

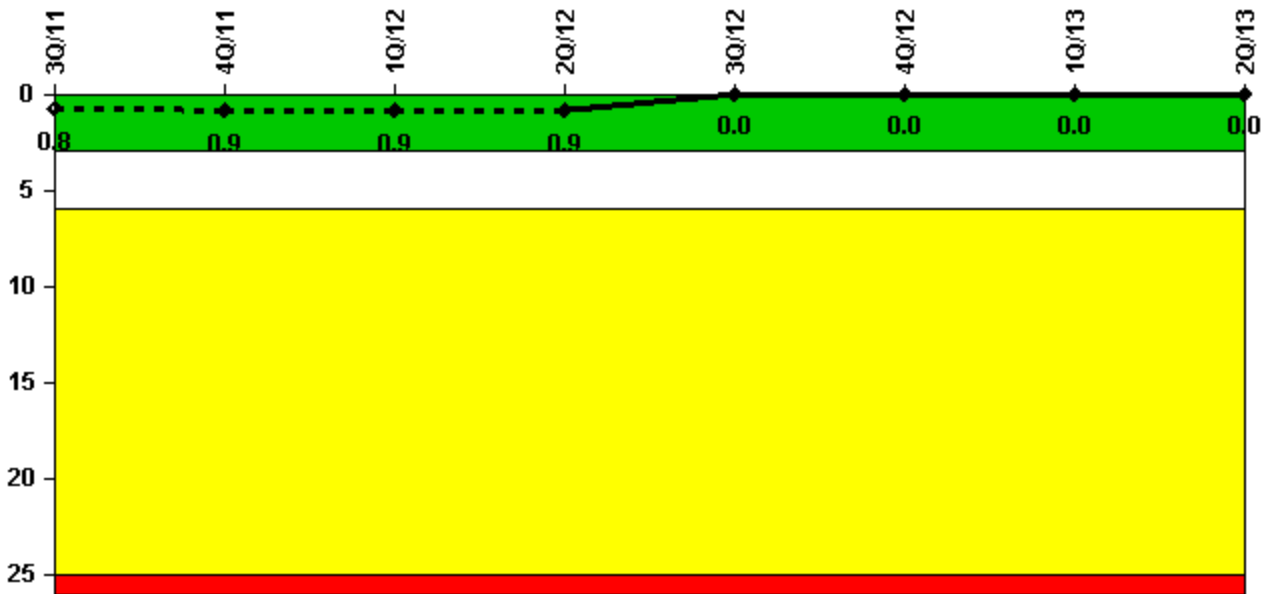
D.C. Cook 1

2Q/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

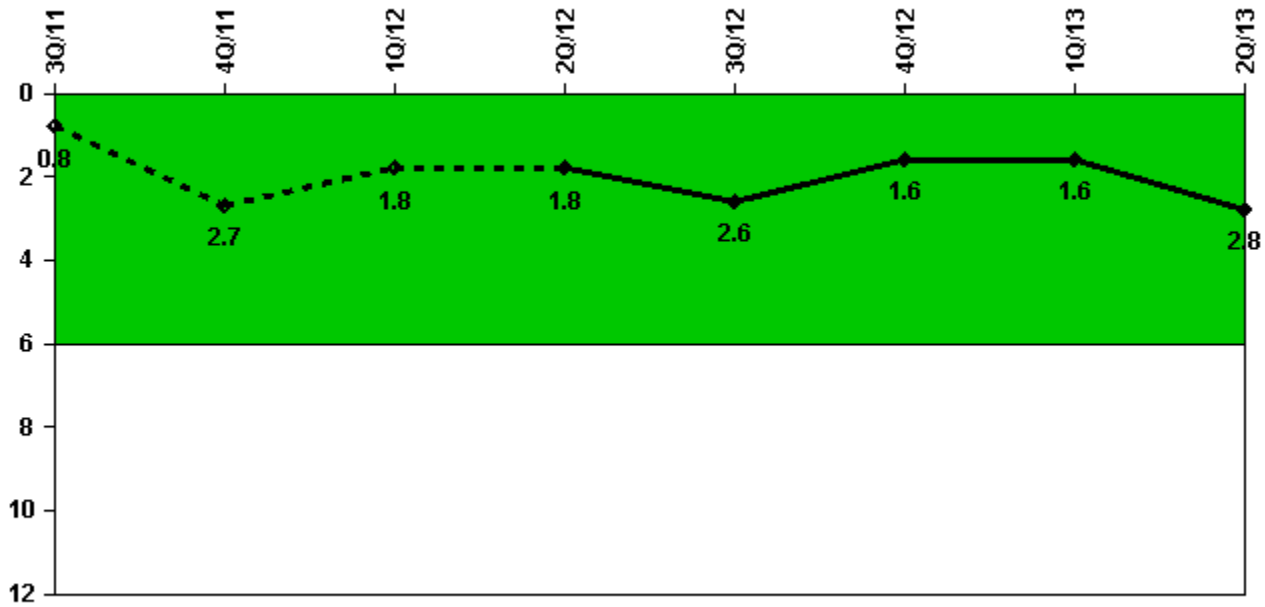
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	1916.6	1617.1	2183.0	2184.0	2208.0	2209.0	2039.0	1052.9
Indicator value	0.8	0.9	0.9	0.9	0	0	0	0

Licensee Comments:

3Q/11: One unplanned scram: Automatic trip of Unit 1 reactor on September 7 due to a main turbine trip initiated by thrust position circuitry.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned power changes	0	2.0	0	0	1.0	1.0	0	1.0
Critical hours	1916.6	1617.1	2183.0	2184.0	2208.0	2209.0	2039.0	1052.9
Indicator value	0.8	2.7	1.8	1.8	2.6	1.6	1.6	2.8

Licensee Comments:

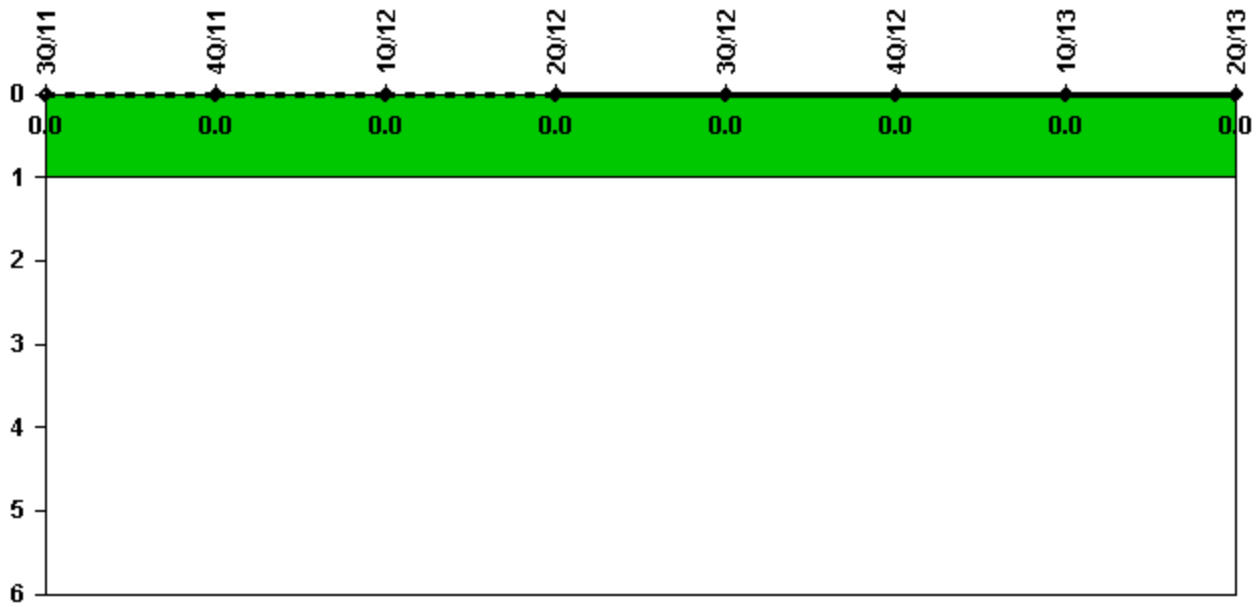
2Q/13: Unplanned power change on May 22, 2013, from 88% to 48% due to electrohydraulic control fluid leak on East Main Feed Pump.

4Q/12: Downpower to 54% due to hi vibration on East Main Feed Pump on 10/29/12.

3Q/12: One unplanned power change from 100% to approximately 49% on July 19 in accordance with Tech Spec action requirements for inoperable main steam line isolation function

4Q/11: Two unplanned power changes: November 25 - power reduced to approximately 54% due to East Main Feedwater Pump high vibrations (turbine shaft failure). December 21 - power reduced to approximately 57% due to EHC fluid leak on West Main Feedwater Pump.

Unplanned Scrams with Complications



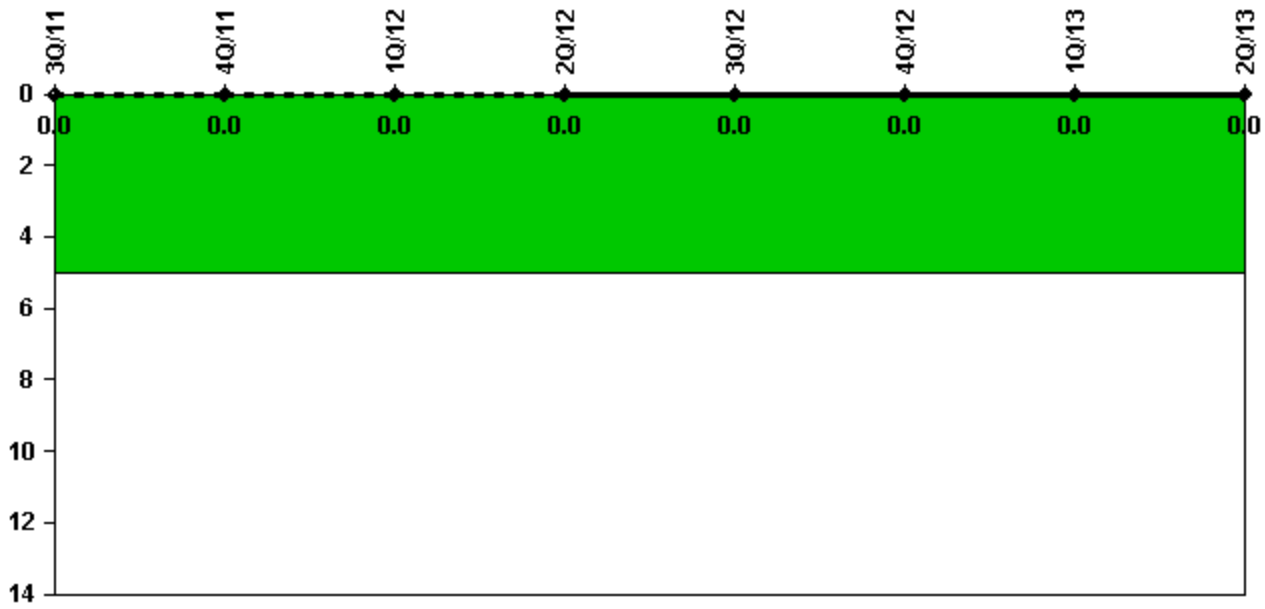
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/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)



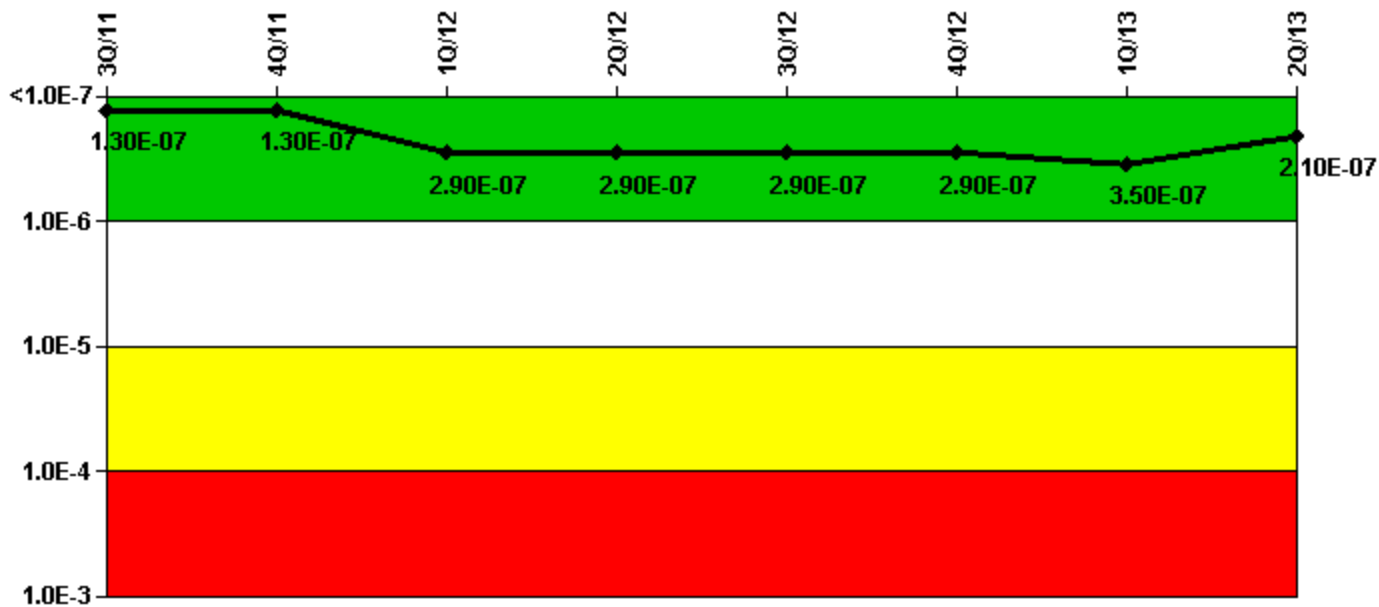
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	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

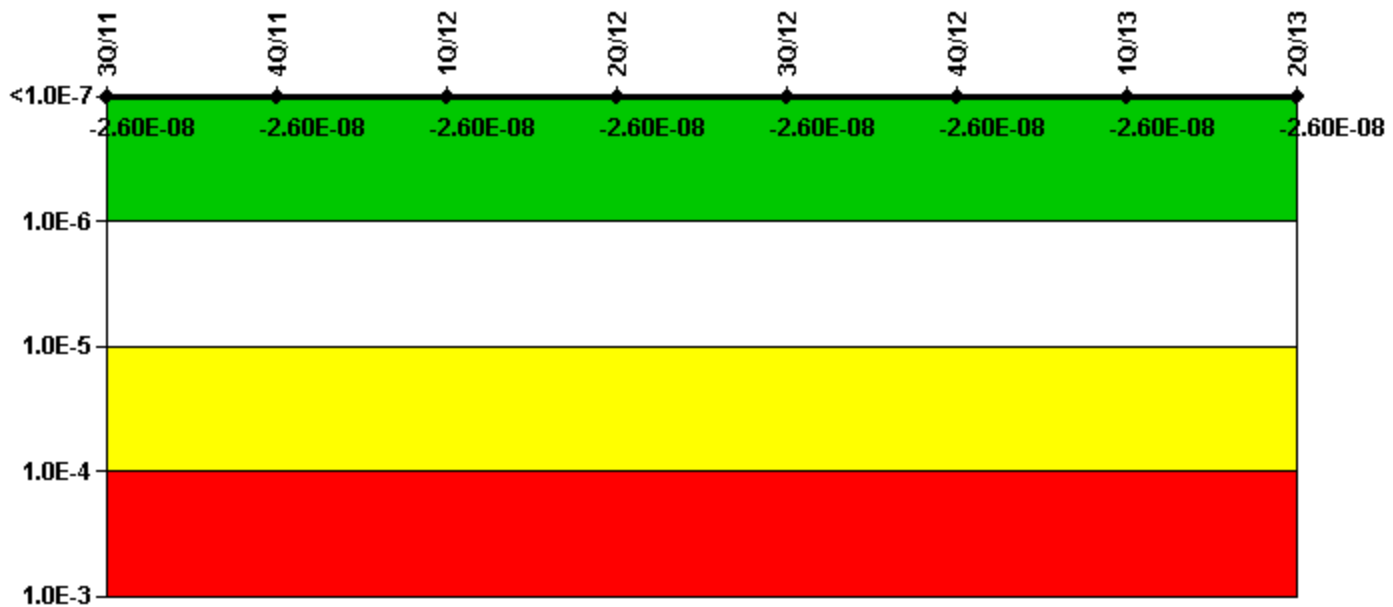
Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	5.80E-10	4.86E-10	4.87E-10	4.00E-10	3.29E-10	2.79E-10	3.40E-10	-1.71E-10
URI (Δ CDF)	1.33E-07	1.33E-07	2.85E-07	2.85E-07	2.85E-07	2.85E-07	3.50E-07	2.08E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.30E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	3.50E-07	2.10E-07

Licensee Comments:

1Q/13: U1 CD EDG Fuel Injector failure during surveillance on 1/29/13. CD EDG available following repair on 1/30/13.

Mitigating Systems Performance Index, High Pressure Injection System



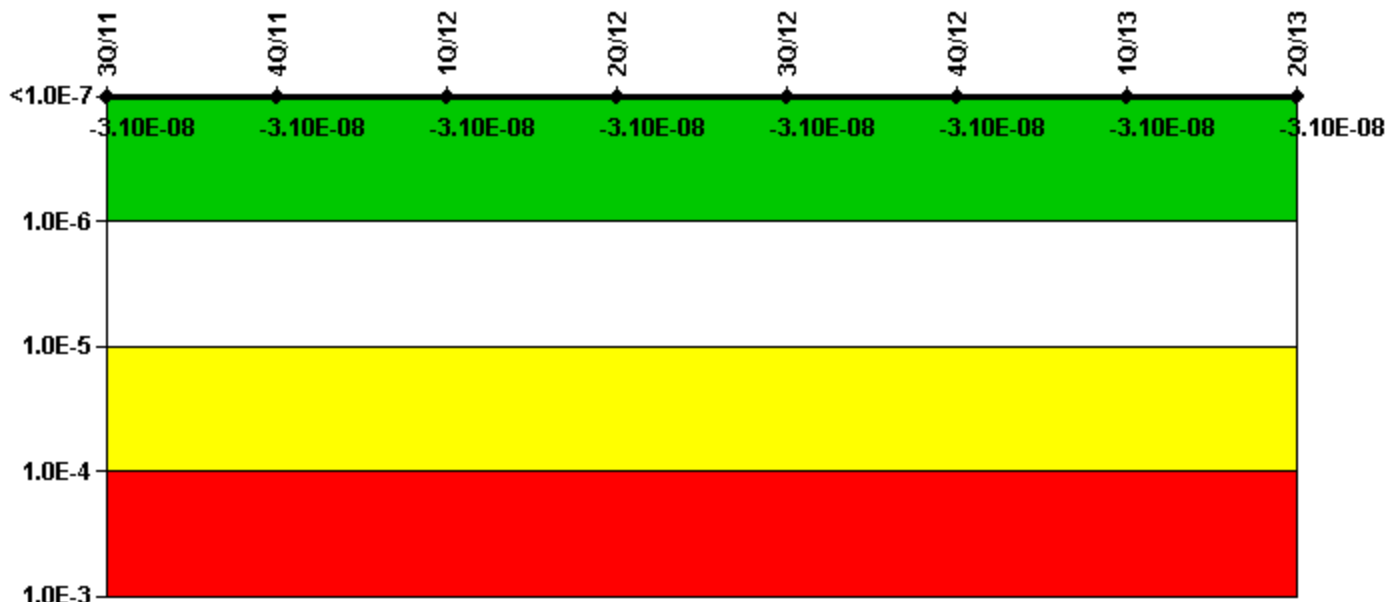
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-2.30E-12	-5.56E-12	-8.42E-12	-1.04E-11	-1.20E-11	-1.31E-11	-1.07E-11	-9.00E-12
URI (Δ CDF)	-2.58E-08	-2.58E-08	-2.58E-08	-2.58E-08	-2.58E-08	-2.58E-08	-2.58E-08	-2.58E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-08	-2.60E-08	-2.60E-08	-2.60E-08	-2.60E-08	-2.60E-08	-2.60E-08	-2.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



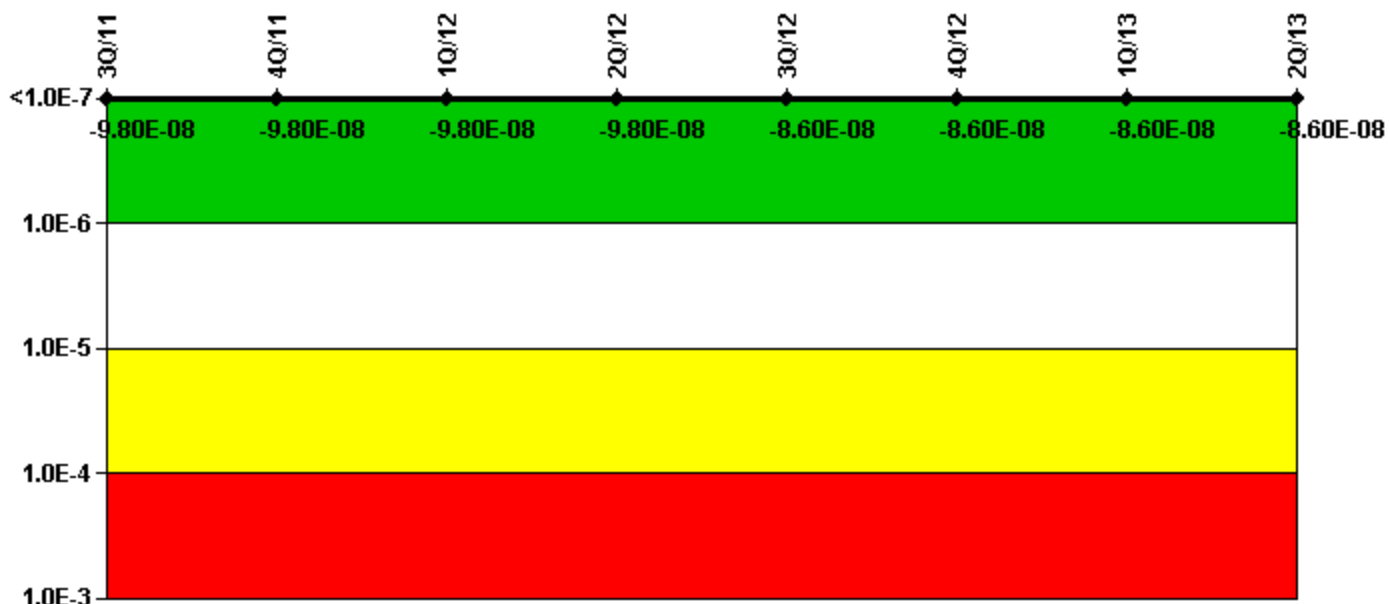
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-2.01E-11	-2.37E-11	-2.47E-11	-2.80E-11	-2.86E-11	-2.86E-11	-2.86E-11	-2.78E-11
URI (Δ CDF)	-3.15E-08	-3.15E-08	-3.15E-08	-3.15E-08	-3.15E-08	-3.15E-08	-3.15E-08	-3.15E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-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

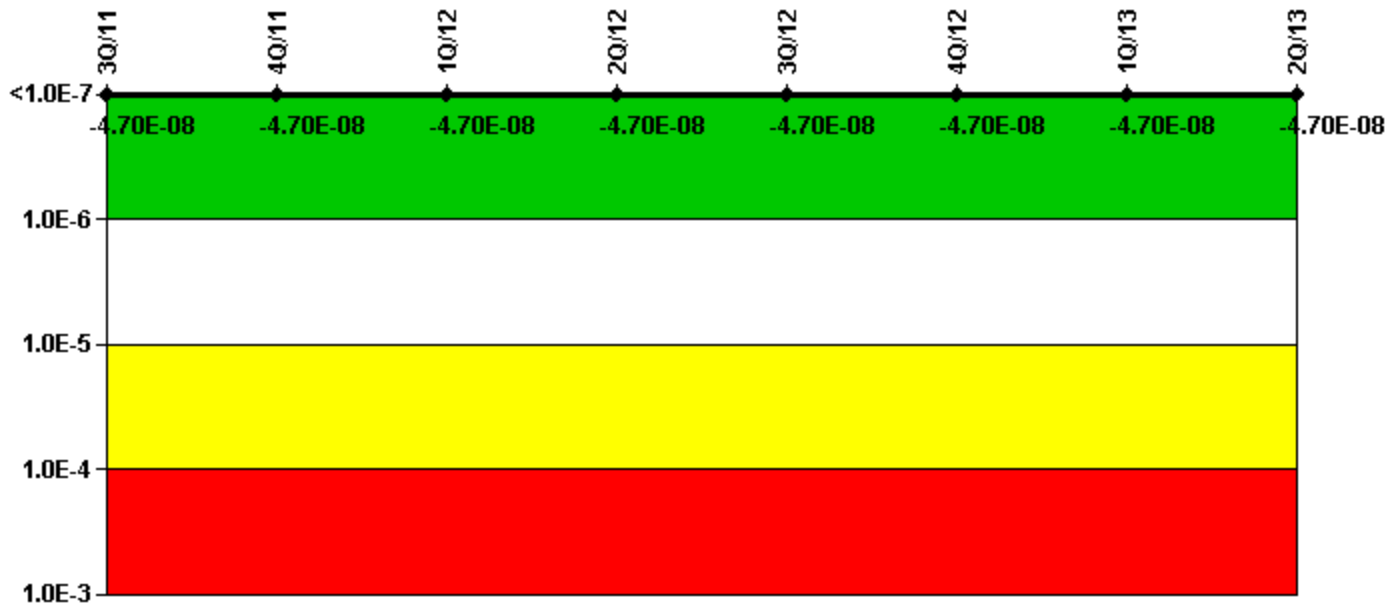
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-2.18E-13	-3.05E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13
URI (Δ CDF)	-9.76E-08	-9.76E-08	-9.76E-08	-9.76E-08	-8.62E-08	-8.62E-08	-8.62E-08	-8.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.80E-08	-9.80E-08	-9.80E-08	-9.80E-08	-8.60E-08	-8.60E-08	-8.60E-08	-8.60E-08

Licensee Comments:

2Q/12: The MSPI Basis document was revised to exclude two Unit 1 RHR heat exchanger CCW outlet valves from monitoring based on their Birnbaum importance.

Mitigating Systems Performance Index, Cooling Water Systems



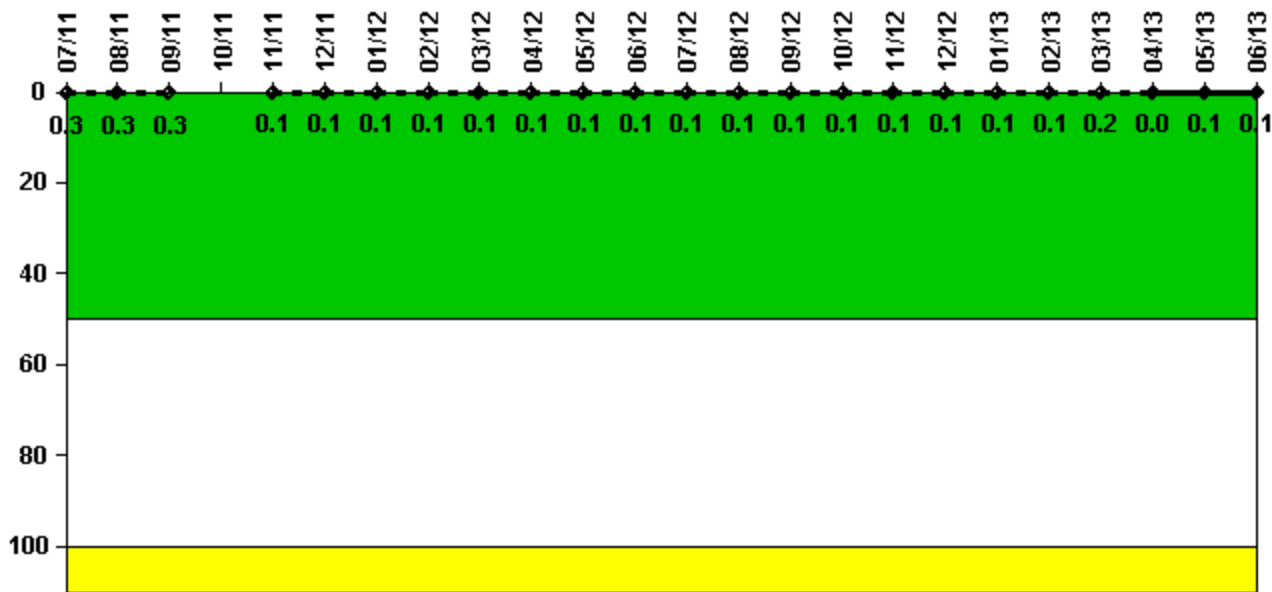
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	6.36E-11	4.62E-11	4.25E-11	2.77E-11	1.95E-11	1.57E-11	3.48E-11	7.02E-11
URI (Δ CDF)	-4.69E-08	-4.69E-08	-4.69E-08	-4.69E-08	-4.69E-08	-4.69E-08	-4.69E-08	-4.69E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.70E-08	-4.70E-08	-4.70E-08	-4.70E-08	-4.70E-08	-4.70E-08	-4.70E-08	-4.70E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

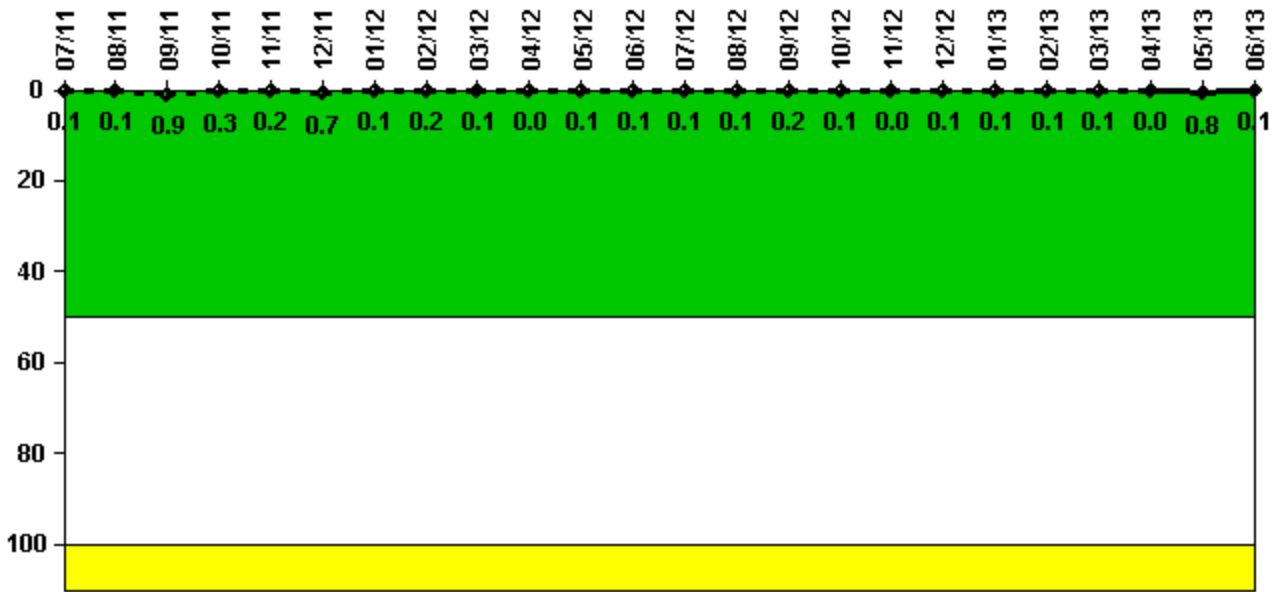
Reactor Coolant System Activity	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum activity	0.002560	0.002610	0.003030	N/A	0.000843	0.000793	0.000850	0.000885	0.000932	0.000939	0.000977	0.001050
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.3	0.3	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Reactor Coolant System Activity	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum activity	0.001100	0.001140	0.001170	0.001230	0.001320	0.001290	0.001350	0.001390	0.001590	0	0.000329	0.000484
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	0.4	0.4
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0	0.1	0.1

Licensee Comments:

12/11: Due to a refueling outage followed by power escalation, RCS Activity data is not available for the month of October.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

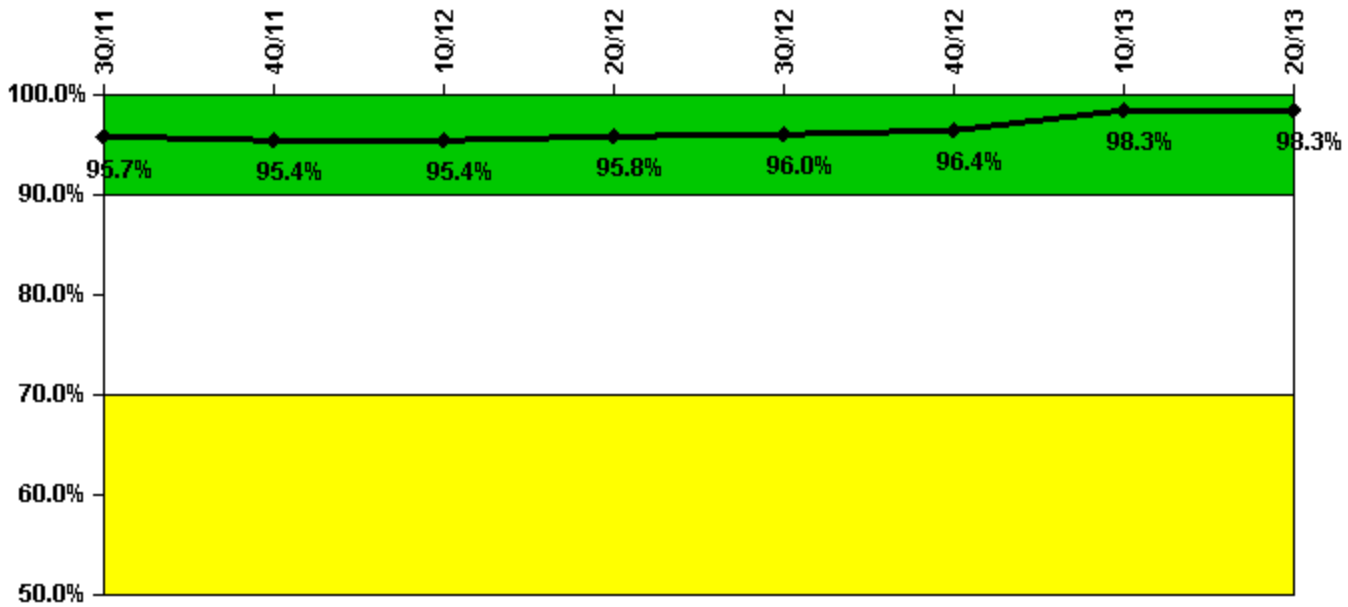
Notes

Reactor Coolant System Leakage	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum leakage	0.012	0.009	0.094	0.036	0.020	0.075	0.009	0.017	0.012	0.005	0.012	0.012
Technical specification limit	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
Indicator value	0.1	0.1	0.9	0.3	0.2	0.7	0.1	0.2	0.1	0	0.1	0.1

Reactor Coolant System Leakage	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum leakage	0.013	0.012	0.018	0.016	0.005	0.010	0.011	0.012	0.012	0	0.091	0.011
Technical specification limit	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
Indicator value	0.1	0.1	0.2	0.1	0	0.1	0.1	0.1	0.1	0	0.8	0.1

Licensee Comments: none

Drill/Exercise Performance



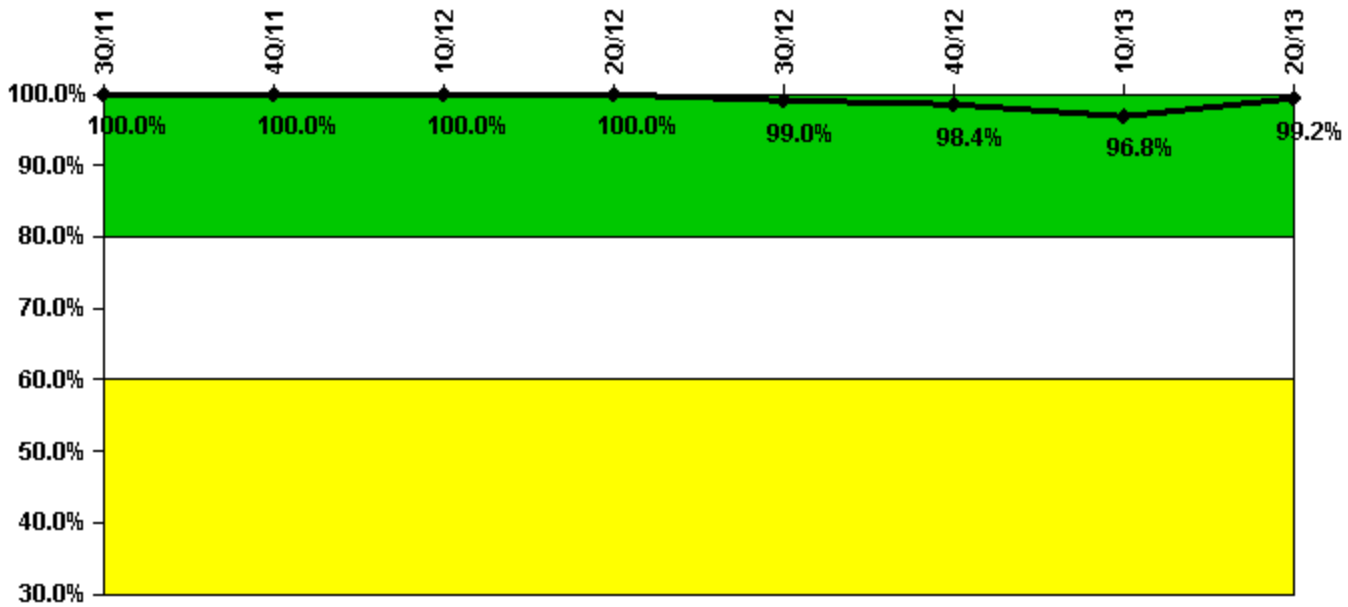
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful opportunities	41.0	0	34.0	24.0	41.0	66.0	68.0	20.0
Total opportunities	41.0	0	35.0	25.0	41.0	67.0	70.0	20.0
Indicator value	95.7%	95.4%	95.4%	95.8%	96.0%	96.4%	98.3%	98.3%

Licensee Comments: none

ERO Drill Participation



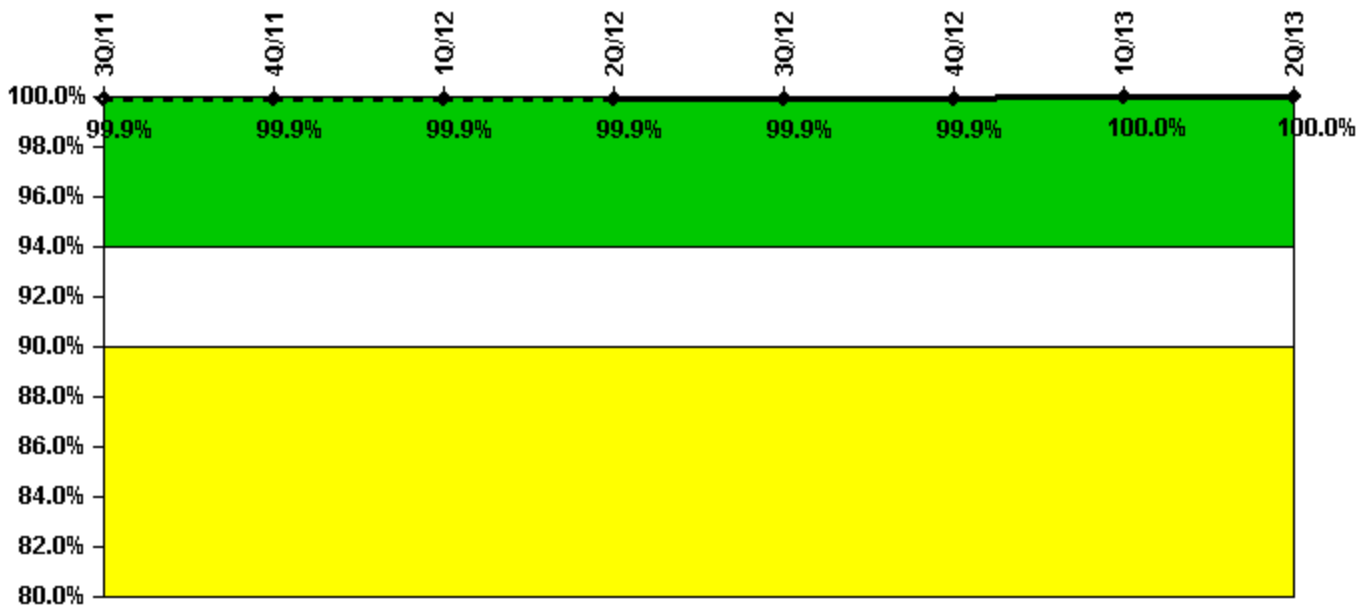
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Participating Key personnel	91.0	91.0	91.0	89.0	95.0	126.0	120.0	121.0
Total Key personnel	91.0	91.0	91.0	89.0	96.0	128.0	124.0	122.0
Indicator value	100.0%	100.0%	100.0%	100.0%	99.0%	98.4%	96.8%	99.2%

Licensee Comments: none

Alert & Notification System



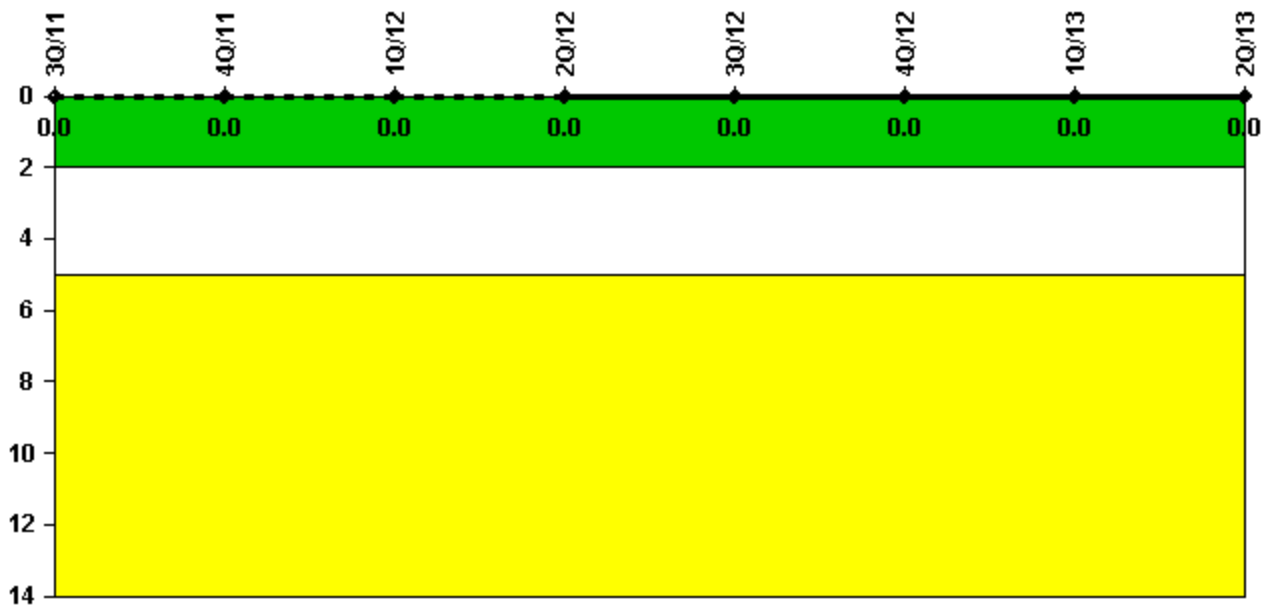
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	1120	1120	1118	1118	1120	1120	1120	1119
Total sirens-tests	1120	1120	1120	1119	1120	1120	1120	1119
Indicator value	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



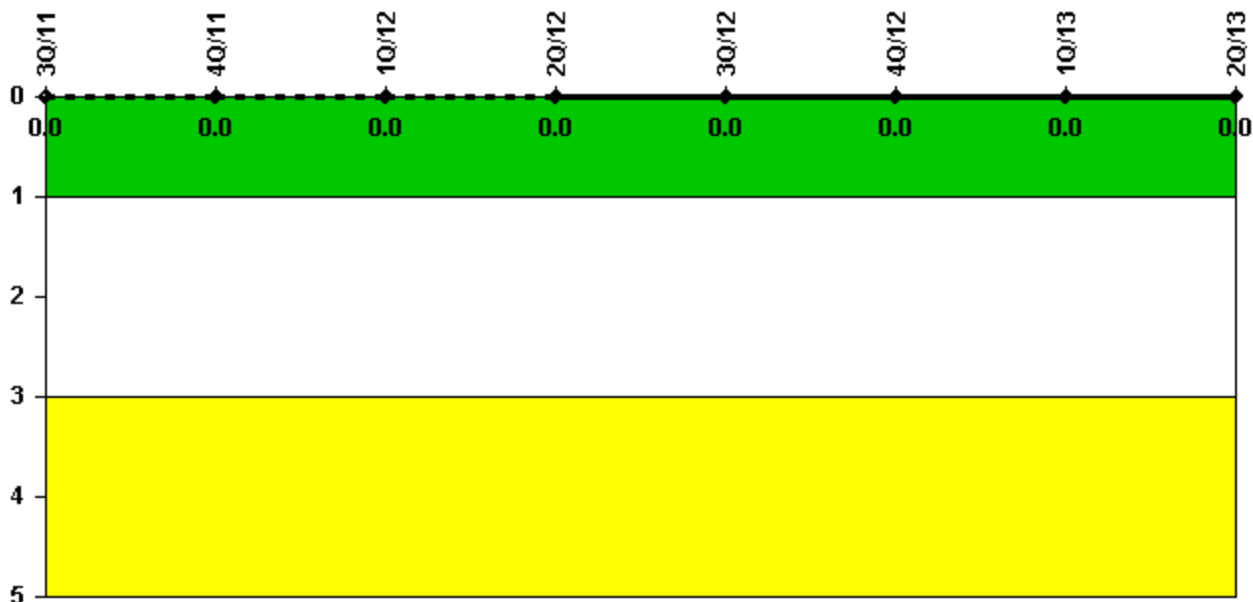
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/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	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/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: August 19, 2013