

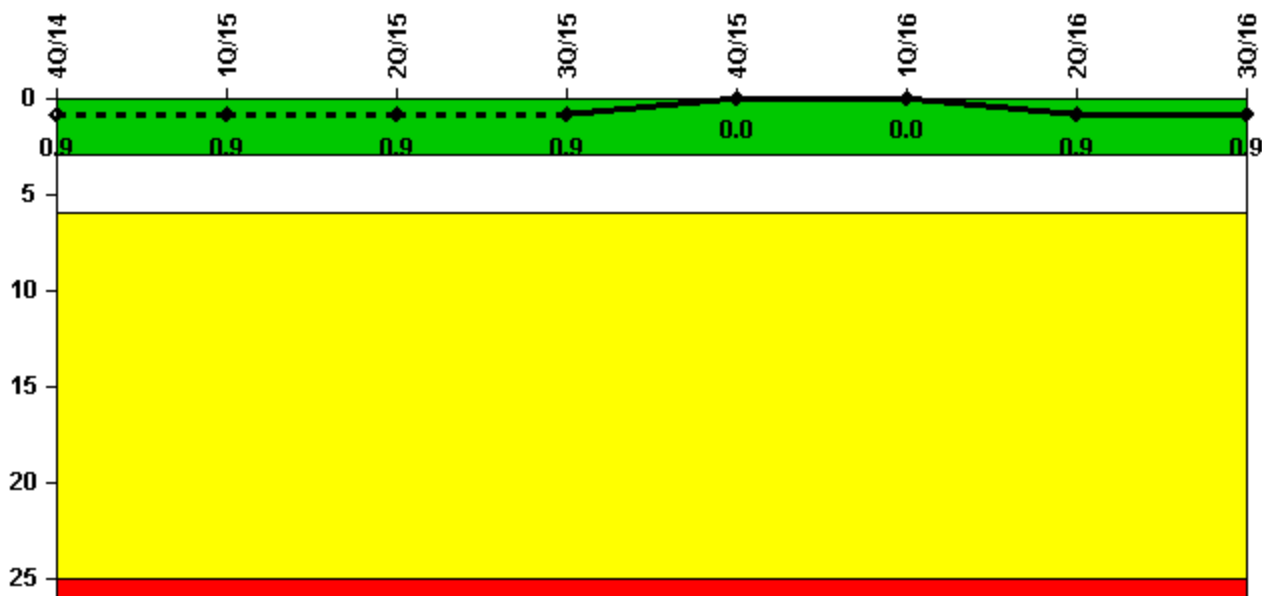
Farley 2

3Q/2016 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

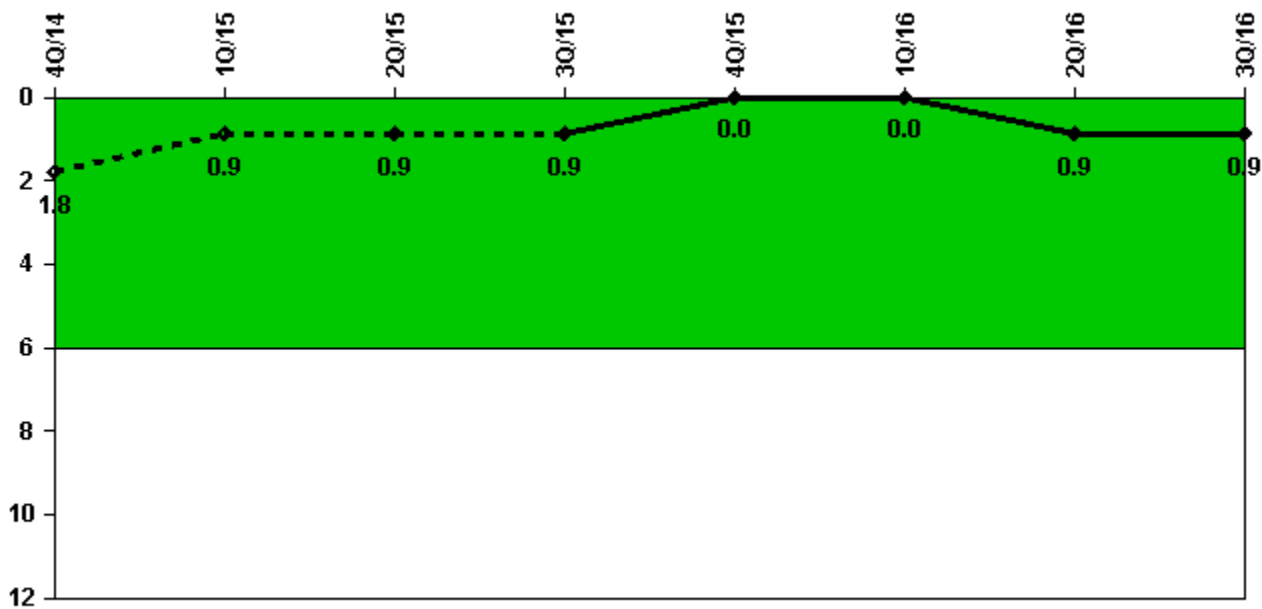
Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|--|------------|------------|------------|------------|----------|----------|------------|------------|
| Unplanned scrams | 1.0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 1322.0 | 2159.0 | 2184.0 | 2208.0 | 2080.2 | 2183.0 | 1453.8 | 2208.0 |
| Indicator value | 0.9 | 0.9 | 0.9 | 0.9 | 0 | 0 | 0.9 | 0.9 |

Licensee Comments:

4Q/14: Reactor Trip (Manual) due to a loss of component cooling water (CCW) flow to the reactor coolant pumps.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

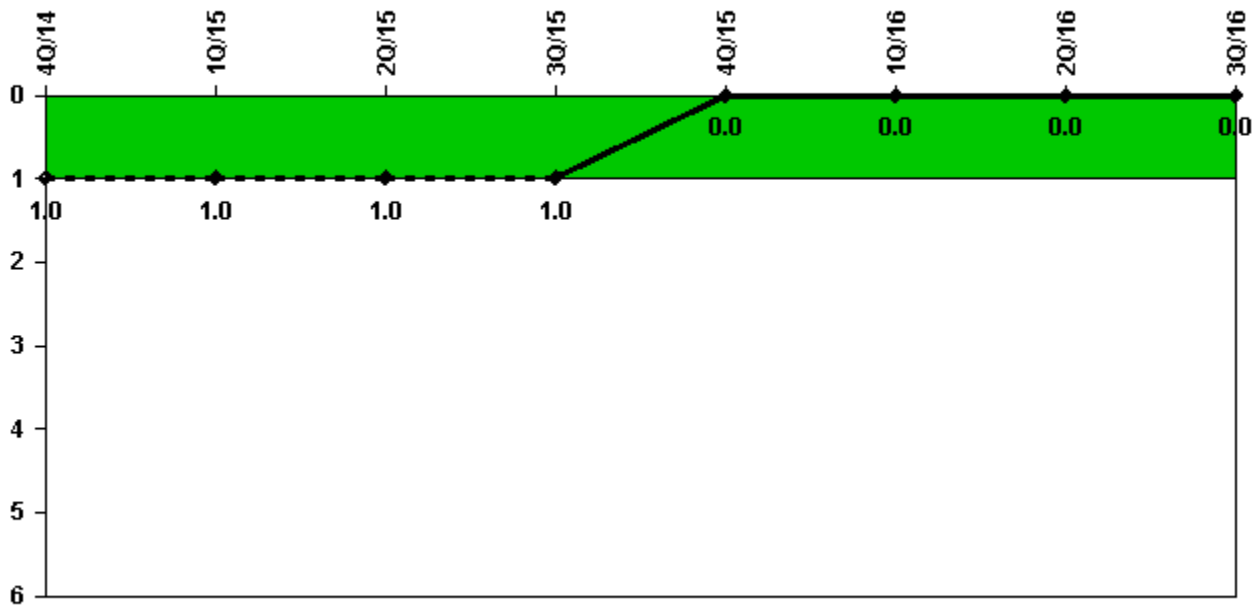
Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|------------|------------|------------|------------|----------|----------|------------|------------|
| Unplanned power changes | 1.0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 1322.0 | 2159.0 | 2184.0 | 2208.0 | 2080.2 | 2183.0 | 1453.8 | 2208.0 |
| Indicator value | 1.8 | 0.9 | 0.9 | 0.9 | 0 | 0 | 0.9 | 0.9 |

Licensee Comments:

4Q/14: Unplanned losses due to a steam leak in CTMT.

Unplanned Scrams with Complications



Thresholds: White > 1.0

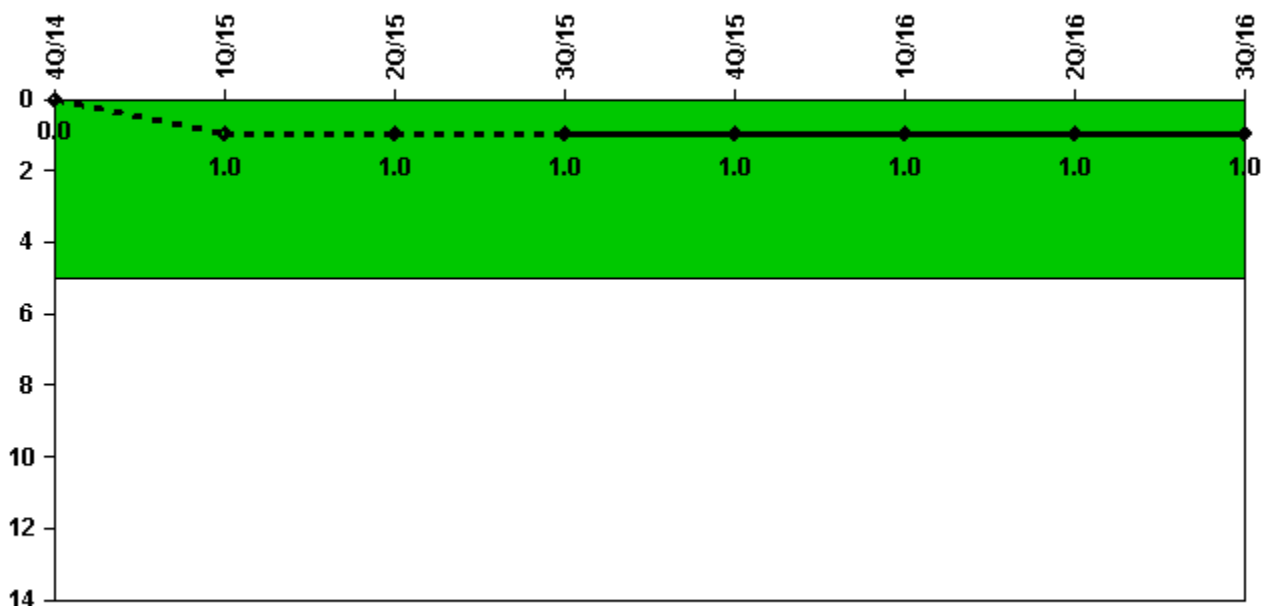
Notes

| Unplanned Scrams with Complications | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|-------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Scrams with complications | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| Indicator value | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Licensee Comments:

4Q/14: Reactor Trip (Manual) due to a loss of component cooling water (CCW) flow to the reactor coolant pumps. This event was considered a scram with complications due to the loss of power to an ESF bus.

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

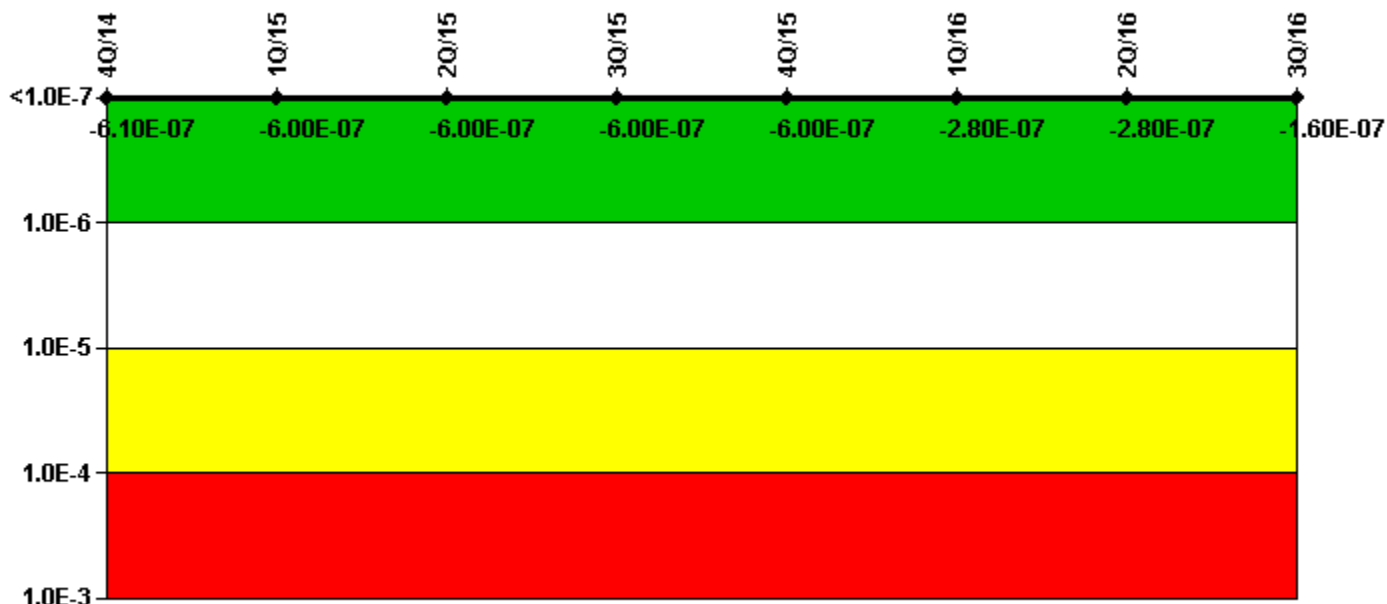
| Safety System Functional Failures (PWR) | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| Safety System Functional Failures | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Indicator value | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Licensee Comments:

1Q/16: LER - 2015 005-00 Turbine Driven Auxiliary Feedwater in a Condition Prohibited by Technical Specifications due to a Design Issue per 10 CFR 50.73(a)(2)(v)(B)

1Q/15: LER 2015-001-00-Turbine Driven Auxiliary Feedwater Pump in a Condition Prohibited by Technical Specifications due to a Design Issue

Mitigating Systems Performance Index, Emergency AC Power System



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

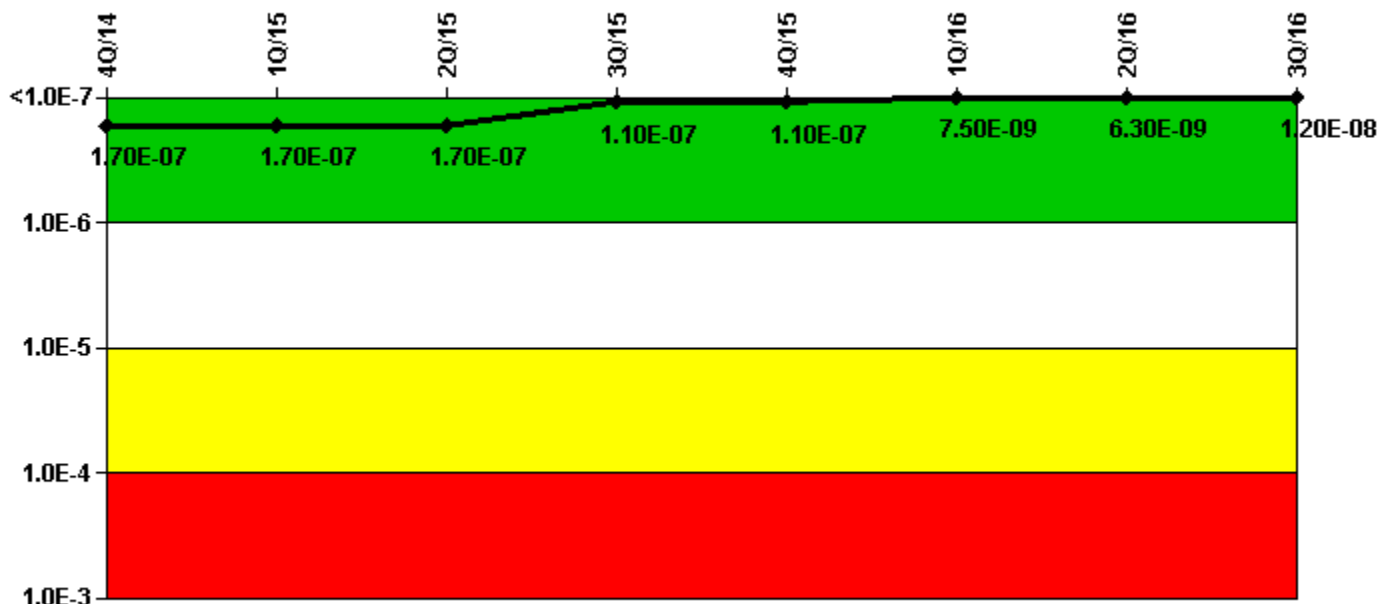
Notes

| Mitigating Systems Performance Index, Emergency AC Power System | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | -5.36E-08 | -4.46E-08 | -3.76E-08 | -3.76E-08 | -3.75E-08 | -3.03E-08 | -3.01E-08 | -1.78E-08 |
| URI (Δ CDF) | -5.60E-07 | -5.60E-07 | -5.60E-07 | -5.60E-07 | -5.60E-07 | -2.47E-07 | -2.47E-07 | -1.41E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -6.10E-07 | -6.00E-07 | -6.00E-07 | -6.00E-07 | -6.00E-07 | -2.80E-07 | -2.80E-07 | -1.60E-07 |

Licensee Comments:

3Q/16: 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

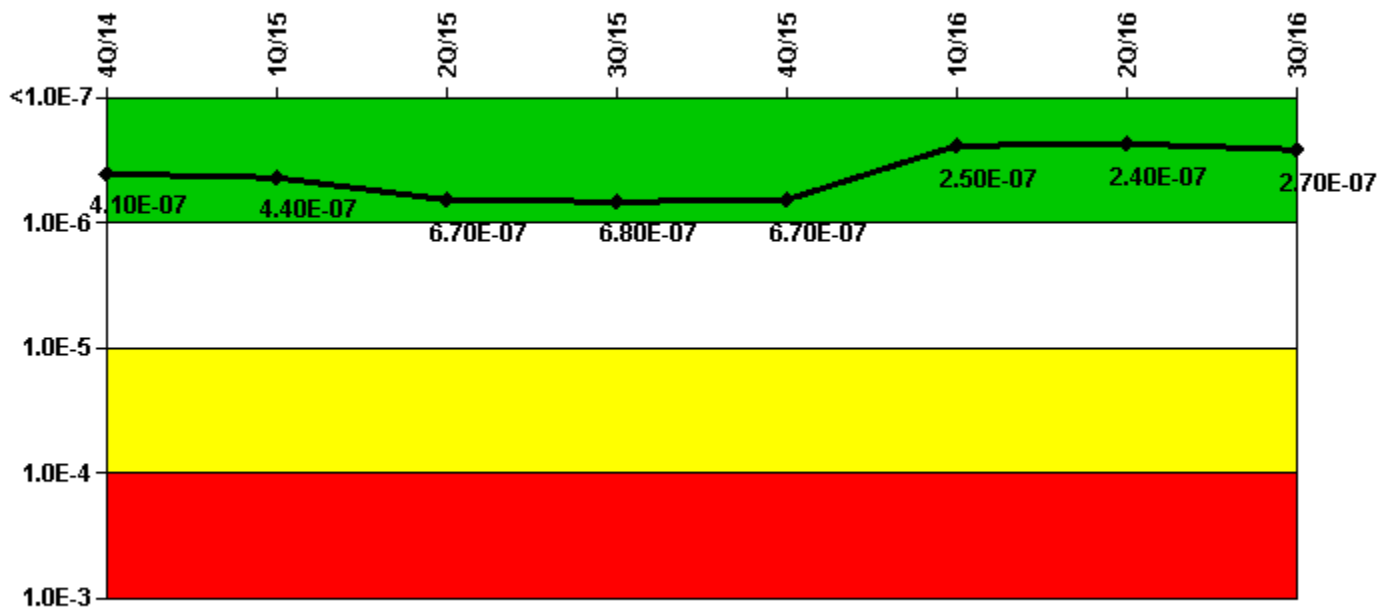
Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (ΔCDF) | 1.95E-07 | 1.94E-07 | 1.96E-07 | 1.37E-07 | 1.40E-07 | 2.19E-08 | 2.07E-08 | 1.53E-08 |
| URI (ΔCDF) | -2.82E-08 | -2.82E-08 | -2.82E-08 | -2.82E-08 | -2.82E-08 | -1.43E-08 | -1.43E-08 | -3.23E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | 1.70E-07 | 1.70E-07 | 1.70E-07 | 1.10E-07 | 1.10E-07 | 7.50E-09 | 6.30E-09 | 1.20E-08 |

Licensee Comments:

3Q/16: 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

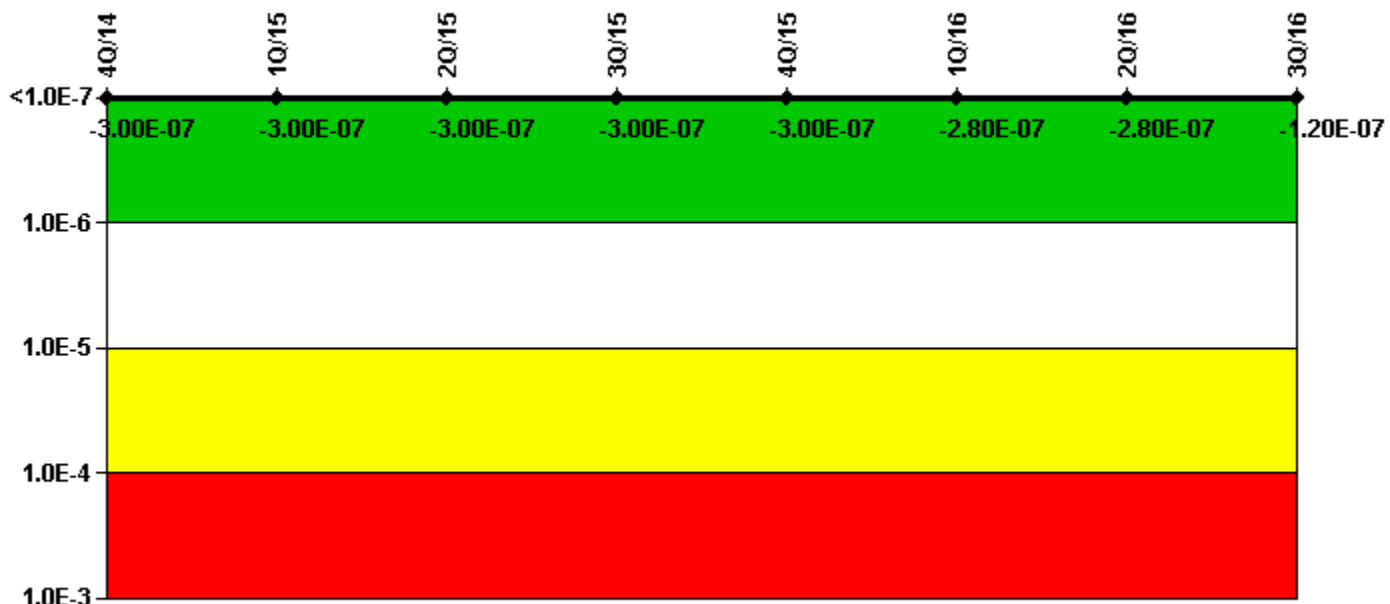
| Mitigating Systems Performance Index, Heat Removal System | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| UAI (Δ CDF) | 1.87E-07 | 2.18E-07 | 2.21E-07 | 2.35E-07 | 2.22E-07 | 1.09E-07 | 1.03E-07 | 1.28E-07 |
| URI (Δ CDF) | 2.25E-07 | 2.25E-07 | 4.44E-07 | 4.44E-07 | 4.44E-07 | 1.40E-07 | 1.40E-07 | 1.39E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | 4.10E-07 | 4.40E-07 | 6.70E-07 | 6.80E-07 | 6.70E-07 | 2.50E-07 | 2.40E-07 | 2.70E-07 |

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

4Q/15: An evaluation is pending for the Nov 2015 failure on Unit 2 Heat Removal.

Mitigating Systems Performance Index, Residual Heat Removal System



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

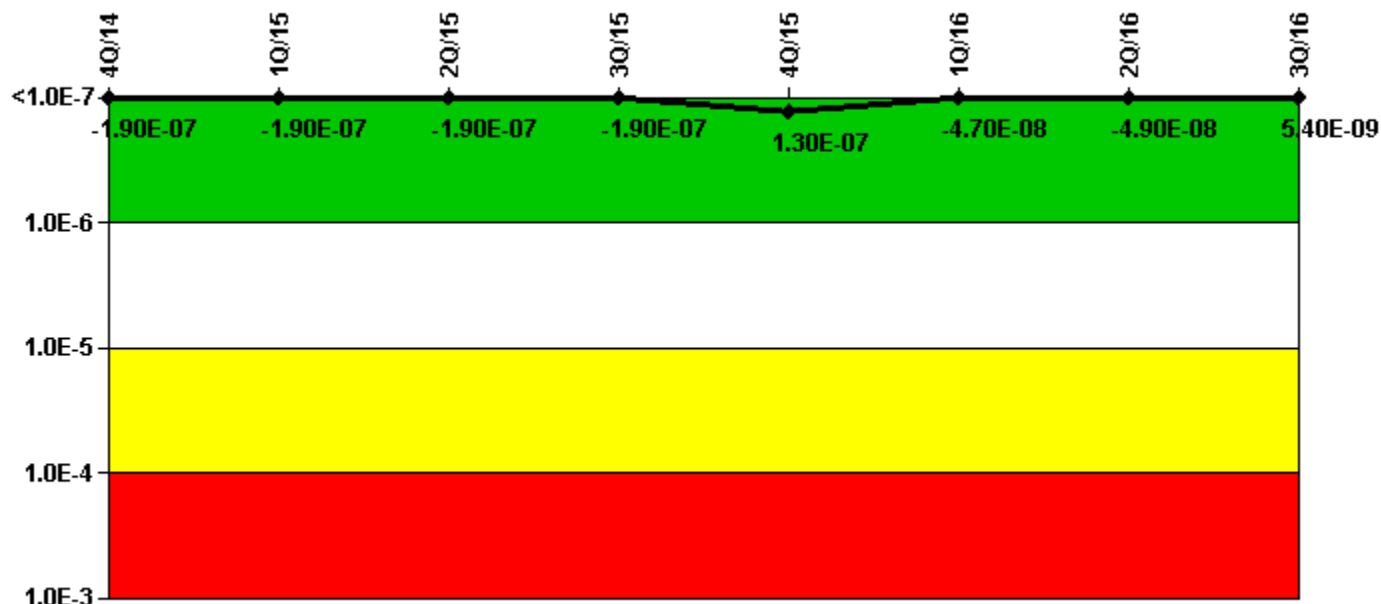
Notes

| Mitigating Systems Performance Index, Residual Heat Removal System | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | -7.74E-08 | -7.74E-08 | -7.74E-08 | -7.74E-08 | -7.74E-08 | -7.60E-08 | -7.60E-08 | -3.01E-08 |
| URI (Δ CDF) | -2.25E-07 | -2.25E-07 | -2.25E-07 | -2.25E-07 | -2.25E-07 | -2.05E-07 | -2.05E-07 | -9.49E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -3.00E-07 | -3.00E-07 | -3.00E-07 | -3.00E-07 | -3.00E-07 | -2.80E-07 | -2.80E-07 | -1.20E-07 |

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

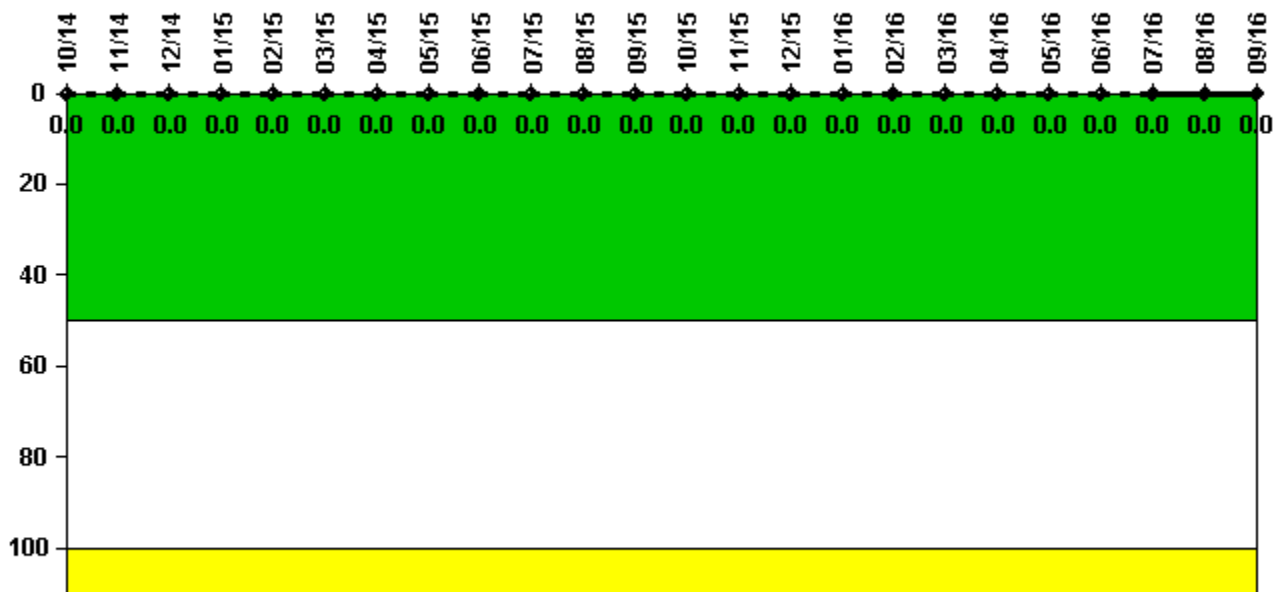
Notes

| Mitigating Systems Performance Index, Cooling Water Systems | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|-----------|-----------|-----------|-----------|----------|-----------|-----------|----------|
| UAI (Δ CDF) | 1.84E-08 | 2.38E-08 | 2.30E-08 | 2.33E-08 | 2.71E-08 | 3.82E-08 | 3.63E-08 | 3.59E-09 |
| URI (Δ CDF) | -2.12E-07 | -2.12E-07 | -2.12E-07 | -2.12E-07 | 9.84E-08 | -8.50E-08 | -8.50E-08 | 1.83E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -1.90E-07 | -1.90E-07 | -1.90E-07 | -1.90E-07 | 1.30E-07 | -4.70E-08 | -4.90E-08 | 5.40E-09 |

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

Reactor Coolant System Activity



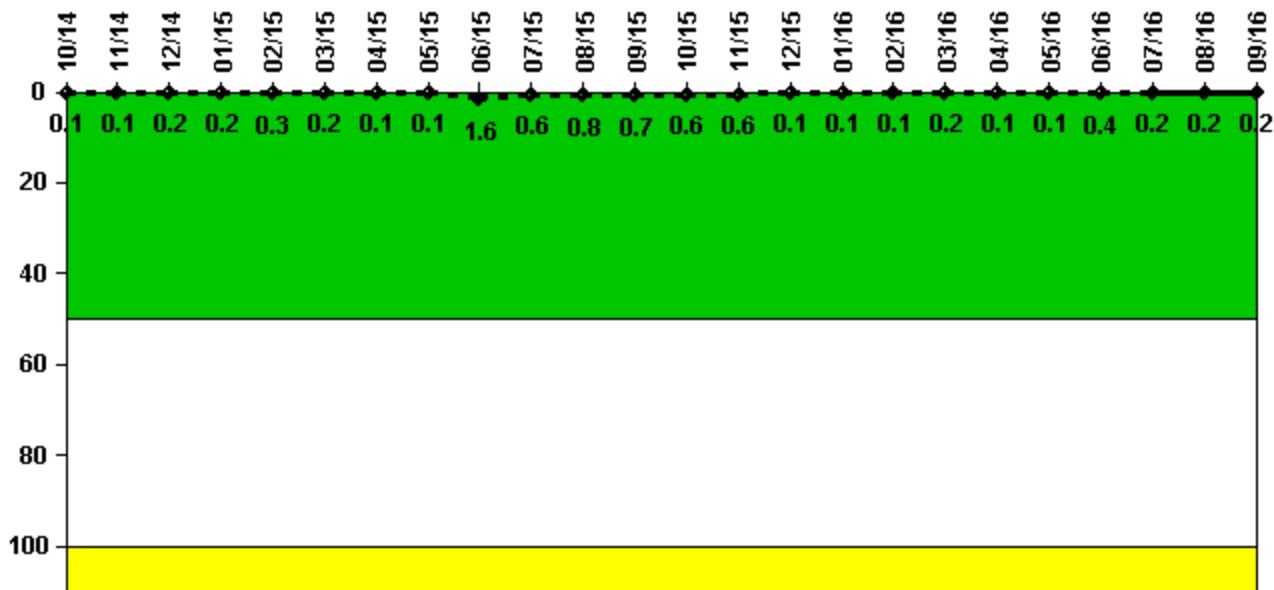
Thresholds: White > 50.0 Yellow > 100.0

Notes

| 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 | 0.000169 | 0.000019 | 0.000027 | 0.000029 | 0.000034 | 0.000038 | 0.000032 | 0.000037 | 0.000038 | 0.000046 | 0.000042 | 0.000037 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reactor Coolant System Activity | 10/15 | 11/15 | 12/15 | 1/16 | 2/16 | 3/16 | 4/16 | 5/16 | 6/16 | 7/16 | 8/16 | 9/16 |
| Maximum activity | 0.000043 | 0.000040 | 0.000045 | 0.000042 | 0.000046 | 0.000047 | 0.000042 | 0.000025 | 0.000023 | 0.000041 | 0.000038 | 0.000035 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Reactor Coolant System Leakage



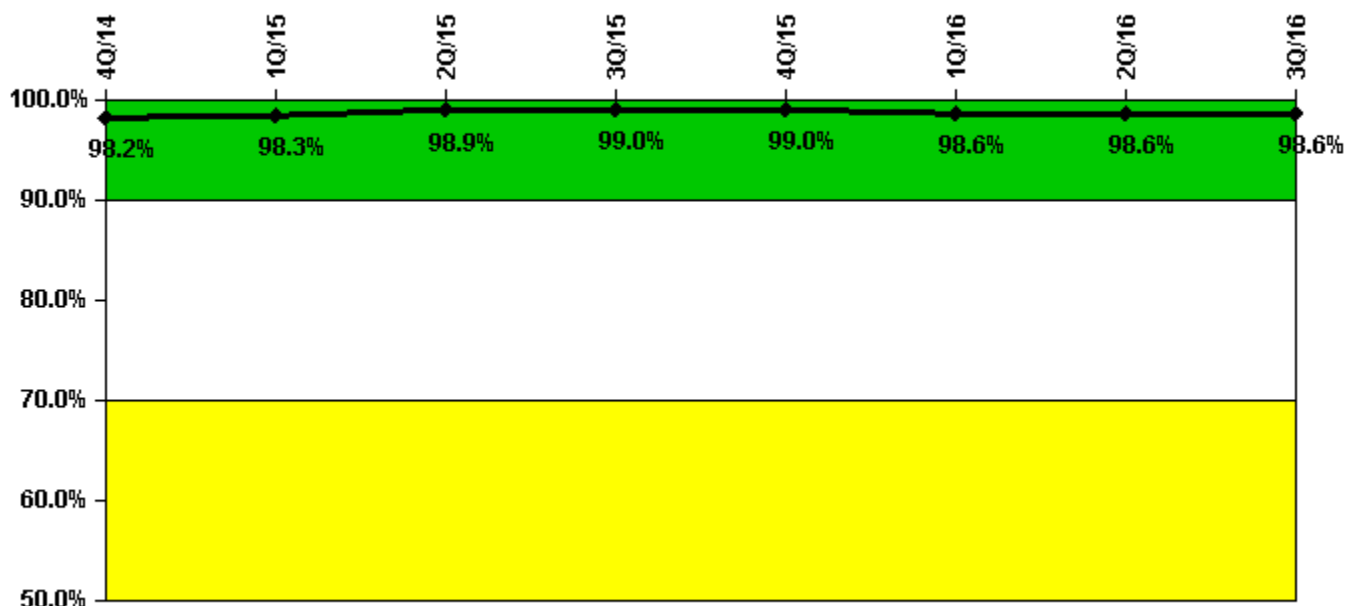
Thresholds: White > 50.0 Yellow > 100.0

Notes

| Reactor Coolant System Leakage | 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 | 0.012 | 0.012 | 0.019 | 0.018 | 0.025 | 0.021 | 0.014 | 0.014 | 0.156 | 0.059 | 0.077 | 0.074 |
| 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 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.1 | 0.1 | 1.6 | 0.6 | 0.8 | 0.7 |
| Reactor Coolant System Leakage | 10/15 | 11/15 | 12/15 | 1/16 | 2/16 | 3/16 | 4/16 | 5/16 | 6/16 | 7/16 | 8/16 | 9/16 |
| Maximum leakage | 0.064 | 0.062 | 0.014 | 0.014 | 0.012 | 0.017 | 0.011 | 0.014 | 0.042 | 0.024 | 0.020 | 0.016 |
| 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 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.4 | 0.2 | 0.2 | 0.2 |

Licensee Comments: none

Drill/Exercise Performance



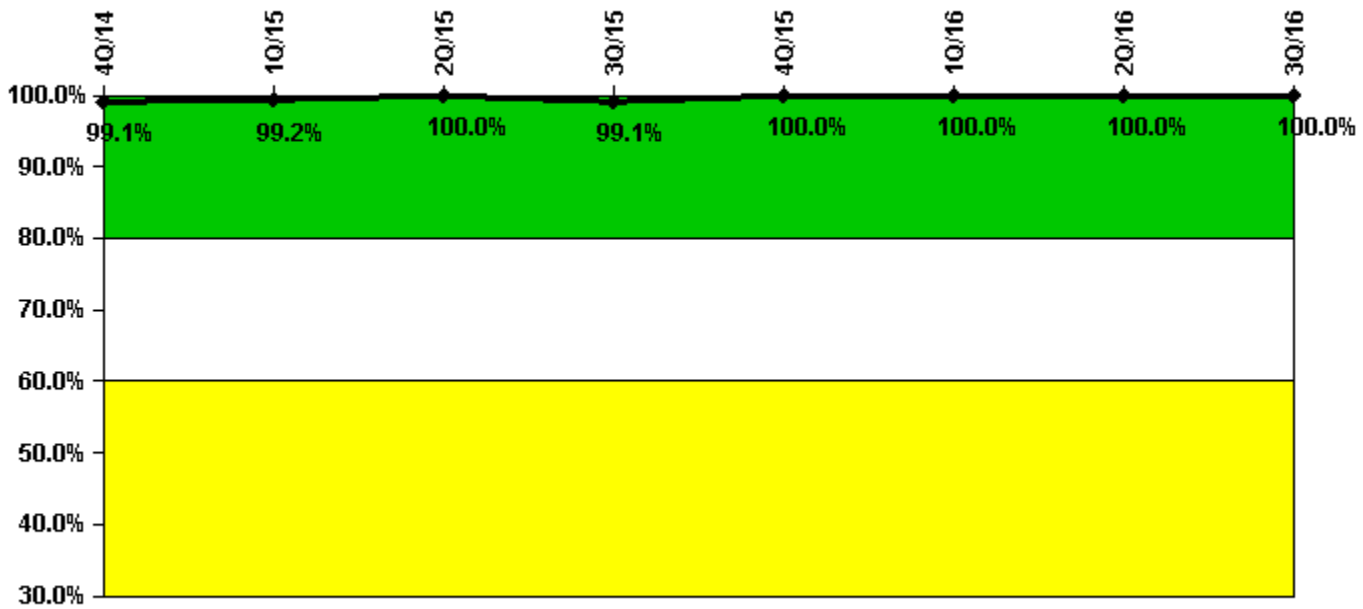
Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 20.0 | 63.0 | 22.0 | 59.0 | 22.0 | 82.0 | 39.0 | 37.0 |
| Total opportunities | 20.0 | 63.0 | 23.0 | 59.0 | 22.0 | 85.0 | 40.0 | 37.0 |
| Indicator value | 98.2% | 98.3% | 98.9% | 99.0% | 99.0% | 98.6% | 98.6% | 98.6% |

Licensee Comments: none

ERO Drill Participation



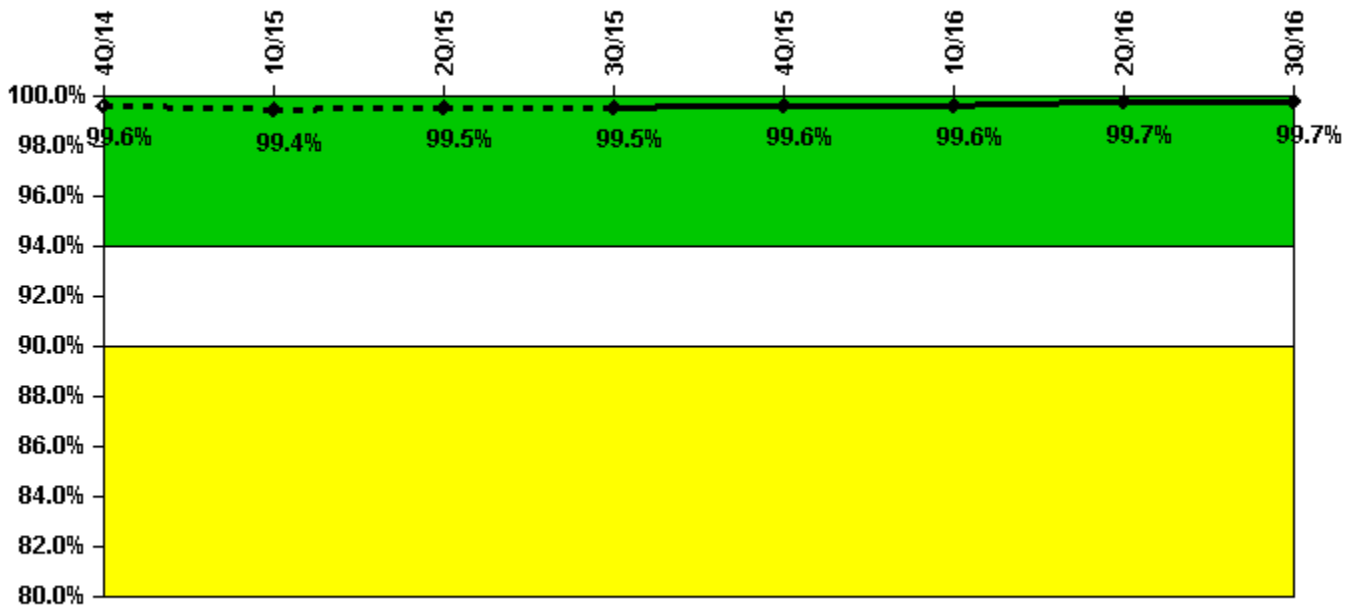
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|-----------------------------|-------|-------|--------|-------|--------|--------|--------|--------|
| Participating Key personnel | 114.0 | 118.0 | 115.0 | 114.0 | 120.0 | 120.0 | 116.0 | 120.0 |
| Total Key personnel | 115.0 | 119.0 | 115.0 | 115.0 | 120.0 | 120.0 | 116.0 | 120.0 |
| Indicator value | 99.1% | 99.2% | 100.0% | 99.1% | 100.0% | 100.0% | 100.0% | 100.0% |

Licensee Comments: none

Alert & Notification System



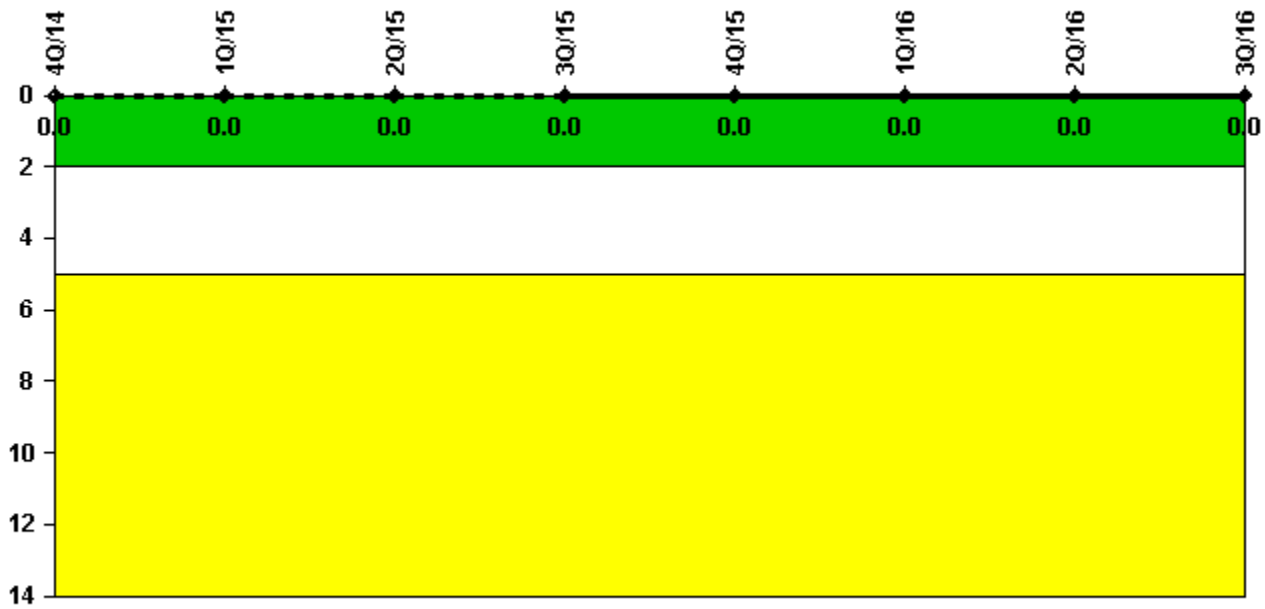
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests | 1151 | 1148 | 1154 | 1150 | 1244 | 1152 | 1157 | 1152 |
| Total sirens-tests | 1157 | 1157 | 1157 | 1157 | 1246 | 1157 | 1157 | 1157 |
| Indicator value | 99.6% | 99.4% | 99.5% | 99.5% | 99.6% | 99.6% | 99.7% | 99.7% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



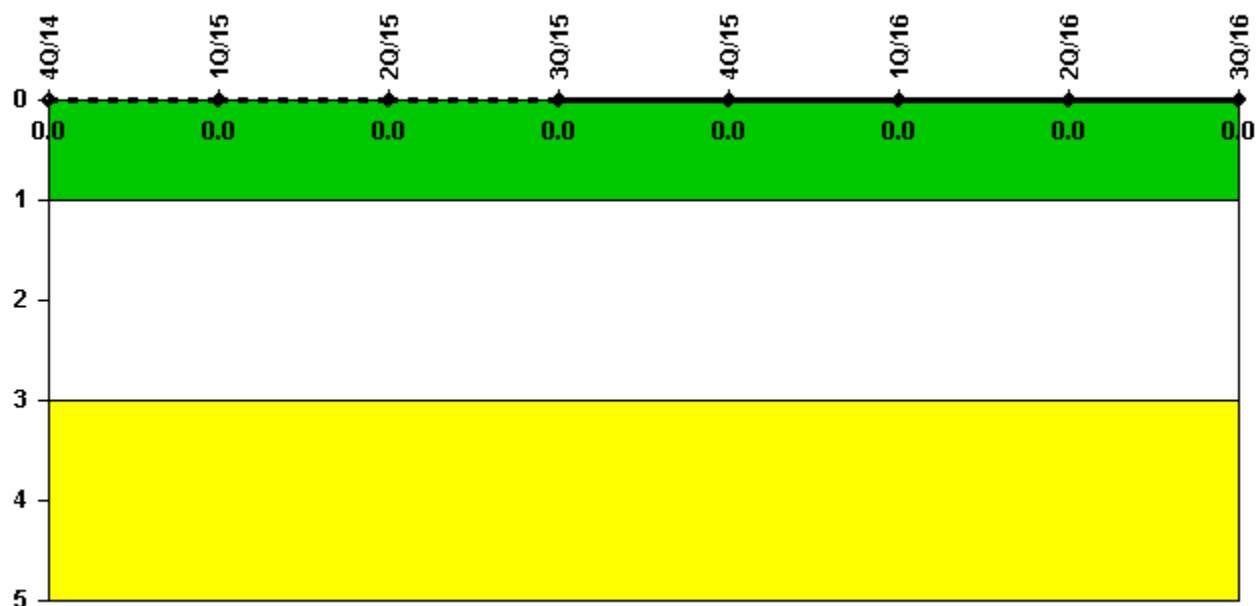
Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| 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/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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: October 23, 2016