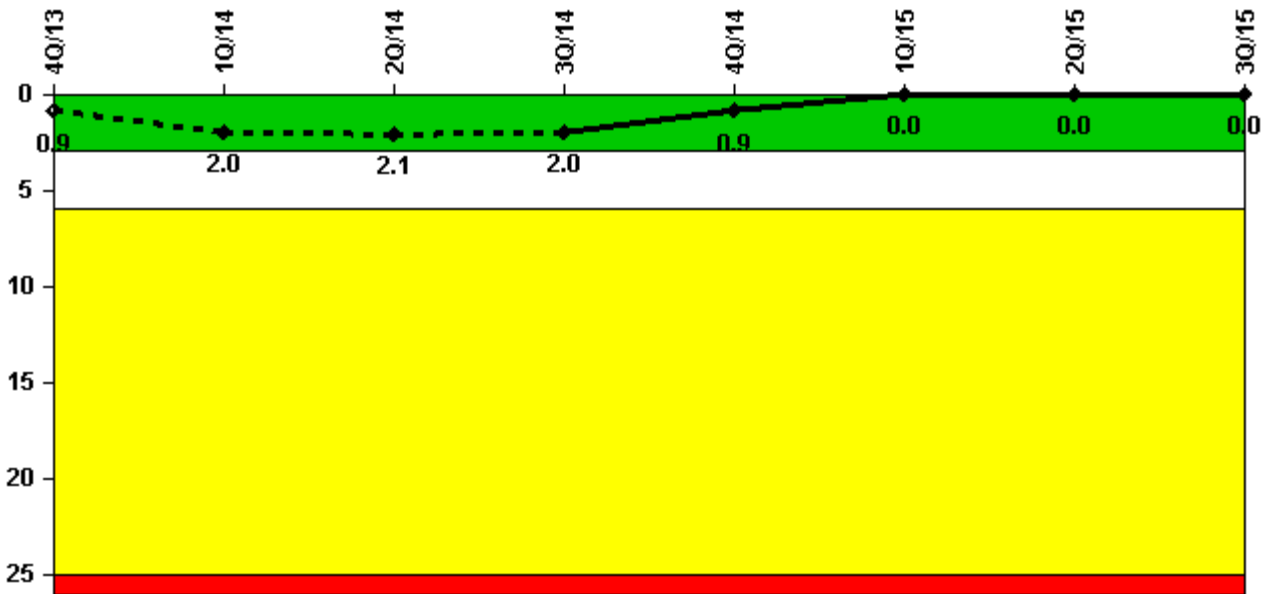
Robinson 2

3Q/2015 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

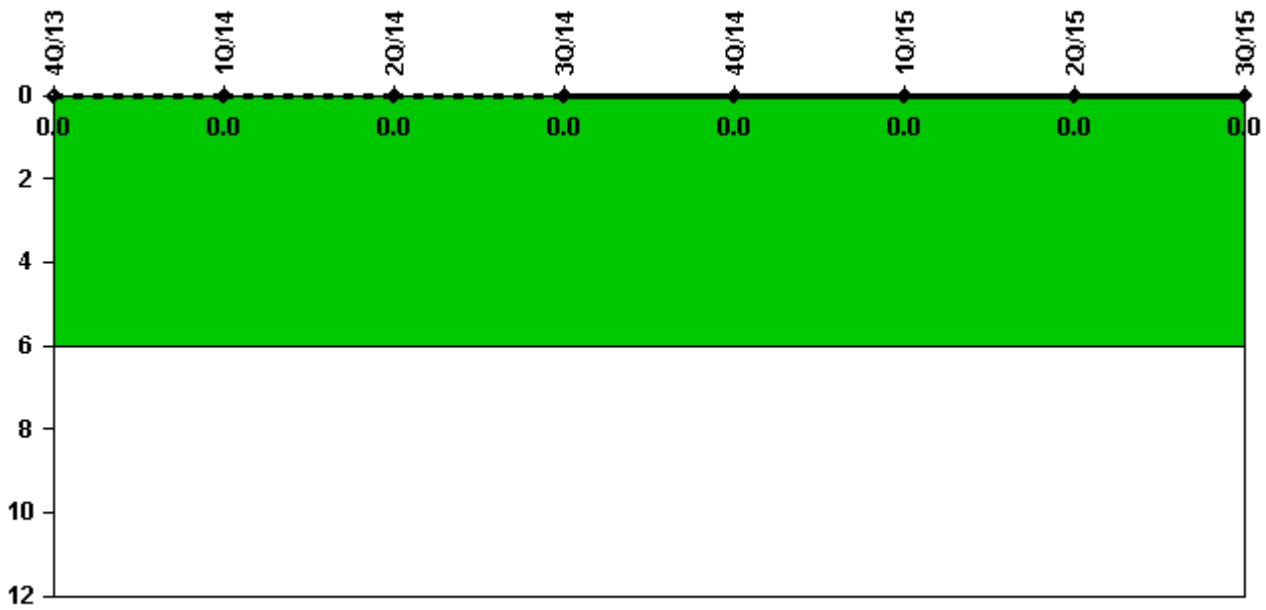
| Unplanned Scrams per 7000 Critical Hrs | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|--|------------|------------|------------|------------|------------|----------|----------|----------|
| Unplanned scrams | 1.0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1321.7 | 1540.7 | 2028.2 | 2208.0 | 2209.0 | 2159.0 | 1139.1 | 2208.0 |
| Indicator value | 0.9 | 2.0 | 2.1 | 2.0 | 0.9 | 0 | 0 | 0 |

Licensee Comments:

3Q/14: None

2Q/14: None

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

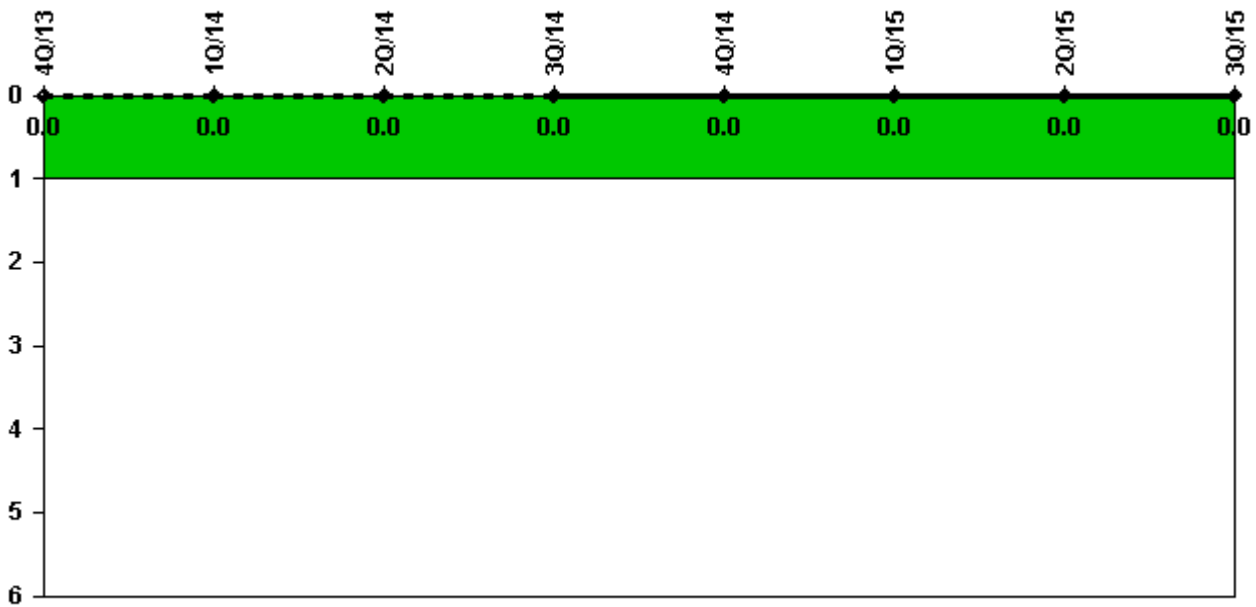
| Unplanned Power Changes per 7000 Critical Hrs | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1321.7 | 1540.7 | 2028.2 | 2208.0 | 2209.0 | 2159.0 | 1139.1 | 2208.0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments:

3Q/14: None

2Q/14: None

Unplanned Scrams with Complications



Thresholds: White > 1.0

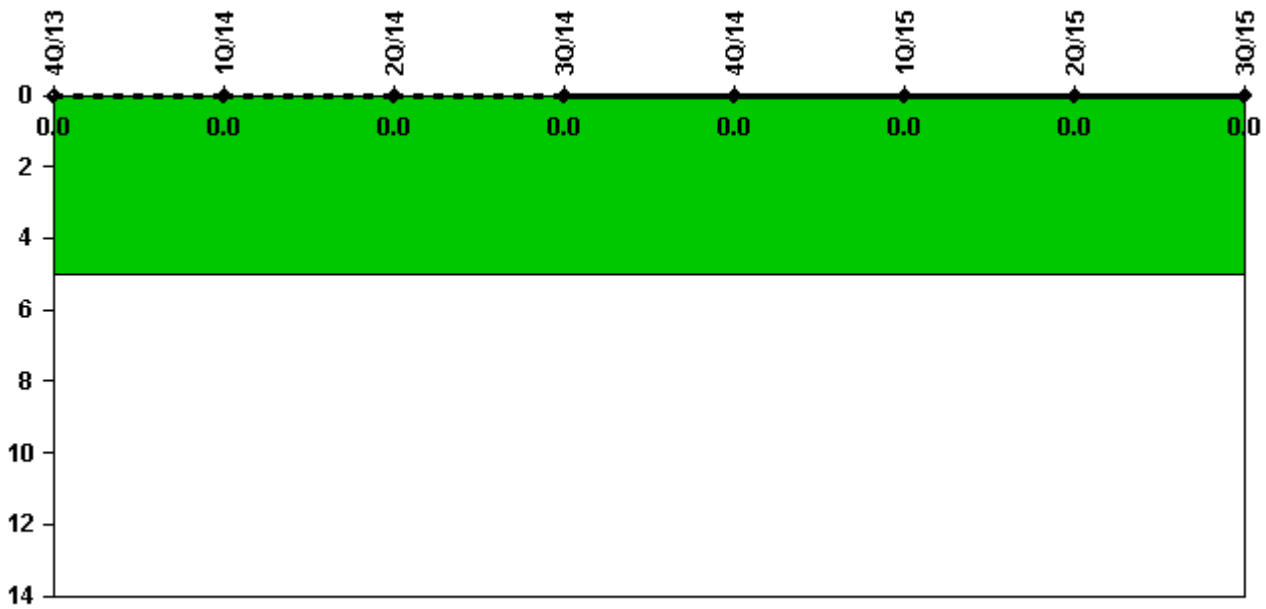
Notes

| Unplanned Scrams with Complications | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|-------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 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:

2Q/14: None

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

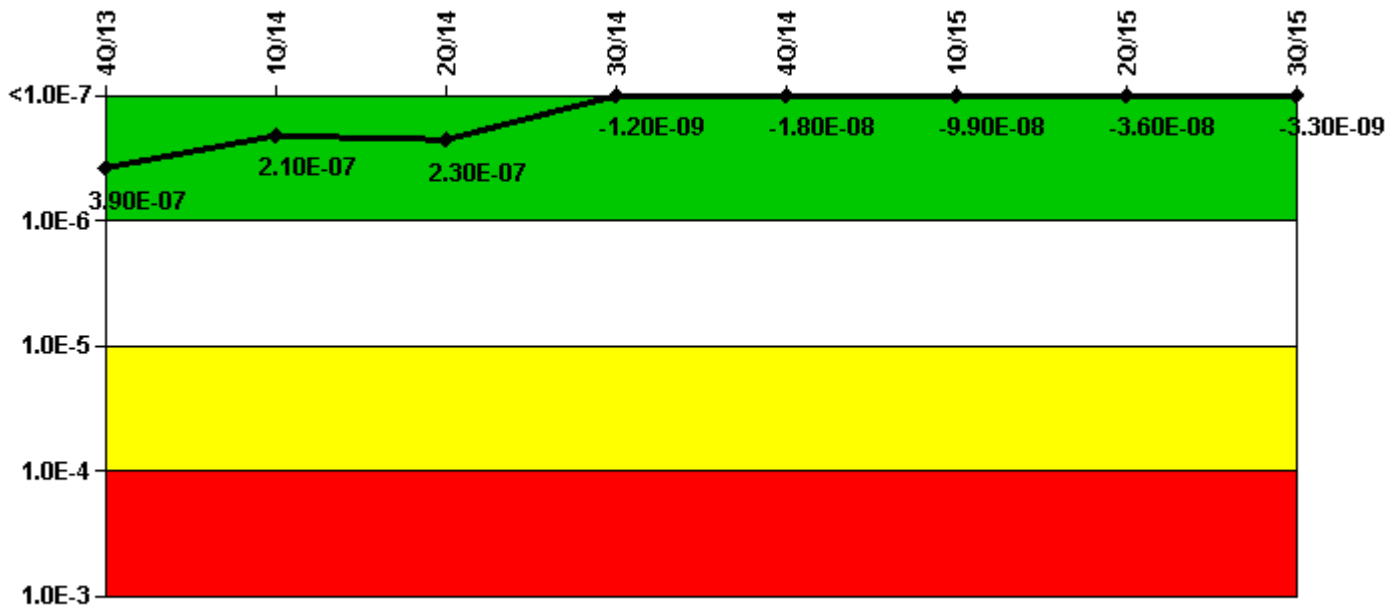
| Safety System Functional Failures (PWR) | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments:

3Q/14: None

2Q/14: 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 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 6.19E-08 | 1.55E-08 | 3.36E-08 | 3.48E-08 | 1.49E-08 | 3.75E-08 | 2.18E-08 | 4.16E-09 |
| URI (Δ CDF) | 3.25E-07 | 1.90E-07 | 1.99E-07 | -3.60E-08 | -3.33E-08 | -1.36E-07 | -5.83E-08 | -7.42E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | 3.90E-07 | 2.10E-07 | 2.30E-07 | -1.20E-09 | -1.80E-08 | -9.90E-08 | -3.60E-08 | -3.30E-09 |

Licensee Comments:

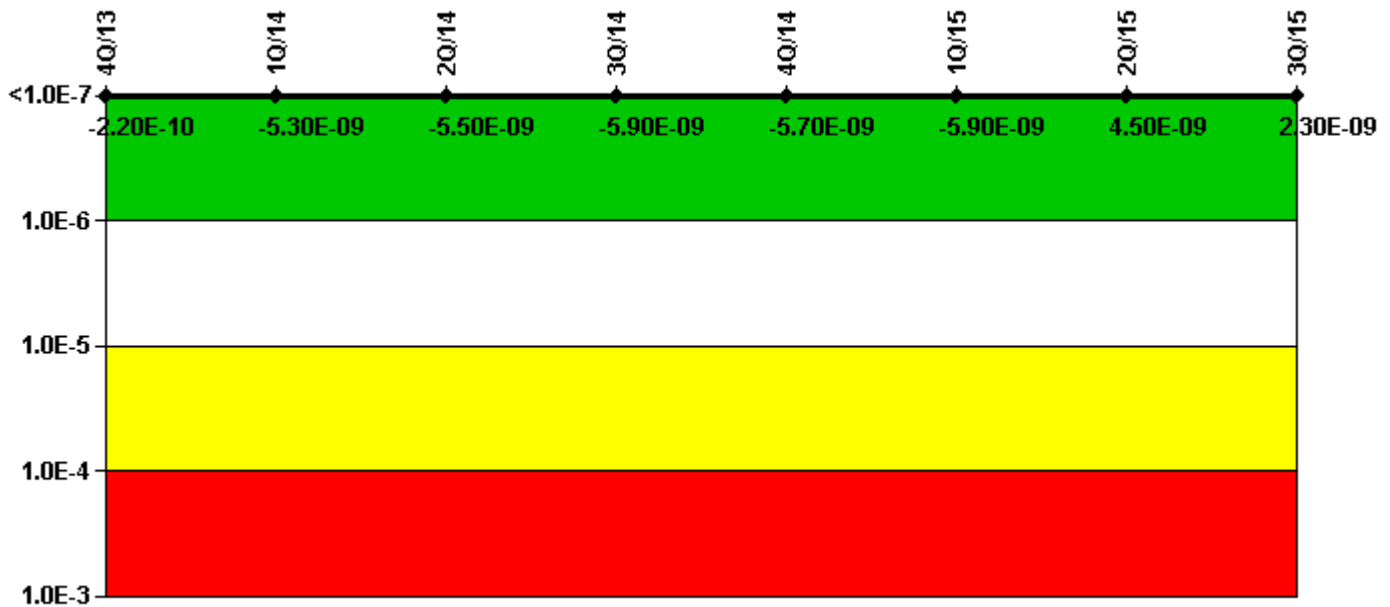
3Q/15: Changed PRA Parameter(s).

3Q/14: None

2Q/14: None

1Q/14: 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 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| UAI (Δ CDF) | $4.86E-09$ | $-5.50E-10$ | $-7.49E-10$ | $-1.10E-09$ | $-9.16E-10$ | $-1.13E-09$ | $-9.34E-10$ | $-7.99E-10$ |
| URI (Δ CDF) | $-5.08E-09$ | $-4.79E-09$ | $-4.79E-09$ | $-4.79E-09$ | $-4.79E-09$ | $-4.79E-09$ | $5.45E-09$ | $3.08E-09$ |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | $-2.20E-10$ | $-5.30E-09$ | $-5.50E-09$ | $-5.90E-09$ | $-5.70E-09$ | $-5.90E-09$ | $4.50E-09$ | $2.30E-09$ |

Licensee Comments:

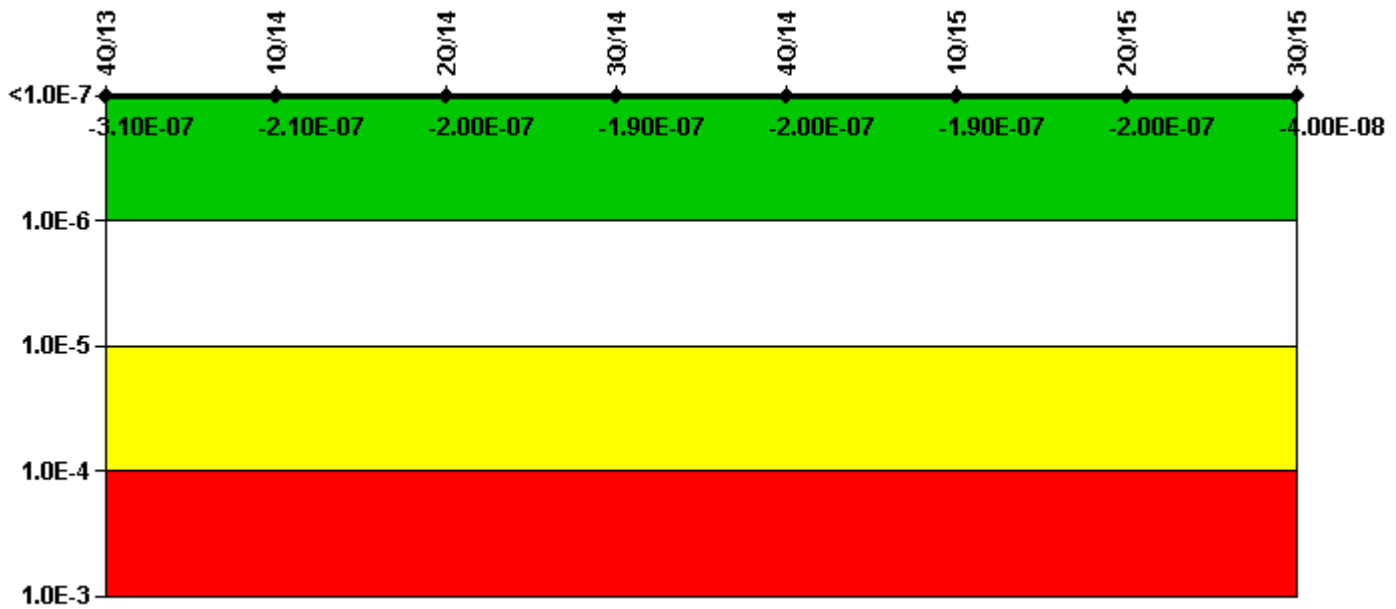
3Q/15: Changed PRA Parameter(s).

3Q/14: None

2Q/14: None

1Q/14: Changed PRA Parameter(s).

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/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (ΔCDF) | 8.81E-09 | -3.64E-08 | -3.19E-08 | -2.44E-08 | -2.87E-08 | -2.42E-08 | -3.02E-08 | -5.57E-09 |
| URI (ΔCDF) | -3.19E-07 | -1.71E-07 | -1.71E-07 | -1.69E-07 | -1.69E-07 | -1.68E-07 | -1.68E-07 | -3.39E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -3.10E-07 | -2.10E-07 | -2.00E-07 | -1.90E-07 | -2.00E-07 | -1.90E-07 | -2.00E-07 | -4.00E-08 |

Licensee Comments:

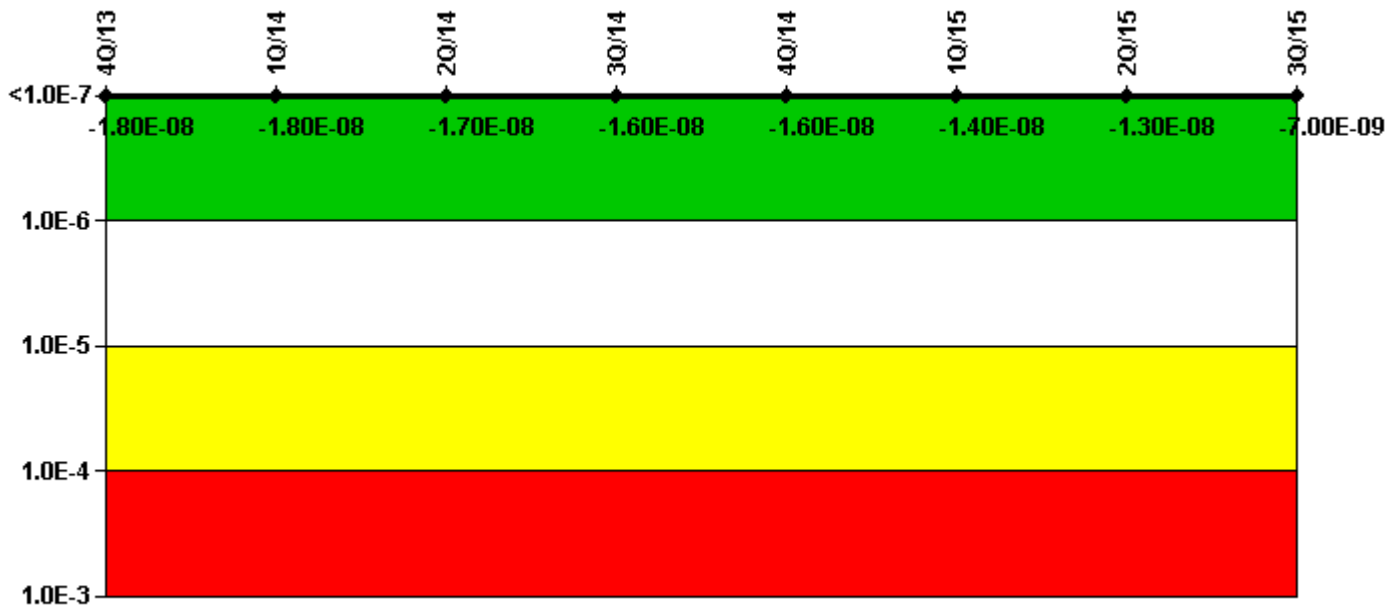
3Q/15: Changed PRA Parameter(s).

3Q/14: None

2Q/14: None

1Q/14: Changed PRA Parameter(s).

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/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 9.65E-10 | 7.26E-10 | 1.22E-09 | 2.30E-09 | 2.81E-09 | 4.15E-09 | 5.64E-09 | 5.38E-09 |
| URI (Δ CDF) | -1.86E-08 | -1.84E-08 | -1.84E-08 | -1.84E-08 | -1.84E-08 | -1.84E-08 | -1.84E-08 | -1.23E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -1.80E-08 | -1.80E-08 | -1.70E-08 | -1.60E-08 | -1.60E-08 | -1.40E-08 | -1.30E-08 | -7.00E-09 |

Licensee Comments:

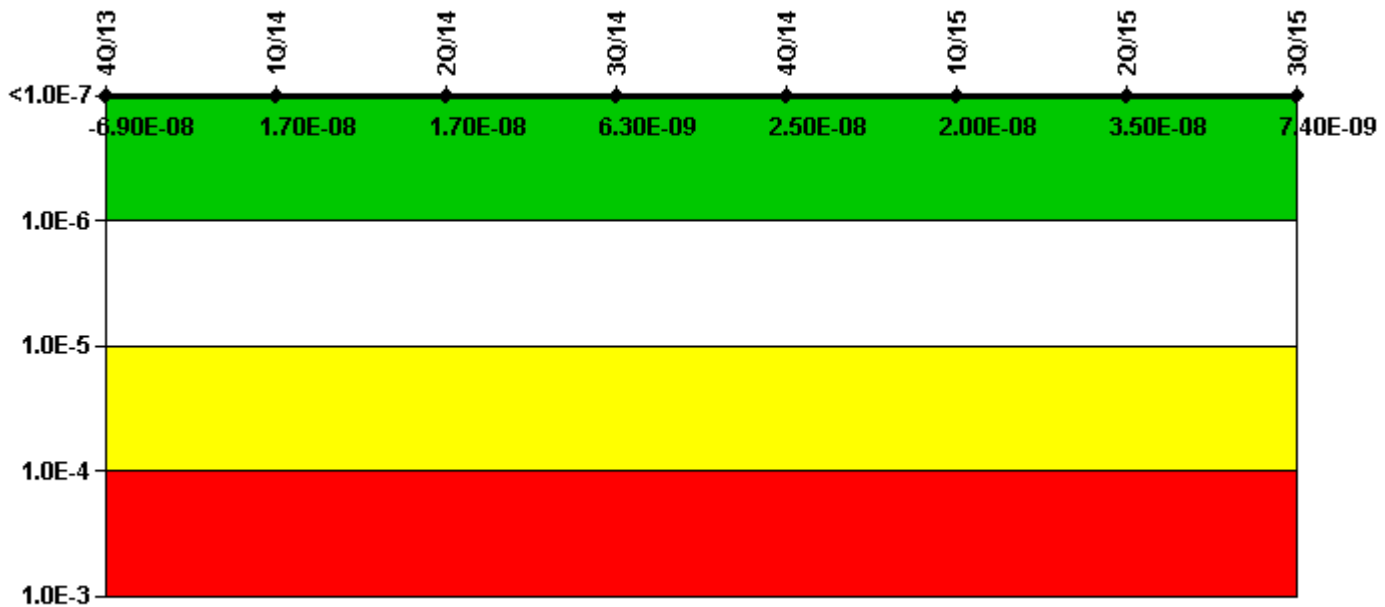
3Q/15: Changed PRA Parameter(s).

3Q/14: None

2Q/14: None

1Q/14: 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 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 3.60E-08 | 4.77E-08 | 4.69E-08 | 3.67E-08 | 5.51E-08 | 5.00E-08 | 5.04E-08 | 8.95E-09 |
| URI (Δ CDF) | -1.04E-07 | -3.04E-08 | -3.04E-08 | -3.04E-08 | -3.04E-08 | -3.04E-08 | -1.58E-08 | -1.55E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -6.90E-08 | 1.70E-08 | 1.70E-08 | 6.30E-09 | 2.50E-08 | 2.00E-08 | 3.50E-08 | 7.40E-09 |

Licensee Comments:

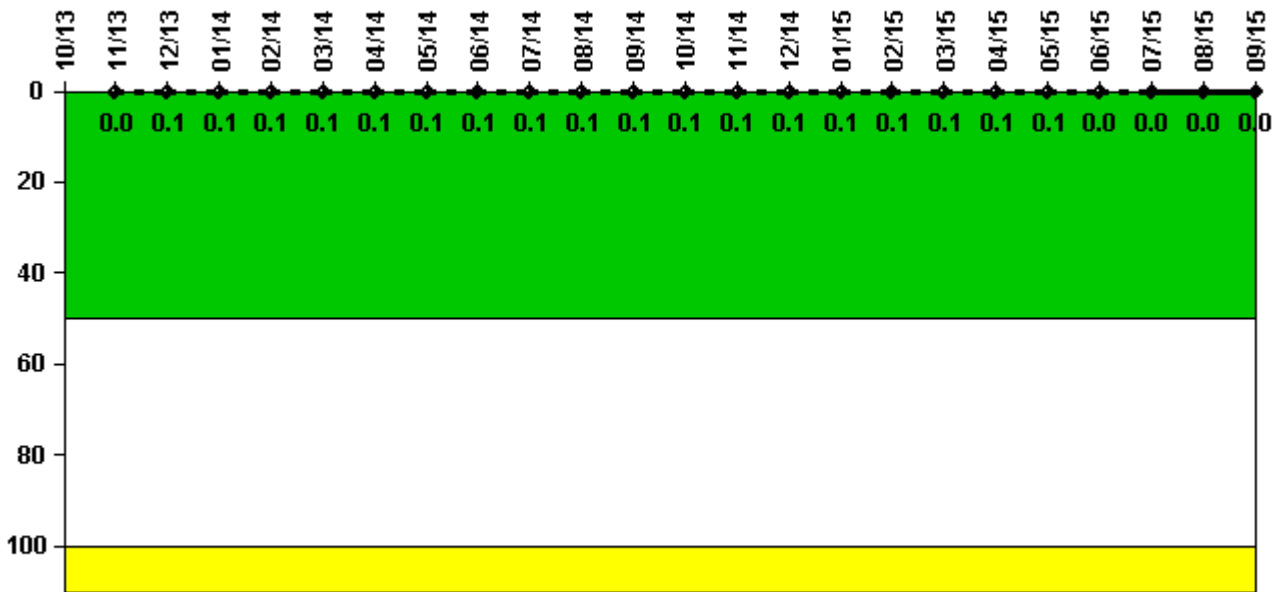
3Q/15: Changed PRA Parameter(s).

3Q/14: None

2Q/14: None

1Q/14: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

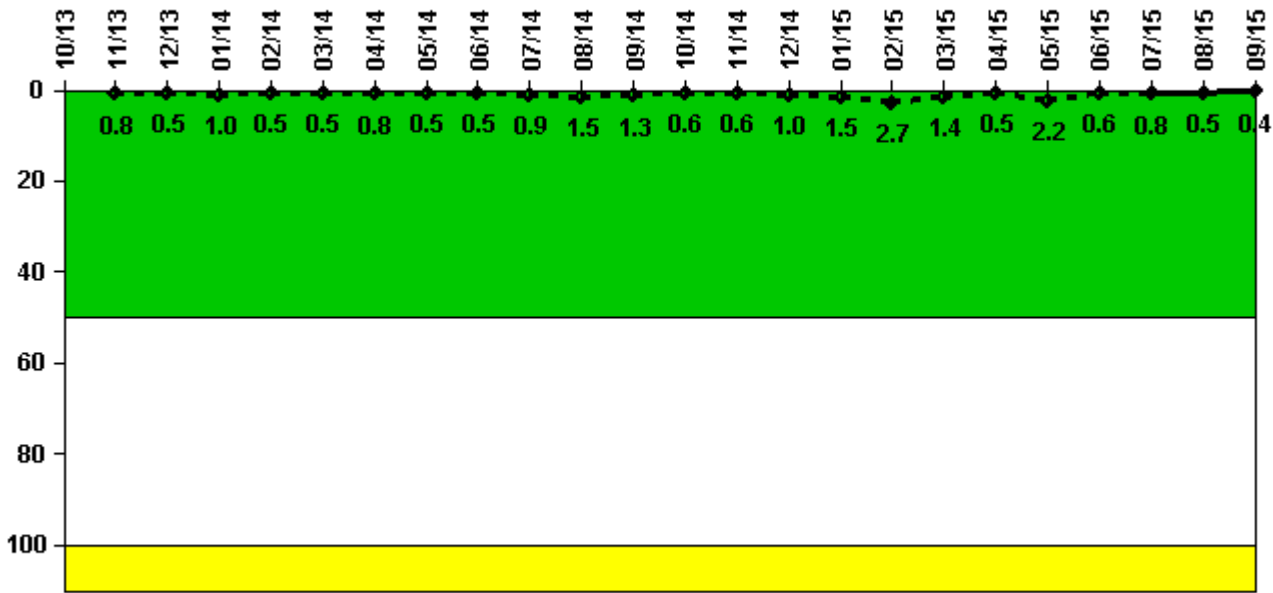
| Reactor Coolant System Activity | 10/13 | 11/13 | 12/13 | 1/14 | 2/14 | 3/14 | 4/14 | 5/14 | 6/14 | 7/14 | 8/14 | 9/14 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | N/A | 0.000109 | 0.000328 | 0.000186 | 0.000181 | 0.000187 | 0.000198 | 0.000202 | 0.000210 | 0.000209 | 0.000216 | 0.000214 |
| Technical specification limit | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Indicator value | N/A | 0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Reactor Coolant System Activity | 10/14 | 11/14 | 12/14 | 1/15 | 2/15 | 3/15 | 4/15 | 5/15 | 6/15 | 7/15 | 8/15 | 9/15 |
| Maximum activity | 0.000214 | 0.000232 | 0.000240 | 0.000172 | 0.000196 | 0.000235 | 0.000179 | 0.000266 | 0.000054 | 0.000093 | 0.000108 | 0.000115 |
| Technical specification limit | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Indicator value | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0 | 0 | 0 | 0 |

Licensee Comments:

9/14: None

6/14: None

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

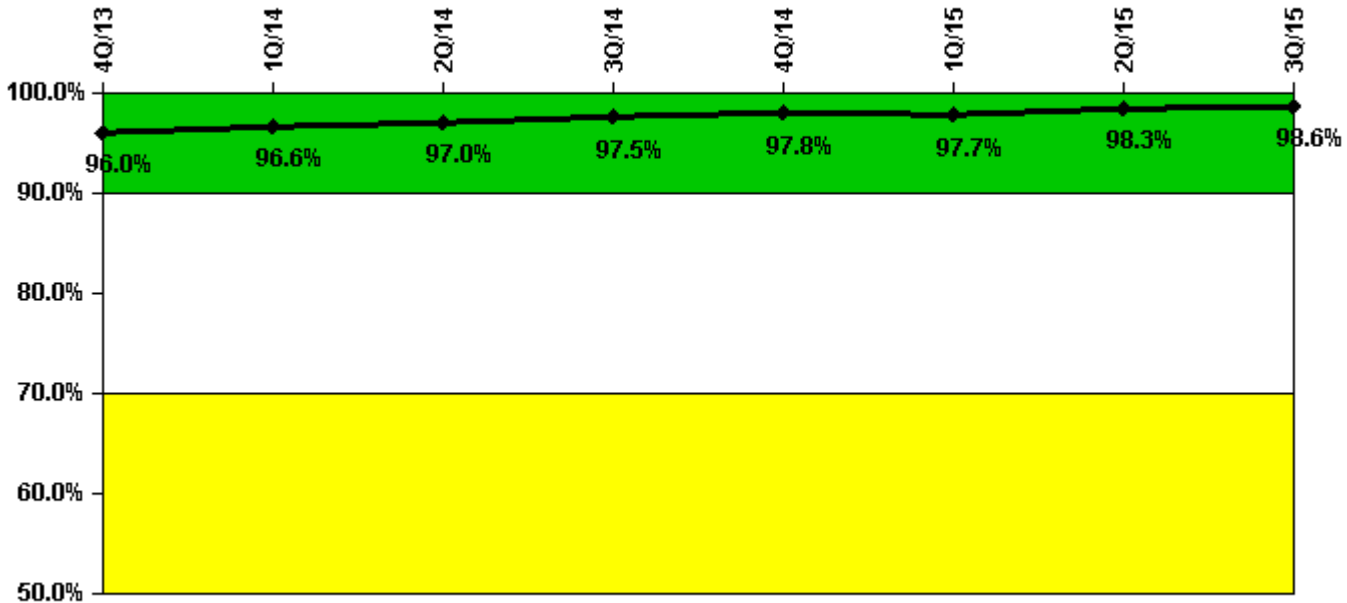
| Reactor Coolant System Leakage | 10/13 | 11/13 | 12/13 | 1/14 | 2/14 | 3/14 | 4/14 | 5/14 | 6/14 | 7/14 | 8/14 | 9/14 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | N/A | 0.080 | 0.050 | 0.100 | 0.050 | 0.048 | 0.080 | 0.050 | 0.050 | 0.090 | 0.150 | 0.130 |
| 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 | N/A | 0.8 | 0.5 | 1.0 | 0.5 | 0.5 | 0.8 | 0.5 | 0.5 | 0.9 | 1.5 | 1.3 |
| Reactor Coolant System Leakage | 10/14 | 11/14 | 12/14 | 1/15 | 2/15 | 3/15 | 4/15 | 5/15 | 6/15 | 7/15 | 8/15 | 9/15 |
| Maximum leakage | 0.060 | 0.060 | 0.100 | 0.150 | 0.270 | 0.140 | 0.050 | 0.220 | 0.060 | 0.080 | 0.050 | 0.040 |
| 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 | 0.6 | 0.6 | 1.0 | 1.5 | 2.7 | 1.4 | 0.5 | 2.2 | 0.6 | 0.8 | 0.5 | 0.4 |

Licensee Comments:

9/14: None

6/14: None

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Successful opportunities | 35.0 | 58.0 | 35.0 | 50.0 | 66.0 | 76.0 | 12.0 | 23.0 |
| Total opportunities | 37.0 | 58.0 | 35.0 | 50.0 | 66.0 | 78.0 | 12.0 | 24.0 |
| | | | | | | | | |
| Indicator value | 96.0% | 96.6% | 97.0% | 97.5% | 97.8% | 97.7% | 98.3% | 98.6% |

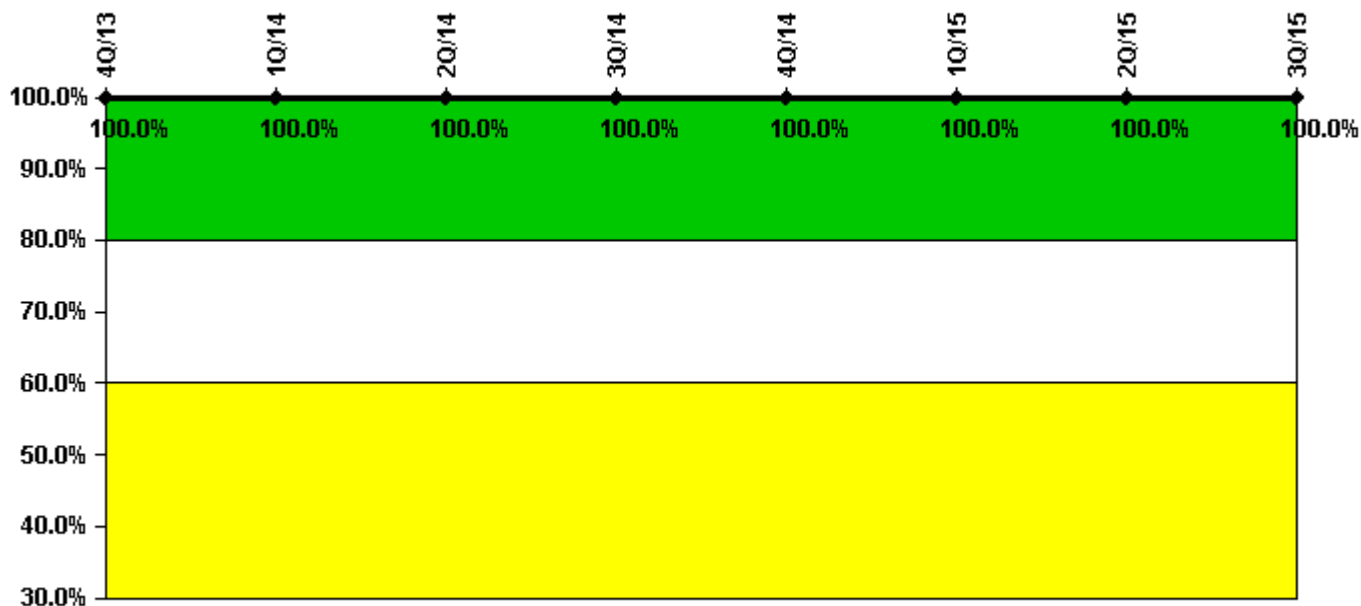
Licensee Comments:

4Q/14: Data correction for October 2014. Reduction of 4 (from 32 to 28) successful opportunities from 10-29-14 drill due to Emergency Response Manager (ERM) not completing initial qualification until January 2015. The 4 opportunities placed in January 2015 total.

3Q/14: None

2Q/14: None

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

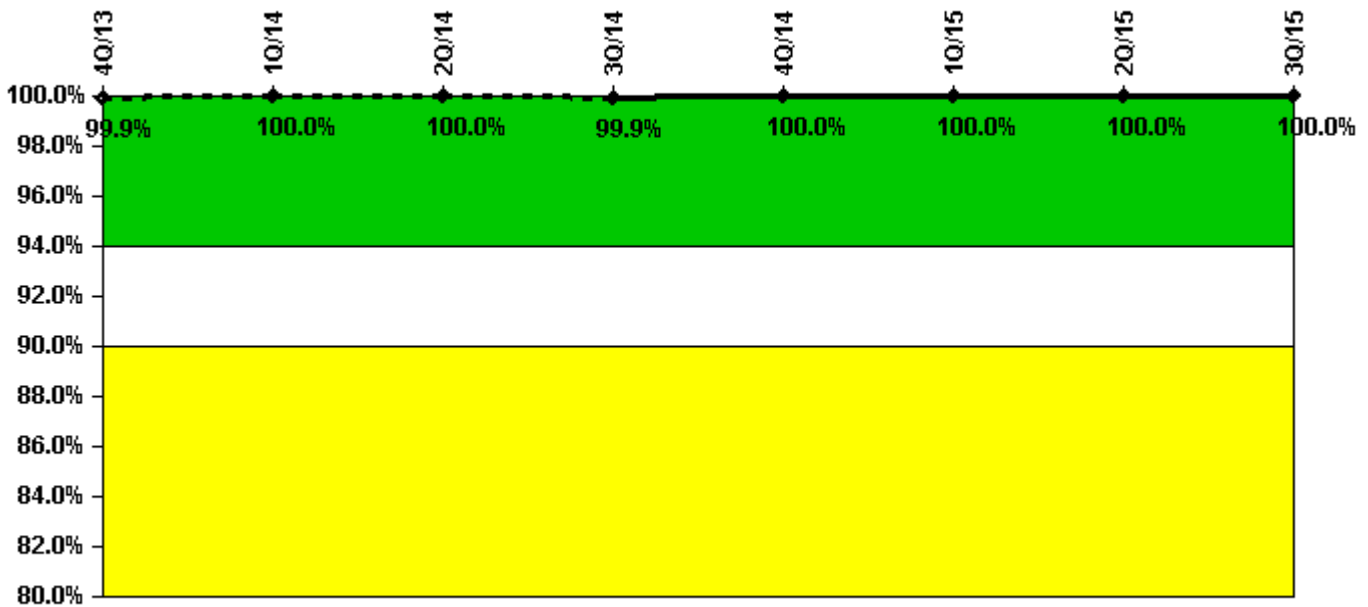
| ERO Drill Participation | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Participating Key personnel | 52.0 | 55.0 | 60.0 | 59.0 | 62.0 | 61.0 | 61.0 | 56.0 |
| Total Key personnel | 52.0 | 55.0 | 60.0 | 59.0 | 62.0 | 61.0 | 61.0 | 56.0 |
| | | | | | | | | |
| Indicator value | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

Licensee Comments:

3Q/14: None

2Q/14: None

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

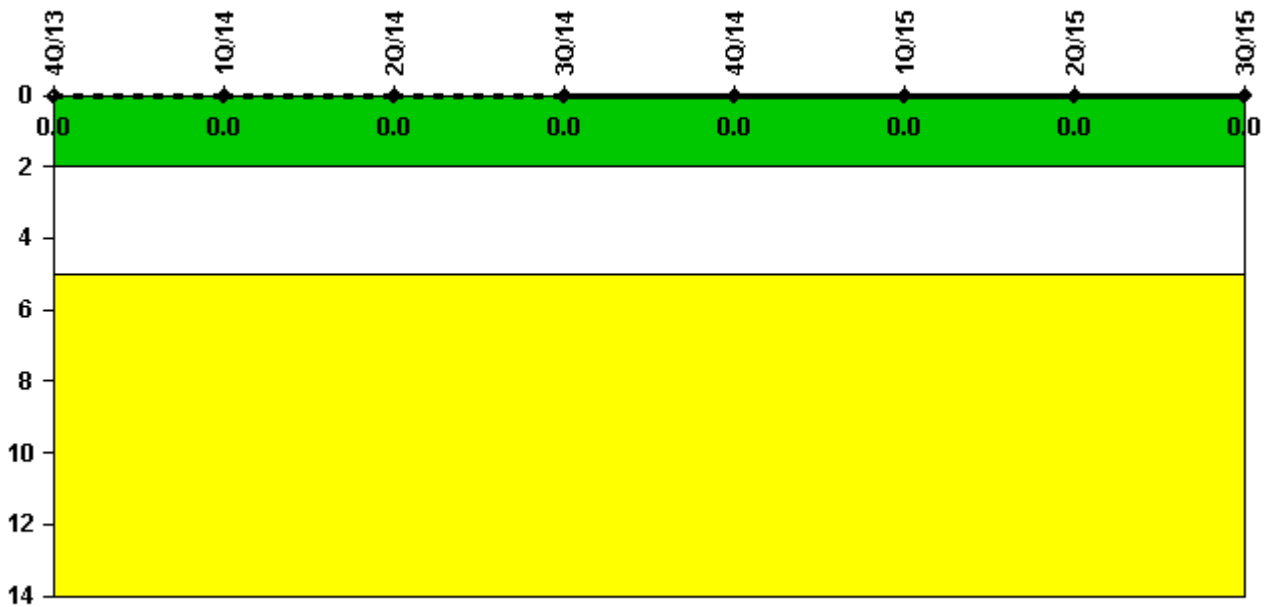
| Alert & Notification System | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|-----------------------------|-------|--------|--------|-------|--------|--------|--------|--------|
| Successful siren-tests | 884 | 826 | 826 | 825 | 885 | 826 | 826 | 826 |
| Total sirens-tests | 885 | 826 | 826 | 826 | 885 | 826 | 826 | 826 |
| Indicator value | 99.9% | 100.0% | 100.0% | 99.9% | 100.0% | 100.0% | 100.0% | 100.0% |

Licensee Comments:

3Q/14: None

2Q/14: None

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

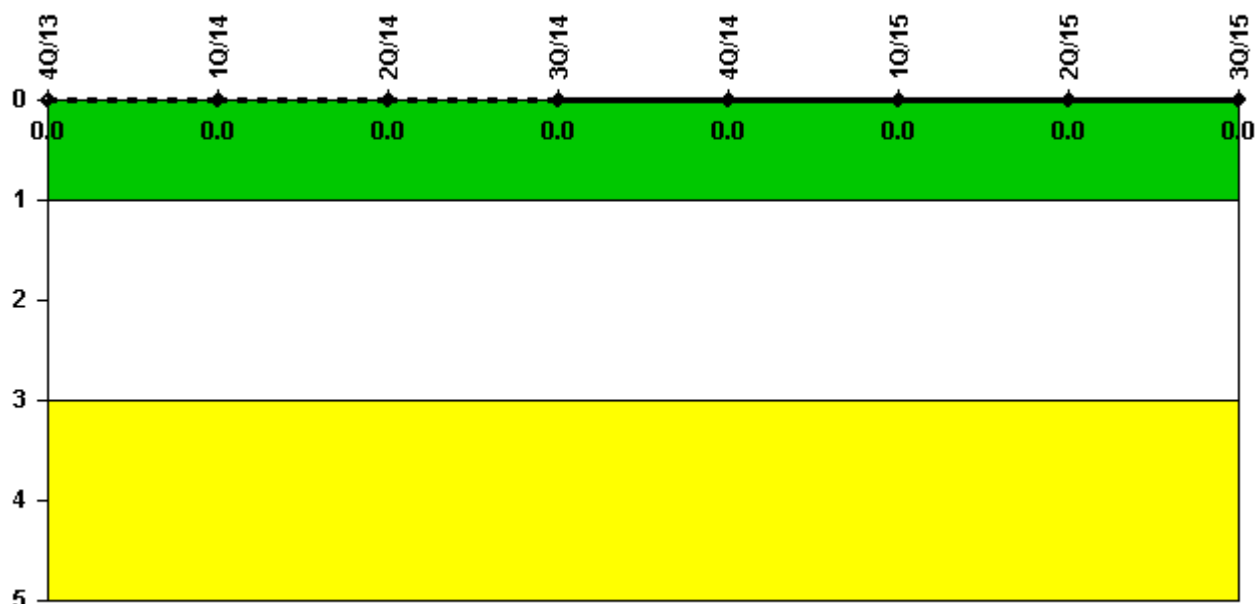
| Occupational Exposure Control Effectiveness | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Very high radiation area 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:

3Q/14: None

2Q/14: None

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

| RETS/ODCM Radiological Effluent | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments:

3Q/14: None

2Q/14: 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: December 15, 2015