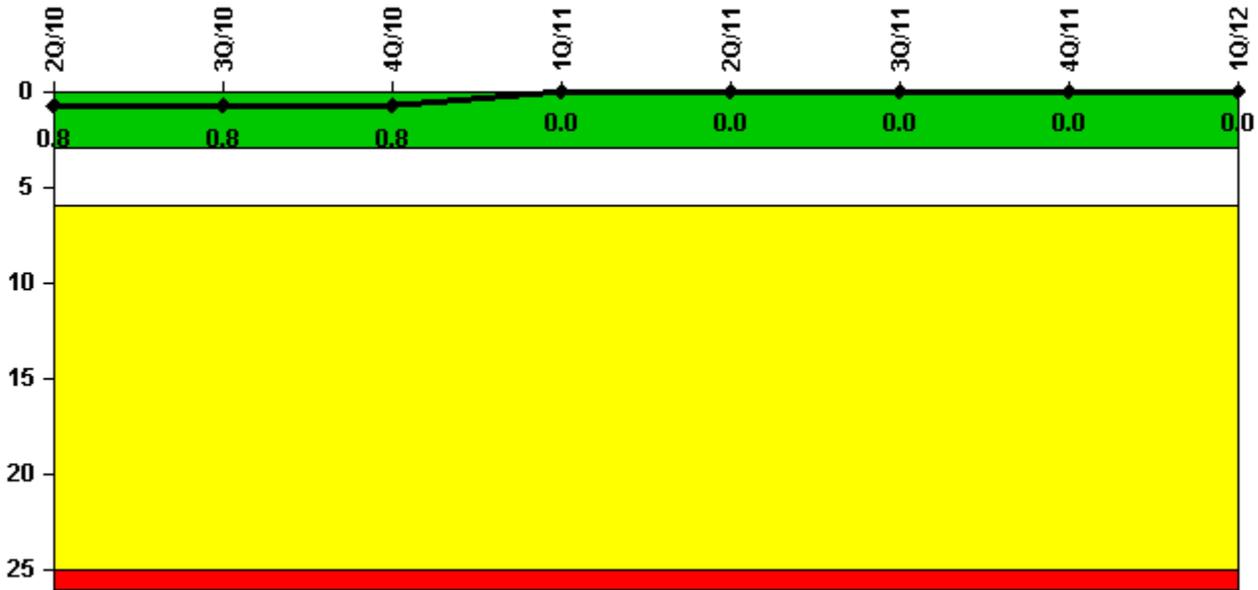


Calvert Cliffs 2

1Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



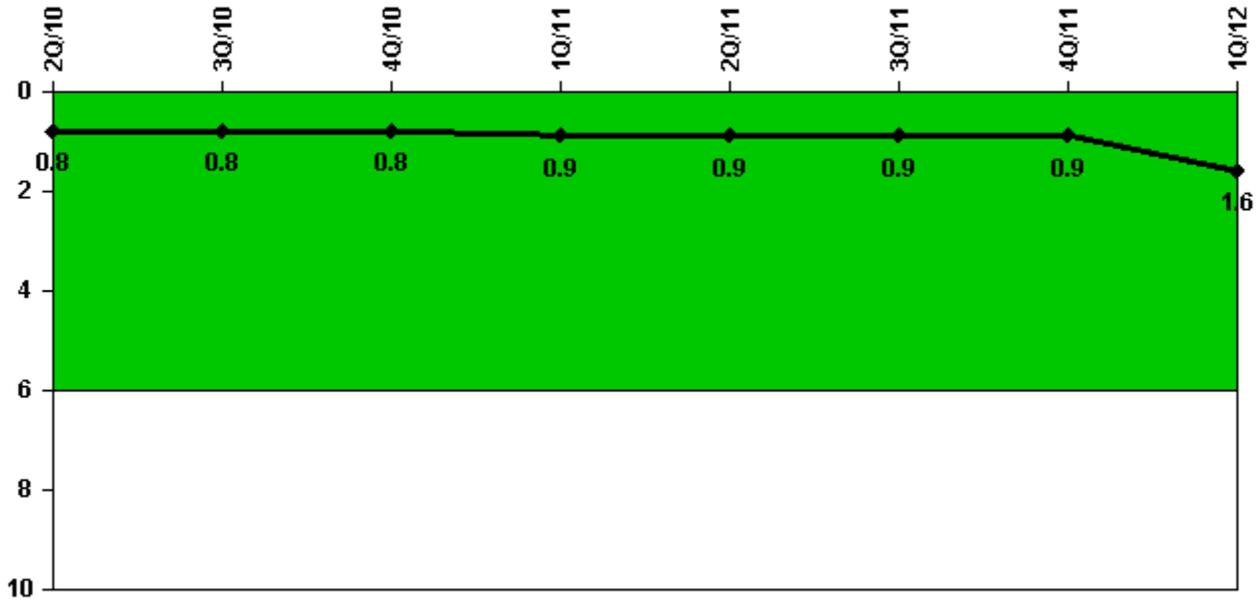
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2184.0 | 2208.0 | 2209.0 | 1475.6 | 2184.0 | 2208.0 | 2209.0 | 2183.0 |
| Indicator value | 0.8 | 0.8 | 0.8 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



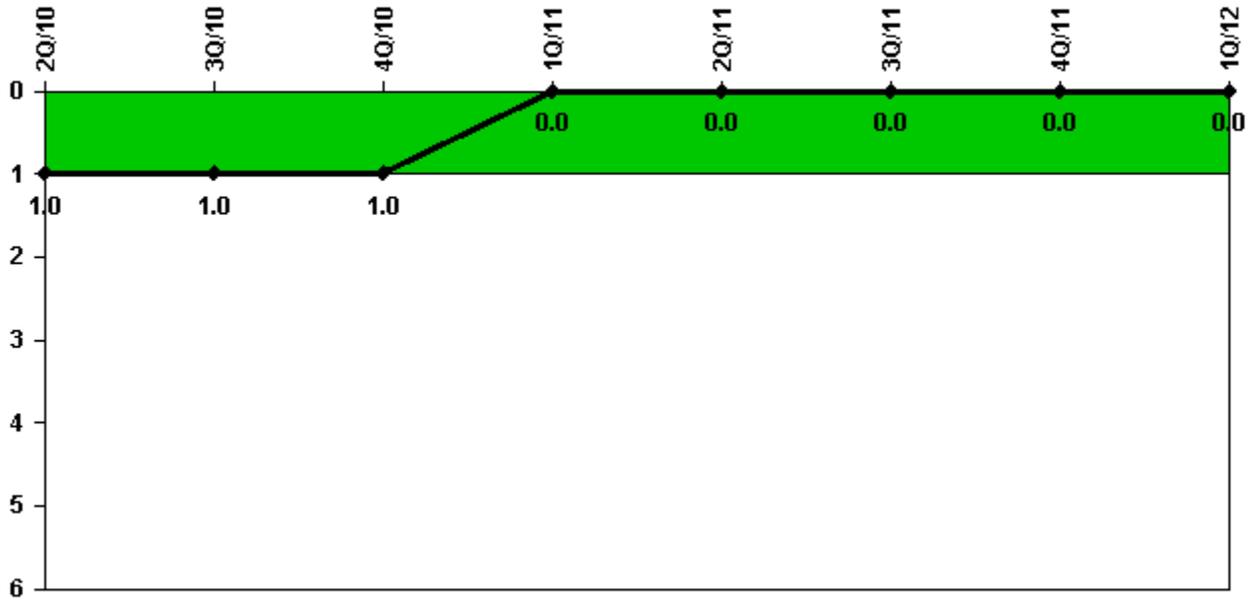
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes | 1.0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 1.0 |
| Critical hours | 2184.0 | 2208.0 | 2209.0 | 1475.6 | 2184.0 | 2208.0 | 2209.0 | 2183.0 |
| Indicator value | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 1.6 |

Licensee Comments: none

Unplanned Scrams with Complications



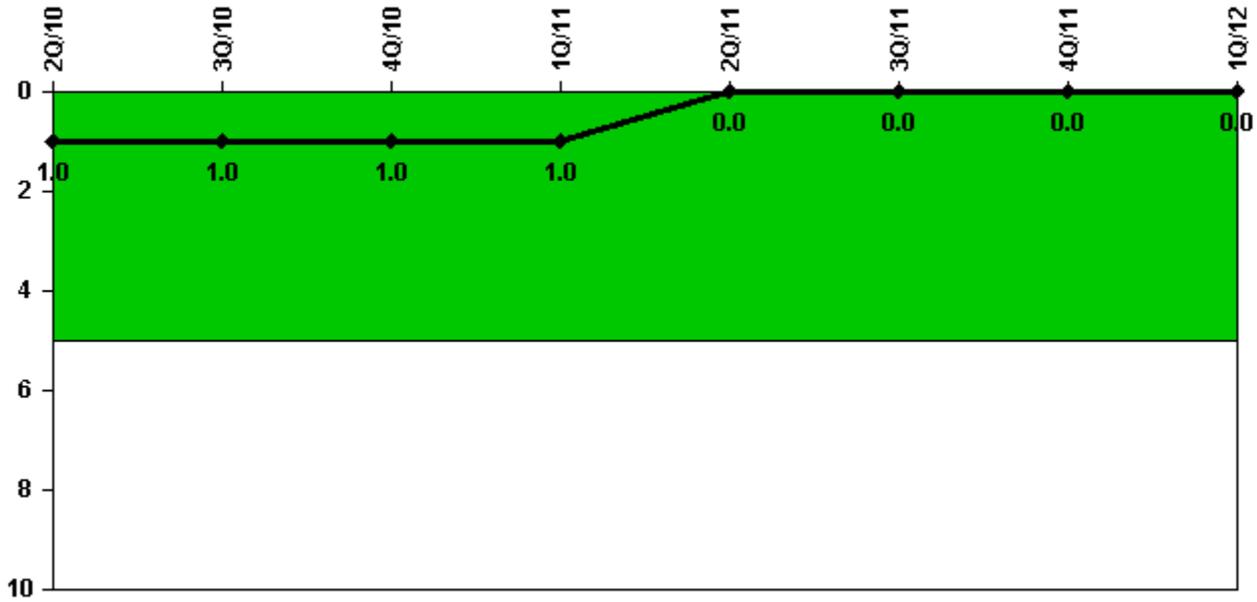
Thresholds: White > 1.0

Notes

| Unplanned Scrams with Complications | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Scrams with complications | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| Indicator value | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Licensee Comments: none

Safety System Functional Failures (PWR)



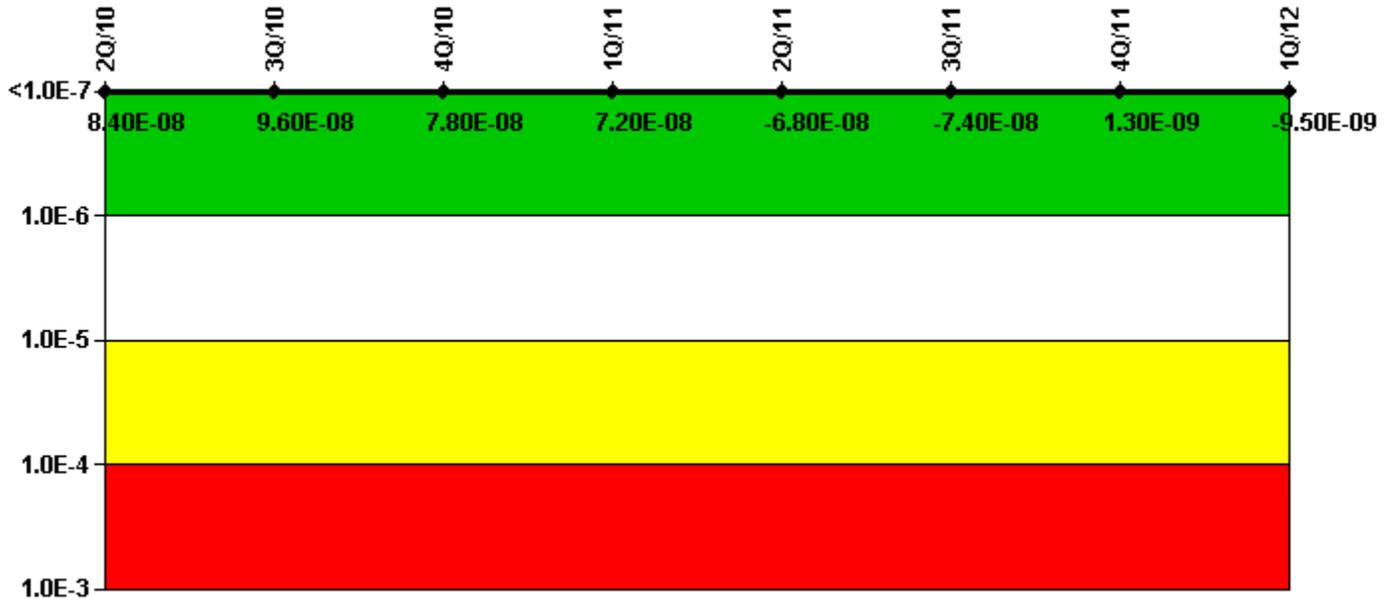
Thresholds: White > 5.0

Notes

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

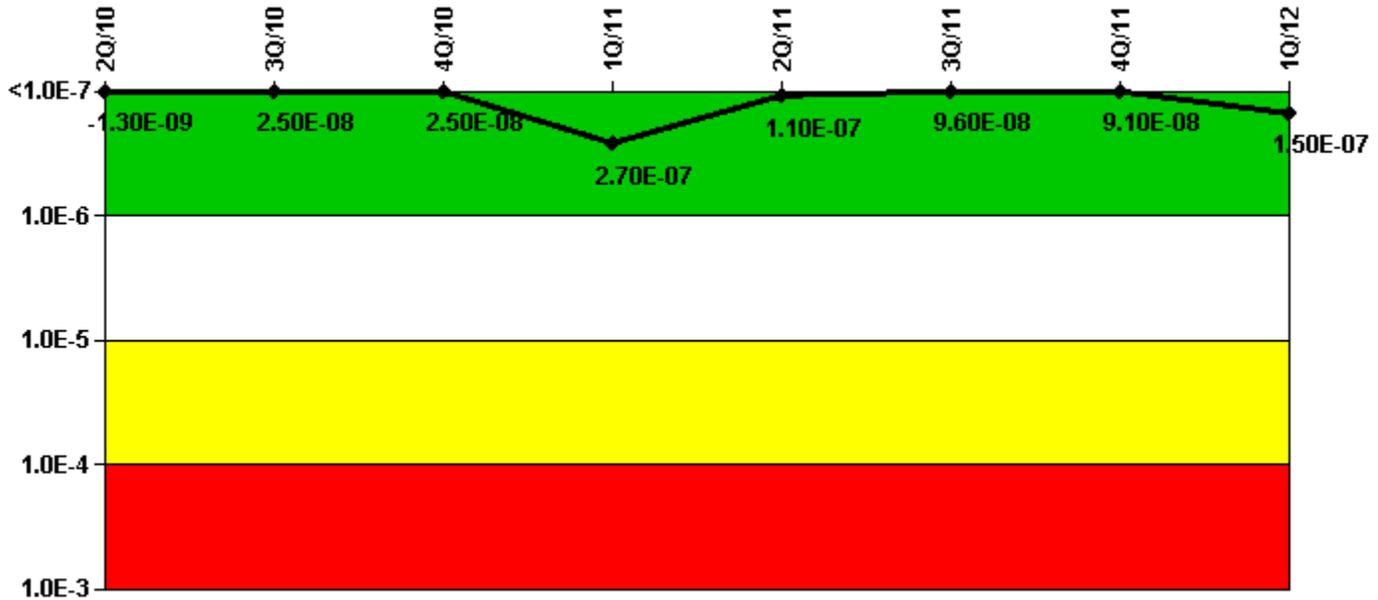
| Mitigating Systems Performance Index, Emergency AC Power System | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 9.77E-08 | 1.11E-07 | 9.08E-08 | 8.65E-08 | 2.82E-09 | -4.23E-09 | 8.01E-08 | 6.53E-08 |
| URI (Δ CDF) | -1.40E-08 | -1.45E-08 | -1.29E-08 | -1.42E-08 | -7.07E-08 | -6.94E-08 | -7.88E-08 | -7.48E-08 |
| PLE | NO |
| Indicator value | 8.40E-08 | 9.60E-08 | 7.80E-08 | 7.20E-08 | -6.80E-08 | -7.40E-08 | 1.30E-09 | -9.50E-09 |

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

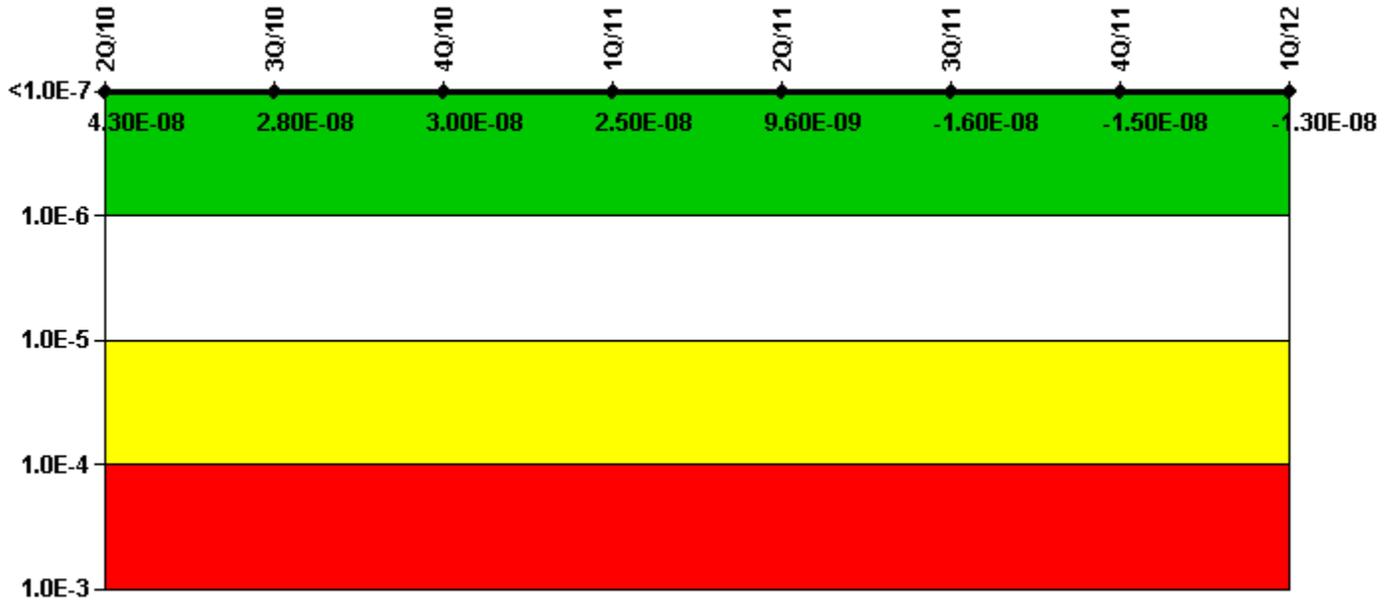
| Mitigating Systems Performance Index, High Pressure Injection System | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|--|-----------|-----------|-----------|----------|----------|----------|-----------|----------|
| UAI (Δ CDF) | 6.19E-08 | 8.72E-08 | 8.65E-08 | 1.33E-07 | 1.64E-08 | 5.59E-09 | -8.25E-10 | 4.27E-08 |
| URI (Δ CDF) | -6.31E-08 | -6.18E-08 | -6.16E-08 | 1.33E-07 | 9.42E-08 | 9.06E-08 | 9.14E-08 | 1.09E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -1.30E-09 | 2.50E-08 | 2.50E-08 | 2.70E-07 | 1.10E-07 | 9.60E-08 | 9.10E-08 | 1.50E-07 |

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

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 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 1.24E-08 | -6.25E-09 | -6.61E-09 | -4.83E-09 | -2.80E-09 | -2.77E-09 | -2.06E-09 | -2.46E-09 |
| URI (Δ CDF) | 3.06E-08 | 3.41E-08 | 3.62E-08 | 3.00E-08 | 1.24E-08 | -1.28E-08 | -1.26E-08 | -1.06E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | 4.30E-08 | 2.80E-08 | 3.00E-08 | 2.50E-08 | 9.60E-09 | -1.60E-08 | -1.50E-08 | -1.30E-08 |

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

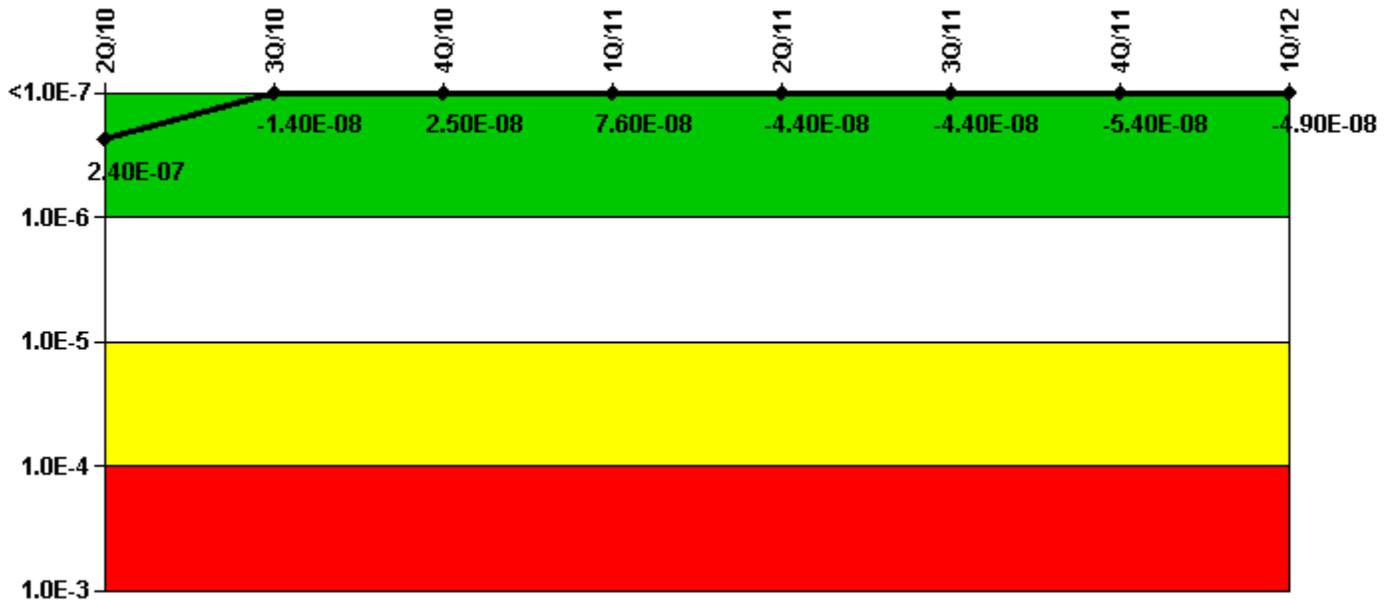
1Q/11: Changed PRA Parameter(s). Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

4Q/10: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/10: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

2Q/10: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

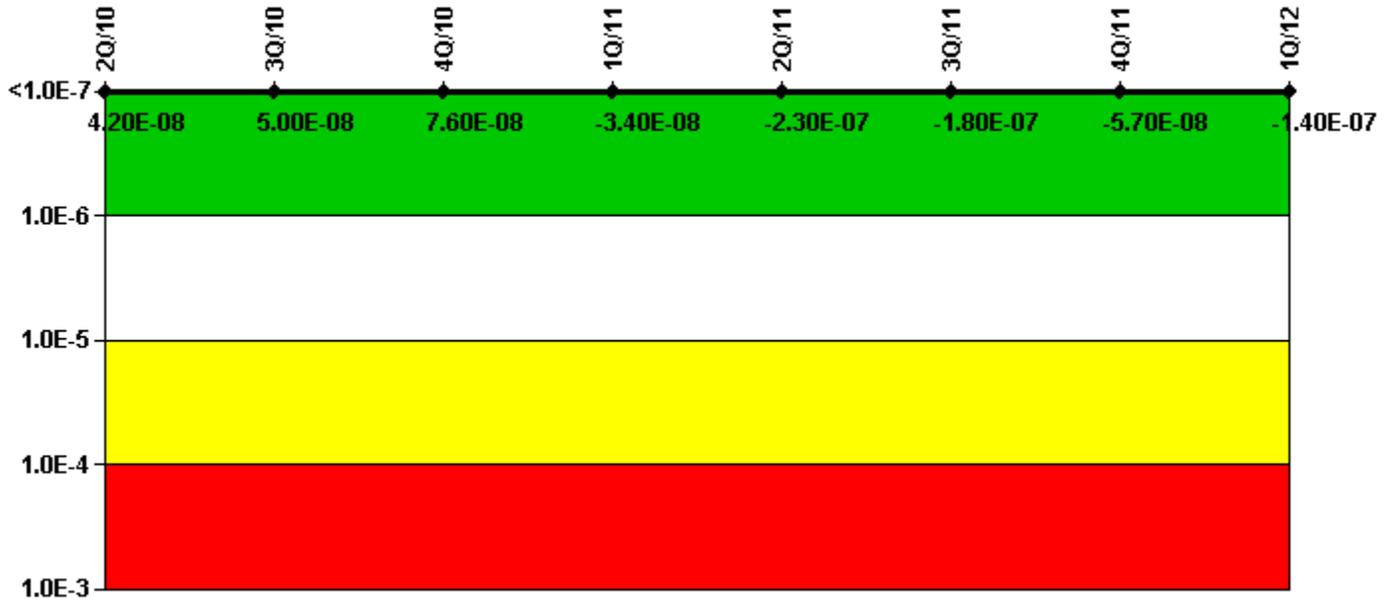
| Mitigating Systems Performance Index, Residual Heat Removal System | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|--|----------|-----------|----------|----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 2.23E-07 | -1.86E-08 | 2.06E-08 | 7.31E-08 | -4.54E-08 | -4.51E-08 | -5.46E-08 | -4.43E-08 |
| URI (Δ CDF) | 1.39E-08 | 4.19E-09 | 4.10E-09 | 2.91E-09 | 9.15E-10 | 6.91E-10 | 4.25E-10 | -4.61E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | 2.40E-07 | -1.40E-08 | 2.50E-08 | 7.60E-08 | -4.40E-08 | -4.40E-08 | -5.40E-08 | -4.90E-08 |

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

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 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | 5.85E-08 | 6.56E-08 | 9.20E-08 | 9.29E-08 | 7.52E-09 | 5.79E-08 | 1.81E-07 | 9.35E-08 |
| URI (Δ CDF) | -1.60E-08 | -1.59E-08 | -1.56E-08 | -1.27E-07 | -2.35E-07 | -2.39E-07 | -2.39E-07 | -2.38E-07 |
| PLE | NO |
| Indicator value | 4.20E-08 | 5.00E-08 | 7.60E-08 | -3.40E-08 | -2.30E-07 | -1.80E-07 | -5.70E-08 | -1.40E-07 |

Licensee Comments:

4Q/11: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping. CR-2011-008863

2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization

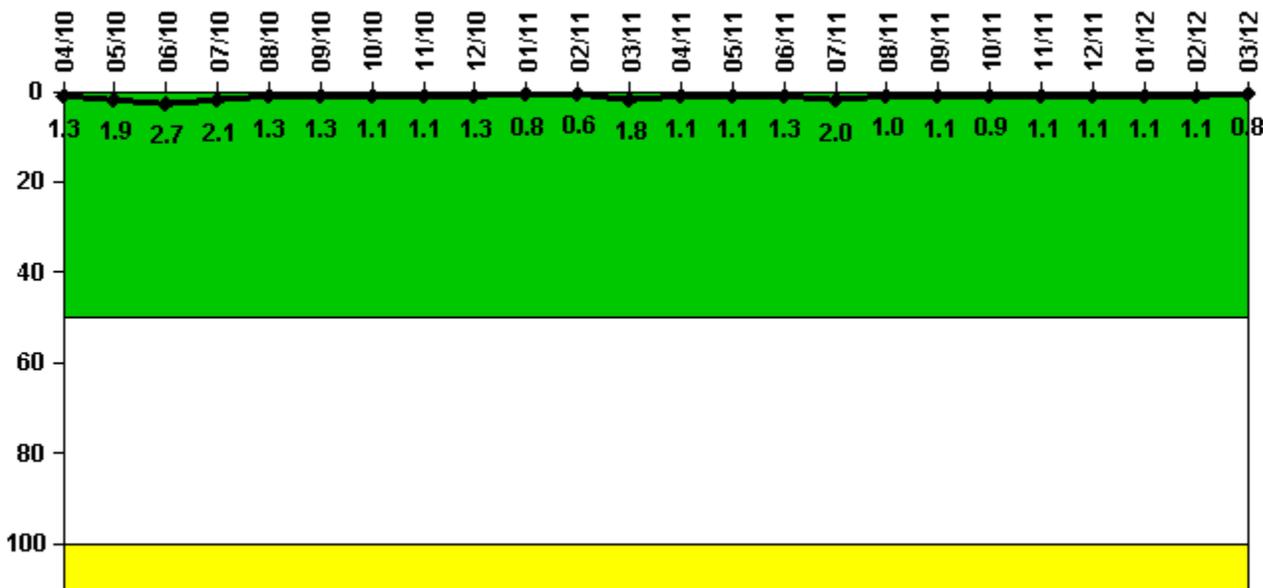
1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization. 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization. 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

| System Activity | 4/11 | 5/11 | 6/11 | 7/11 | 8/11 | 9/11 | 10/11 | 11/11 | 12/11 | 1/12 | 2/12 | 3/12 |
|-------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0.000863 | 0.000877 | 0.000842 | 0.000878 | 0.000956 | 0.001090 | 0.001170 | 0.001080 | 0.001240 | 0.001270 | 0.001420 | 0.001770 |
| Technical specification limit | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Indicator value | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 |

Licensee Comments: none

Reactor Coolant System Leakage



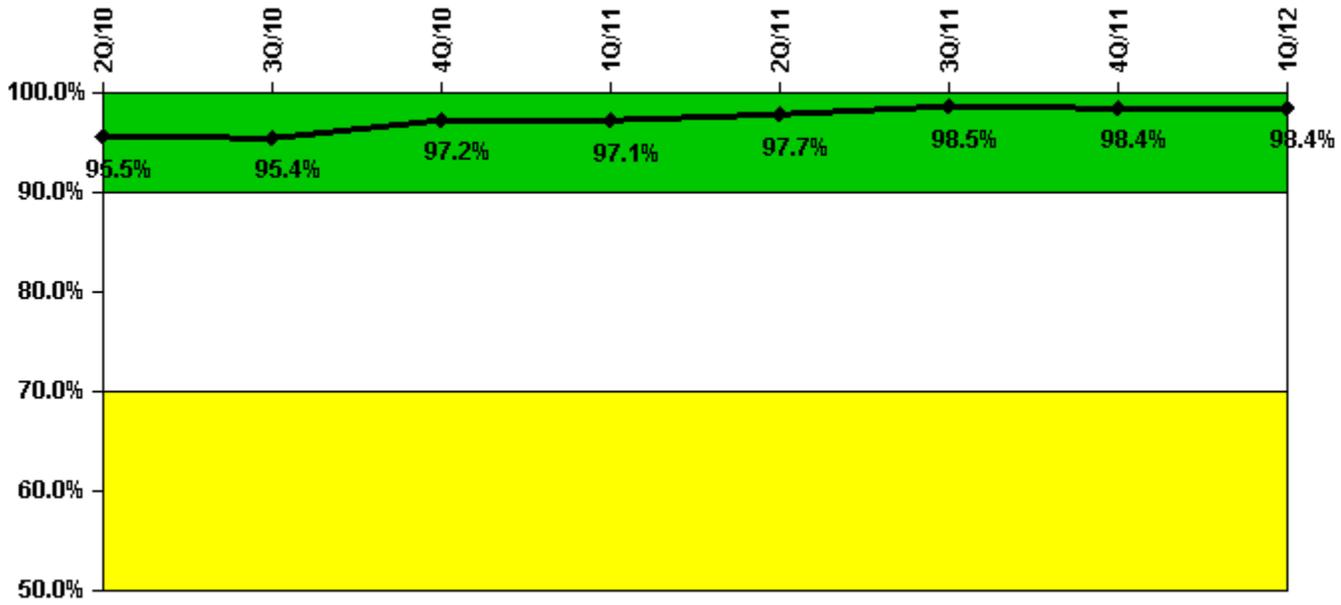
Thresholds: White > 50.0 Yellow > 100.0

Notes

| | | | | | | | | | | | | |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Reactor Coolant System Leakage | 4/10 | 5/10 | 6/10 | 7/10 | 8/10 | 9/10 | 10/10 | 11/10 | 12/10 | 1/11 | 2/11 | 3/11 |
| Maximum leakage | 0.134 | 0.190 | 0.270 | 0.210 | 0.130 | 0.130 | 0.110 | 0.110 | 0.130 | 0.080 | 0.060 | 0.180 |
| 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 | 1.3 | 1.9 | 2.7 | 2.1 | 1.3 | 1.3 | 1.1 | 1.1 | 1.3 | 0.8 | 0.6 | 1.8 |
| Reactor Coolant System Leakage | 4/11 | 5/11 | 6/11 | 7/11 | 8/11 | 9/11 | 10/11 | 11/11 | 12/11 | 1/12 | 2/12 | 3/12 |
| Maximum leakage | 0.110 | 0.110 | 0.130 | 0.200 | 0.100 | 0.110 | 0.090 | 0.110 | 0.110 | 0.110 | 0.110 | 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 | 1.1 | 1.1 | 1.3 | 2.0 | 1.0 | 1.1 | 0.9 | 1.1 | 1.1 | 1.1 | 1.1 | 0.8 |

Licensee Comments: none

Drill/Exercise Performance



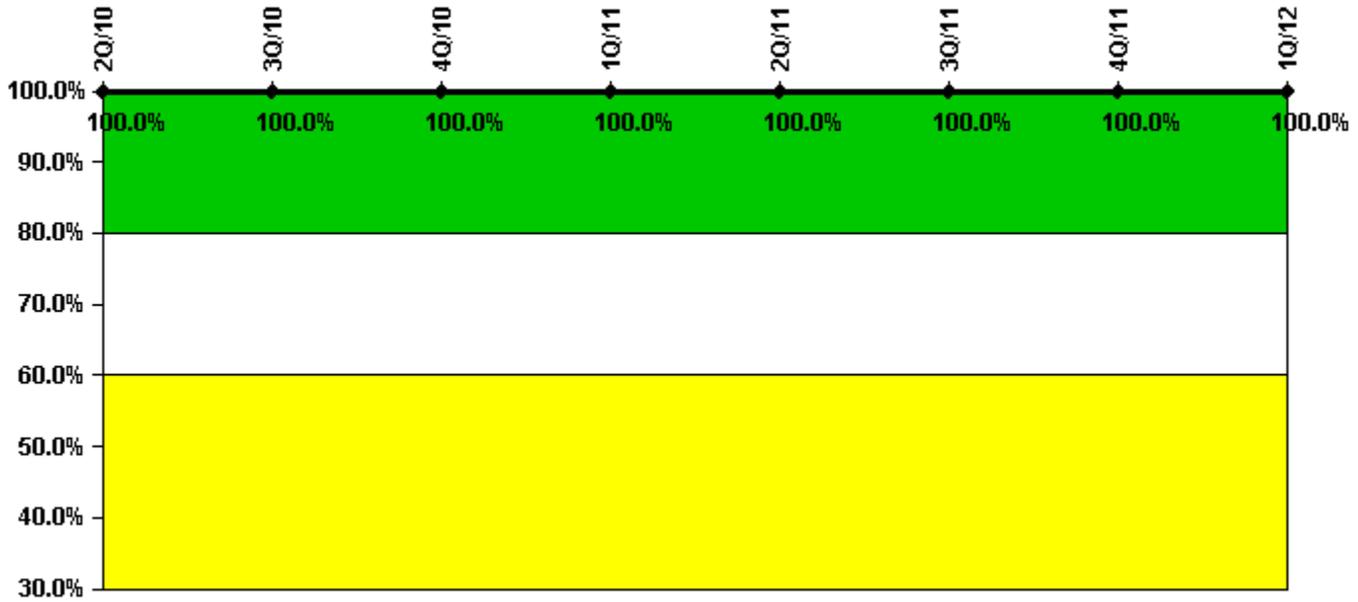
Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 23.0 | 76.0 | 53.0 | 4.0 | 58.0 | 30.0 | 56.0 | 5.0 |
| Total opportunities | 23.0 | 78.0 | 54.0 | 4.0 | 59.0 | 30.0 | 57.0 | 5.0 |
| Indicator value | 95.5% | 95.4% | 97.2% | 97.1% | 97.7% | 98.5% | 98.4% | 98.4% |

Licensee Comments: none

ERO Drill Participation



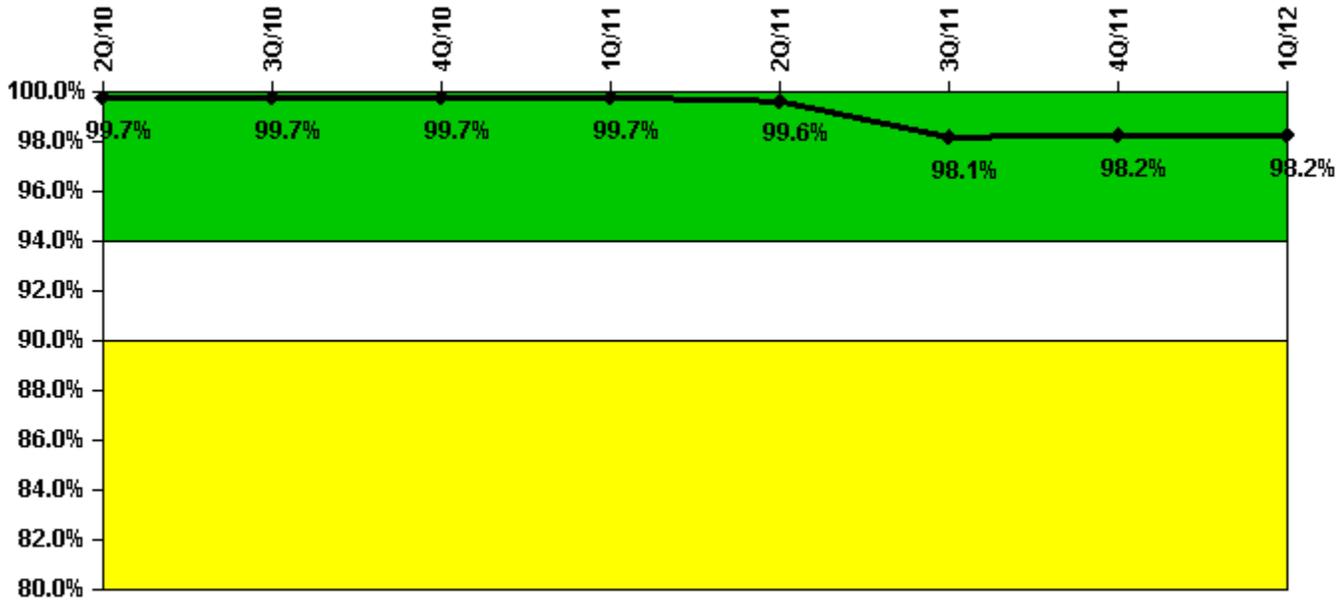
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Participating Key personnel | 87.0 | 86.0 | 88.0 | 85.0 | 88.0 | 83.0 | 84.0 | 86.0 |
| Total Key personnel | 87.0 | 86.0 | 88.0 | 85.0 | 88.0 | 83.0 | 84.0 | 86.0 |
| | | | | | | | | |
| Indicator value | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

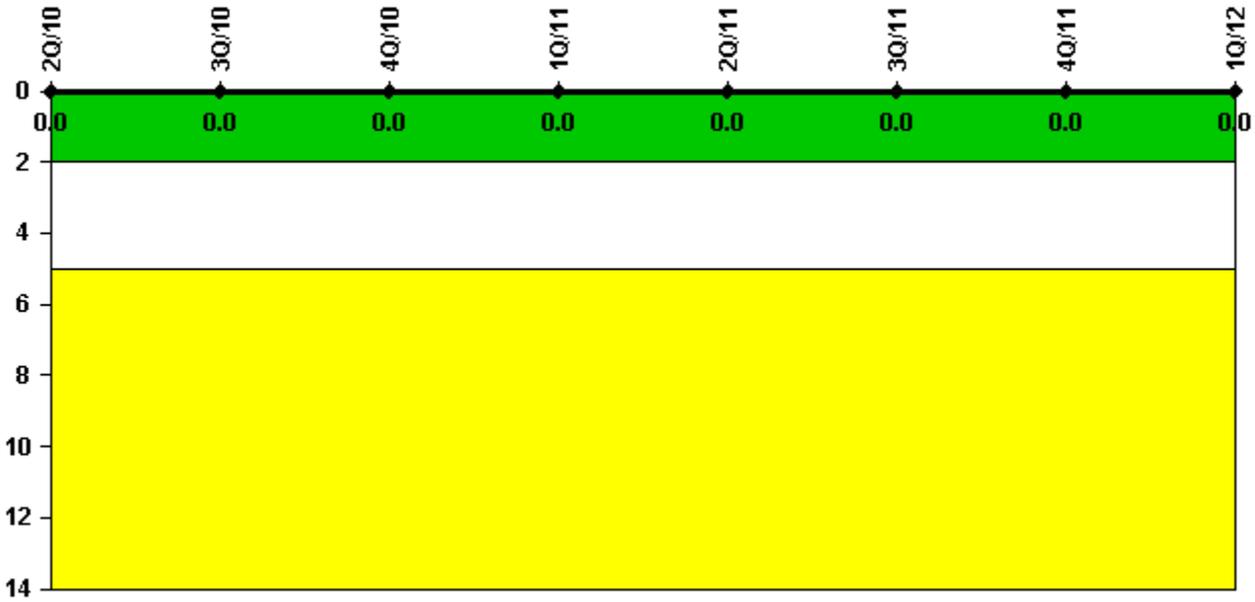
Notes

| Alert & Notification System | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests | 948 | 948 | 940 | 949 | 945 | 889 | 946 | 947 |
| Total sirens-tests | 949 | 949 | 949 | 949 | 949 | 949 | 949 | 949 |
| | | | | | | | | |
| Indicator value | 99.7% | 99.7% | 99.7% | 99.7% | 99.6% | 98.1% | 98.2% | 98.2% |

Licensee Comments:

3Q/11: ANS test was misinterpreted and incorrectly reported in 3Q2011. The system engineer caught the error and Licensing corrected in CDE in 1Q2012. CR-2012-000541.

Occupational Exposure Control Effectiveness



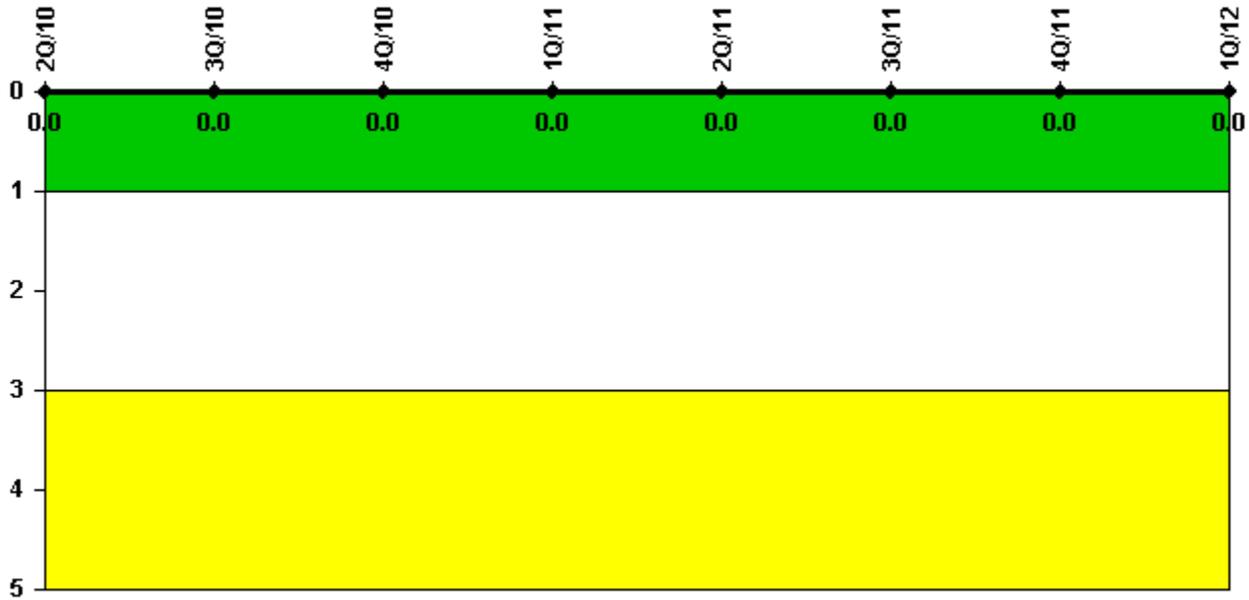
Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| 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 |

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

[Security](#) information not publicly available.