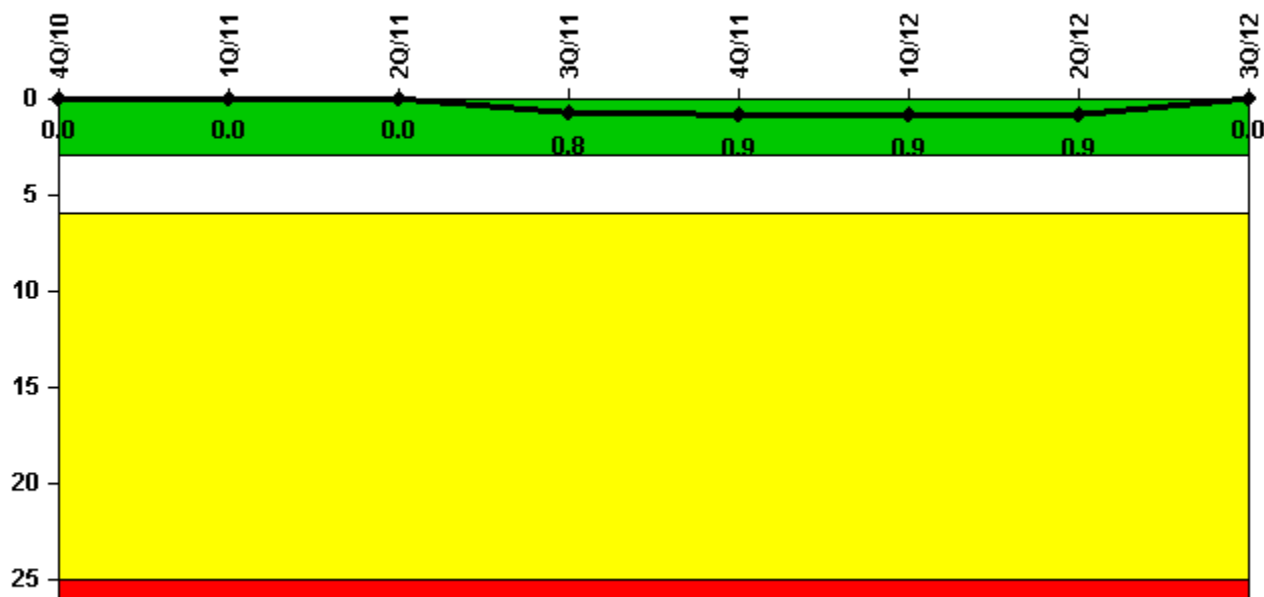


D.C. Cook 1

3Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

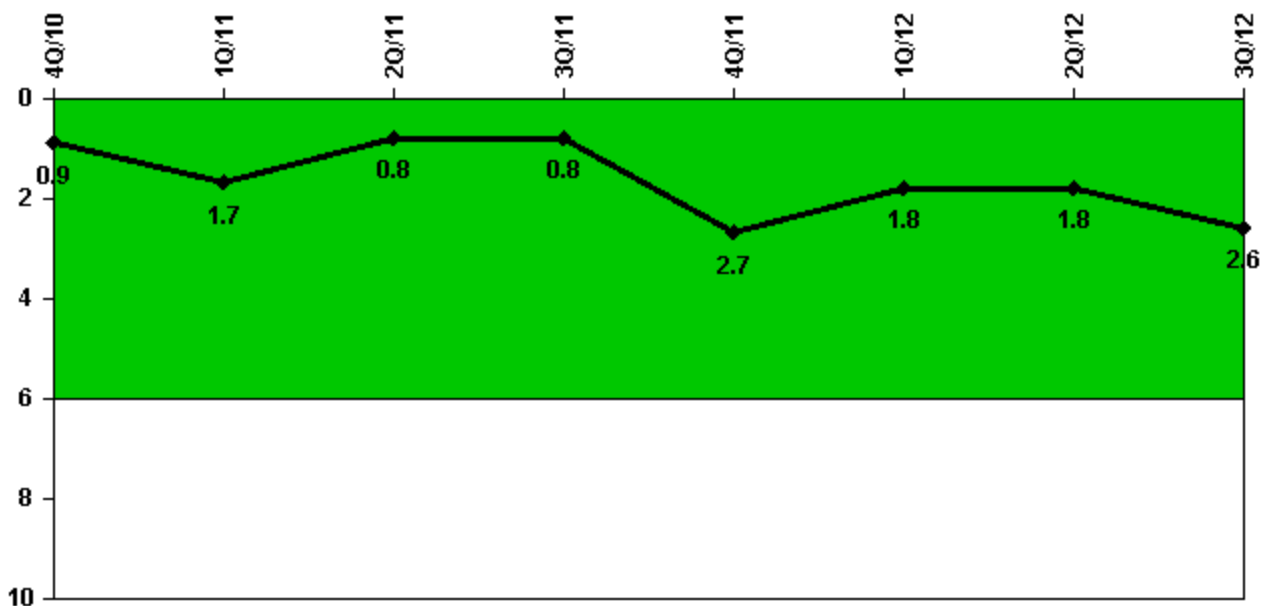
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2209.0	2031.6	2184.0	1916.6	1617.1	2183.0	2184.0	2208.0
Indicator value	0	0	0	0.8	0.9	0.9	0.9	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	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	0	1.0	0	0	2.0	0	0	1.0
Critical hours	2209.0	2031.6	2184.0	1916.6	1617.1	2183.0	2184.0	2208.0
Indicator value	0.9	1.7	0.8	0.8	2.7	1.8	1.8	2.6

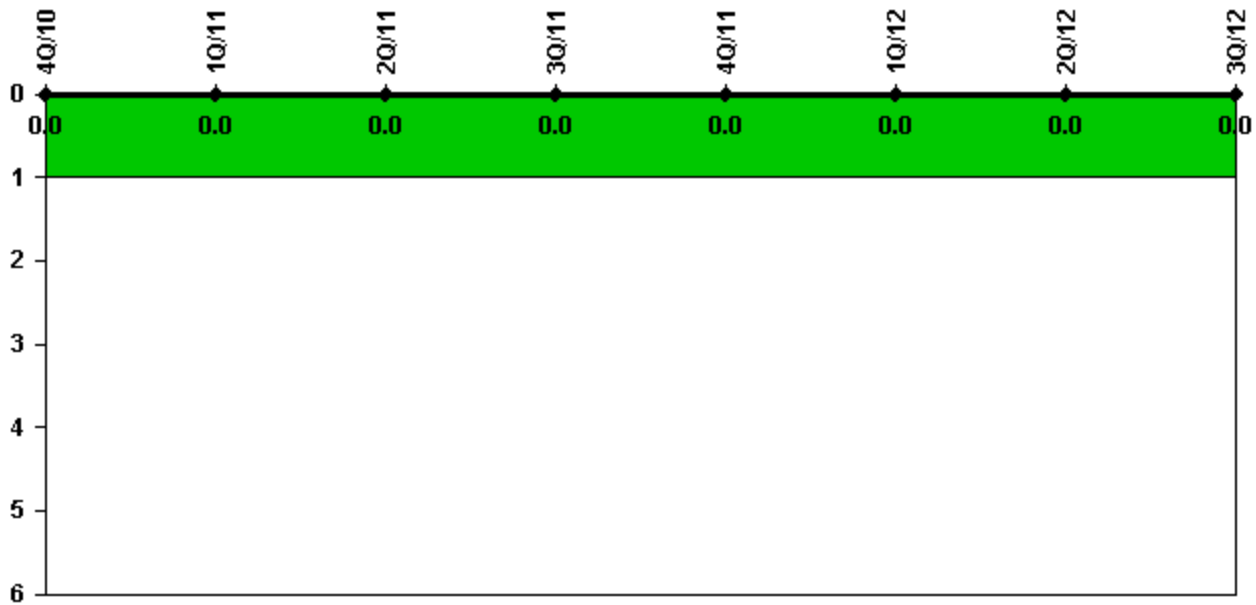
Licensee Comments:

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.

1Q/11: Data reflects unplanned power reduction from 100% to approximately 48% on February 17 for repair of steam leak on bleed steam system check valve

Unplanned Scrams with Complications



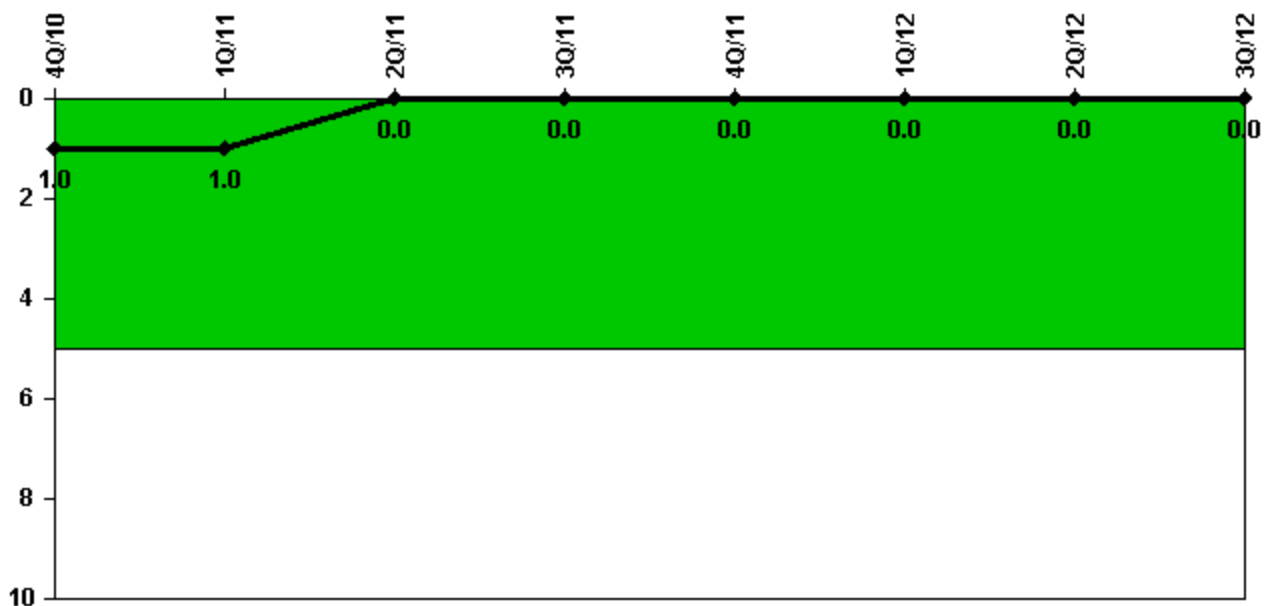
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
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)



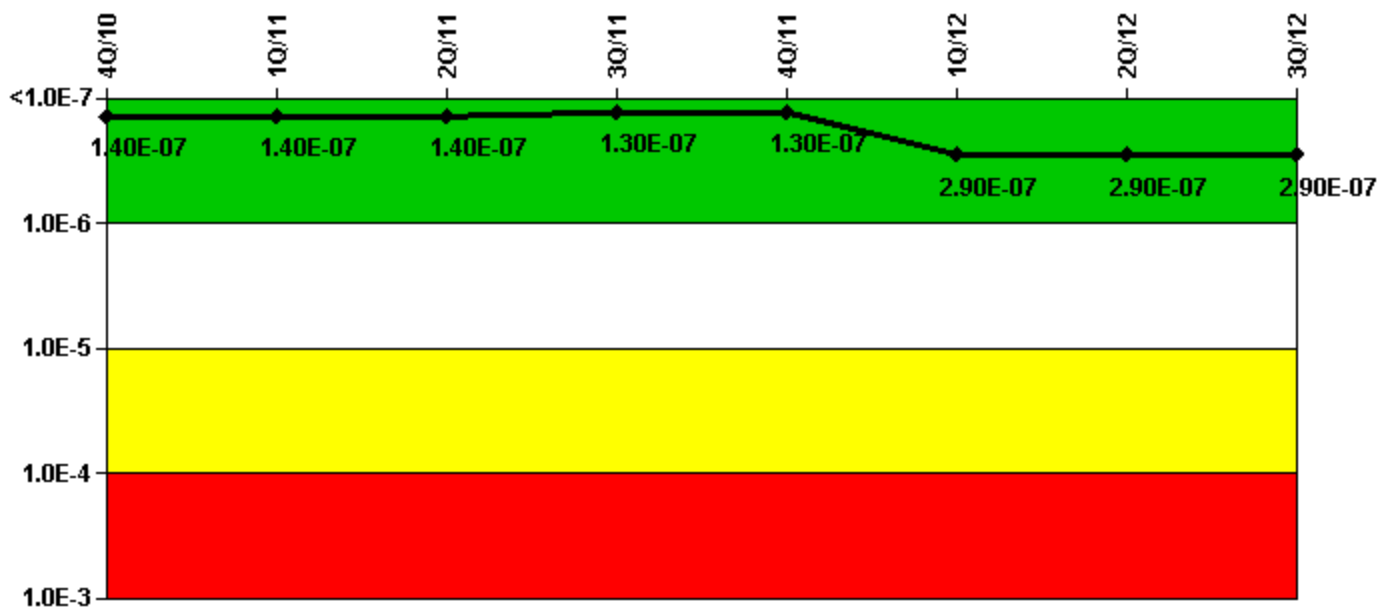
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	1	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



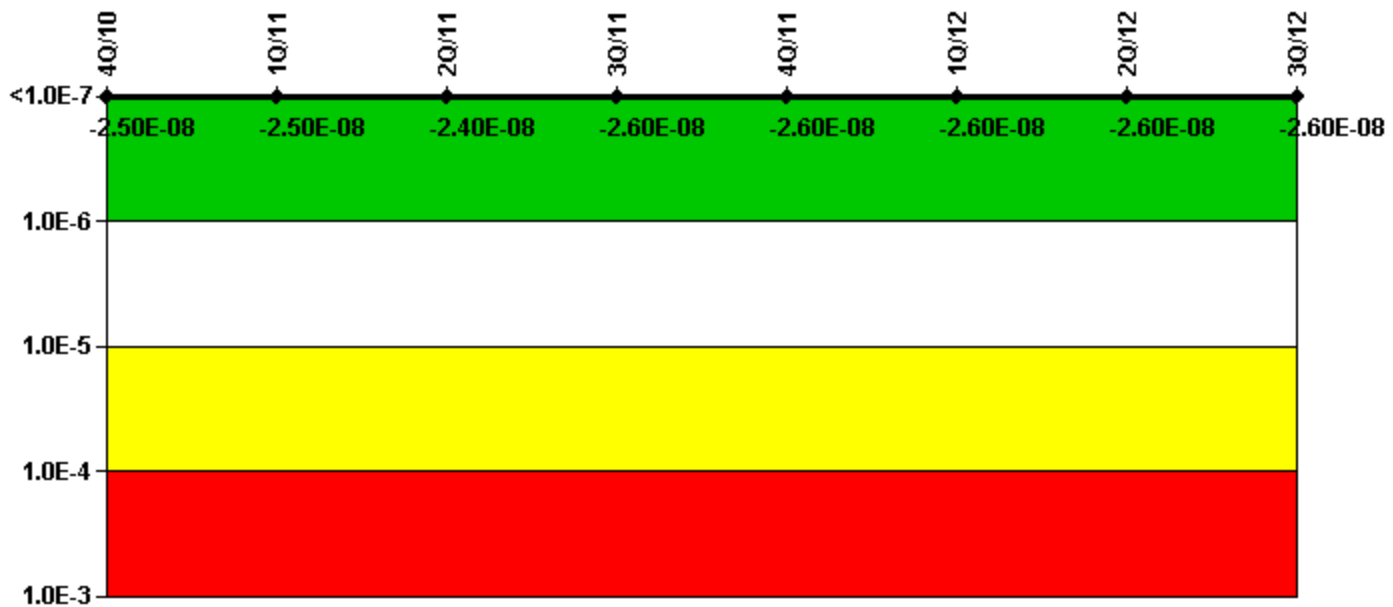
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	6.21E-10	6.19E-10	5.74E-10	5.80E-10	4.86E-10	4.87E-10	4.00E-10	3.29E-10
URI (Δ CDF)	1.35E-07	1.35E-07	1.35E-07	1.33E-07	1.33E-07	2.85E-07	2.85E-07	2.85E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.40E-07	1.40E-07	1.40E-07	1.30E-07	1.30E-07	2.90E-07	2.90E-07	2.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



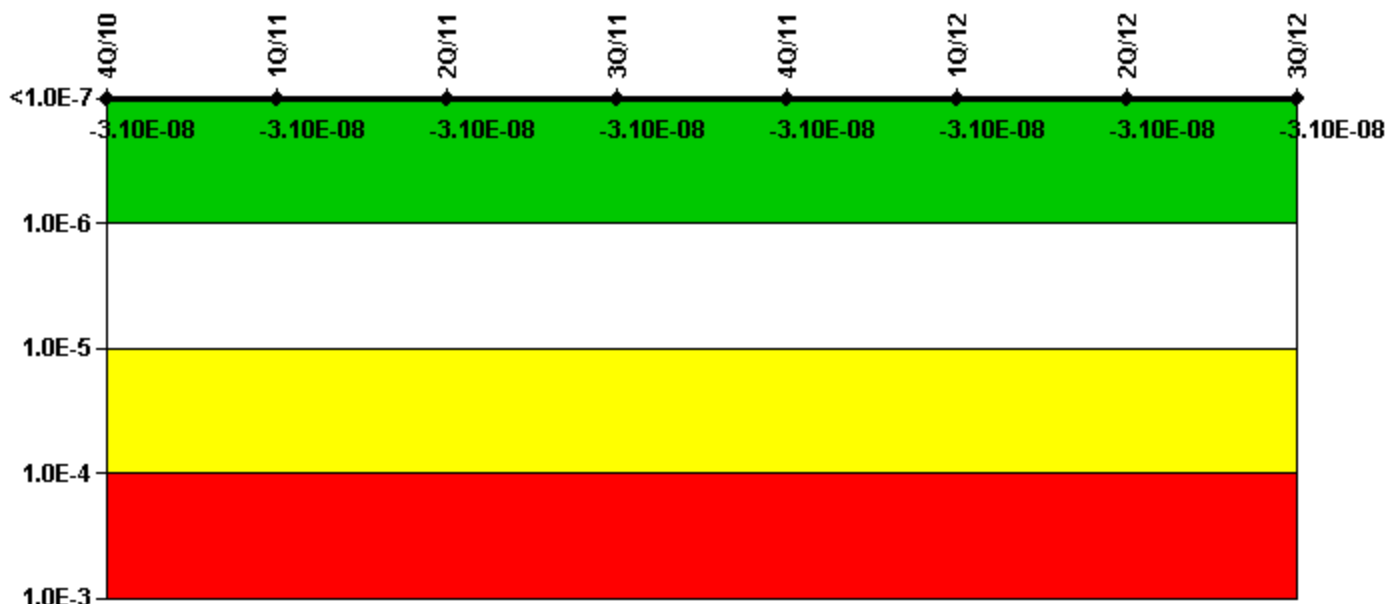
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-2.67E-11	-2.67E-11	-3.65E-12	-2.30E-12	-5.56E-12	-8.42E-12	-1.04E-11	-1.20E-11
URI (Δ CDF)	-2.51E-08	-2.51E-08	-2.41E-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	-2.50E-08	-2.50E-08	-2.40E-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



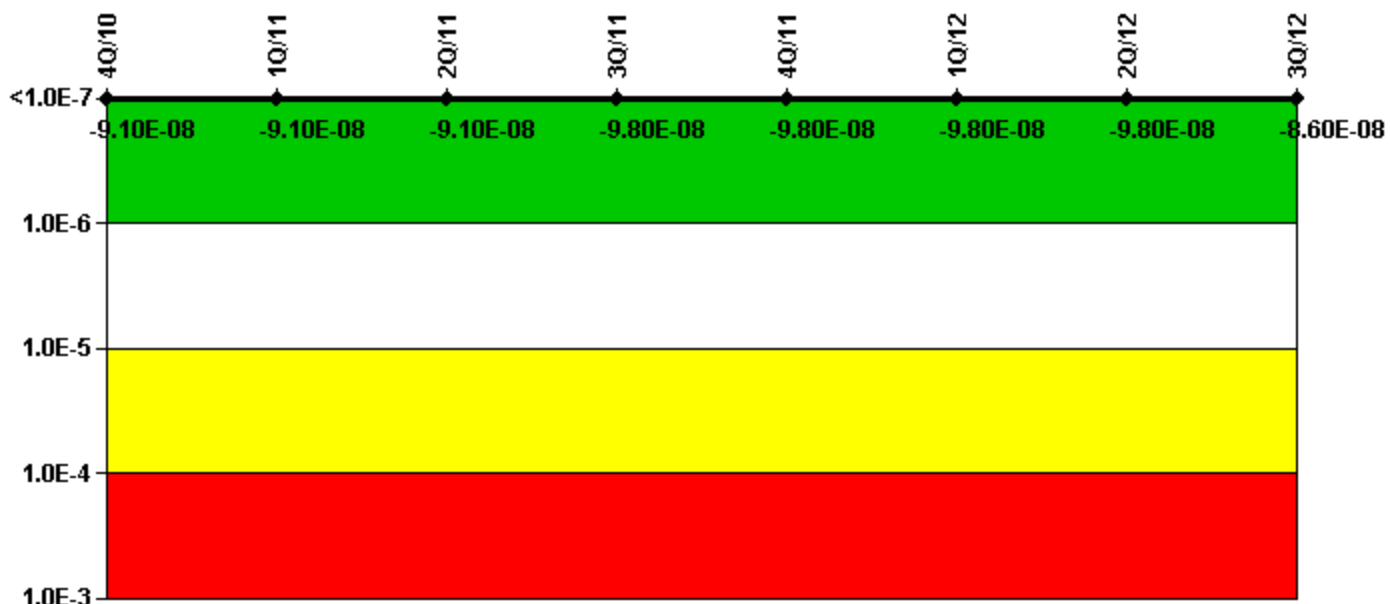
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-2.86E-11	-2.86E-11	-2.15E-11	-2.01E-11	-2.37E-11	-2.47E-11	-2.80E-11	-2.86E-11
URI (Δ CDF)	-3.06E-08	-3.06E-08	-3.06E-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

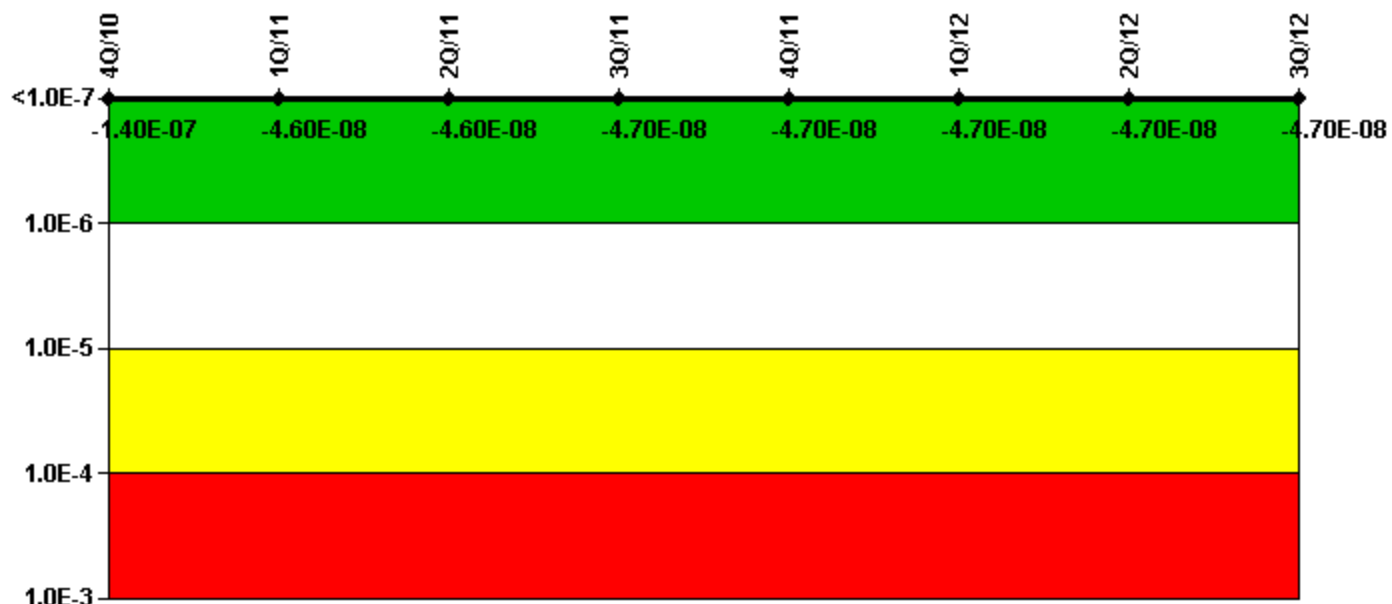
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-3.23E-13	-3.23E-13	-3.23E-13	-2.18E-13	-3.05E-13	-3.23E-13	-3.23E-13	-3.23E-13
URI (Δ CDF)	-9.13E-08	-9.13E-08	-9.13E-08	-9.76E-08	-9.76E-08	-9.76E-08	-9.76E-08	-8.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.10E-08	-9.10E-08	-9.10E-08	-9.80E-08	-9.80E-08	-9.80E-08	-9.80E-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



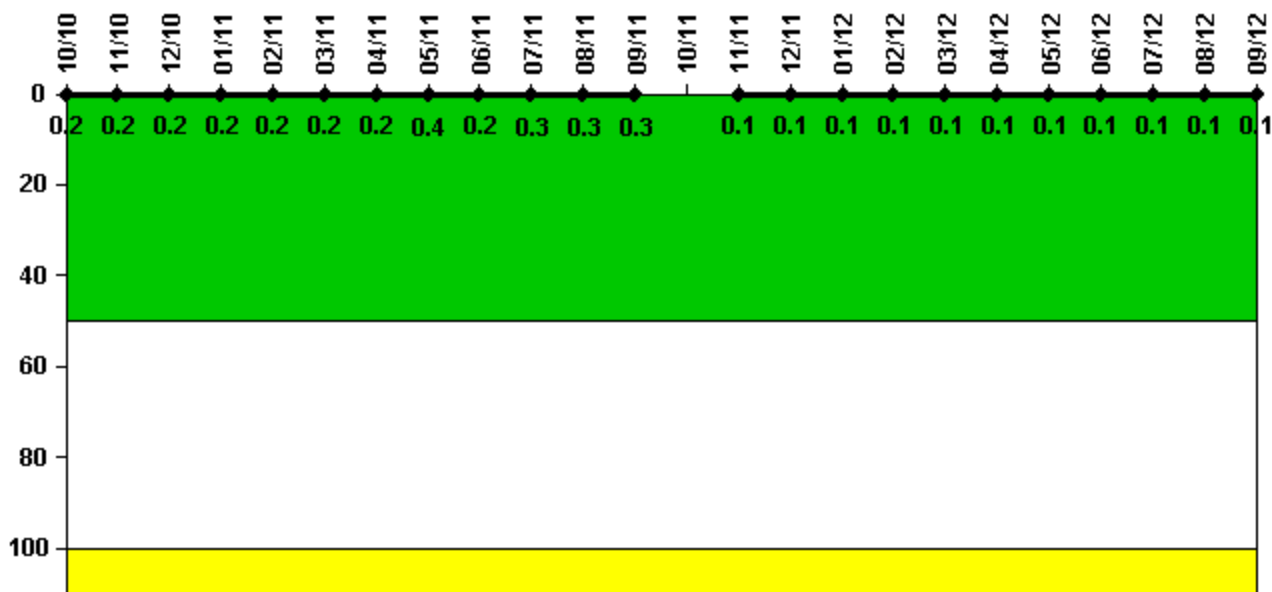
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-3.23E-12	3.95E-11	6.25E-11	6.36E-11	4.62E-11	4.25E-11	2.77E-11	1.95E-11
URI (Δ CDF)	-1.42E-07	-4.58E-08	-4.58E-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	-1.40E-07	-4.60E-08	-4.60E-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

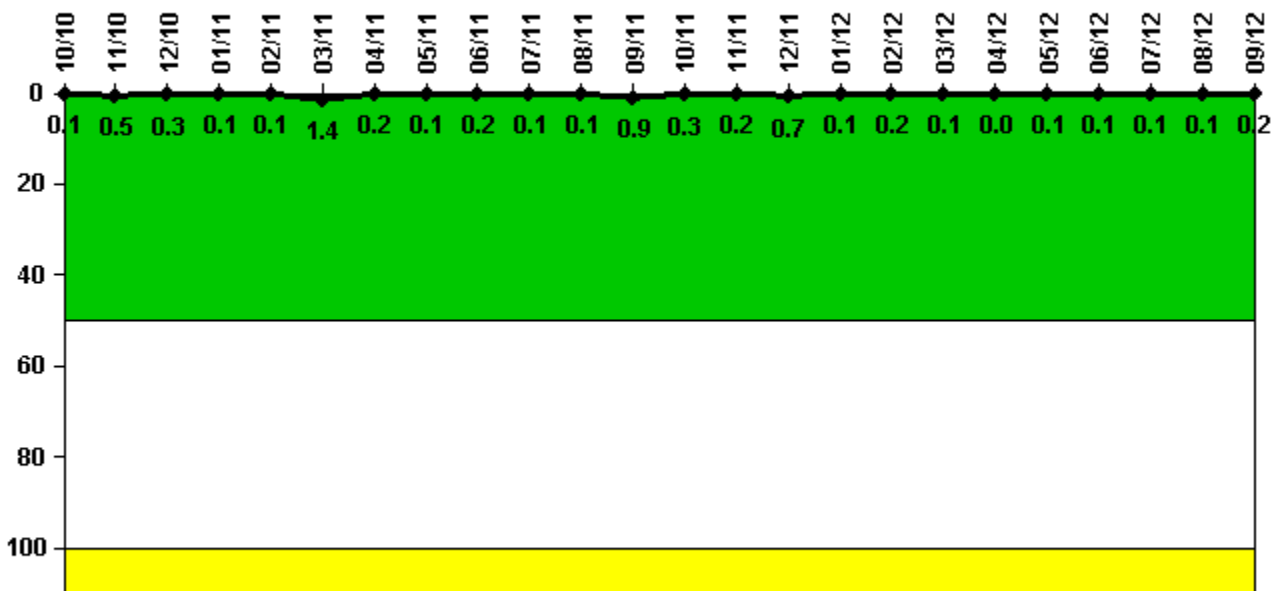
Notes

Reactor Coolant System Activity	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum activity	0.001580	0.001560	0.001610	0.001680	0.001750	0.001760	0.002300	0.003800	0.002470	0.002560	0.002610	0.003030
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.3	0.3	0.3
Reactor Coolant System Activity	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum activity	N/A	0.000843	0.000793	0.000850	0.000885	0.000932	0.000939	0.000977	0.001050	0.001100	0.001140	0.001170
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	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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



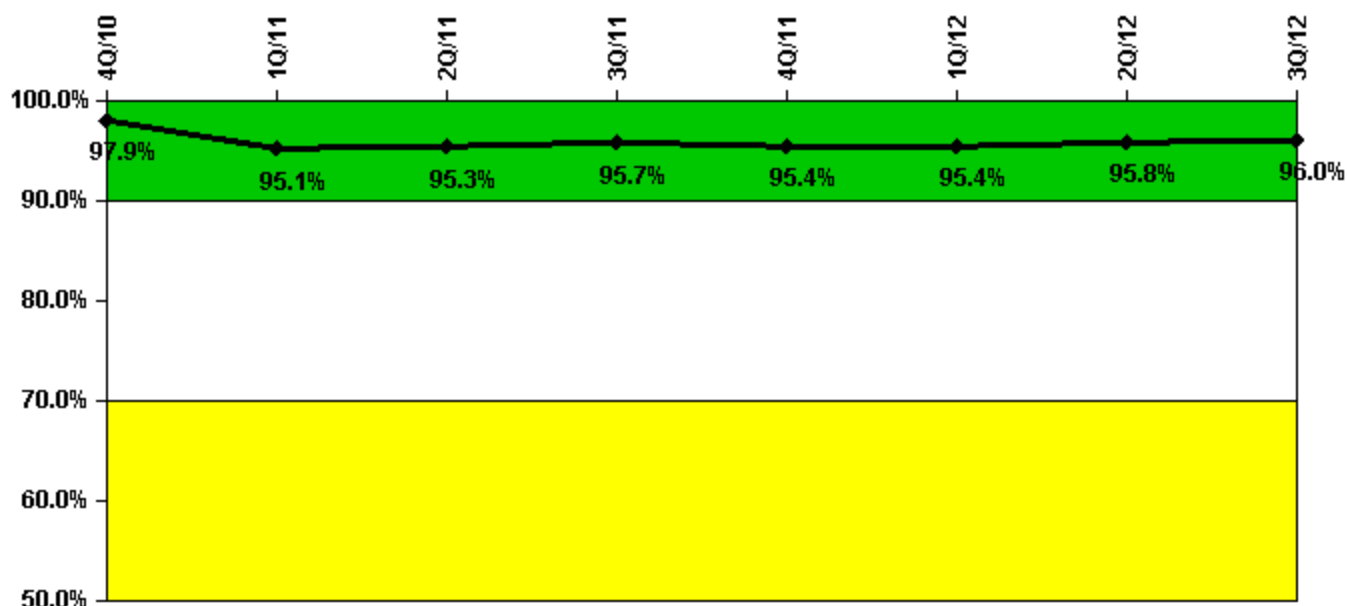
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	0.013	0.057	0.028	0.011	0.015	0.150	0.026	0.015	0.024	0.012	0.009	0.094
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	0.5	0.3	0.1	0.1	1.4	0.2	0.1	0.2	0.1	0.1	0.9
Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	0.036	0.020	0.075	0.009	0.017	0.012	0.005	0.012	0.012	0.013	0.012	0.018
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	0.3	0.2	0.7	0.1	0.2	0.1	0	0.1	0.1	0.1	0.1	0.2

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

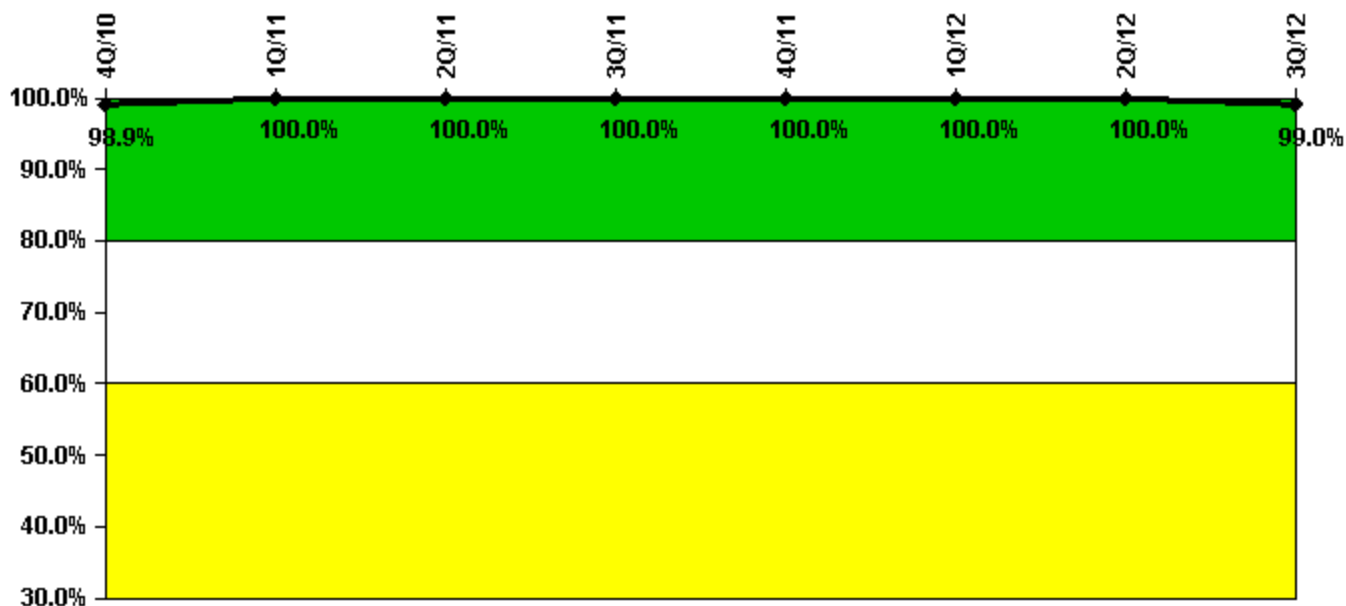
Notes

Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	19.0	43.0	16.0	41.0	0	34.0	24.0	41.0
Total opportunities	19.0	50.0	16.0	41.0	0	35.0	25.0	41.0
Indicator value	97.9%	95.1%	95.3%	95.7%	95.4%	95.4%	95.8%	96.0%

Licensee Comments:

1Q/11: Previously submitted data for February 2011 was revised to correct an error in grading drill results. Data was changed from "19 of 21 successful" to "18 of 21 successful". This changes the first quarter 2011 total from "44 of 50 successful" to "43 of 50 successful". This change has no impact on performance indicator color.

ERO Drill Participation



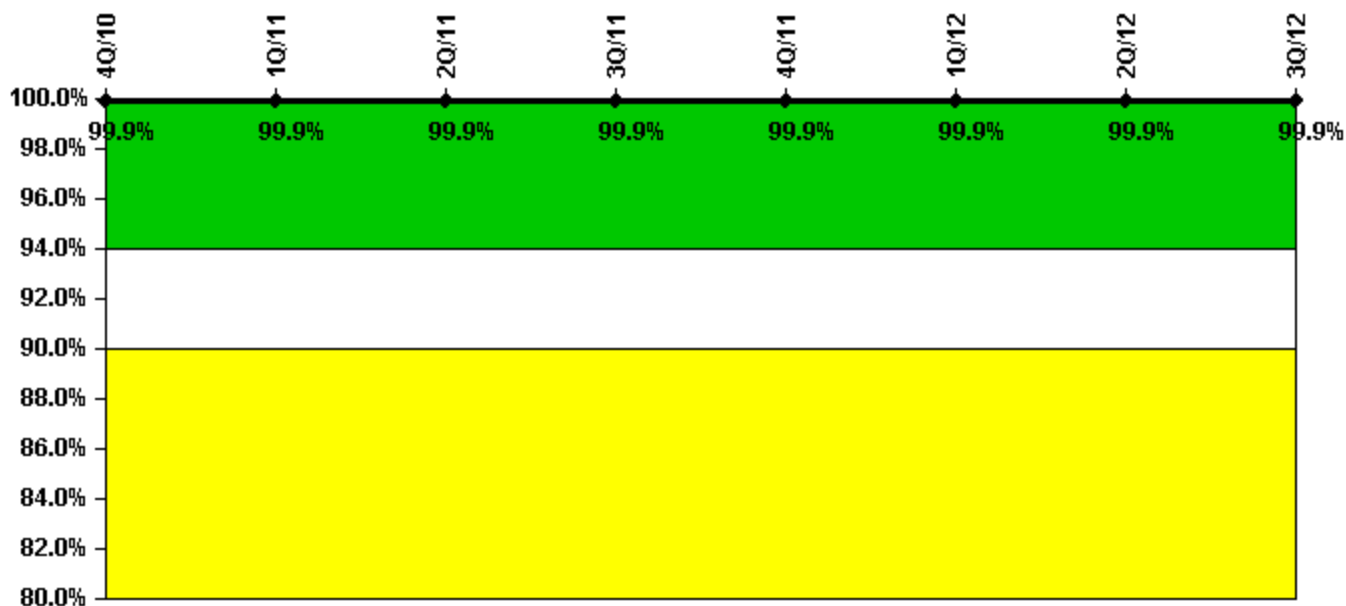
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Participating Key personnel	94.0	92.0	92.0	91.0	91.0	91.0	89.0	95.0
Total Key personnel	95.0	92.0	92.0	91.0	91.0	91.0	89.0	96.0
Indicator value	98.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.0%

Licensee Comments: none

Alert & Notification System



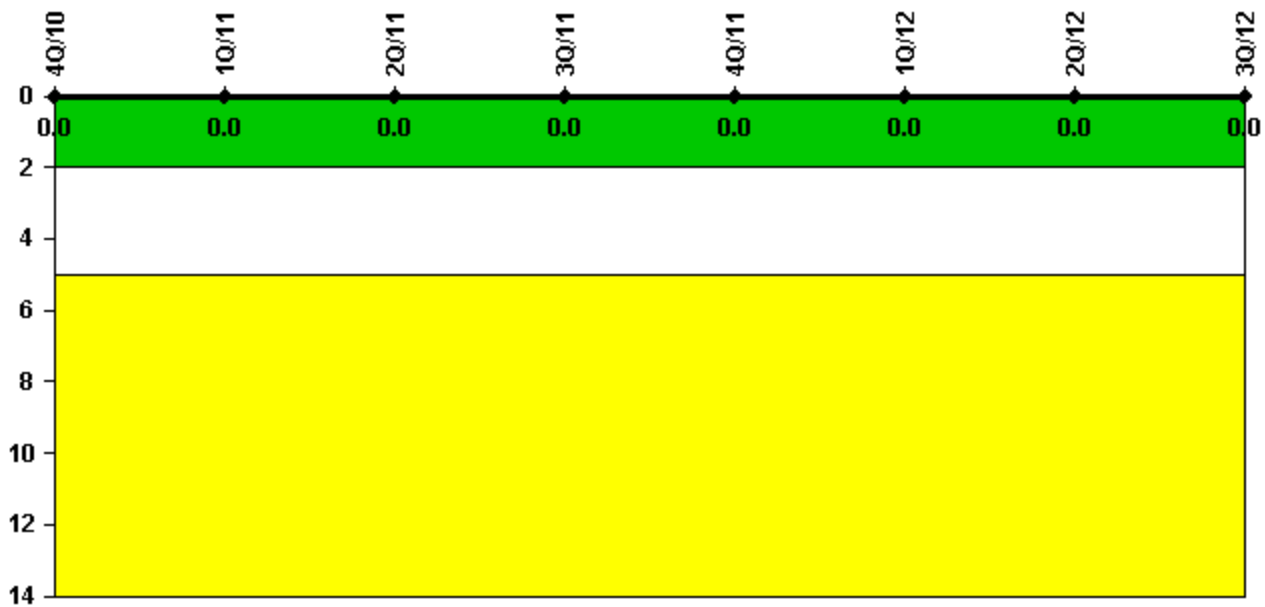
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	1118	1119	1117	1120	1120	1118	1118	1120
Total sirens-tests	1120	1120	1119	1120	1120	1120	1119	1120
Indicator value	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



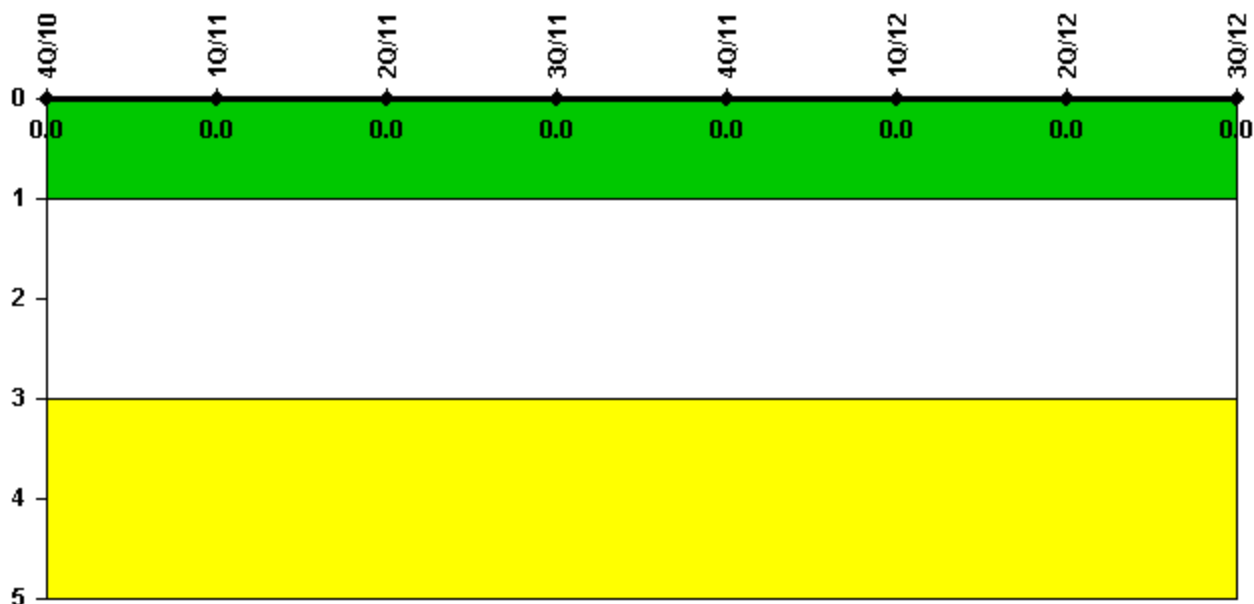
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
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	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
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: October 24, 2012