

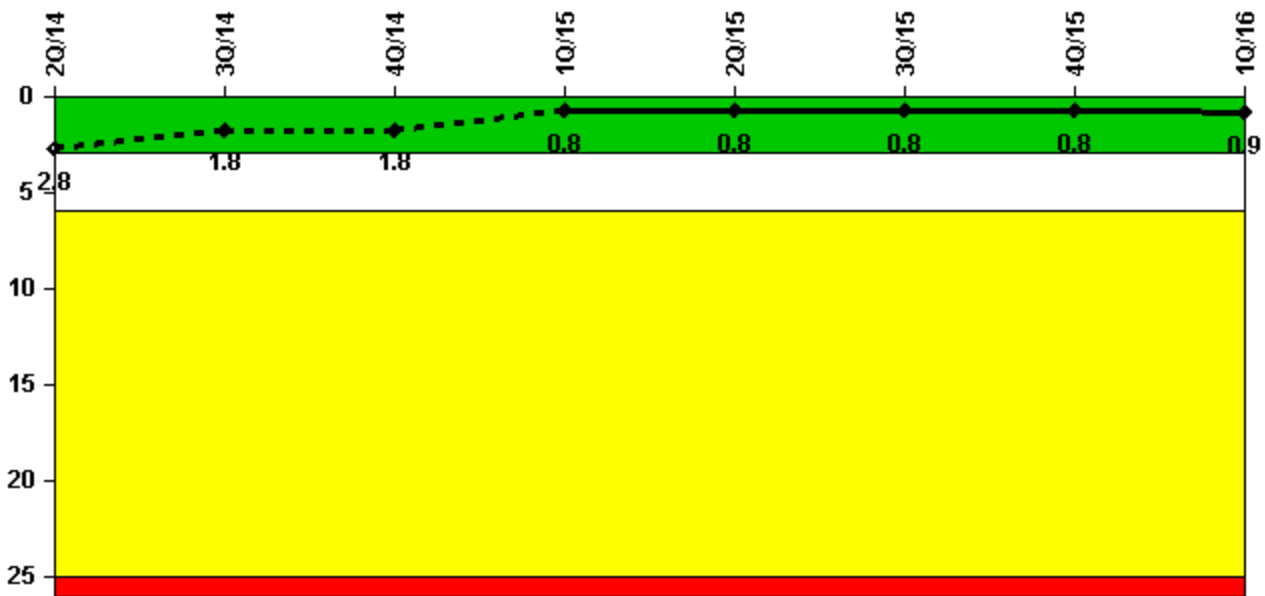
Grand Gulf 1

1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



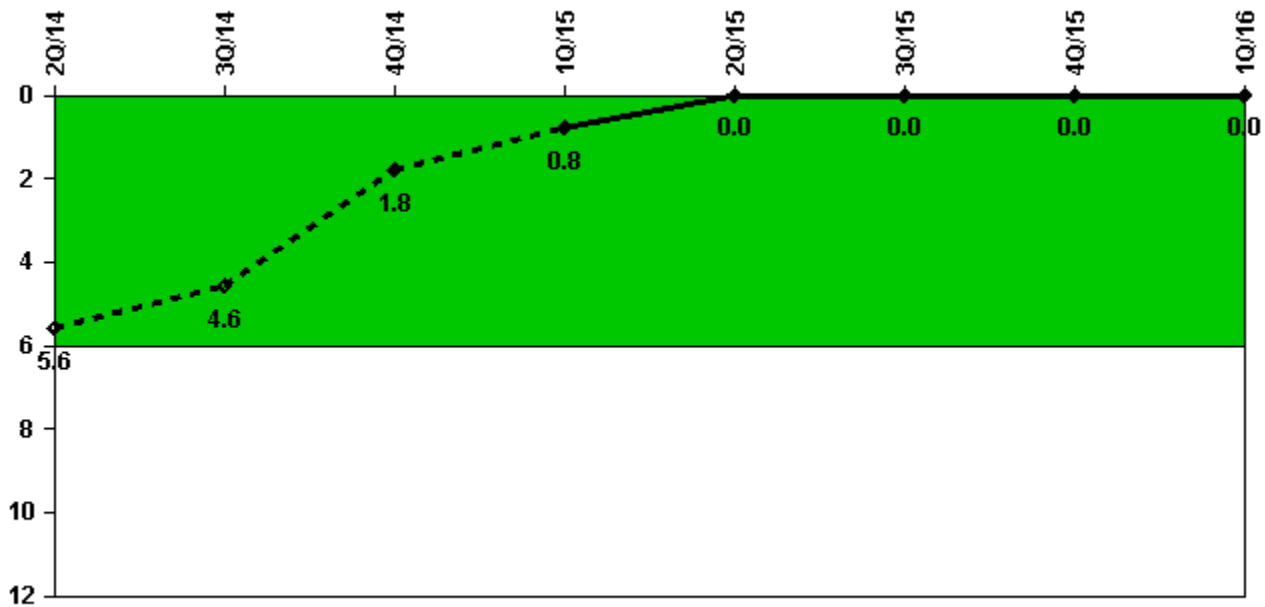
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned scrams	0	0	0	1.0	0	0	0	1.0
Critical hours	2184.0	2208.0	2209.0	2005.0	2184.0	2208.0	2209.0	1315.9
Indicator value	2.8	1.8	1.8	0.8	0.8	0.8	0.8	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

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	1.0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2005.0	2184.0	2208.0	2209.0	1315.9
Indicator value	5.6	4.6	1.8	0.8	0	0	0	0

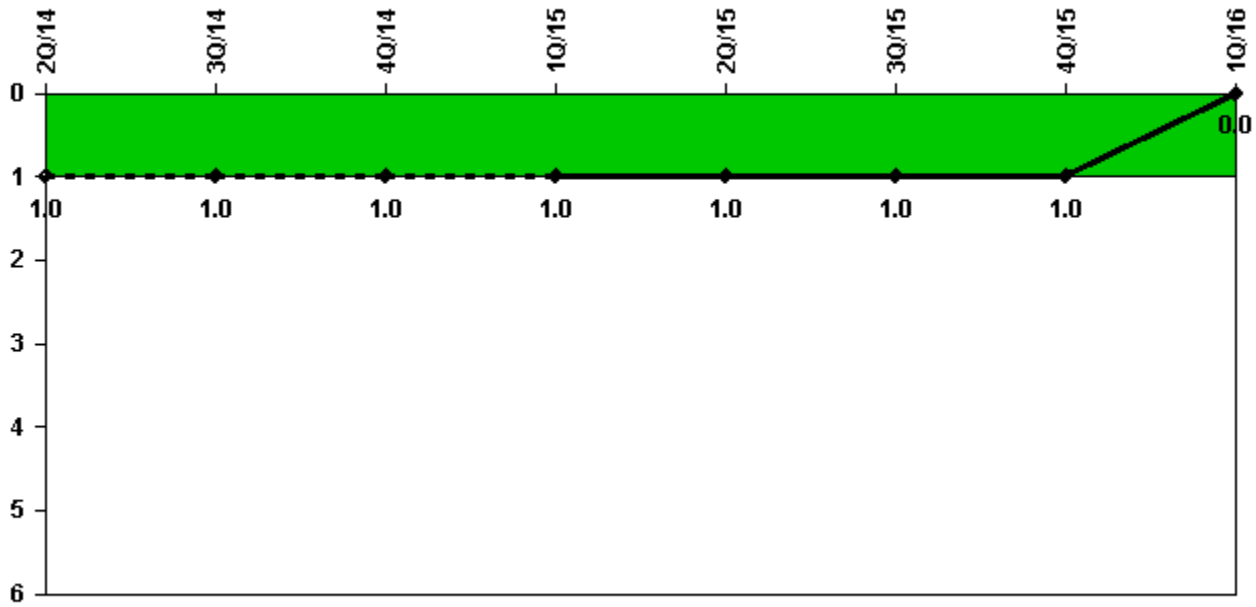
Licensee Comments:

1Q/15: Grand Gulf has added one unplanned power change to 2Q2014. This event was incorrectly counted due to human error and has been added to the corrective action program.

4Q/14: Plant power was reduced by greater than 20% on November 23, 2014 at the direction of the grid dispatcher due to grid instability. This down power was outside of management control.

2Q/14: Grand Gulf added one unplanned power change to 2Q2014. This event was excluded in error and has been entered into the corrective action program.

Unplanned Scrams with Complications



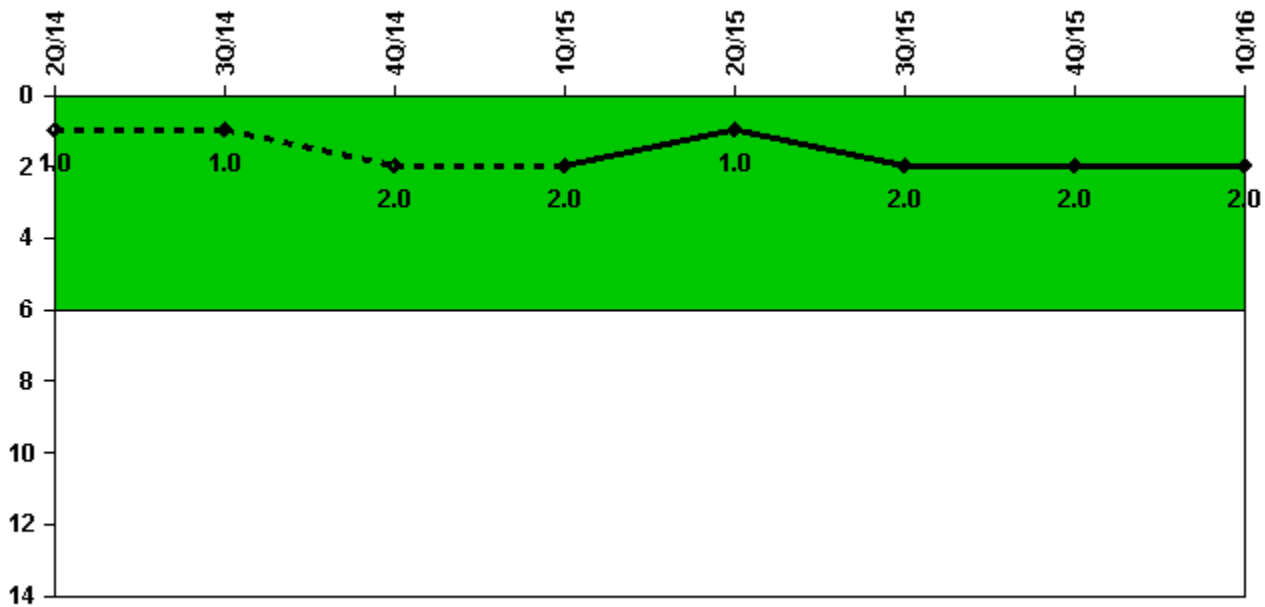
Thresholds: White > 1.0

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	1.0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0

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	1	0	0	1	1	0
Indicator value	1	1	2	2	1	2	2	2

Licensee Comments:

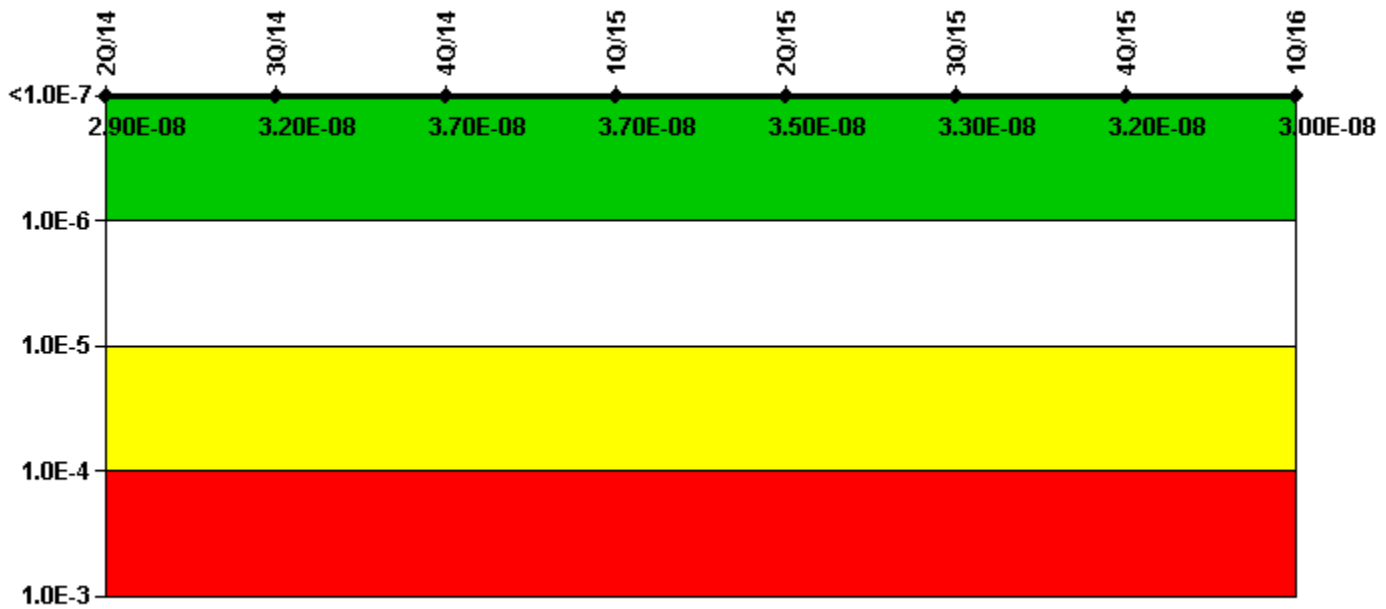
4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q14 and one in 4Q14

3Q/15: LER 2015-002-00 Documents one safety system functional failure in August 2015.

4Q/14: LER 2015-002-00 Documents one safety system functional failure in October 2014.

2Q/14: LER 2015-002-00 Documents one safety system functional failure in June 2014.

Mitigating Systems Performance Index, Emergency AC Power System



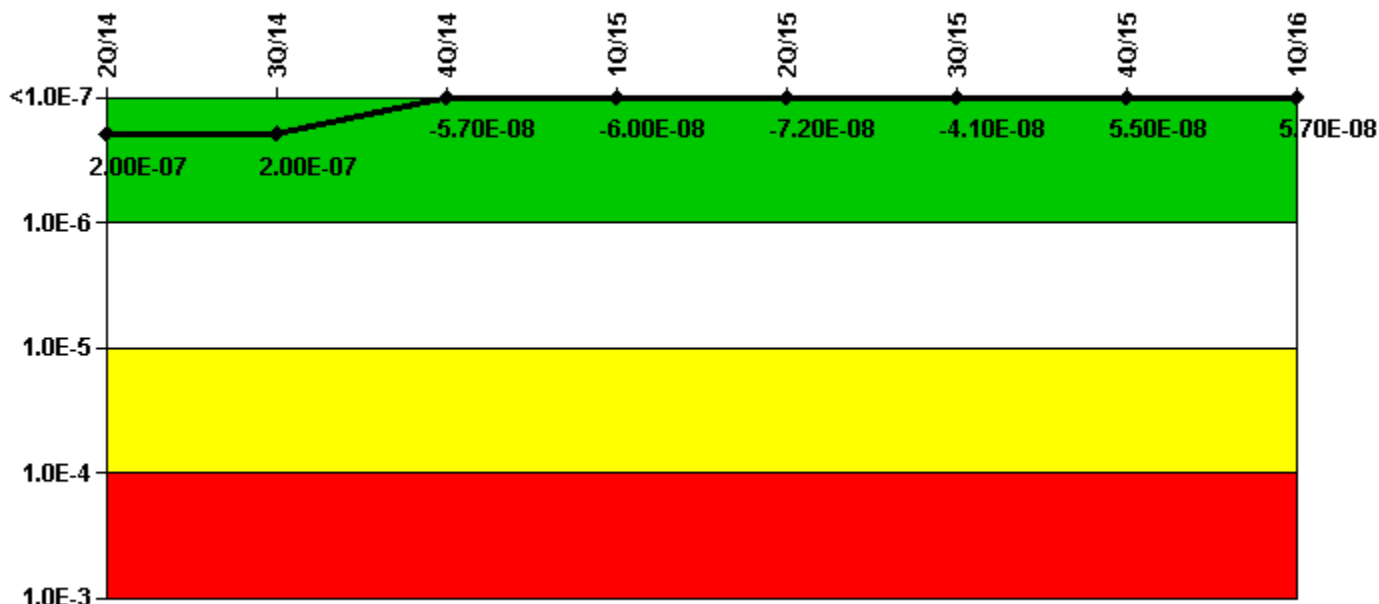
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.12E-08	1.42E-08	1.90E-08	1.61E-08	1.41E-08	1.33E-08	1.31E-08	1.44E-08
URI (Δ CDF)	1.81E-08	1.74E-08	1.78E-08	2.13E-08	2.07E-08	1.94E-08	1.87E-08	1.61E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.90E-08	3.20E-08	3.70E-08	3.70E-08	3.50E-08	3.30E-08	3.20E-08	3.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



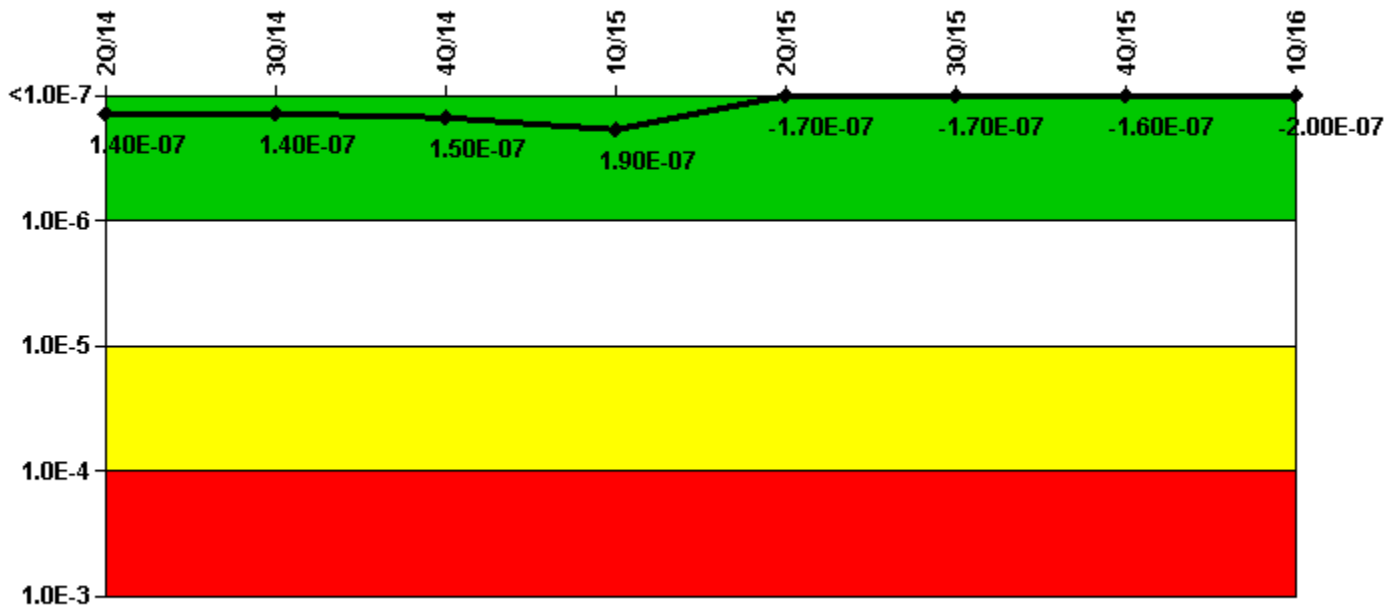
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (ΔCDF)	2.85E-07	2.85E-07	2.16E-08	1.80E-08	3.12E-08	3.69E-08	1.36E-07	1.33E-07
URI (ΔCDF)	-8.76E-08	-8.56E-08	-7.83E-08	-7.75E-08	-1.03E-07	-7.84E-08	-8.09E-08	-7.69E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-07	2.00E-07	-5.70E-08	-6.00E-08	-7.20E-08	-4.10E-08	5.50E-08	5.70E-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	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (ΔCDF)	7.21E-09	7.21E-09	2.43E-08	5.30E-08	2.80E-08	2.80E-08	2.73E-08	-1.47E-08
URI (ΔCDF)	1.28E-07	1.28E-07	1.28E-07	1.35E-07	-1.99E-07	-1.96E-07	-1.90E-07	-1.85E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.40E-07	1.40E-07	1.50E-07	1.90E-07	-1.70E-07	-1.70E-07	-1.60E-07	-2.00E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



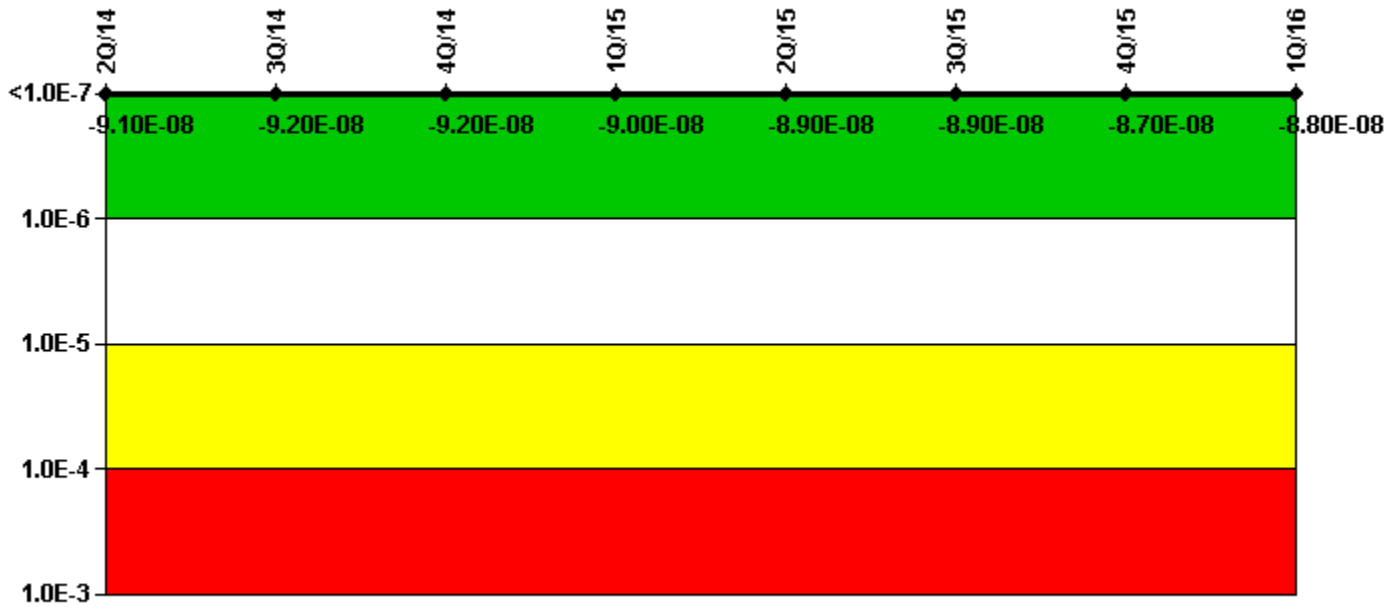
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	-8.56E-09	-3.39E-09	-6.21E-09	-7.80E-09	-8.56E-09	-7.32E-09	-8.56E-09	-8.56E-09
URI (Δ CDF)	-2.51E-08	-2.62E-08	-2.67E-08	-2.56E-08	-2.41E-08	-2.44E-08	-2.42E-08	-2.57E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.40E-08	-3.00E-08	-3.30E-08	-3.30E-08	-3.30E-08	-3.20E-08	-3.30E-08	-3.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



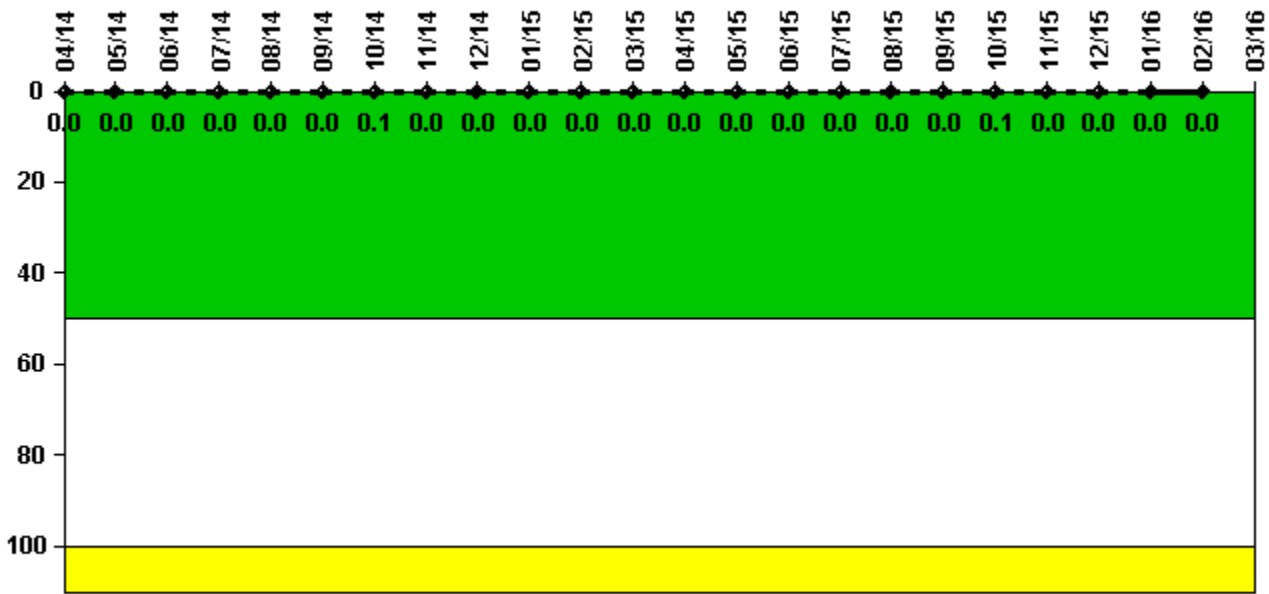
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI (Δ CDF)	-8.97E-08	-9.03E-08	-9.01E-08	-8.87E-08	-8.77E-08	-8.70E-08	-8.54E-08	-8.68E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.10E-08	-9.20E-08	-9.20E-08	-9.00E-08	-8.90E-08	-8.90E-08	-8.70E-08	-8.80E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

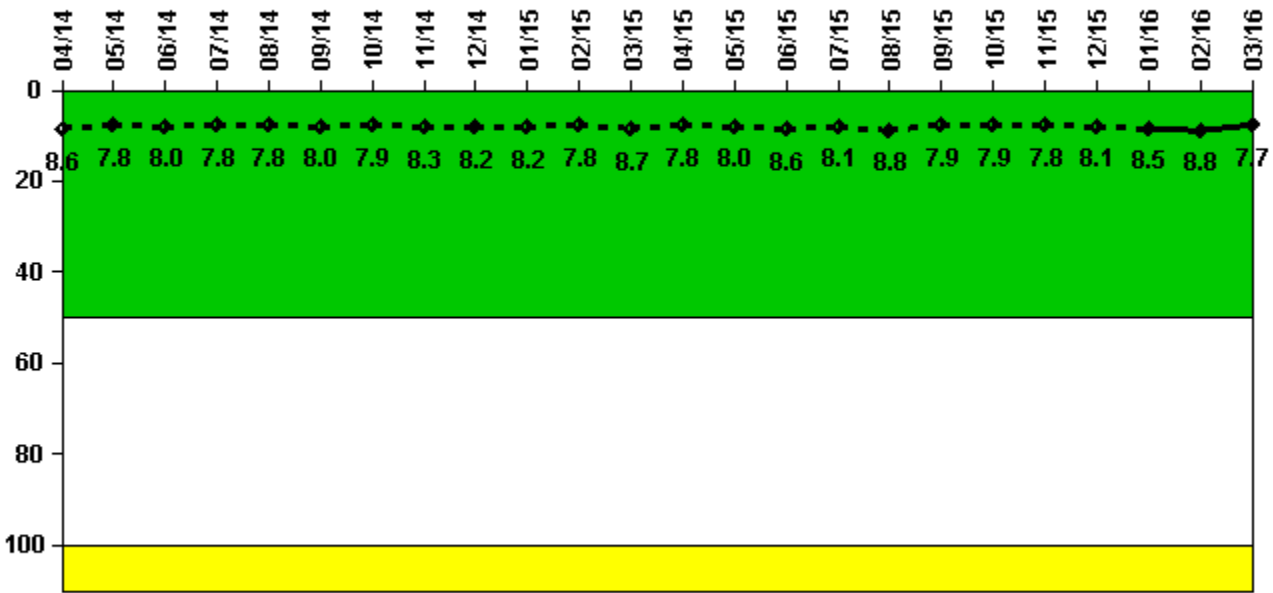
Reactor Coolant System Activity	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum activity	0.000070	0.000044	0.000034	0.000043	0.000065	0.000069	0.000107	0.000063	0.000038	0.000021	0.000008	0.000093
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0.1	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	0.000036	0.000037	0.000039	0.000063	0.000079	0.000092	0.000116	0.000033	0.000053	0.000069	0.000053	N/A
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	0.1	0	0	0	0	N/A

Licensee Comments:

3/16: For March 2016 the unit did not obtain a stable state power condition

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

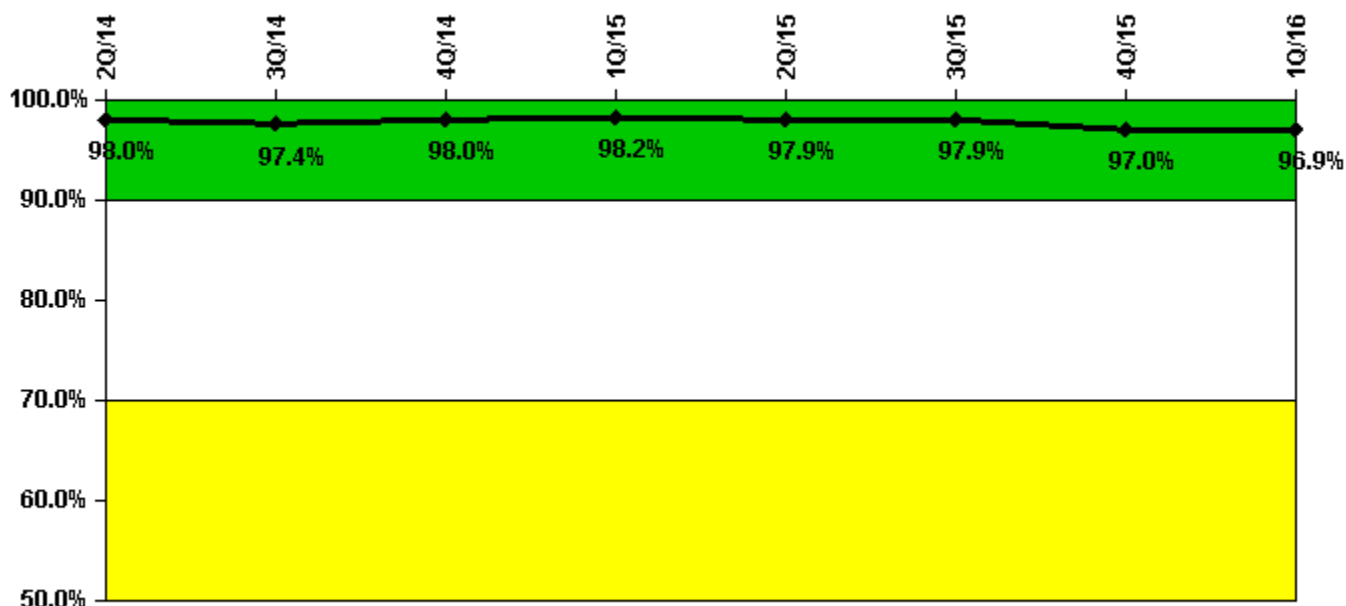
Notes

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	2.570	2.350	2.410	2.340	2.350	2.410	2.370	2.480	2.450	2.460	2.330	2.600
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.6	7.8	8.0	7.8	7.8	8.0	7.9	8.3	8.2	8.2	7.8	8.7

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	2.350	2.400	2.580	2.440	2.630	2.370	2.370	2.350	2.430	2.540	2.630	2.300
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.8	8.0	8.6	8.1	8.8	7.9	7.9	7.8	8.1	8.5	8.8	7.7

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

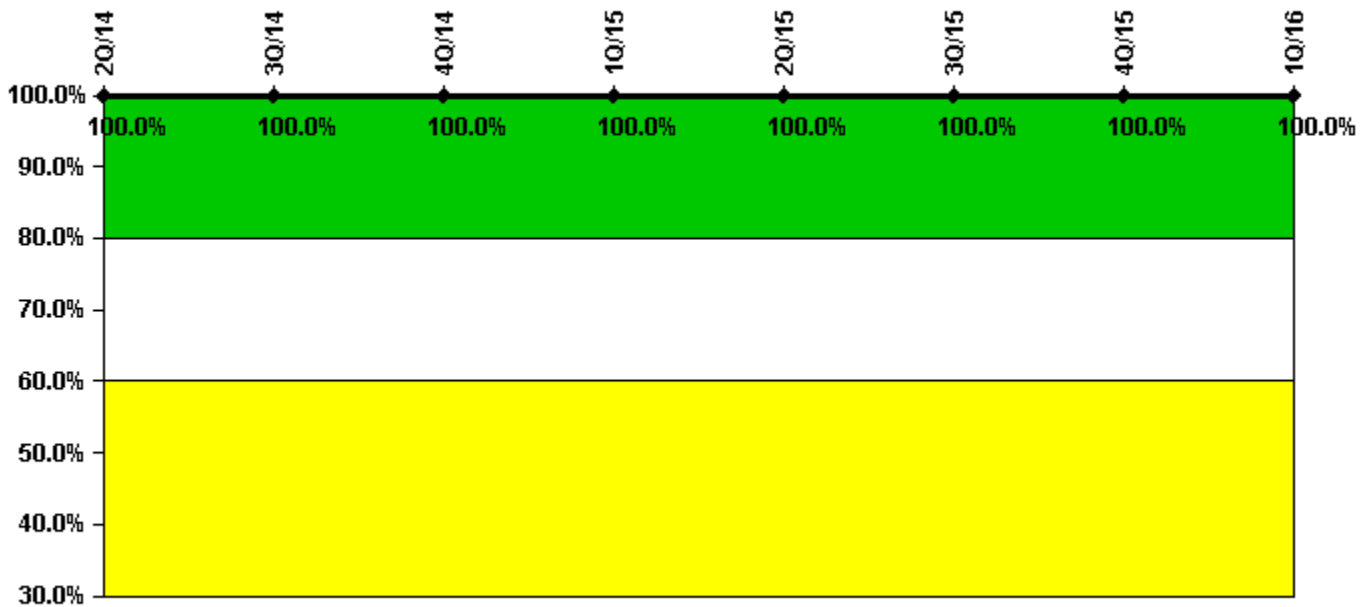
Drill/Exercise Performance	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful opportunities	24.0	51.0	50.0	25.0	31.0	17.0	51.0	0
Total opportunities	24.0	54.0	50.0	26.0	33.0	17.0	53.0	0
Indicator value	98.0%	97.4%	98.0%	98.2%	97.9%	97.9%	97.0%	96.9%

Licensee Comments:

1Q/15: Performed data update for the data reported in January 2015 (RAM 7-3-15)

3Q/14: Performed update to the data reported in August 2014 (RAM 7-3-2015)

ERO Drill Participation



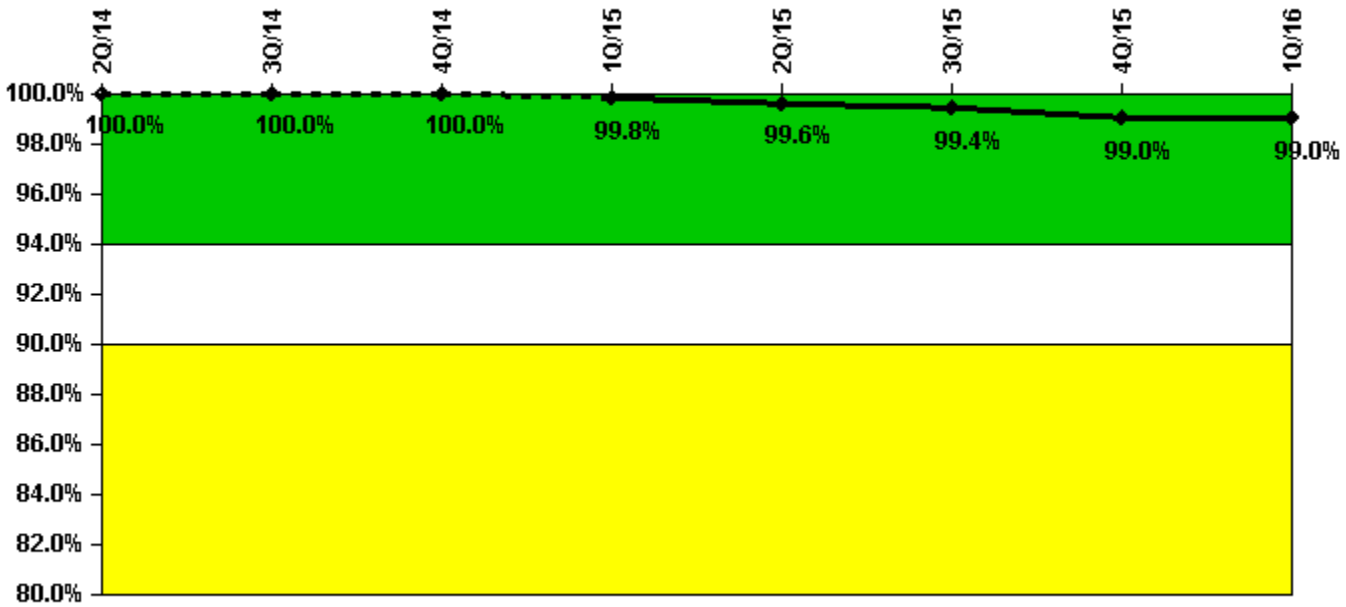
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Participating Key personnel	71.0	63.0	64.0	62.0	65.0	64.0	66.0	64.0
Total Key personnel	71.0	63.0	64.0	62.0	65.0	64.0	66.0	64.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



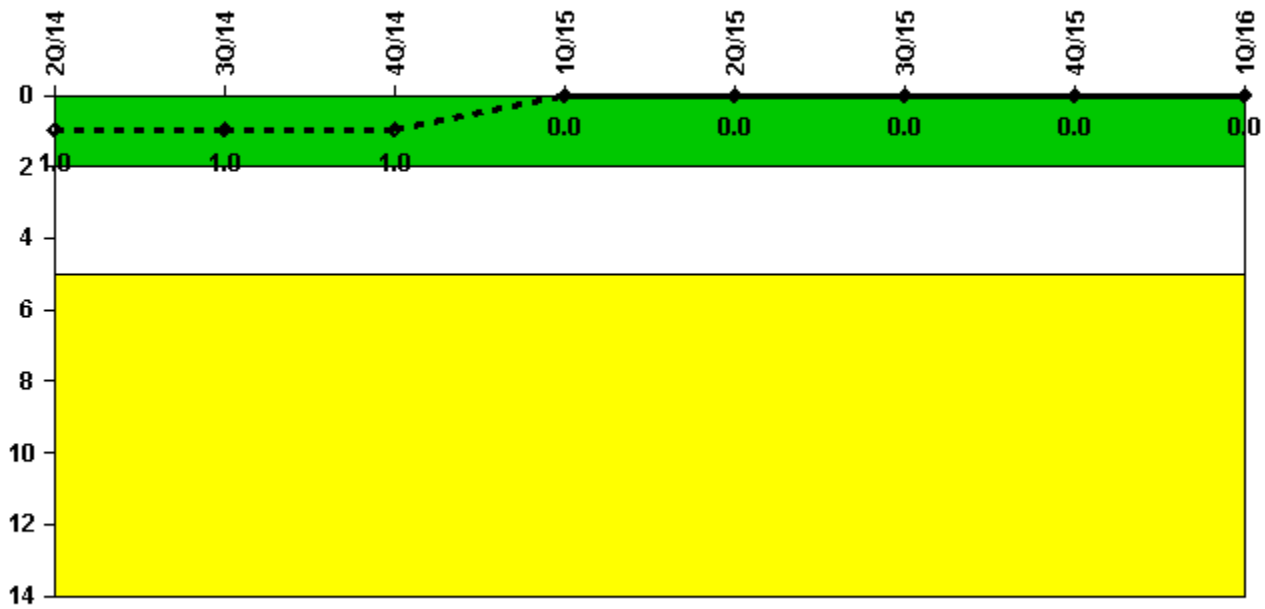
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful siren-tests	129	129	129	128	126	126	127	127
Total sirens-tests	129	129	129	129	127	127	129	128
Indicator value	100.0%	100.0%	100.0%	99.8%	99.6%	99.4%	99.0%	99.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



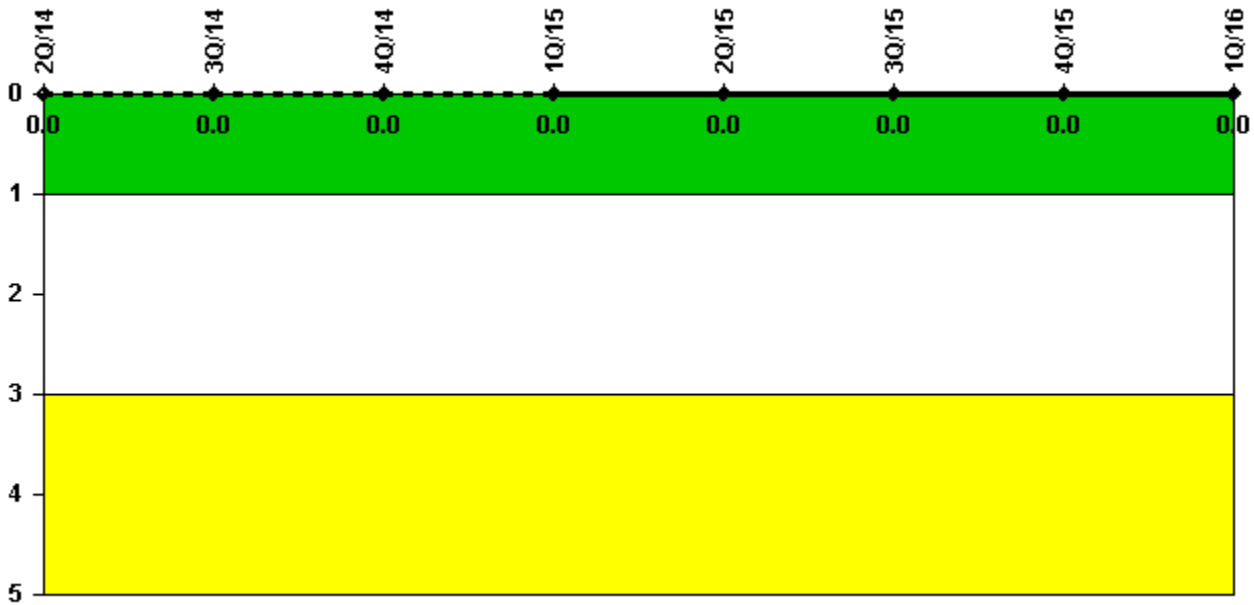
Thresholds: White > 2.0 Yellow > 5.0

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	1	1	1	0	0	0	0	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