

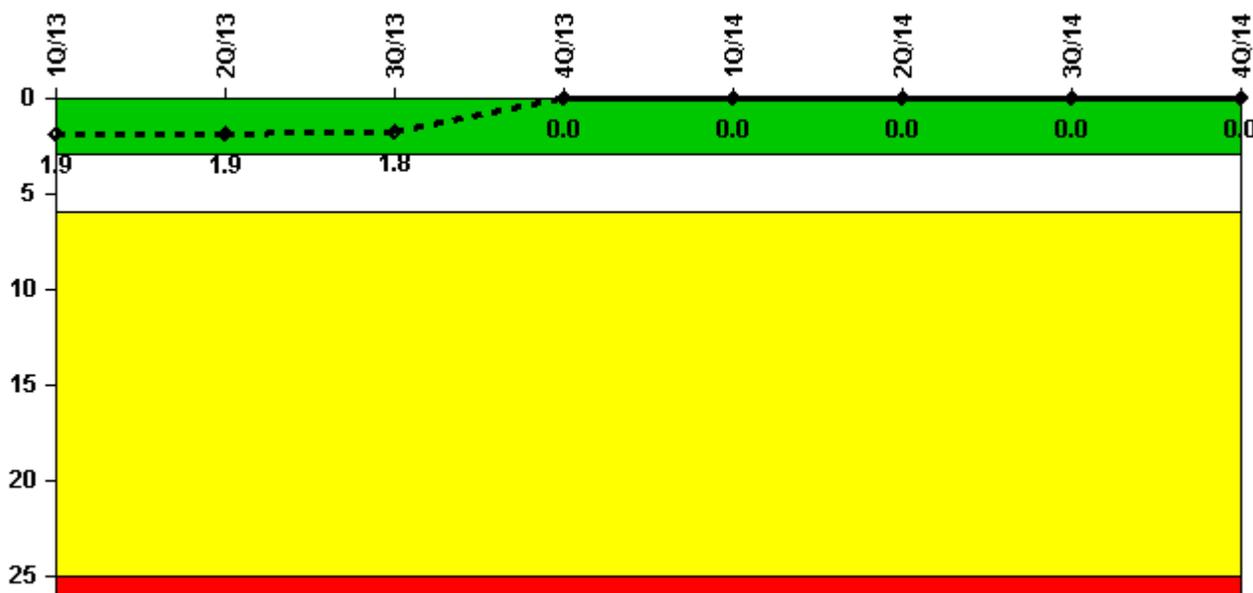
FitzPatrick

4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: IDS Normalization Factor was changed from 1.65 to 1.30 because the number of intrusion detection system (IDS) zones was adjusted to meet a different interpretation. This change was applied to first quarter 2014 through fourth quarter 2014. This change resulted in a minor shift of the PI downward but it continues to remain Green.

Unplanned Scrams per 7000 Critical Hrs



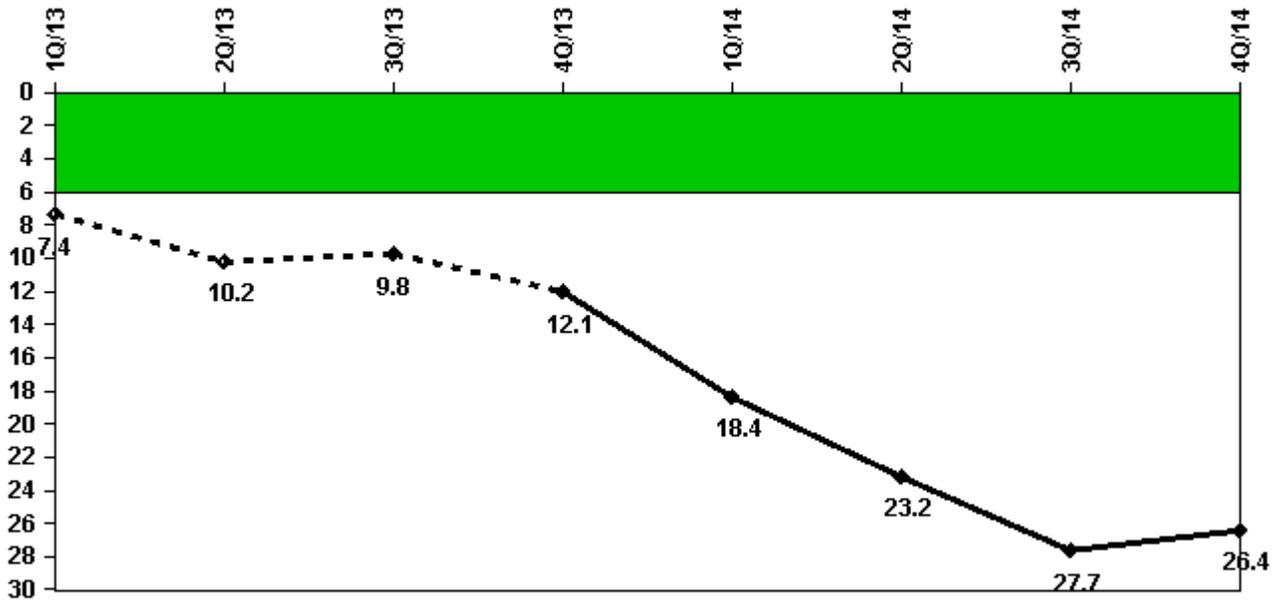
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2062.0	2184.0	2208.0	2209.0	2159.0	2155.7	1318.0	2060.1
Indicator value	1.9	1.9	1.8	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	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	3.0	4.0	2.0	6.0	11.0	10.0	4.0	4.0
Critical hours	2062.0	2184.0	2208.0	2209.0	2159.0	2155.7	1318.0	2060.1
Indicator value	7.4	10.2	9.8	12.1	18.4	23.2	27.7	26.4

Licensee Comments:

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.

1Q/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.

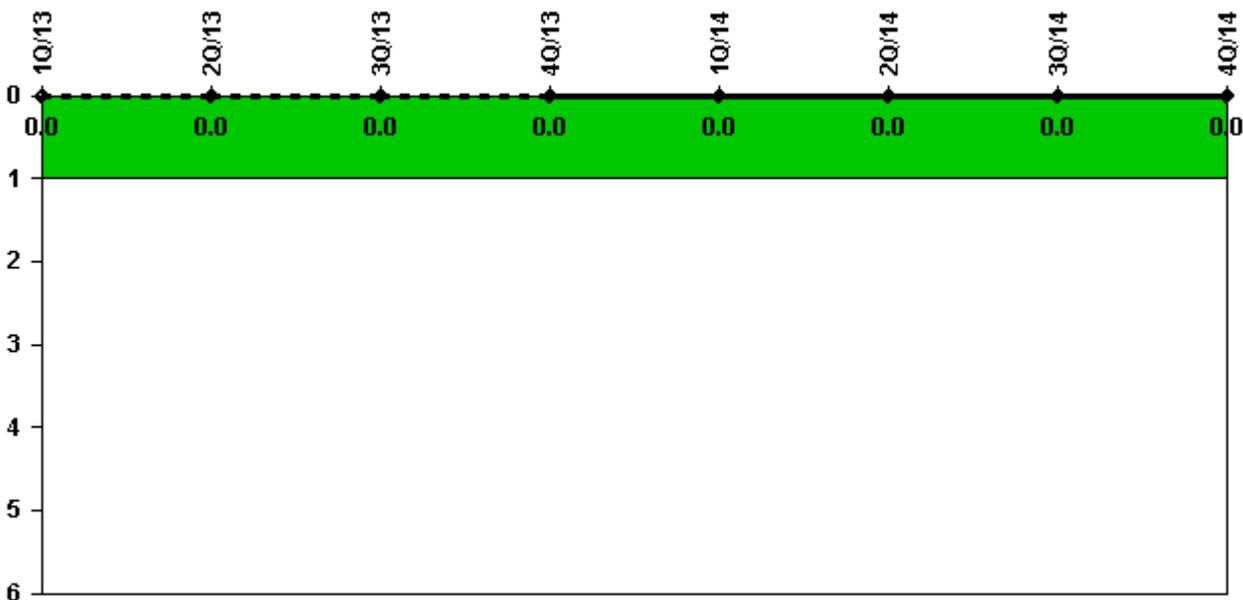
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Unplanned Scrams with Complications



Thresholds: White > 1.0

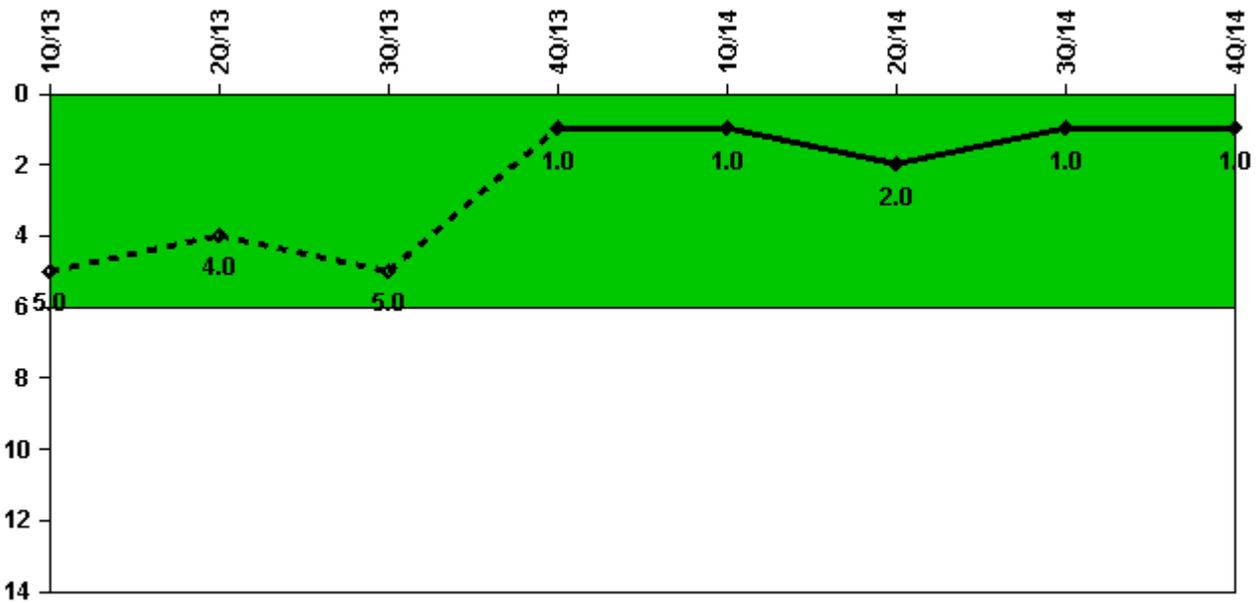
Notes

Unplanned Scrams with Complications	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14

Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (BWR)



Thresholds: White > 6.0

Notes

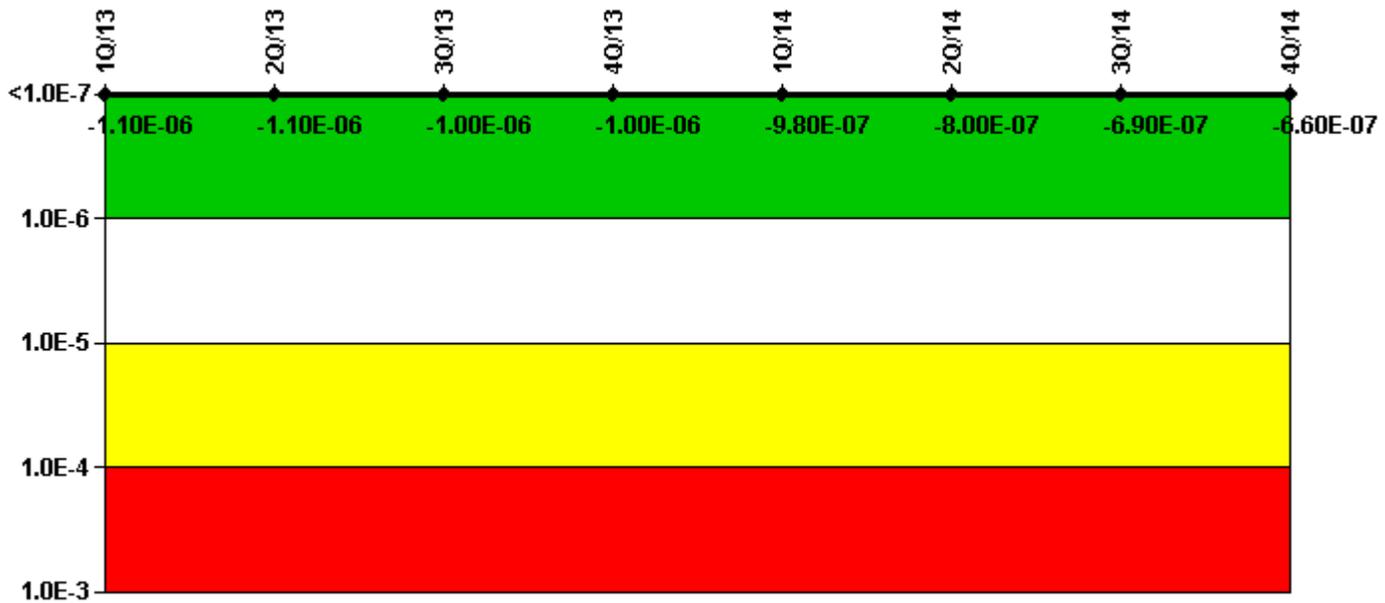
Safety System Functional Failures (BWR)	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Safety System Functional Failures	0	0	1	0	0	1	0	0
Indicator value	5	4	5	1	1	2	1	1

Licensee Comments:

2Q/14: LER-14-001

3Q/13: LER-12-010

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	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	9.99E-10	6.30E-09	7.40E-09	9.66E-09	9.53E-09	7.89E-09	8.30E-09	5.04E-09
URI (Δ CDF)	-1.12E-06	-1.13E-06	-1.04E-06	-1.01E-06	-9.94E-07	-8.13E-07	-7.03E-07	-6.64E-07
PLE	NO							
Indicator value	-1.10E-06	-1.10E-06	-1.00E-06	-1.00E-06	-9.80E-07	-8.00E-07	-6.90E-07	-6.60E-07

Licensee Comments:

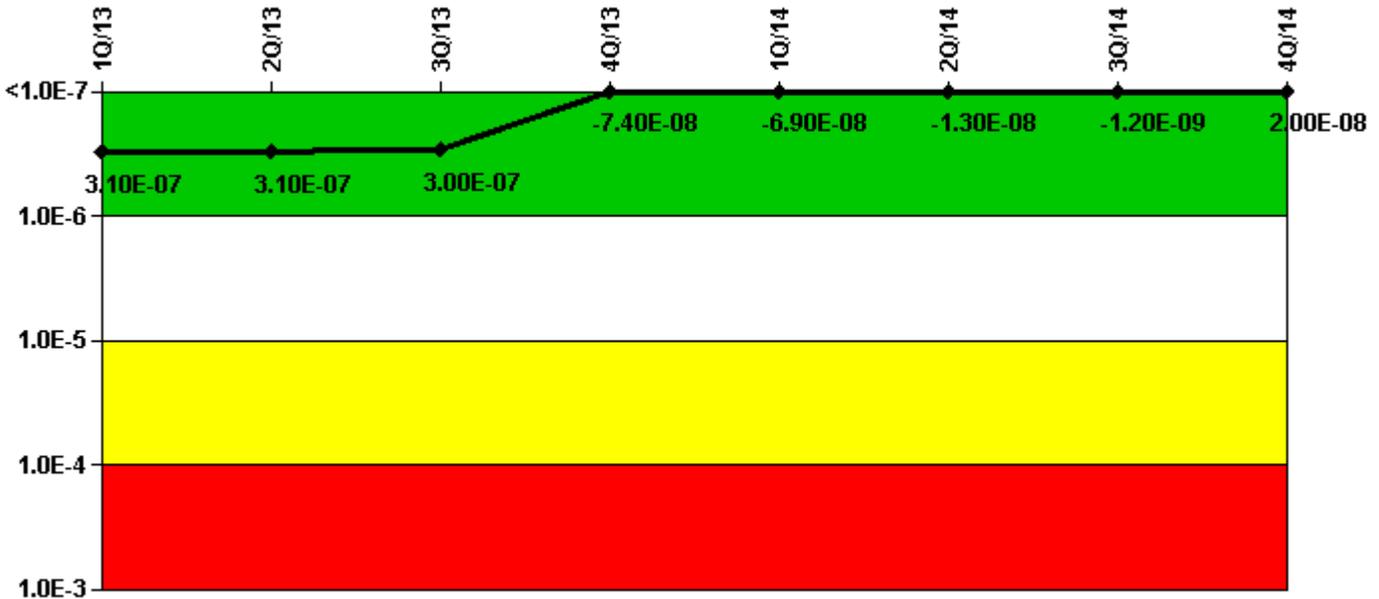
4Q/13: Change report submitted to make minor changes in the 3rd quarter 2013 to 4th quarter 2012. The Indicator color significance remains Green with the change.

3Q/13: A change report submitted with 4th quarter 2013 data made a minor change in the 4th quarter 2012 EDG MSPI PI. This had an effect through 2013. The Indicator color significance remains Green with the change.

2Q/13: A change report submitted with 4th quarter 2013 data made a minor change in the 4th quarter 2012 EDG MSPI PI. This had an effect through 2013. The Indicator color significance remains Green with the change.

1Q/13: A change report submitted with 4th quarter 2013 data made a minor change in the 4th quarter 2012 EDG MSPI PI. This had an effect through 2013. The Indicator color significance remains Green with the change.

Mitigating Systems Performance Index, High Pressure Injection System



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

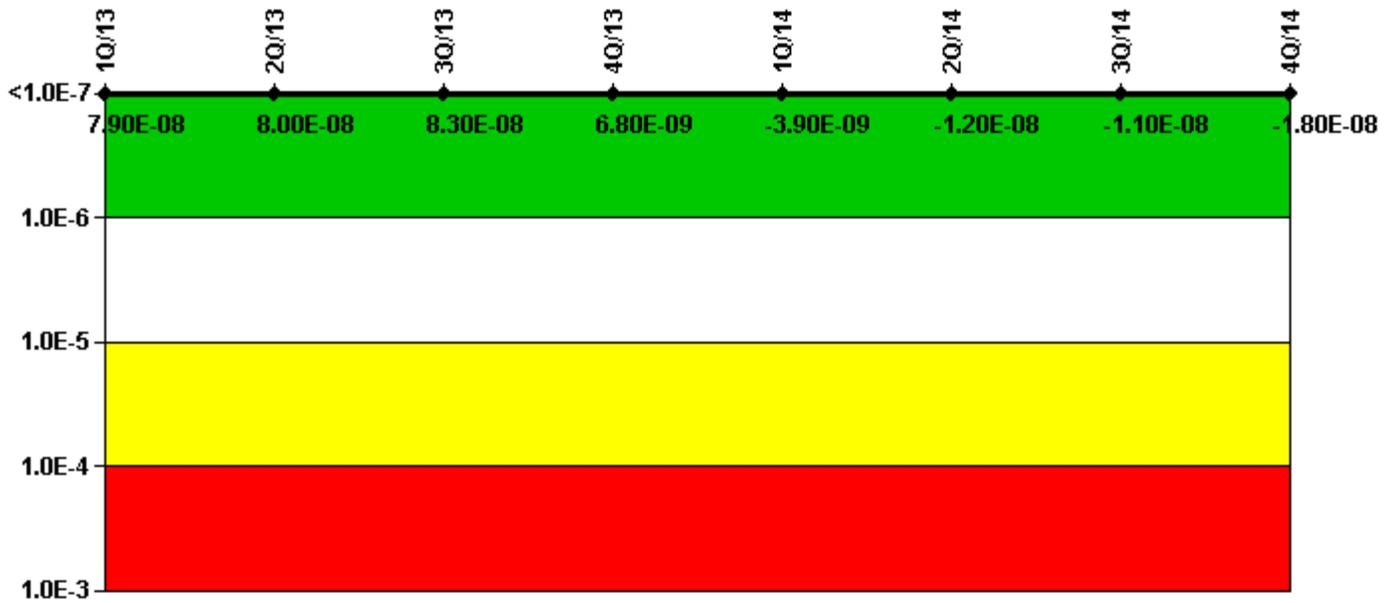
Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (ΔCDF)	1.98E-08	1.38E-08	1.21E-08	7.02E-09	7.02E-09	6.56E-08	7.50E-08	1.03E-07
URI (ΔCDF)	2.93E-07	2.93E-07	2.87E-07	-8.08E-08	-7.62E-08	-7.86E-08	-7.63E-08	-8.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.10E-07	3.10E-07	3.00E-07	-7.40E-08	-6.90E-08	-1.30E-08	-1.20E-09	2.00E-08

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



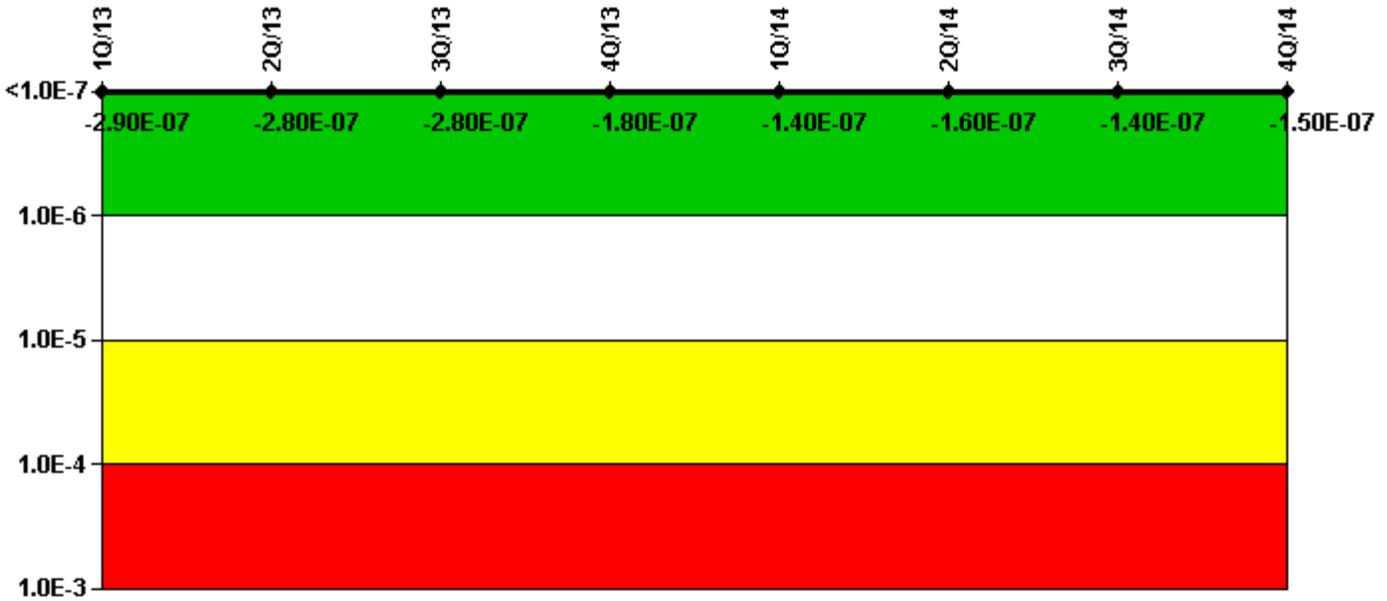
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	5.42E-08	5.47E-08	5.23E-08	1.78E-08	5.09E-08	4.32E-08	4.16E-08	3.90E-08
URI (Δ CDF)	2.50E-08	2.50E-08	3.06E-08	-1.10E-08	-5.48E-08	-5.48E-08	-5.26E-08	-5.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.90E-08	8.00E-08	8.30E-08	6.80E-09	-3.90E-09	-1.20E-08	-1.10E-08	-1.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



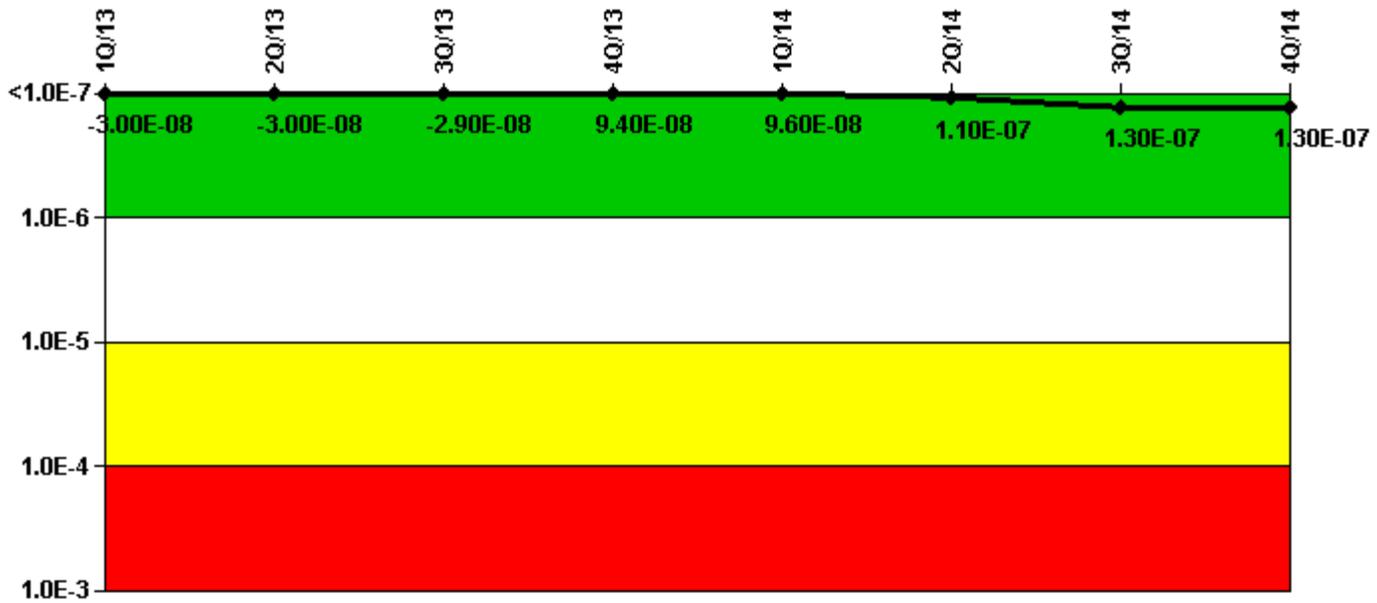
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-1.40E-08	-1.34E-08	-2.37E-08	5.90E-08	1.00E-07	9.04E-08	1.17E-07	1.20E-07
URI (Δ CDF)	-2.74E-07	-2.69E-07	-2.53E-07	-2.41E-07	-2.44E-07	-2.47E-07	-2.60E-07	-2.65E-07
PLE	NO							
Indicator value	-2.90E-07	-2.80E-07	-2.80E-07	-1.80E-07	-1.40E-07	-1.60E-07	-1.40E-07	-1.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



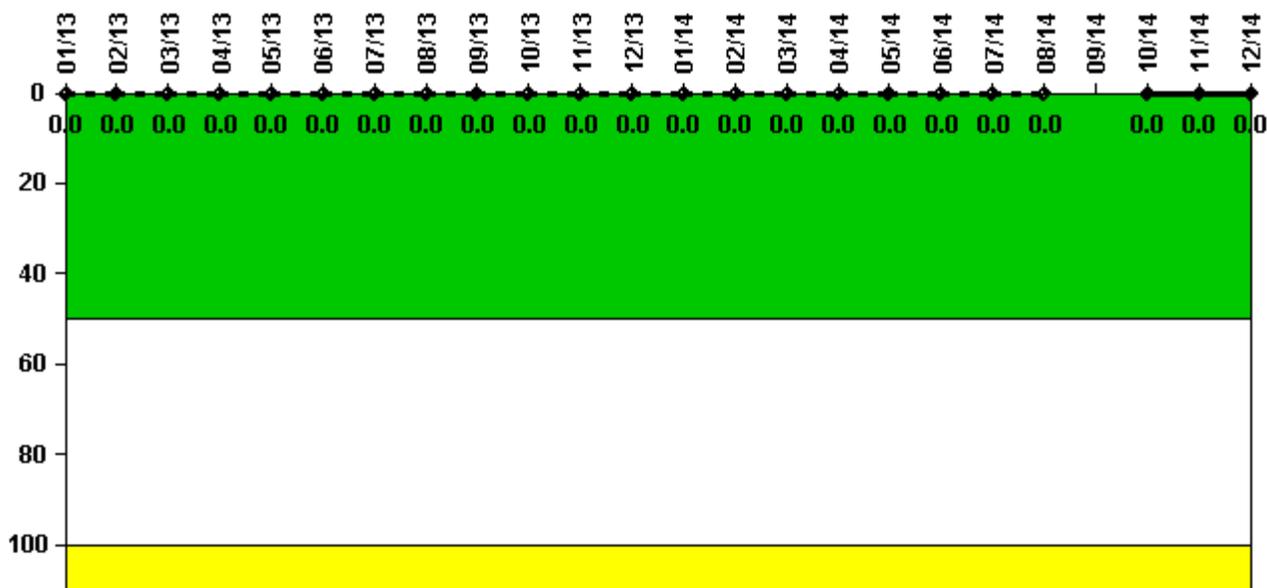
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-1.79E-08	-1.79E-08	-1.79E-08	1.06E-07	1.07E-07	1.25E-07	1.38E-07	1.40E-07
URI (Δ CDF)	-1.17E-08	-1.18E-08	-1.12E-08	-1.13E-08	-1.13E-08	-1.15E-08	-1.22E-08	-1.23E-08
PLE	NO							
Indicator value	-3.00E-08	-3.00E-08	-2.90E-08	9.40E-08	9.60E-08	1.10E-07	1.30E-07	1.30E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

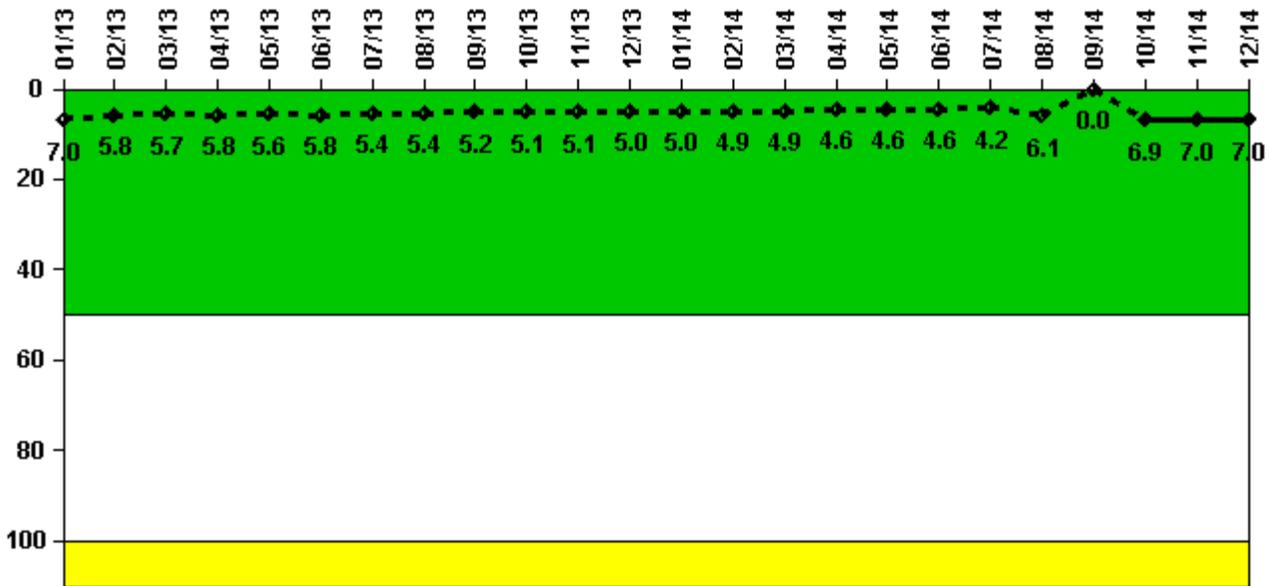
Notes

Reactor Coolant System Activity	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum activity	0.000016	0.000012	0.000012	0.000018	0.000014	0.000013	0.000025	0.000013	0.000028	0.000010	0.000010	0.000014
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

Reactor Coolant System Activity	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum activity	0.000015	0.000015	0.000013	0.000009	0.000012	0.000006	0.000018	0.000017	N/A	0.000008	0.000008	0.000010
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	N/A	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum leakage	1.740	1.460	1.430	1.440	1.400	1.460	1.360	1.350	1.300	1.280	1.270	1.260
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	7.0	5.8	5.7	5.8	5.6	5.8	5.4	5.4	5.2	5.1	5.1	5.0

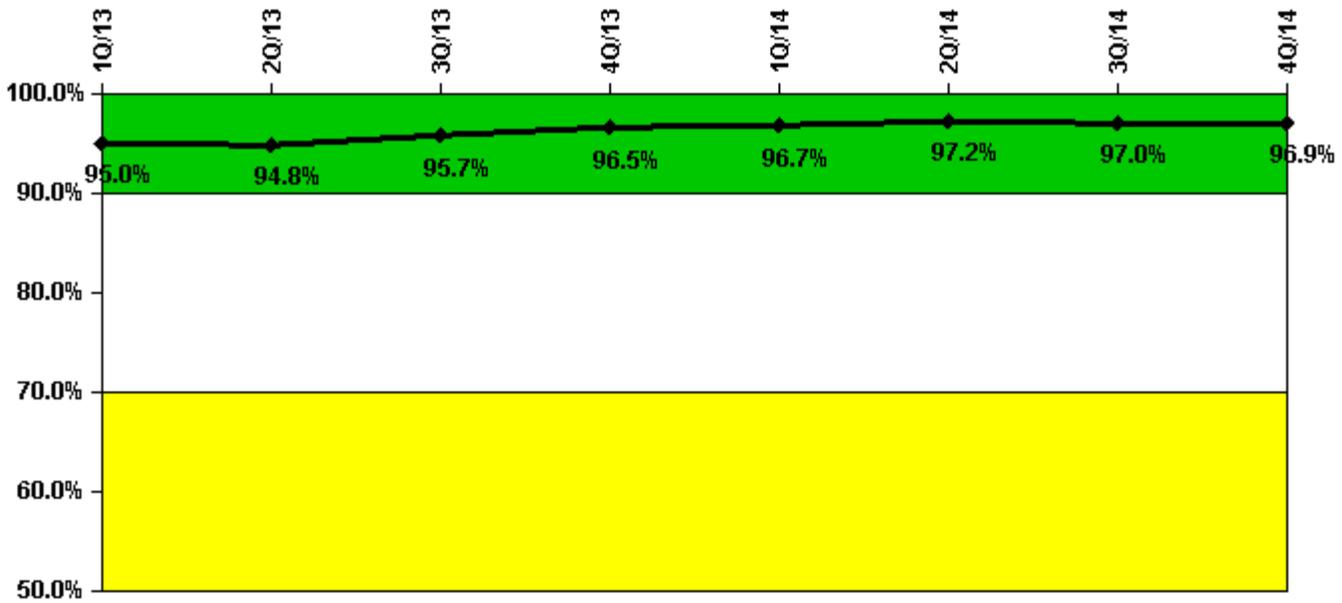
Reactor Coolant System Leakage	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum leakage	1.250	1.230	1.220	1.160	1.140	1.150	1.060	1.530	0	1.720	1.740	1.760
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	5.0	4.9	4.9	4.6	4.6	4.6	4.2	6.1	0	6.9	7.0	7.0

Licensee Comments:

9/13: 2nd Quarter 2013 data has been updated to correct data submitted in error. This change has no affect on indicator color.

6/13: Maximum RCS identified leakage and Maximum RCS unidentified leakage were inadvertently switched. Corrected by change report in 3rd Quarter 2013.

Drill/Exercise Performance



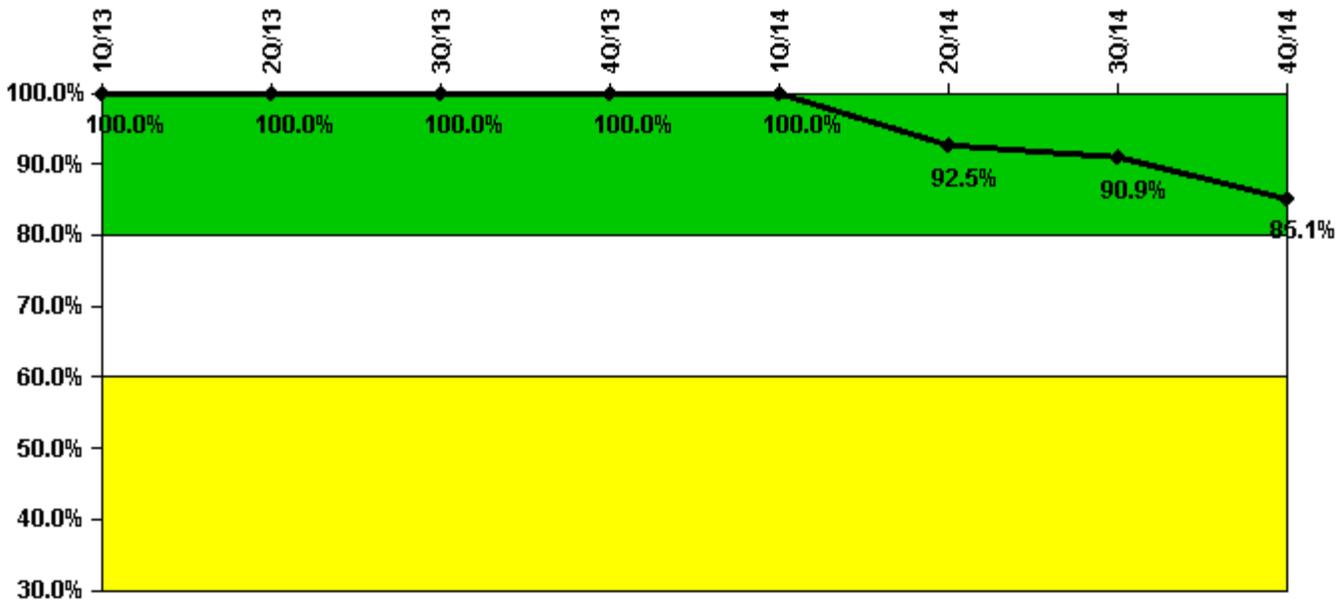
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful opportunities	26.0	67.0	74.0	76.0	51.0	50.0	0	0
Total opportunities	28.0	68.0	75.0	77.0	52.0	55.0	0	0
Indicator value	95.0%	94.8%	95.7%	96.5%	96.7%	97.2%	97.0%	96.9%

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

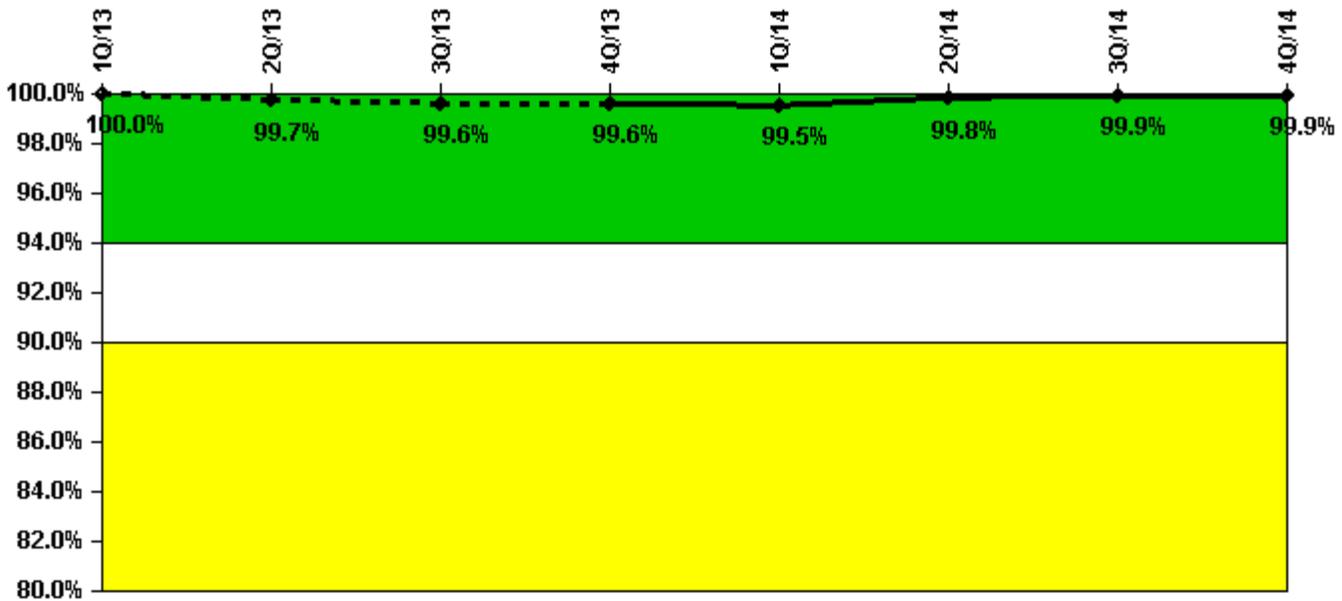
ERO Drill Participation	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Participating Key personnel	80.0	78.0	74.0	78.0	69.0	62.0	60.0	57.0
Total Key personnel	80.0	78.0	74.0	78.0	69.0	67.0	66.0	67.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	92.5%	90.9%	85.1%

Licensee Comments:

1Q/14: 4th quarter 2013 data was revised to reflect updated qualification status of one key individual. This change does not affect the indicator color.

4Q/13: December and November 2013 data was revised to reflect updated qualification status of one key individual. This change does not affect the indicator color.

Alert & Notification System



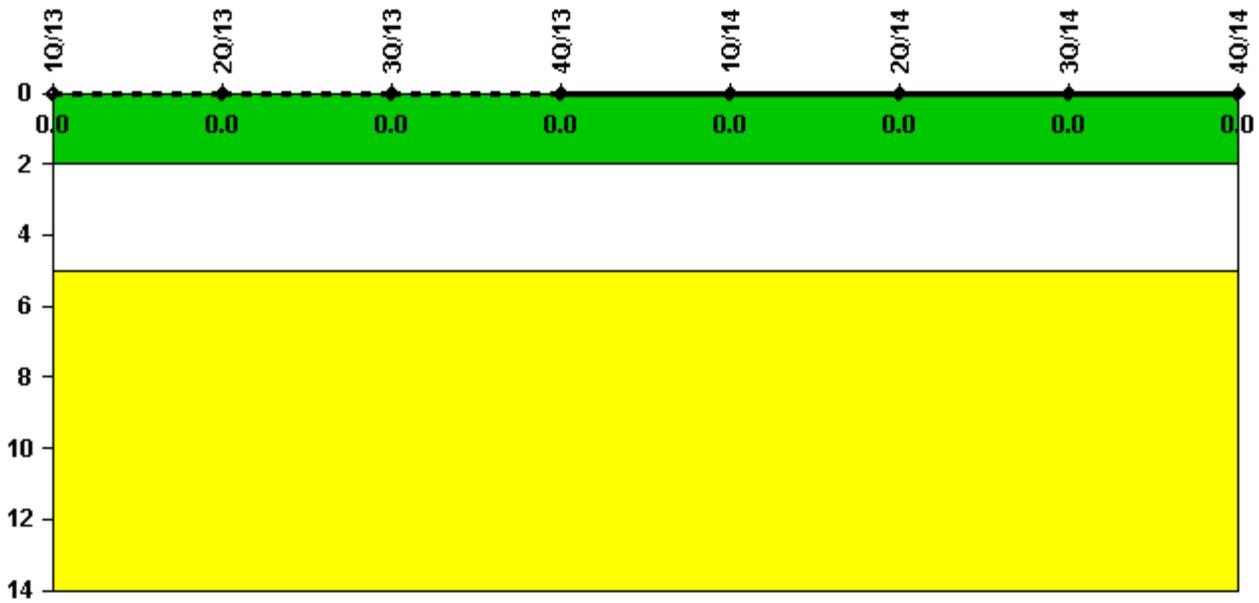
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful siren-tests	222	293	221	333	221	296	259	296
Total sirens-tests	222	296	222	333	222	296	259	296
Indicator value	100.0%	99.7%	99.6%	99.6%	99.5%	99.8%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



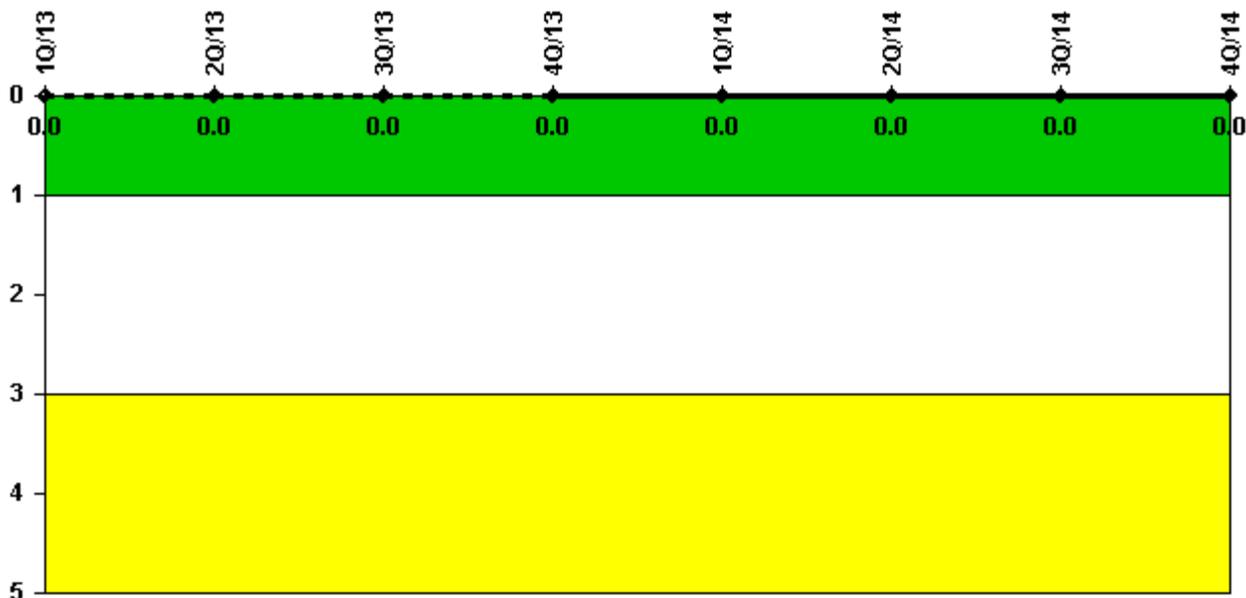
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
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	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	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: February 3, 2015