

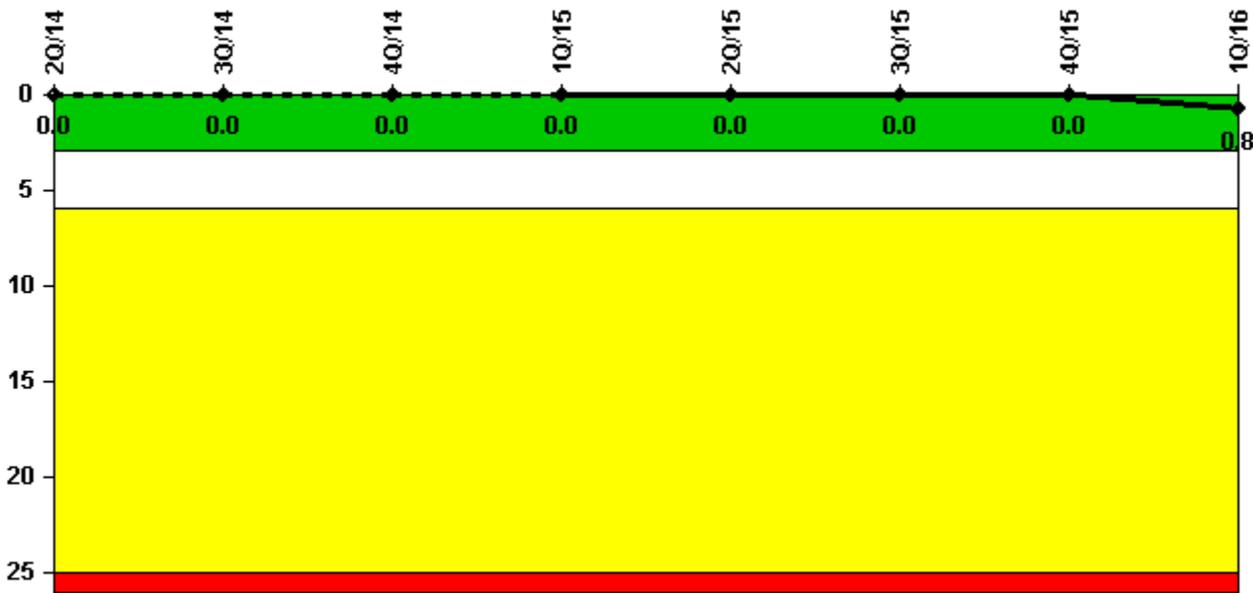
FitzPatrick

1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: Revised MSPI Basis Document for EDG risk in accordance with NEI 99-02. Previously the Risk utilized affected both trains of EDG per NEI 99.02 Section F1.1.1.

Unplanned Scrams per 7000 Critical Hrs



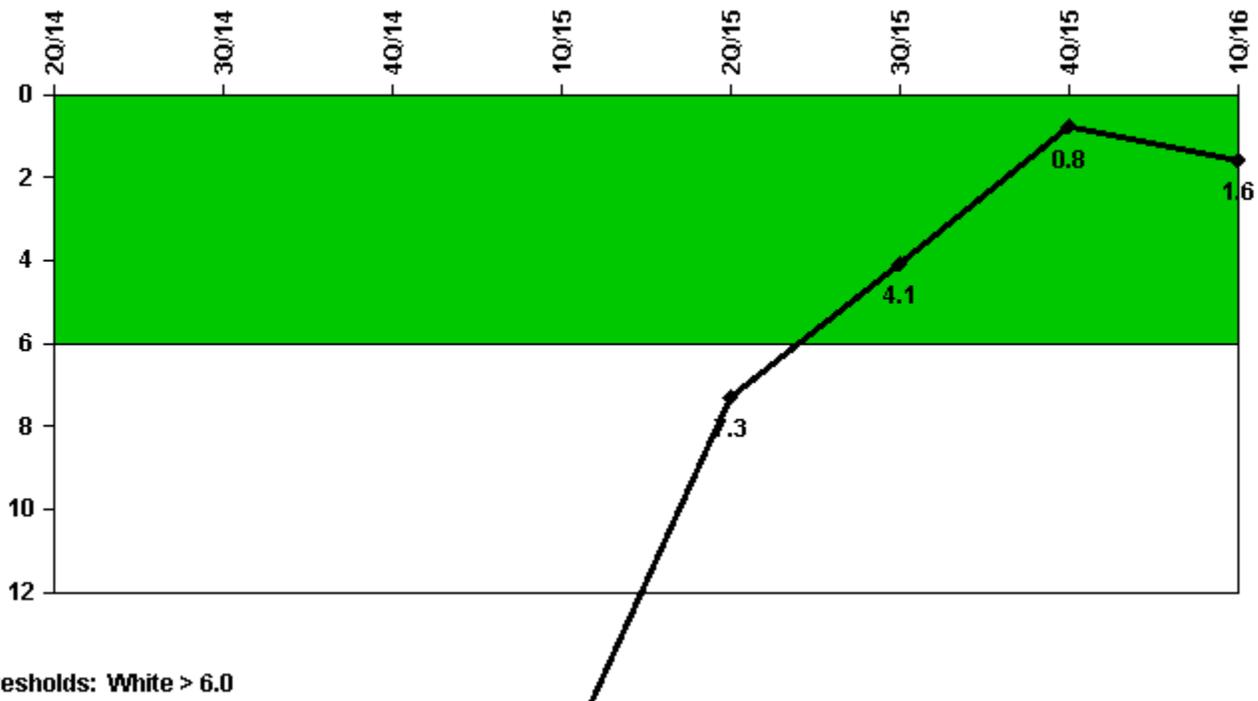
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2155.7	1318.0	2060.1	2159.0	2184.0	2208.0	2209.0	2058.8
Indicator value	0	0.8						

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned power changes	10.0	4.0	4.0	0	0	1.0	0	1.0
Critical hours	2155.7	1318.0	2060.1	2159.0	2184.0	2208.0	2209.0	2058.8
Indicator value	23.2	27.7	26.4	16.4	7.3	4.1	0.8	1.6

Licensee Comments:

2Q/15: Multiple downpowers were due to Main Condenser tube leakage. Retubing project completed during Refuel Outage 21. Main Condenser degrading performance has been corrected and this PI is improving. There is no effect on public or nuclear safety.

1Q/15: Multiple downpowers were due to Main Condenser tube leakage. Retubing project completed during Refuel Outage 21. Main Condenser degrading performance has been corrected and this PI is improving. There is no effect on public or nuclear safety.

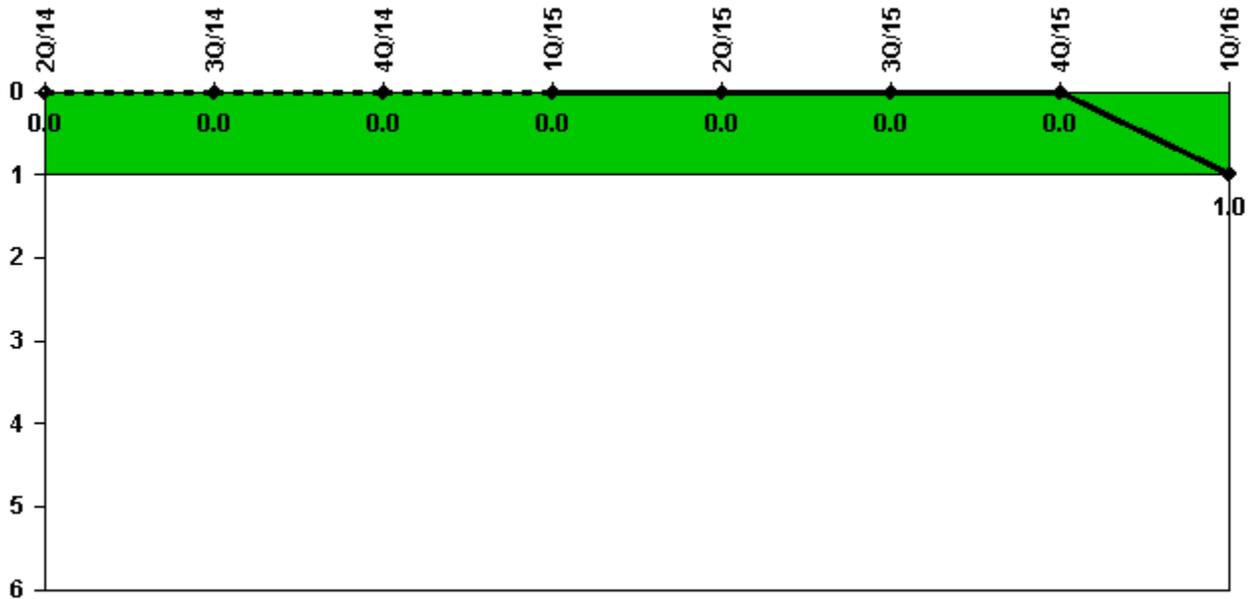
4Q/14: Multiple downpowers are due to Main Condenser tube leakage. Retubing project completed during Refuel Outage 21. Main Condenser degrading performance has been corrected and this PI is expected to improve. There is no effect on public or nuclear safety.

3Q/14: Multiple downpowers are due to Main Condenser tube leakage. Retubing project completed during Refuel Outage 21. Main Condenser degrading performance has been corrected and this PI is expected to improve. There is no effect on public or nuclear safety.

2Q/14: Multiple downpowers are due to repairs on the Main Condenser tube inleakage. This deficiency is a known issue but individual tube failures are not predictable. Compensatory measures, such as tube plugging and tube

sleeving, have been performed to mitigate Main Condenser performance. Full Tube replacement is scheduled for next refueling outage. There is no effect on public or nuclear safety.

Unplanned Scrams with Complications



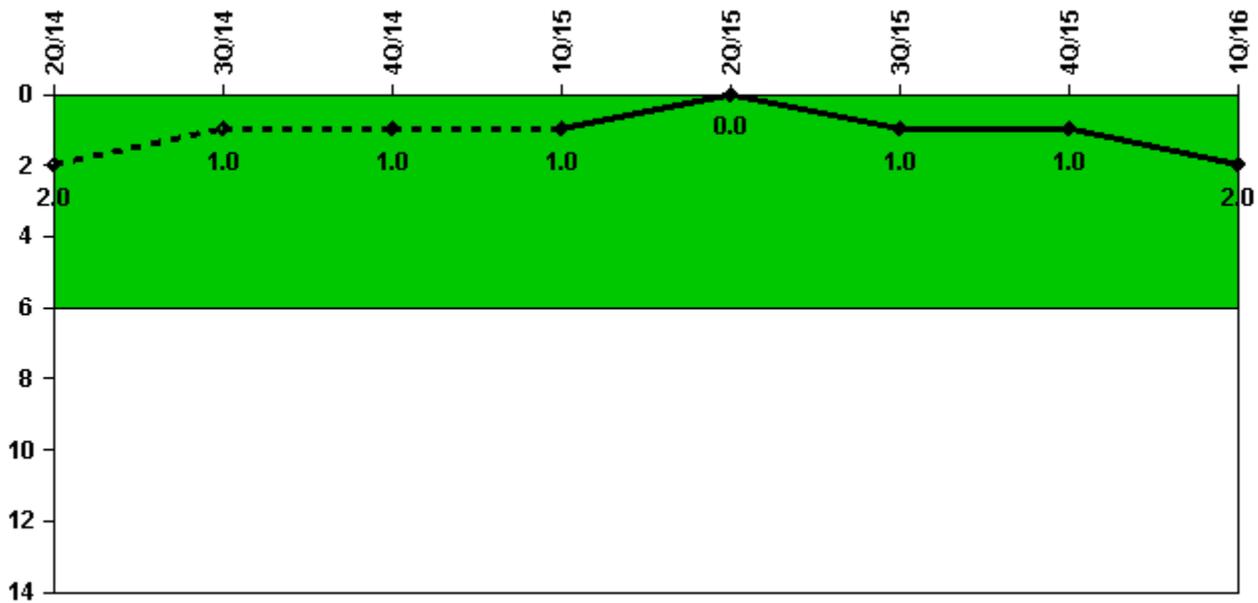
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (BWR)



Thresholds: White > 6.0

Notes

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

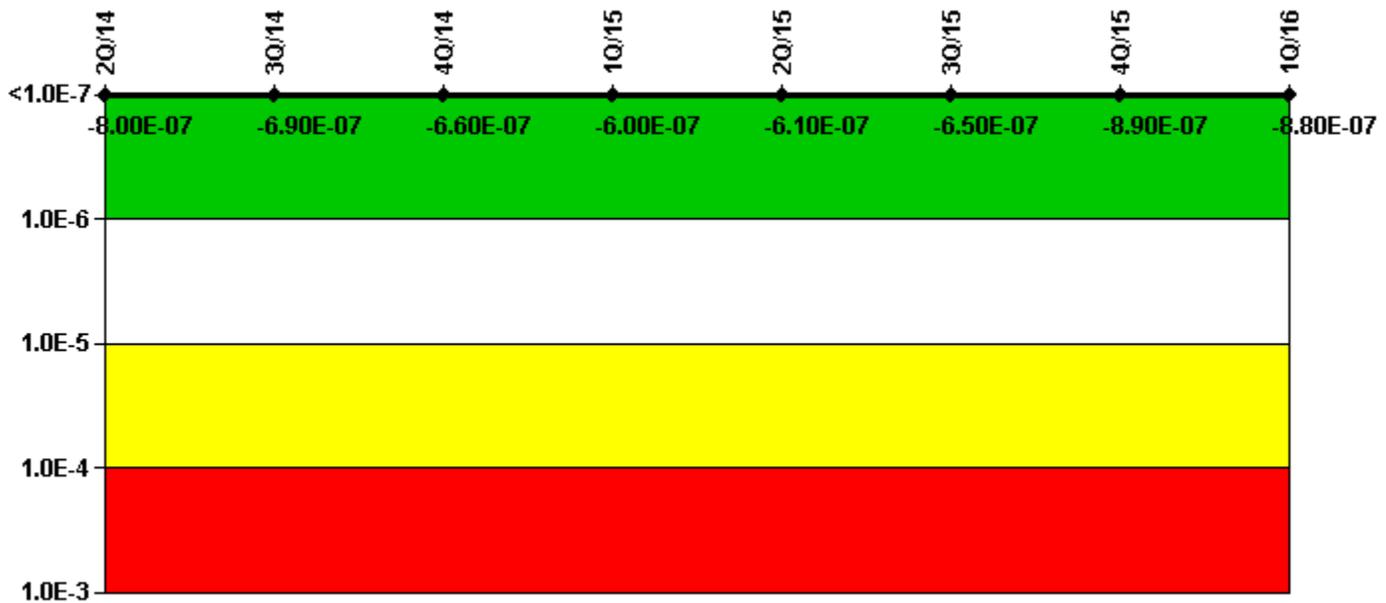
Licensee Comments:

1Q/16: LER-15-008, Containment Atmosphere Dilution System Reliability Degraded due to Manufacturer Defect in Temperature Transmitters

3Q/15: LER-2015-003, Roof Maintenance Results in Secondary Containment Vacuum Below Technical Specification Limit

2Q/14: LER-14-001

Mitigating Systems Performance Index, Emergency AC Power System



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

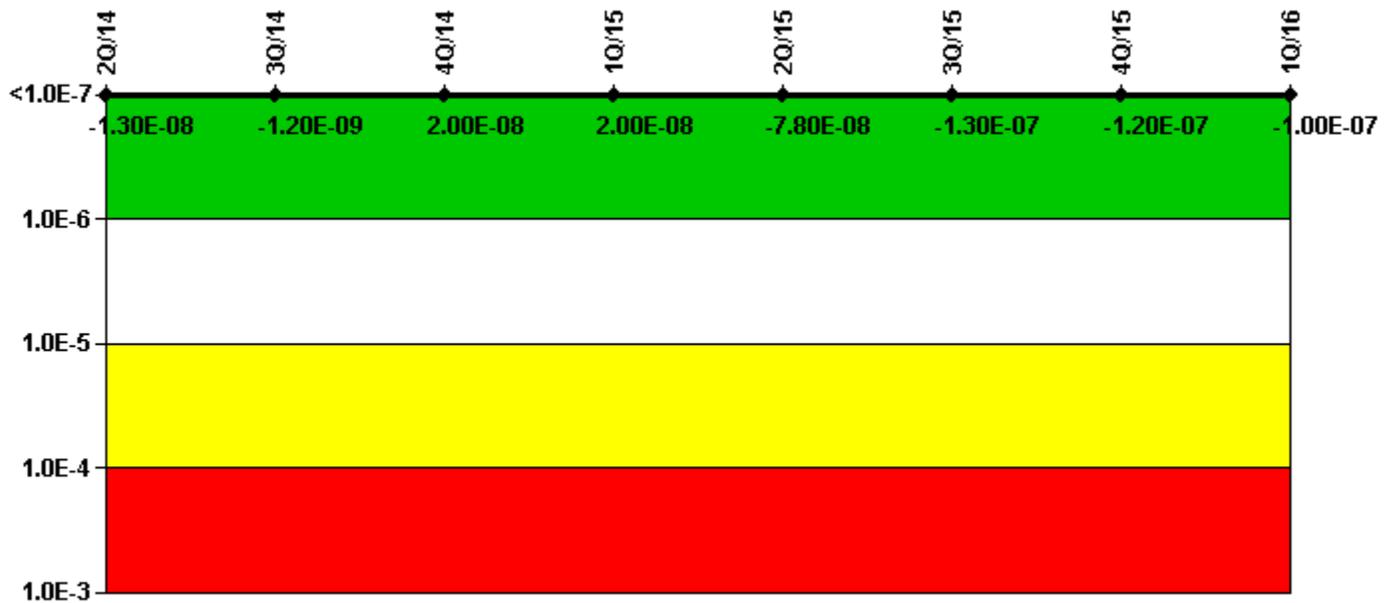
Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	7.89E-09	8.30E-09	5.04E-09	2.79E-09	5.78E-09	4.70E-09	6.10E-09	5.41E-09
URI (Δ CDF)	-8.13E-07	-7.03E-07	-6.64E-07	-5.99E-07	-6.19E-07	-6.57E-07	-8.93E-07	-8.84E-07
PLE	NO							
Indicator value	-8.00E-07	-6.90E-07	-6.60E-07	-6.00E-07	-6.10E-07	-6.50E-07	-8.90E-07	-8.80E-07

Licensee Comments:

1Q/16: Revised the EDG risk in accordance with NEI 99-02. Previously the Risk utilized affected both trains of EDG per NEI 99.02 Section F1.1.1.

Mitigating Systems Performance Index, High Pressure Injection System



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

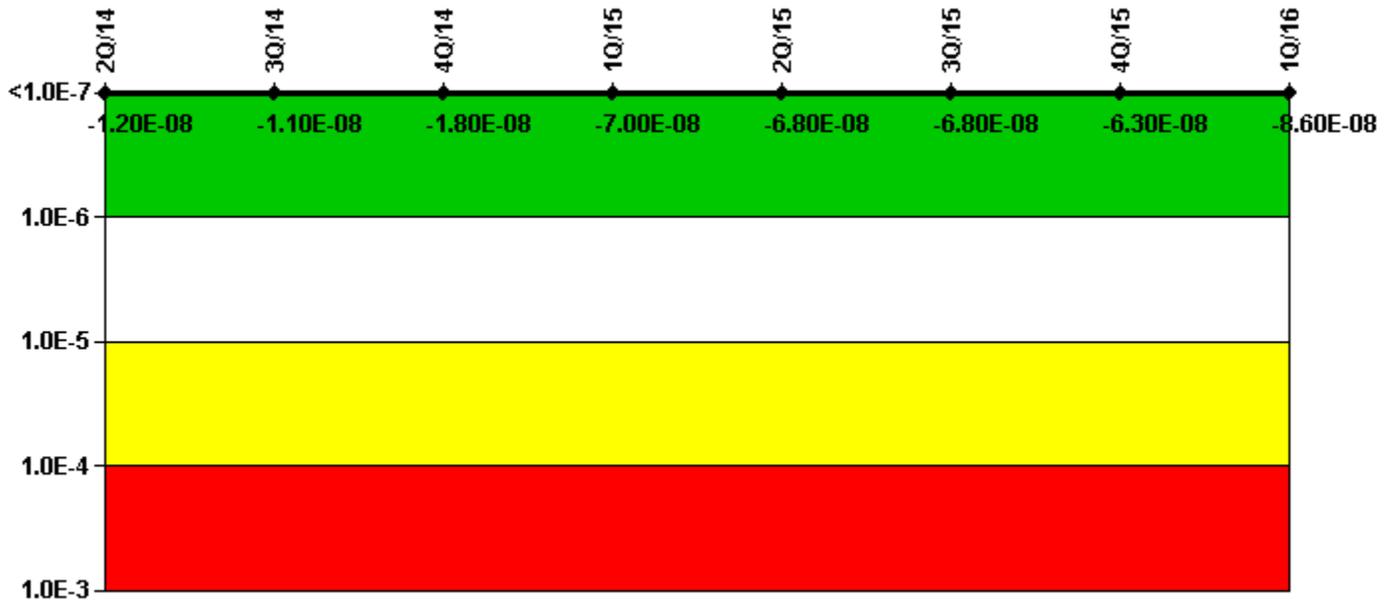
Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	6.56E-08	7.50E-08	1.03E-07	1.03E-07	9.35E-09	-4.43E-08	-4.43E-08	-8.16E-09
URI (Δ CDF)	-7.86E-08	-7.63E-08	-8.30E-08	-8.32E-08	-8.70E-08	-8.28E-08	-7.61E-08	-9.22E-08
PLE	NO							
Indicator value	-1.30E-08	-1.20E-09	2.00E-08	2.00E-08	-7.80E-08	-1.30E-07	-1.20E-07	-1.00E-07

Licensee Comments:

2Q/14: MSPI Basis Document Rev 4: Revise HPCI and RCIC to remove the Pressure Control Mode. Remove 10SOV-101A through D

Mitigating Systems Performance Index, Heat Removal System



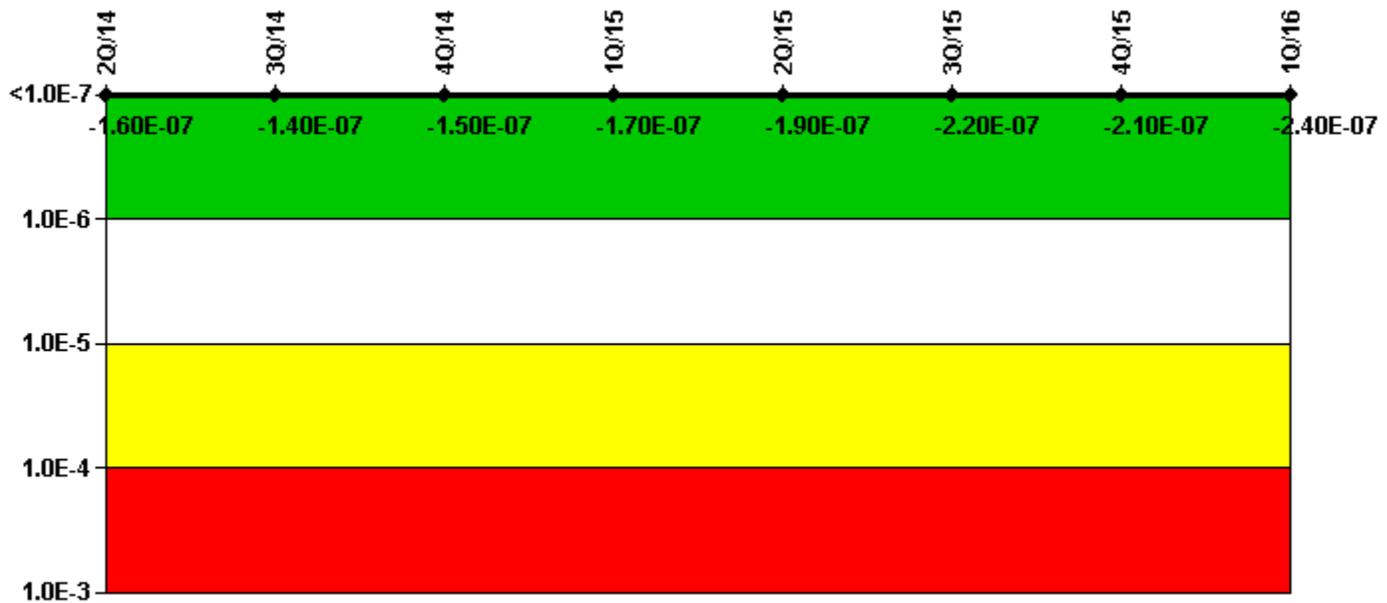
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	4.32E-08	4.16E-08	3.90E-08	-1.27E-08	-1.14E-08	-1.32E-08	-1.53E-08	-2.89E-09
URI (Δ CDF)	-5.48E-08	-5.26E-08	-5.71E-08	-5.70E-08	-5.70E-08	-5.45E-08	-4.74E-08	-8.34E-08
PLE	NO							
Indicator value	-1.20E-08	-1.10E-08	-1.80E-08	-7.00E-08	-6.80E-08	-6.80E-08	-6.30E-08	-8.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



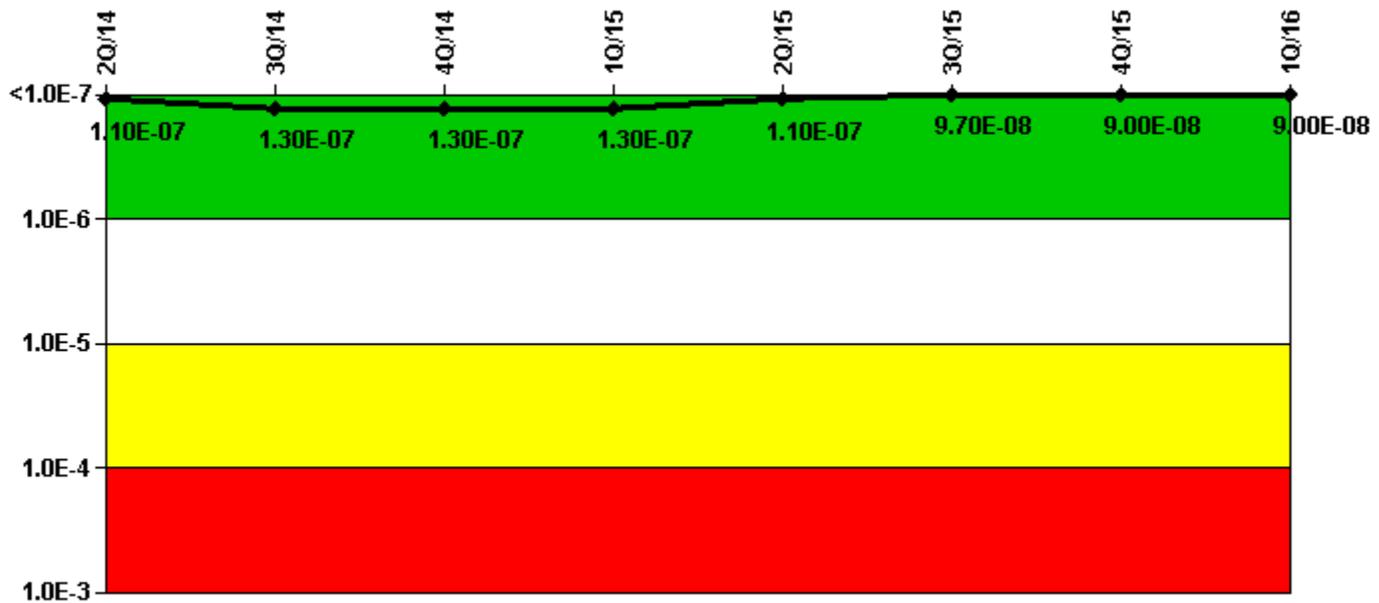
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	9.04E-08	1.17E-07	1.20E-07	8.97E-08	7.15E-08	2.83E-08	1.81E-08	-6.26E-09
URI (Δ CDF)	-2.47E-07	-2.60E-07	-2.65E-07	-2.63E-07	-2.63E-07	-2.50E-07	-2.31E-07	-2.37E-07
PLE	NO							
Indicator value	-1.60E-07	-1.40E-07	-1.50E-07	-1.70E-07	-1.90E-07	-2.20E-07	-2.10E-07	-2.40E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



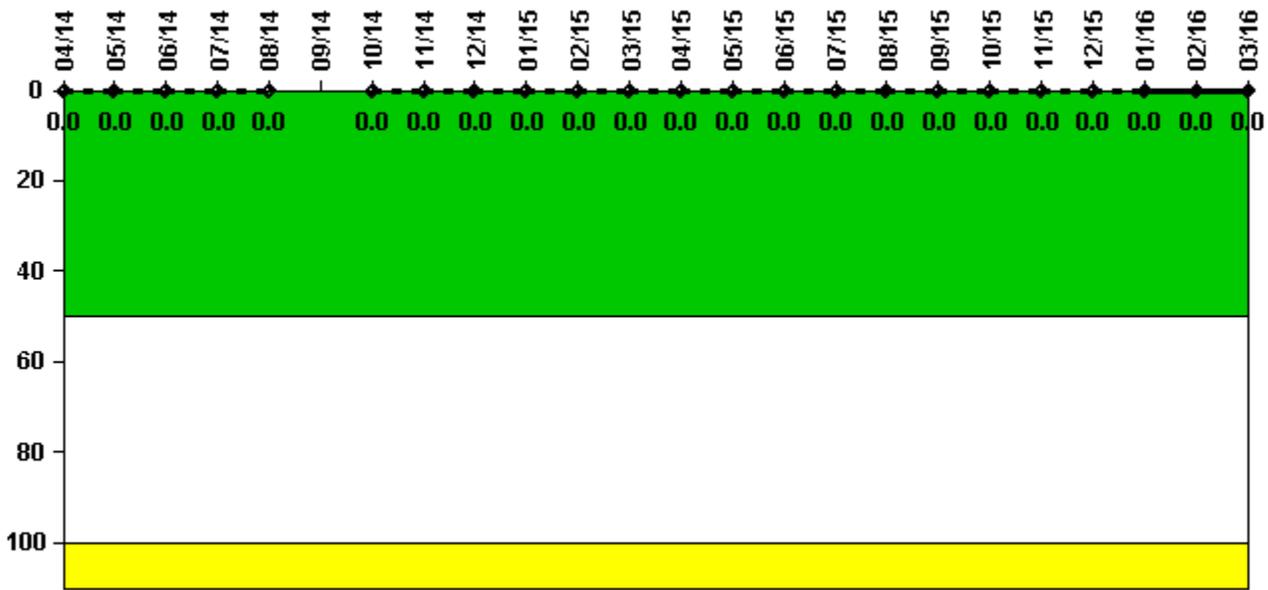
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	1.25E-07	1.38E-07	1.40E-07	1.39E-07	1.20E-07	1.10E-07	1.03E-07	1.02E-07
URI (Δ CDF)	-1.15E-08	-1.22E-08	-1.23E-08	-1.23E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.27E-08
PLE	NO							
Indicator value	1.10E-07	1.30E-07	1.30E-07	1.30E-07	1.10E-07	9.70E-08	9.00E-08	9.00E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

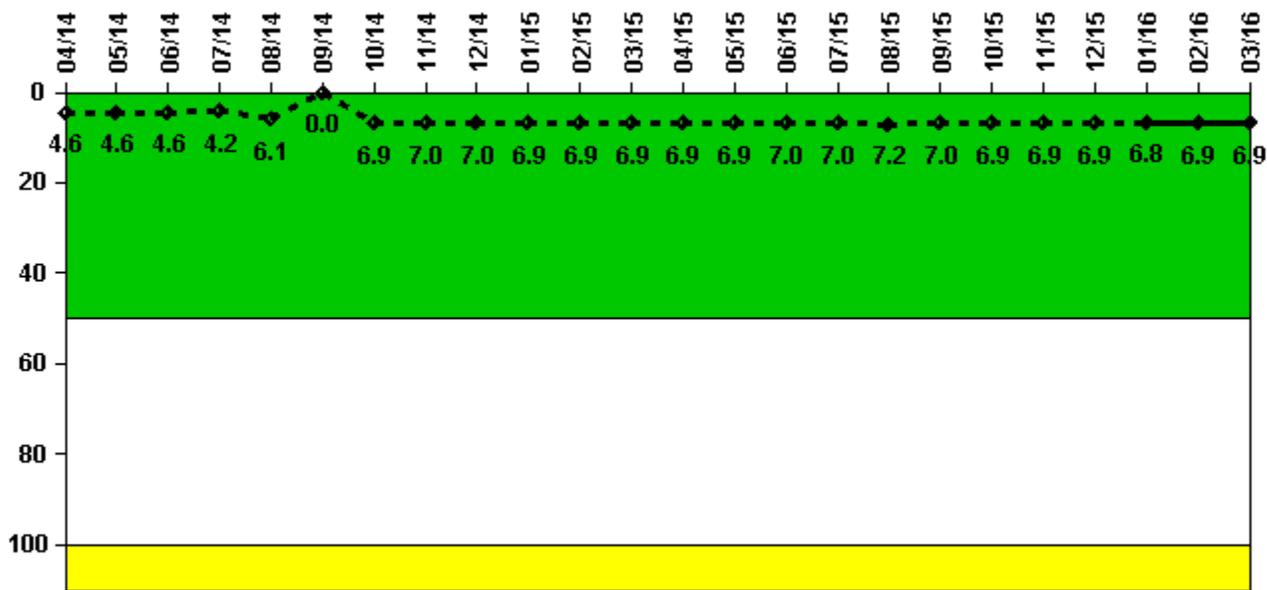
Notes

Reactor Coolant System Activity	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum activity	0.000009	0.000012	0.000006	0.000018	0.000017	N/A	0.000008	0.000008	0.000010	0.000012	0.000009	0.000011
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	N/A	0	0	0	0	0	0

Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	0.000010	0.000008	0.000008	0.000007	0.000008	0.000006	0.000006	0.000007	0.000007	0.000006	0.000019	0.000008
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

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

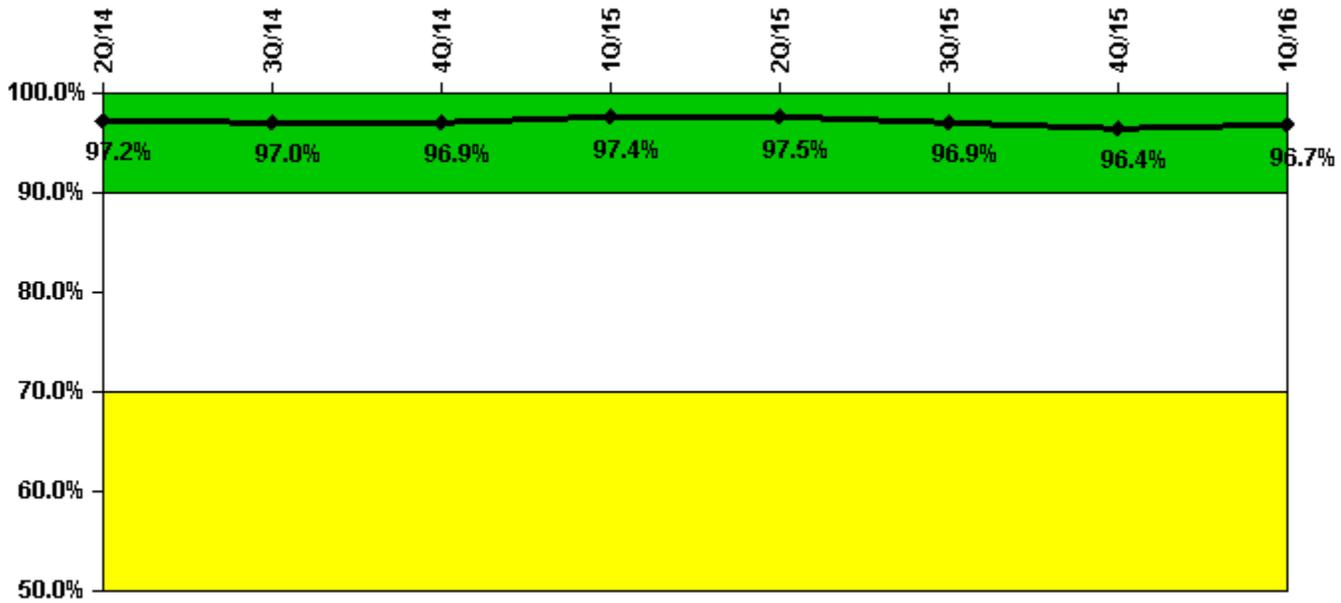
Notes

Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	1.160	1.140	1.150	1.060	1.530	0	1.720	1.740	1.760	1.730	1.730	1.730
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	4.6	4.6	4.6	4.2	6.1	0	6.9	7.0	7.0	6.9	6.9	6.9

Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	1.730	1.730	1.740	1.740	1.790	1.760	1.720	1.720	1.720	1.710	1.730	1.720
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	6.9	6.9	7.0	7.0	7.2	7.0	6.9	6.9	6.9	6.8	6.9	6.9

Licensee Comments: none

Drill/Exercise Performance



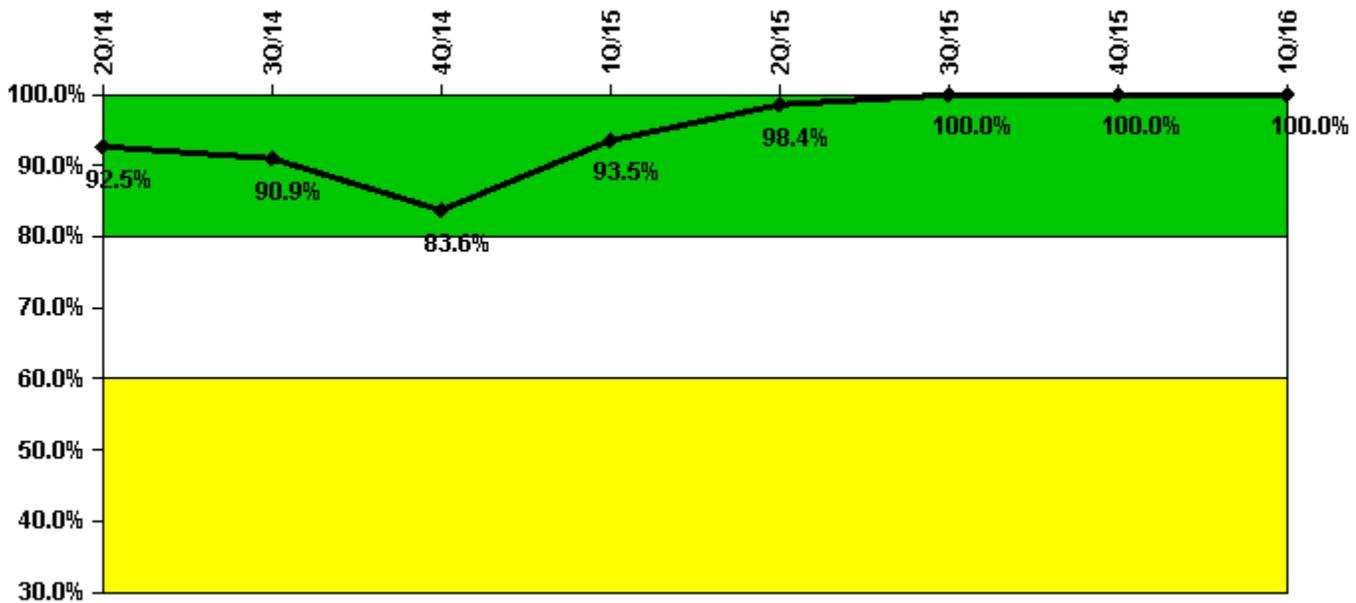
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful opportunities	50.0	0	0	24.0	69.0	16.0	6.0	67.0
Total opportunities	55.0	0	0	24.0	70.0	17.0	6.0	68.0
Indicator value	97.2%	97.0%	96.9%	97.4%	97.5%	96.9%	96.4%	96.7%

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

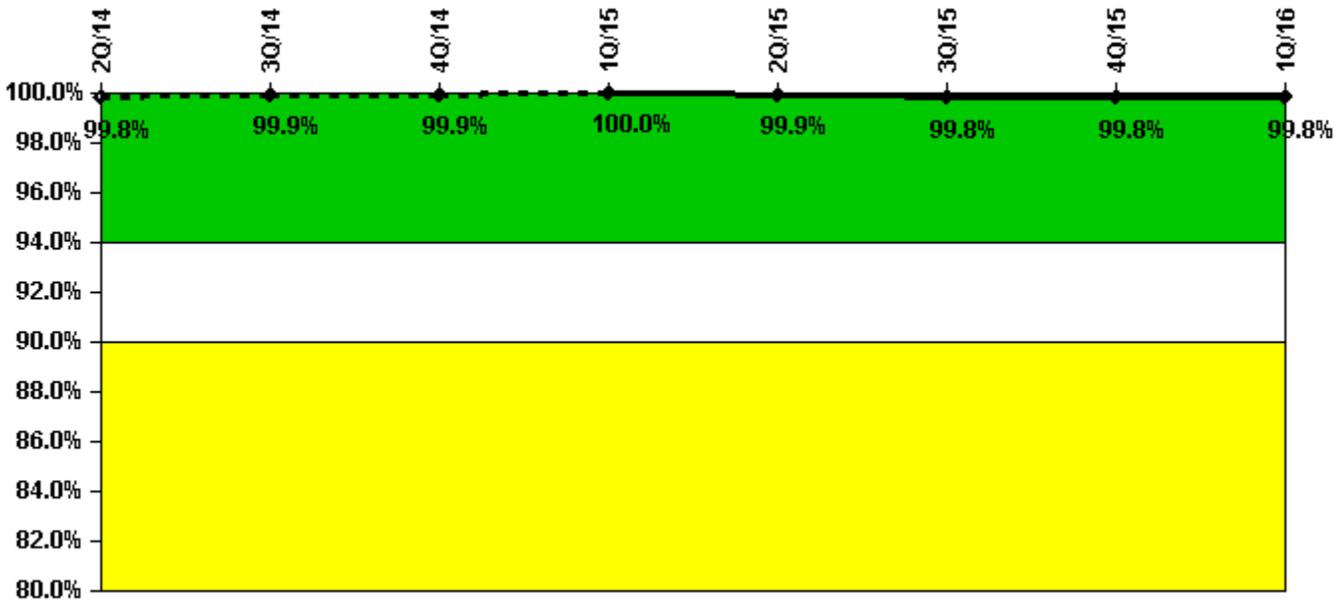
ERO Drill Participation	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Participating Key personnel	62.0	60.0	56.0	58.0	62.0	61.0	65.0	71.0
Total Key personnel	67.0	66.0	67.0	62.0	63.0	61.0	65.0	71.0
Indicator value	92.5%	90.9%	83.6%	93.5%	98.4%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/15: December 2014 data is updated to correct a discrepancy in which an individual should have been counted for 2 separate positions. The change has a minor effect on the indicator value and it does not change the indicator color.

4Q/14: Data is updated to correct a discrepancy in which an individual should have been counted for 2 separate positions. The change has a minor effect on the indicator value and it does not change the indicator color.

Alert & Notification System



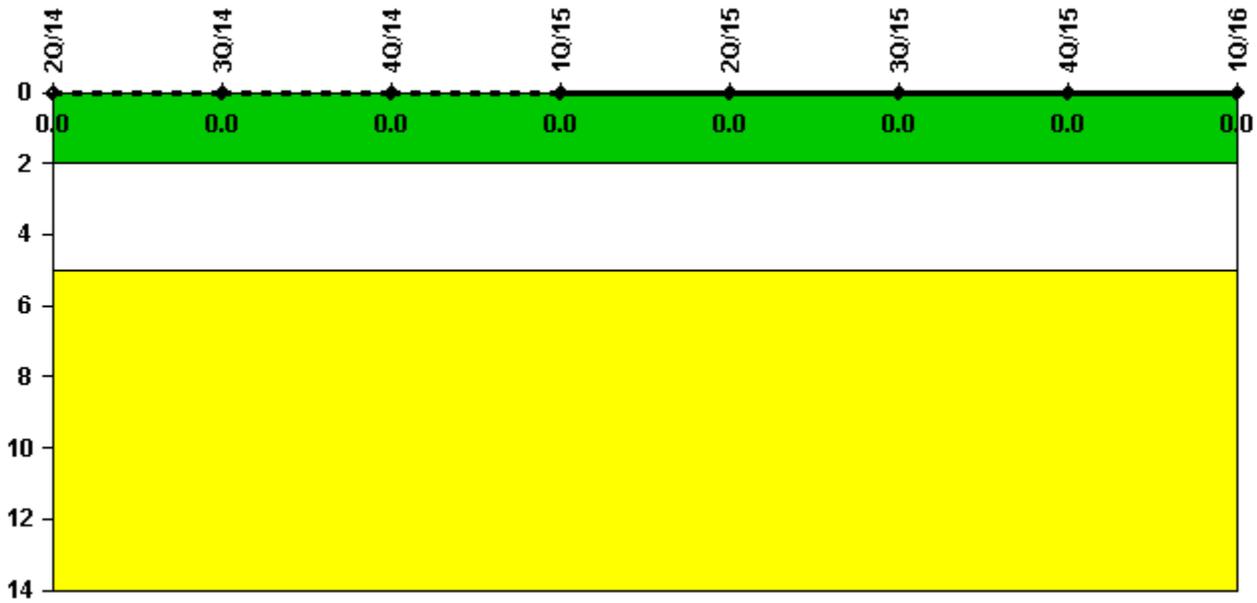
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful siren-tests	296	259	296	259	258	258	296	348
Total sirens-tests	296	259	296	259	259	259	296	348
Indicator value	99.8%	99.9%	99.9%	100.0%	99.9%	99.8%	99.8%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



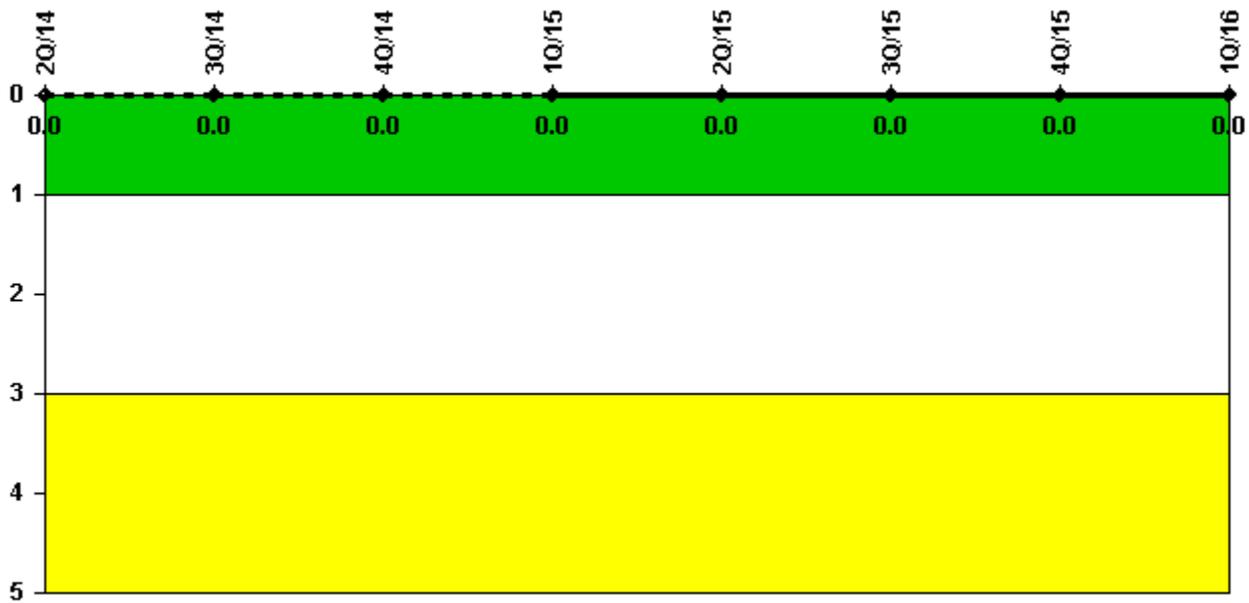
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/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							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/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: April 23, 2016