

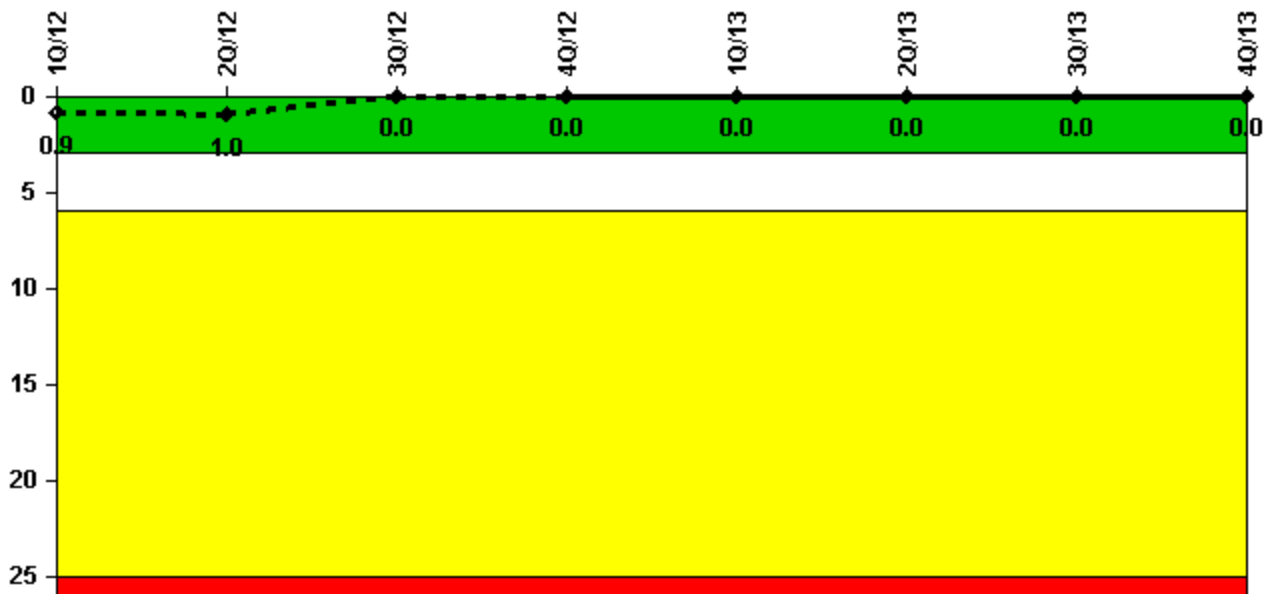
Calvert Cliffs 1

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



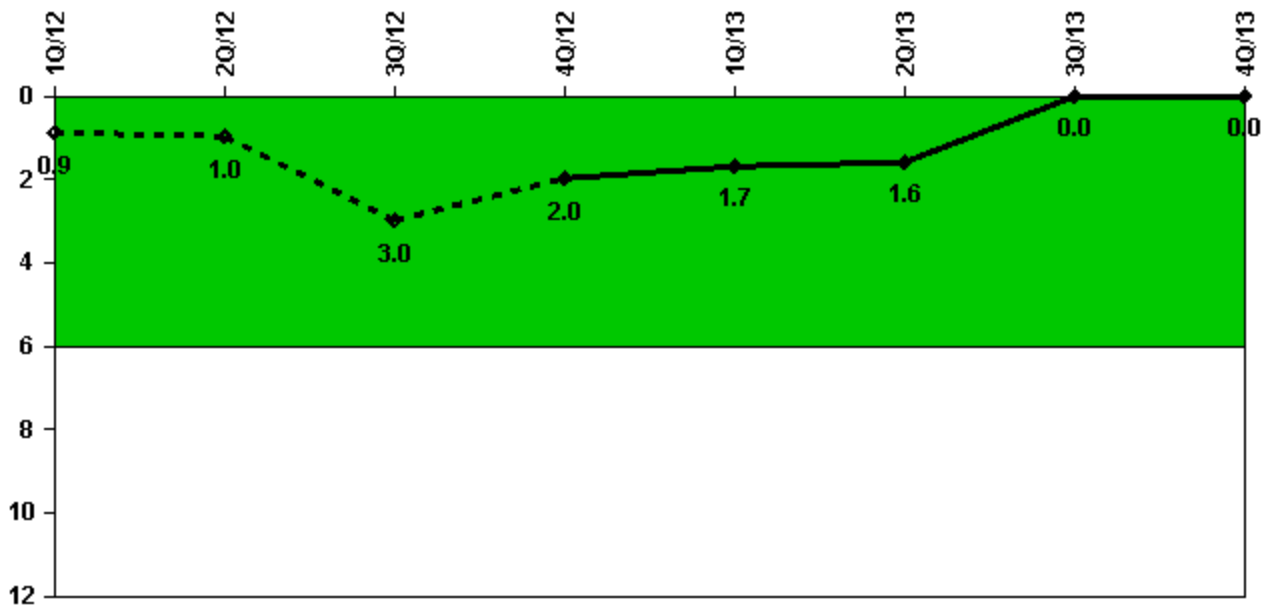
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	849.7	1997.4	2038.3	2116.5	2159.0	2184.0	2208.0	2209.0
Indicator value	0.9	1.0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



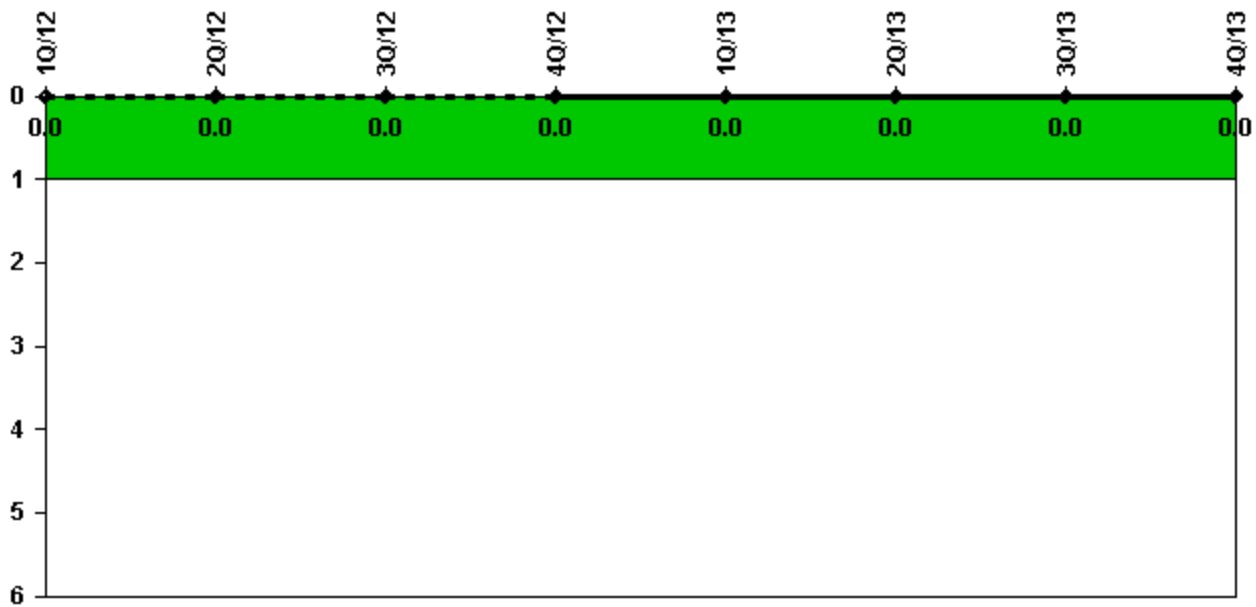
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	0	0	2.0	0	0	0	0	0
Critical hours	849.7	1997.4	2038.3	2116.5	2159.0	2184.0	2208.0	2209.0
Indicator value	0.9	1.0	3.0	2.0	1.7	1.6	0	0

Licensee Comments: none

Unplanned Scrams with Complications



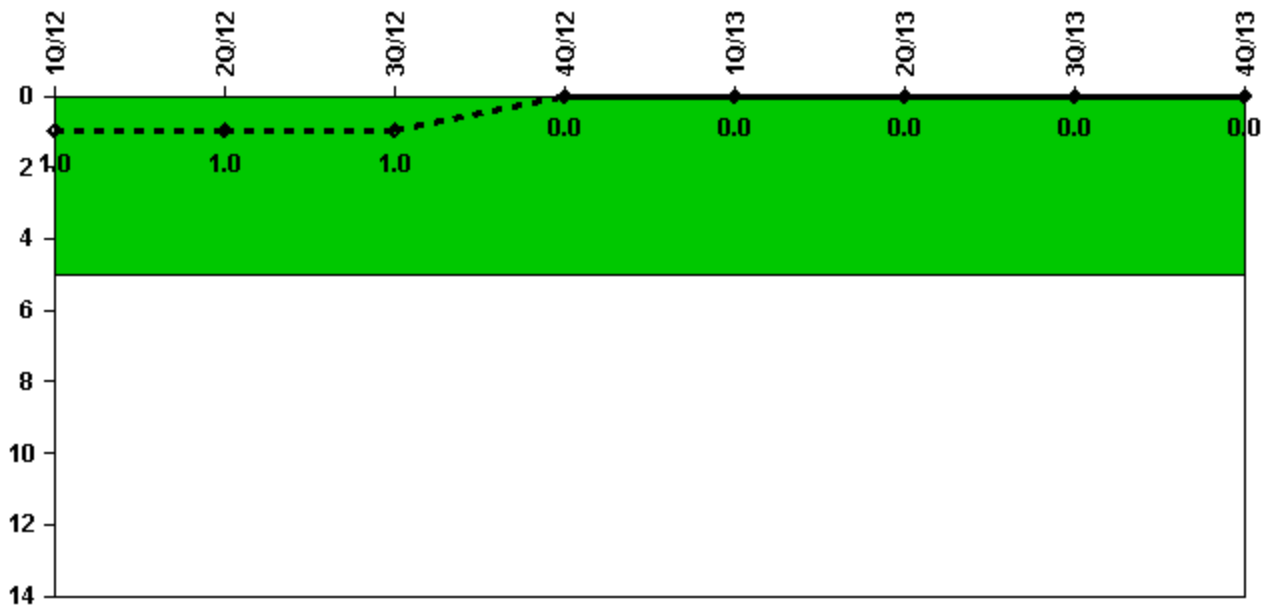
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



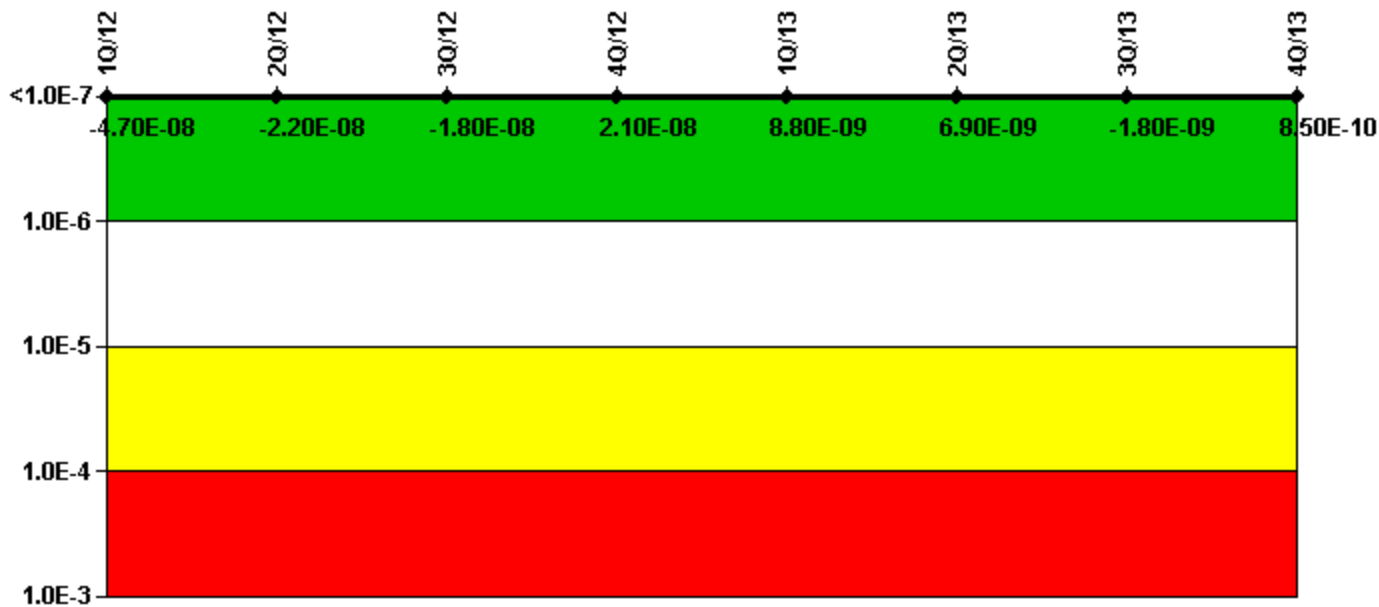
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	1	1	0	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

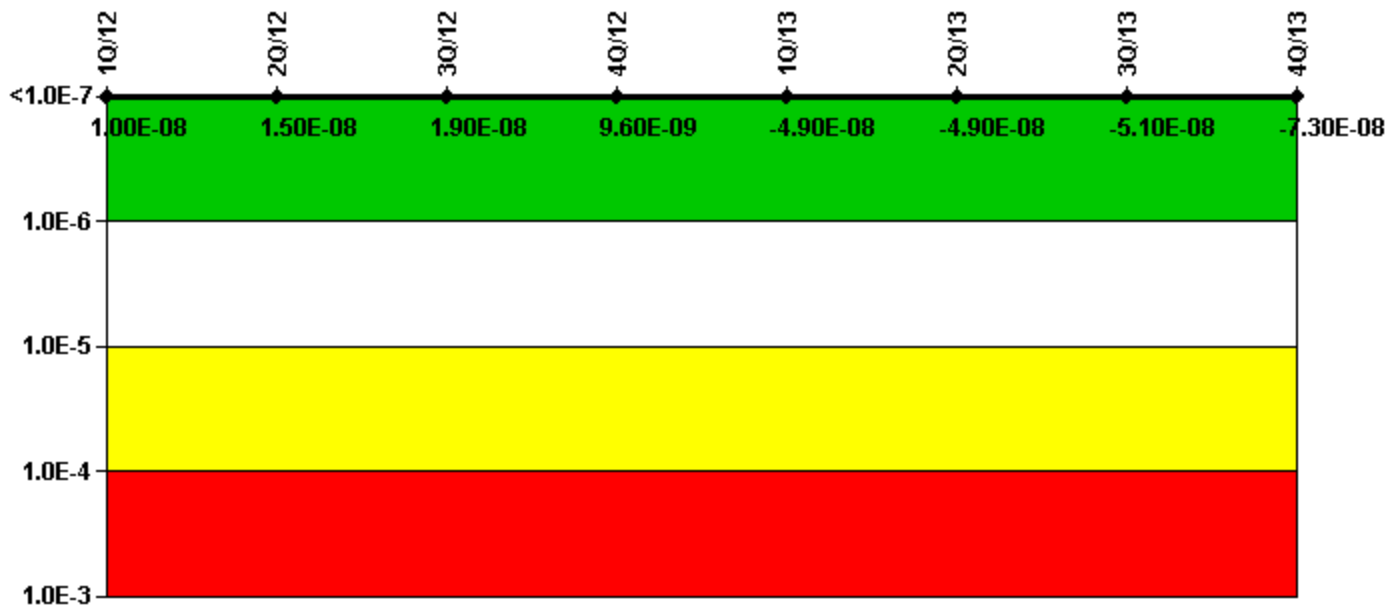
Mitigating Systems Performance Index, Emergency AC Power System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-1.02E-08	1.33E-08	1.60E-08	4.91E-08	3.64E-08	2.50E-08	1.43E-08	8.67E-09
URI (Δ CDF)	-3.67E-08	-3.53E-08	-3.37E-08	-2.81E-08	-2.76E-08	-1.81E-08	-1.60E-08	-7.82E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.70E-08	-2.20E-08	-1.80E-08	2.10E-08	8.80E-09	6.90E-09	-1.80E-09	8.50E-10

Licensee Comments:

1Q/12: 7-12-12: Hours revised for 7-2010 Unavailable hrs for 1A EDG due to error noted during data review. No color or threshold changes result from correction.

1Q/12: 7-12-12: Hours revised for 7-2010 Unavailable hrs for 1A EDG due to error noted during data review. No color or threshold changes result from correction.

Mitigating Systems Performance Index, High Pressure Injection System



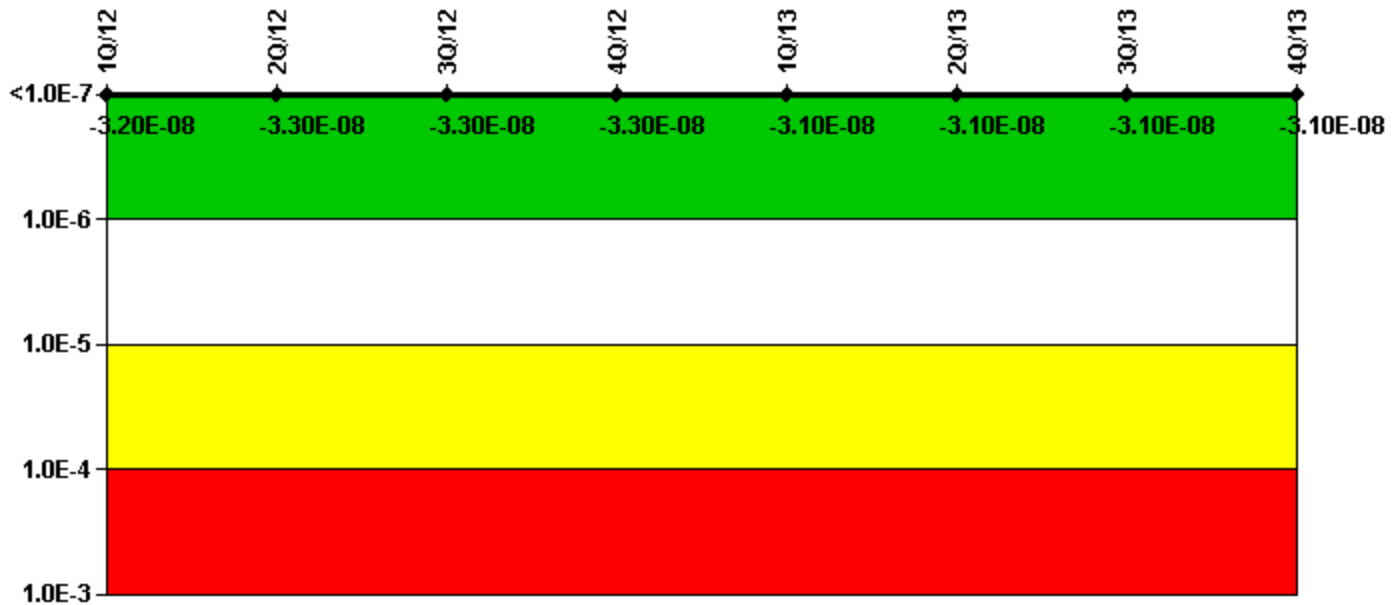
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	4.91E-08	5.22E-08	5.68E-08	4.61E-08	-1.74E-08	-1.85E-08	-2.16E-08	-4.41E-08
URI (Δ CDF)	-3.86E-08	-3.73E-08	-3.73E-08	-3.65E-08	-3.14E-08	-3.05E-08	-2.95E-08	-2.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.00E-08	1.50E-08	1.90E-08	9.60E-09	-4.90E-08	-4.90E-08	-5.10E-08	-7.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



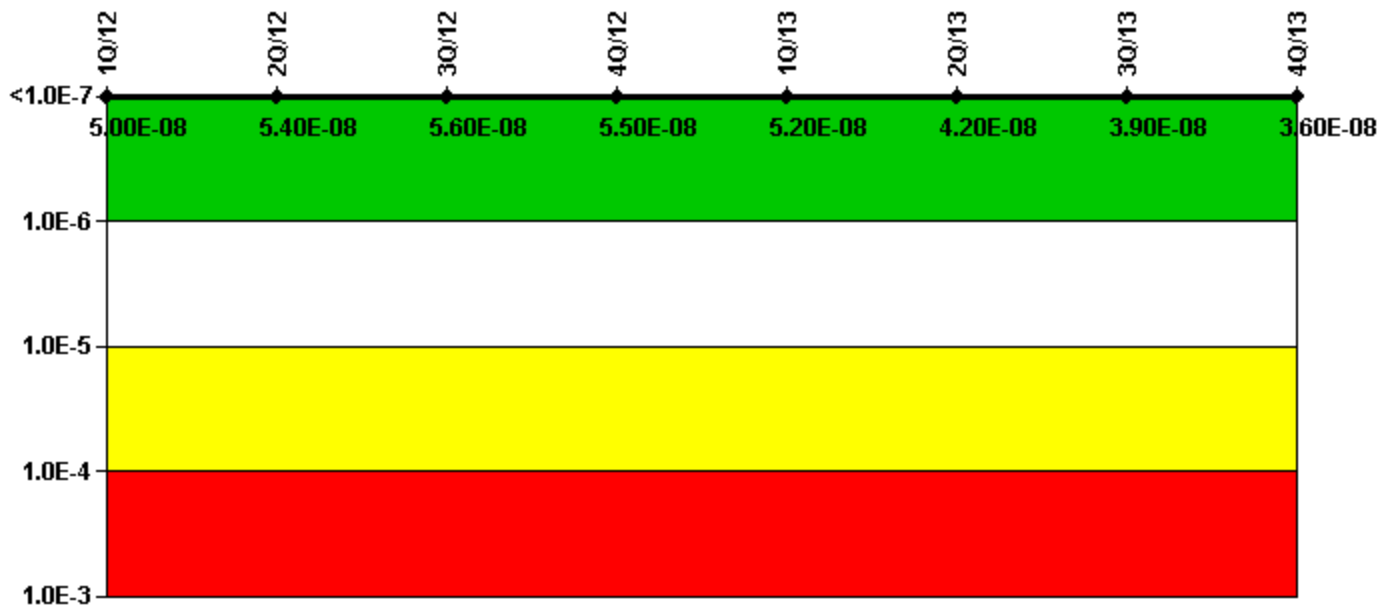
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-7.59E-09	-7.59E-09	-7.58E-09	-7.99E-09	-7.99E-09	-7.99E-09	-7.80E-09	-6.42E-09
URI (Δ CDF)	-2.46E-08	-2.58E-08	-2.58E-08	-2.54E-08	-2.33E-08	-2.33E-08	-2.33E-08	-2.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.20E-08	-3.30E-08	-3.30E-08	-3.30E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



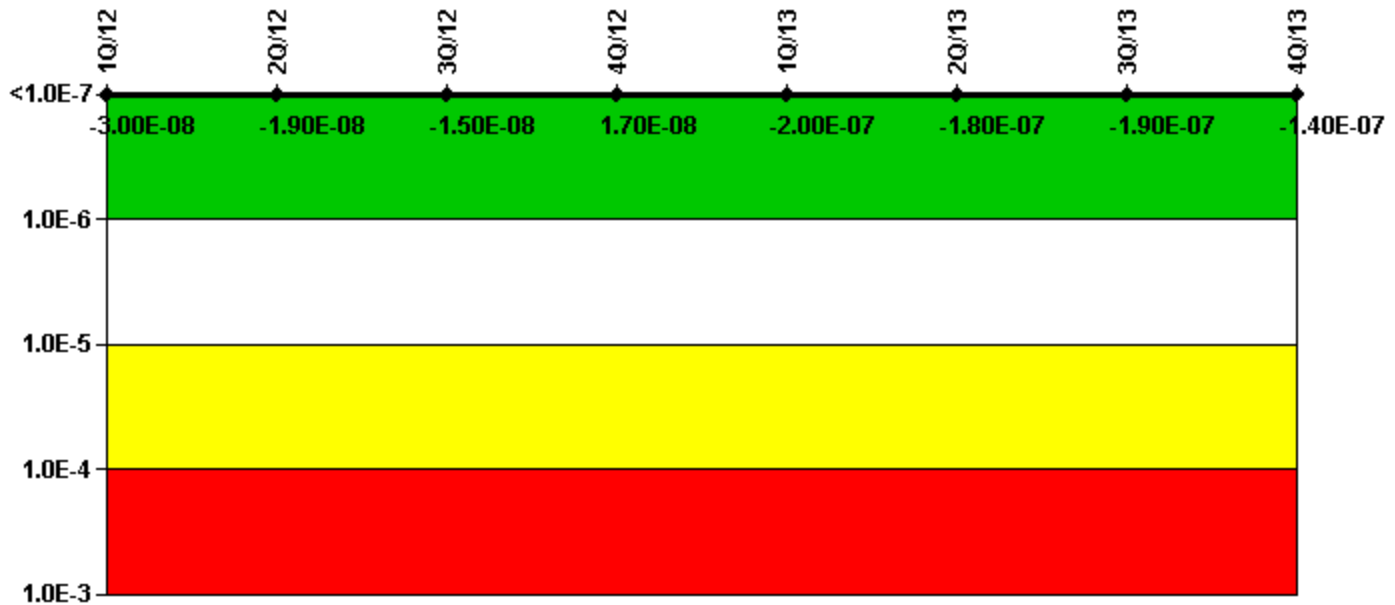
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	5.50E-08	5.98E-08	6.17E-08	6.06E-08	5.68E-08	4.63E-08	4.36E-08	4.05E-08
URI (ΔCDF)	-5.25E-09	-5.59E-09	-5.59E-09	-5.67E-09	-4.89E-09	-4.78E-09	-4.85E-09	-4.84E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.00E-08	5.40E-08	5.60E-08	5.50E-08	5.20E-08	4.20E-08	3.90E-08	3.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



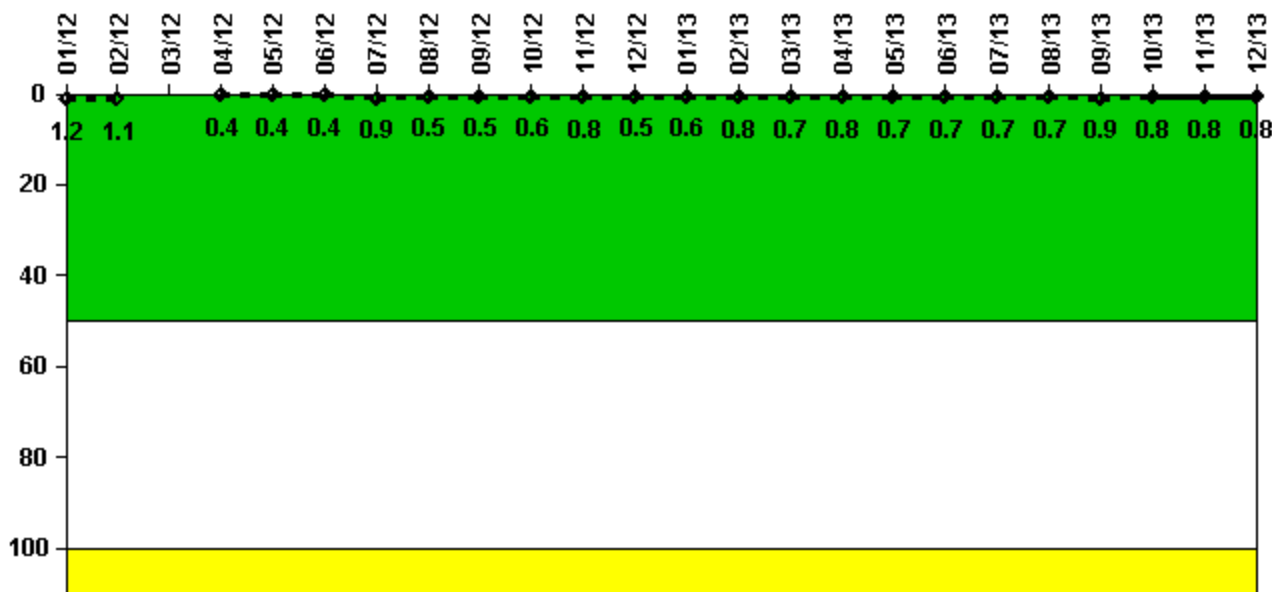
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	1.98E-07	2.09E-07	2.13E-07	2.44E-07	2.77E-08	4.31E-08	4.12E-08	8.55E-08
URI (Δ CDF)	-2.27E-07	-2.27E-07	-2.27E-07	-2.27E-07	-2.27E-07	-2.27E-07	-2.27E-07	-2.27E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-08	-1.90E-08	-1.50E-08	1.70E-08	-2.00E-07	-1.80E-07	-1.90E-07	-1.40E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

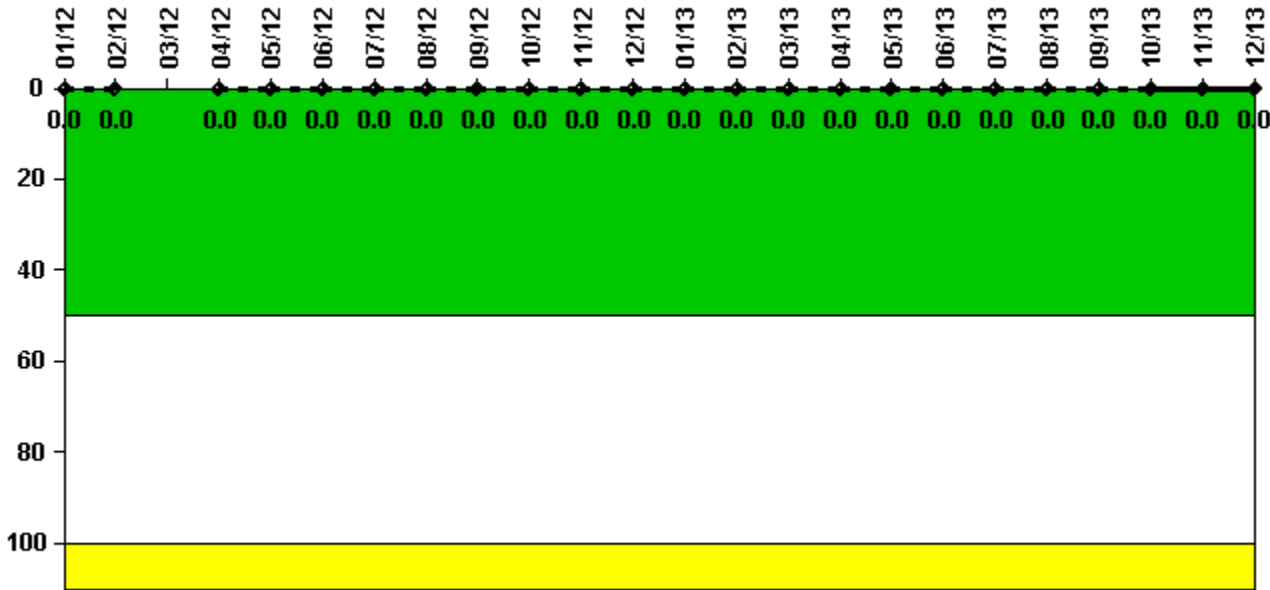
Reactor Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	0.006150	0.005650	N/A	0.002070	0.002160	0.002220	0.004310	0.002680	0.002720	0.003180	0.003870	0.002730
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	1.2	1.1	N/A	0.4	0.4	0.4	0.9	0.5	0.5	0.6	0.8	0.5

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	0.002950	0.003950	0.003280	0.004070	0.003300	0.003470	0.003550	0.003590	0.004260	0.004180	0.003880	0.004140
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	0.6	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.9	0.8	0.8	0.8

Licensee Comments:

3/12: Per NEI 99-02 "If in the entire month, plant conditions do not require RCS activity to be calculated, the data field is left blank for that month." Calvert Cliffs Unit 1 was in a refueling outage and shutdown for the entire month of March, 2012.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum leakage	0	0	N/A	0	0	0	0	0	0	0	0	0
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	0	N/A	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments:

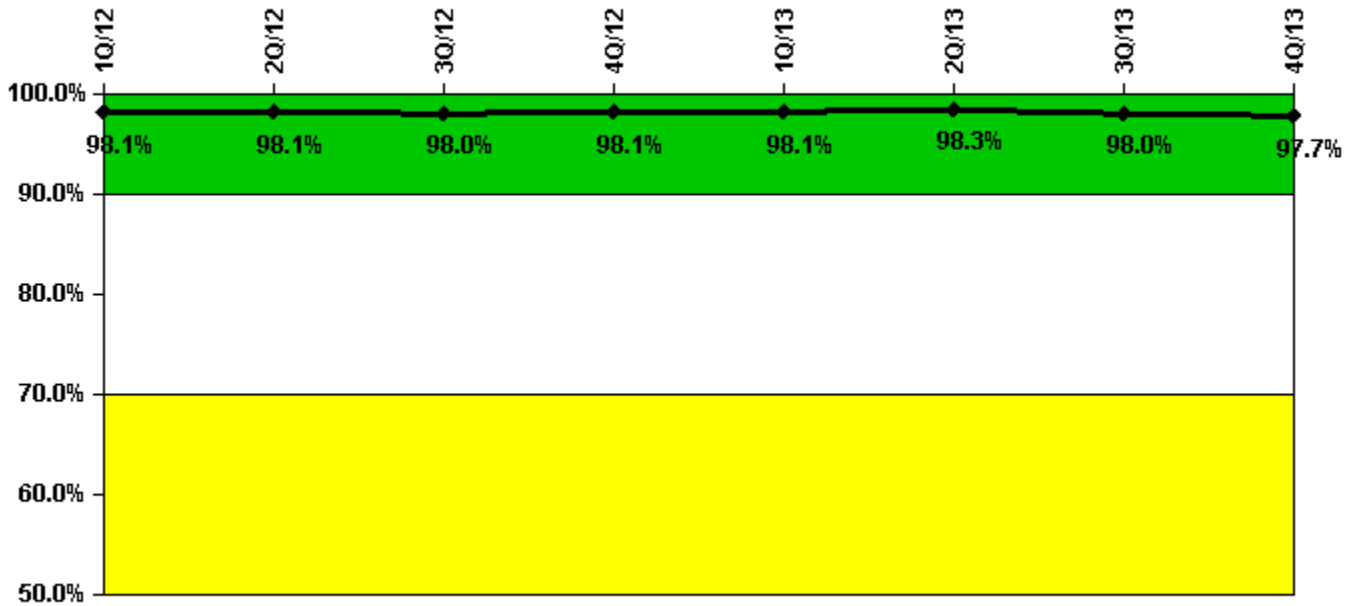
6/12: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

6/12: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

3/12: Per NEI 99-02 "If in the entire month, plant conditions do not require RCS activity to be calculated, the data field is left blank for that month." Calvert Cliffs Unit 1 was in a refueling outage and shutdown for the entire

month of March, 2012. Entry 2 for Jan/Feb 2012: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

Drill/Exercise Performance



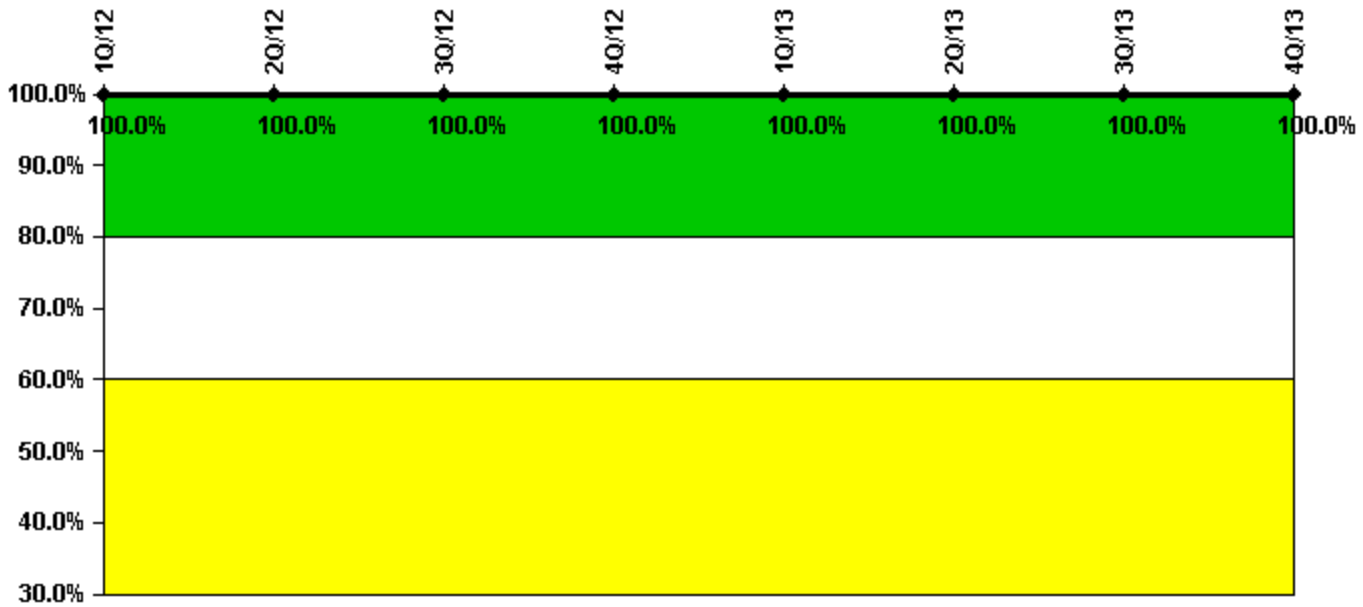
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	5.0	25.0	12.0	67.0	2.0	32.0	53.0	61.0
Total opportunities	5.0	25.0	13.0	68.0	2.0	32.0	54.0	64.0
Indicator value	98.1%	98.1%	98.0%	98.1%	98.1%	98.3%	98.0%	97.7%

Licensee Comments: none

ERO Drill Participation



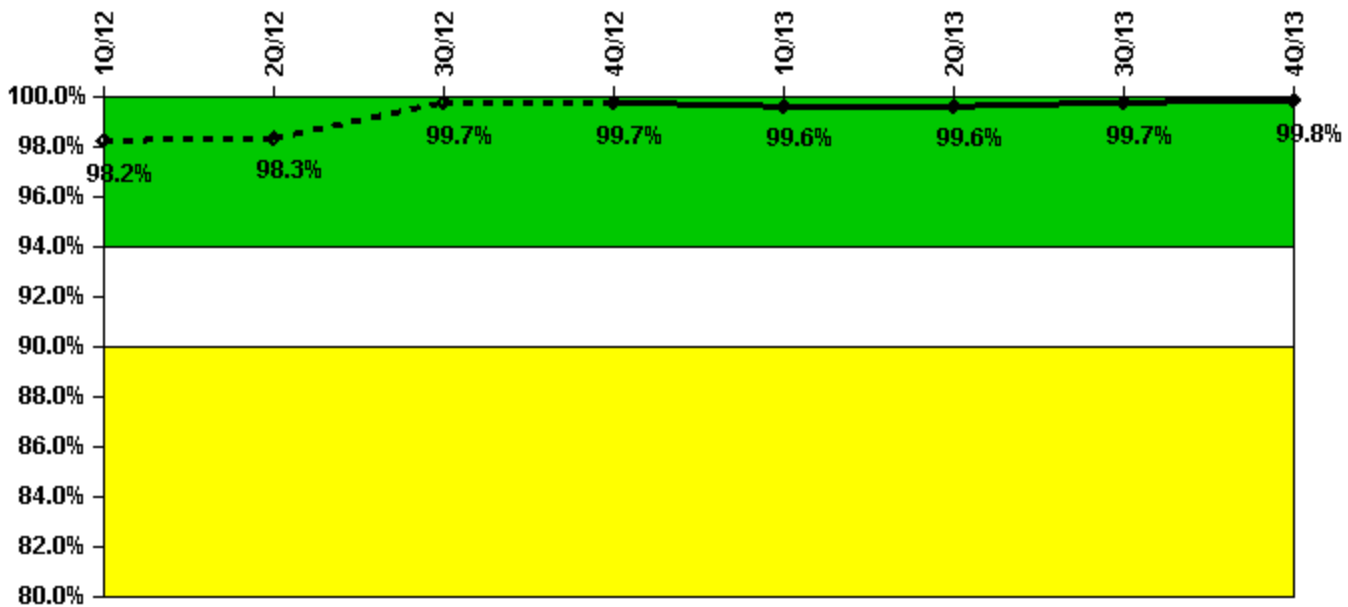
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	86.0	80.0	83.0	84.0	79.0	79.0	80.0	86.0
Total Key personnel	86.0	80.0	83.0	84.0	79.0	79.0	80.0	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



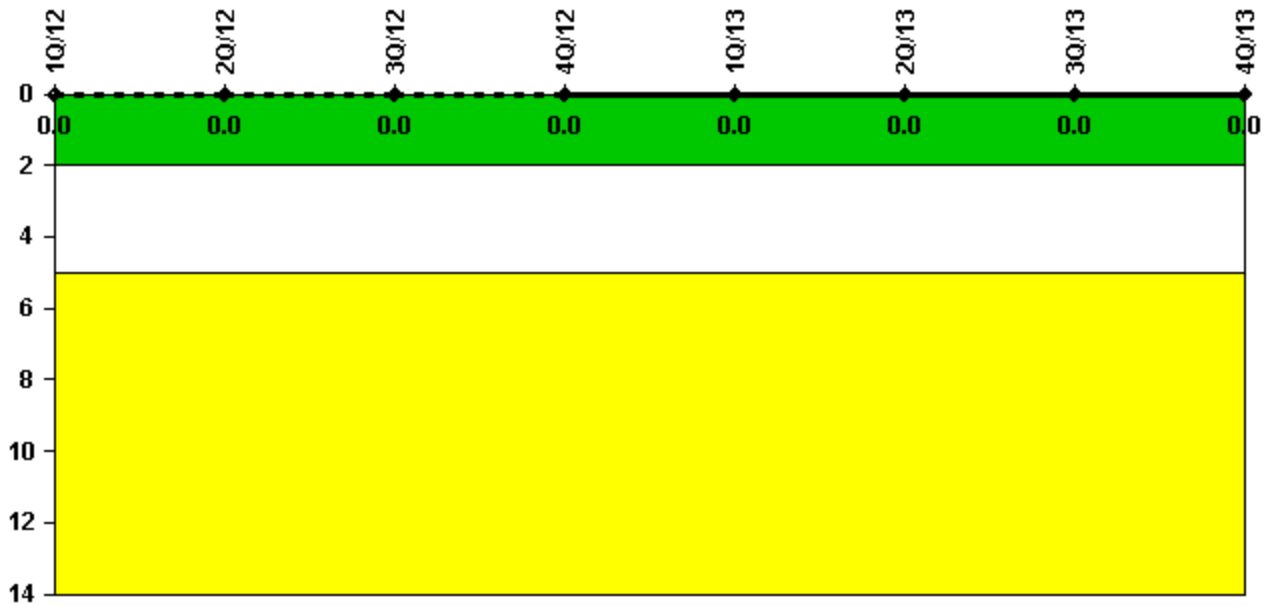
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	947	948	945	1016	871	948	971	947
Total sirens-tests	949	949	949	1022	876	949	972	949
Indicator value	98.2%	98.3%	99.7%	99.7%	99.6%	99.6%	99.7%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
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	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
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: January 22, 2014