

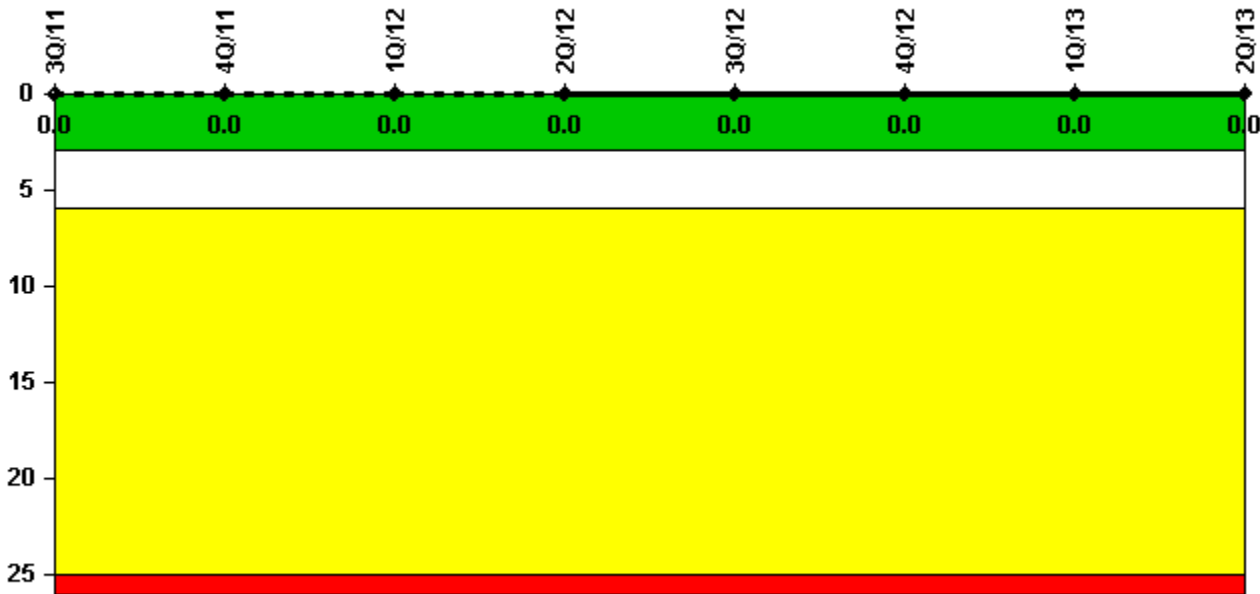
Beaver Valley 1

2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: The Beaver Valley Power Station Unit 1 PRA Model Revision 5a was approved on 01/11/13 with a corresponding MSPI Basis Document Revision 7 approved on 06/30/13. The PRA model update was an interim revision to primarily incorporate an updated internal flooding analysis based on the latest EPRI methodology and pipe rupture frequencies. The BVPS-1 Revision 5A PRA model is now in compliance with RG 1.200, Revision 1. As a result of this interim PRA model issuance, the CDF, Fussell-Vesely, Birnbaum, and Probabilities for monitored trains and components were revised.

Unplanned Scrams per 7000 Critical Hrs



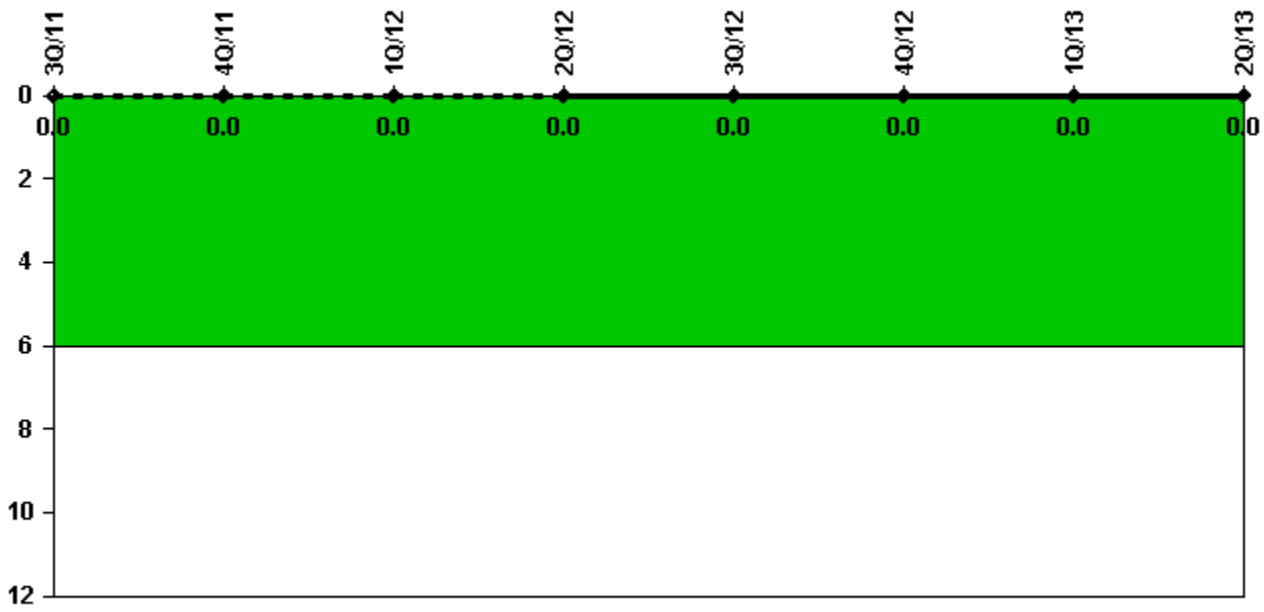
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	1424.0	2208.0	2209.0	2159.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



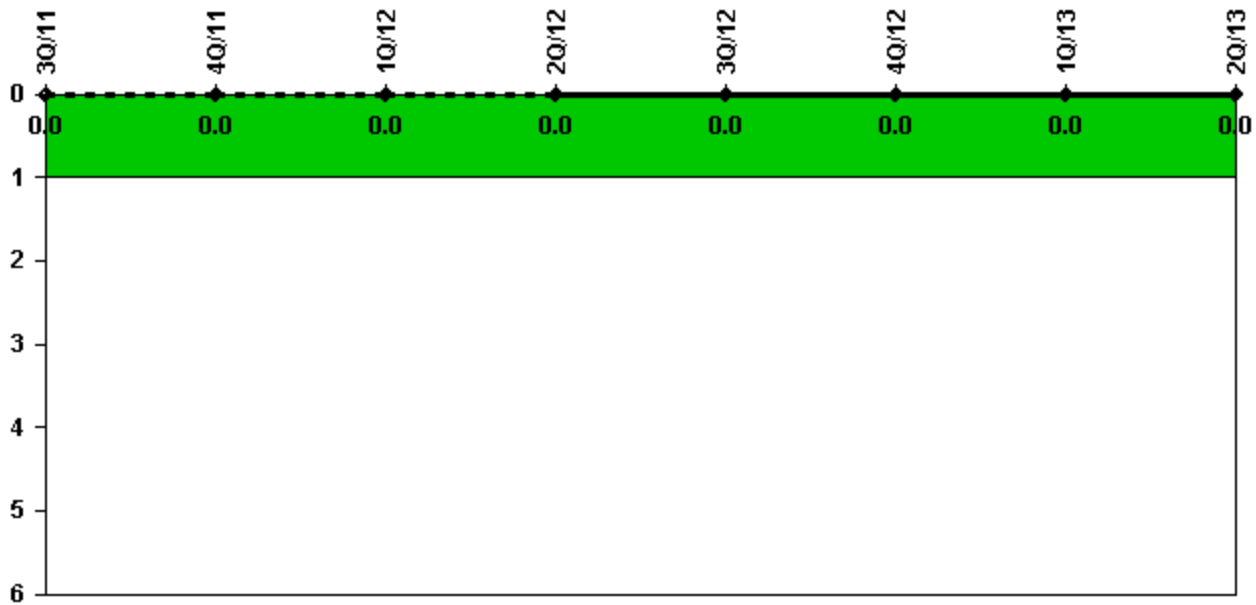
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	1424.0	2208.0	2209.0	2159.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



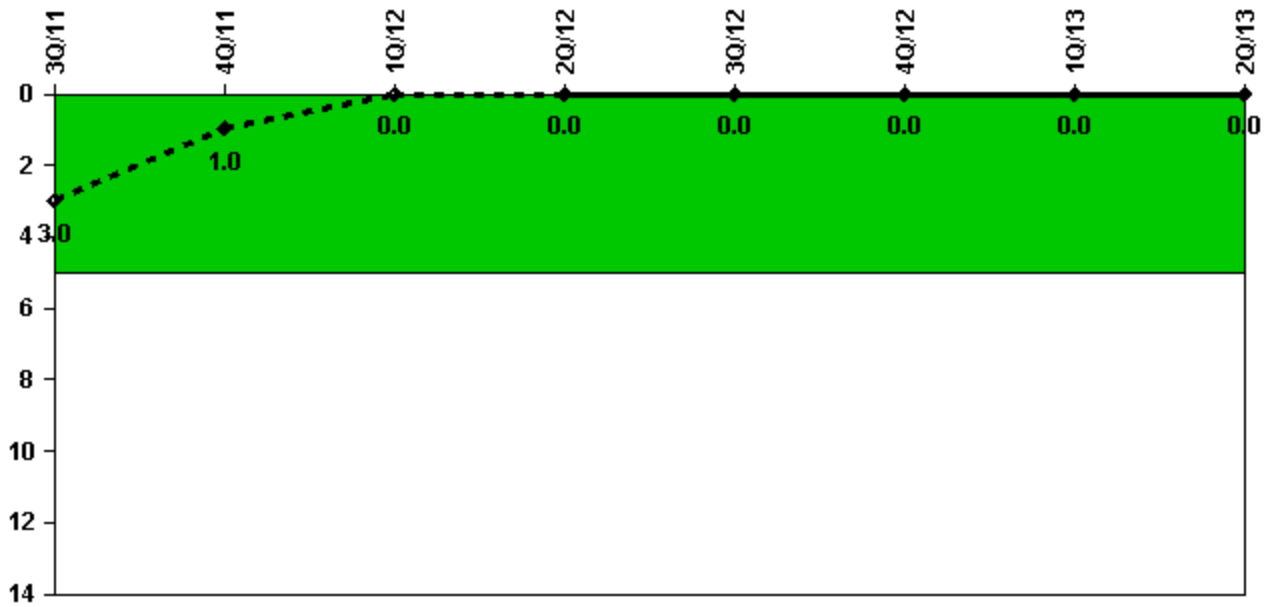
Thresholds: White > 1.0

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)



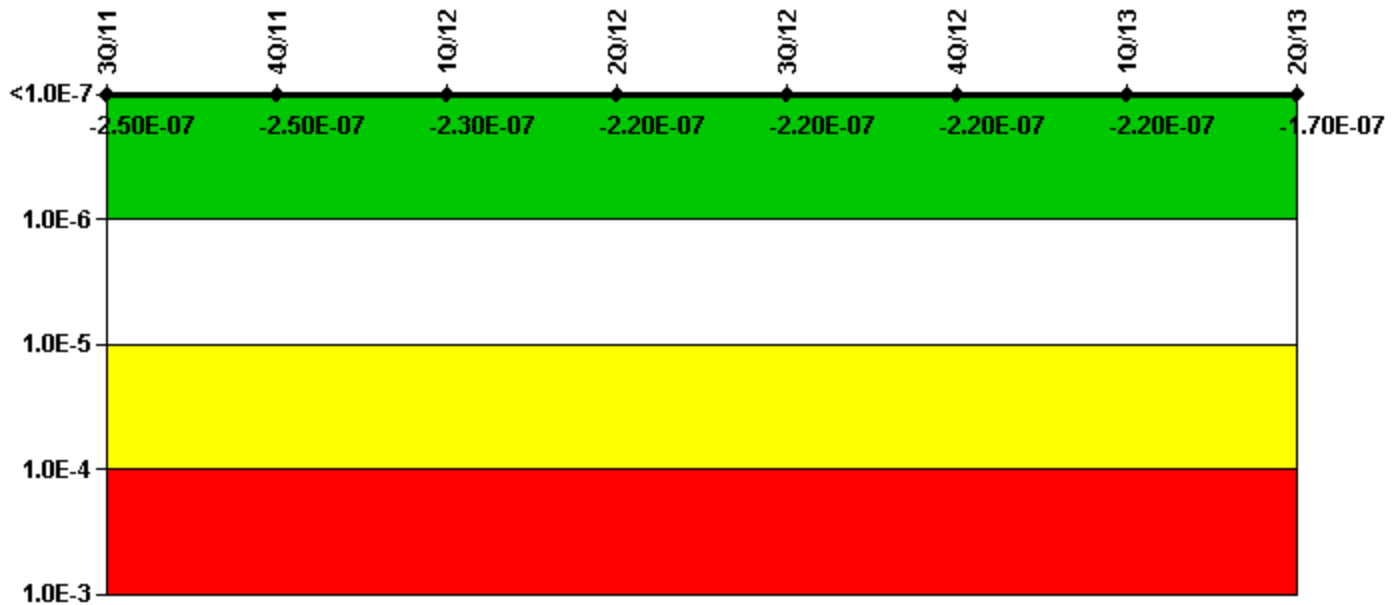
Thresholds: White > 5.0

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	3	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	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-2.23E-08	-2.22E-08	-9.06E-09	-8.80E-09	-1.44E-08	-1.60E-08	-1.35E-08	-9.43E-09
URI (Δ CDF)	-2.23E-07	-2.23E-07	-2.19E-07	-2.14E-07	-2.10E-07	-2.06E-07	-2.02E-07	-1.63E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-07	-2.50E-07	-2.30E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-1.70E-07

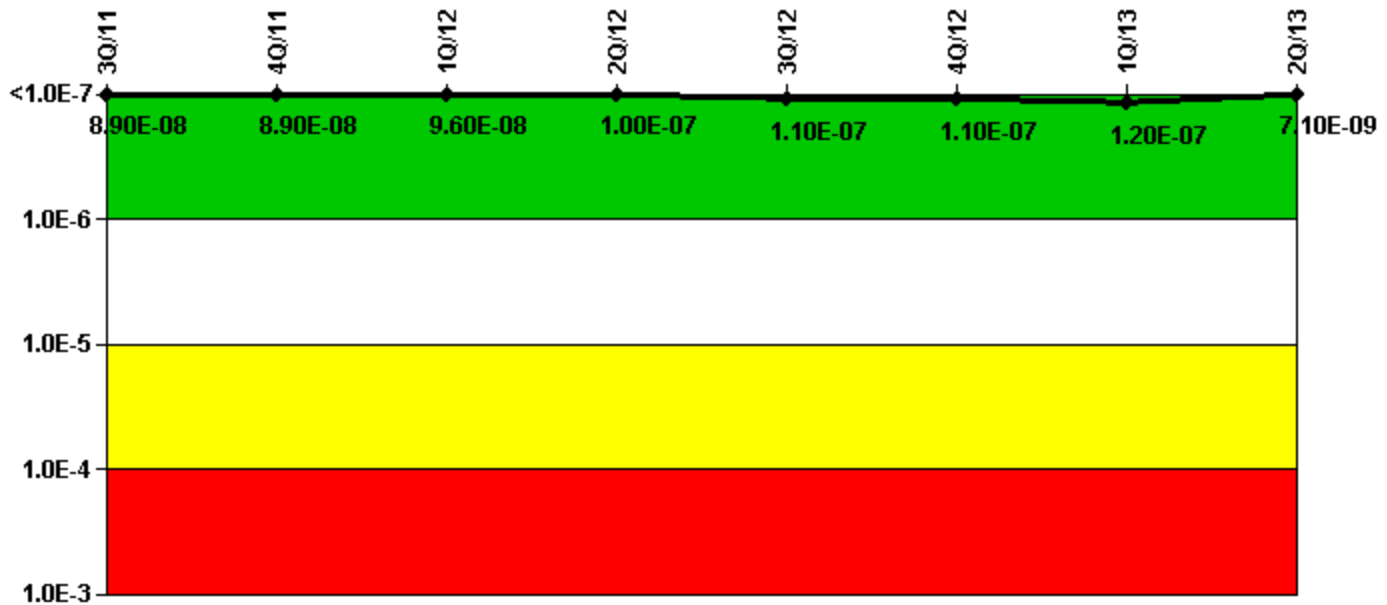
Licensee Comments:

2Q/13: Changed PRA Parameter(s).

1Q/12: Revised unavailability monitoring of the fuel oil transfer pumps per FAQ 484 and EDG run hours per FAQ 480.

4Q/11: Train B Planned Unavailable hours changed from 3.10 to 3.60 documented in CR-2012-01746 for testing done in December 2011. This does not cause an indicator color change.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

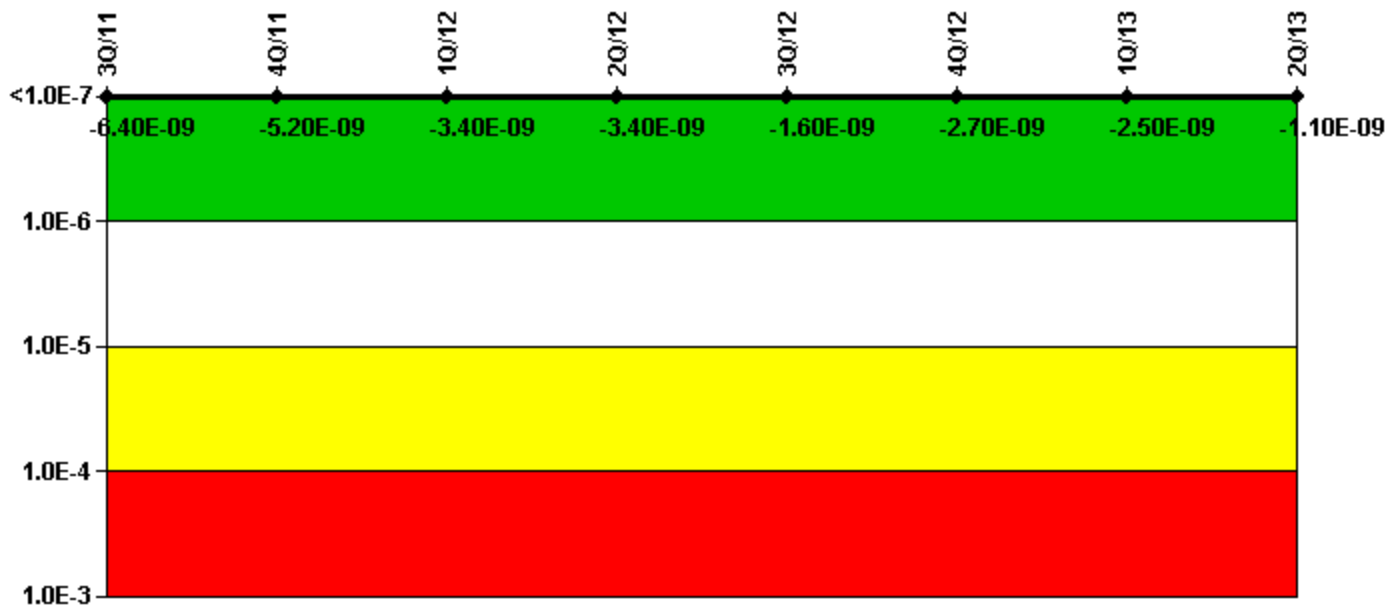
Mitigating Systems Performance Index, High Pressure Injection System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-3.35E-08	-3.35E-08	-3.21E-08	-3.11E-08	-3.13E-08	-3.35E-08	-3.35E-08	-1.89E-09
URI (Δ CDF)	1.23E-07	1.23E-07	1.28E-07	1.33E-07	1.38E-07	1.43E-07	1.49E-07	8.96E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.90E-08	8.90E-08	9.60E-08	1.00E-07	1.10E-07	1.10E-07	1.20E-07	7.10E-09

Licensee Comments:

2Q/13: Changed PRA Parameter(s).

1Q/12: Frequency for testing of two HHSI suction isolation valves was changed from once per week to once per quarter. Changed estimated demands to match.

Mitigating Systems Performance Index, Heat Removal System



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

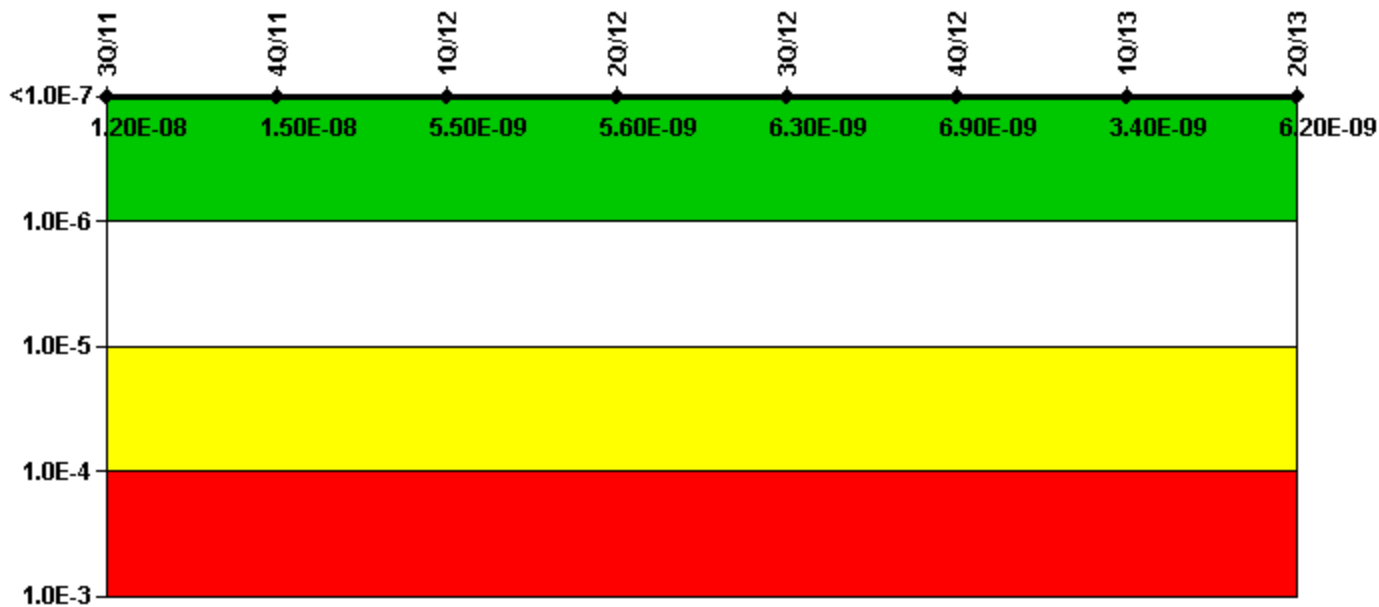
Notes

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)	-1.56E-09	-3.27E-10	1.39E-09	1.34E-09	3.18E-09	2.04E-09	2.21E-09	3.30E-09
URI (Δ CDF)	-4.84E-09	-4.84E-09	-4.84E-09	-4.75E-09	-4.75E-09	-4.75E-09	-4.75E-09	-4.40E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.40E-09	-5.20E-09	-3.40E-09	-3.40E-09	-1.60E-09	-2.70E-09	-2.50E-09	-1.10E-09

Licensee Comments:

2Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

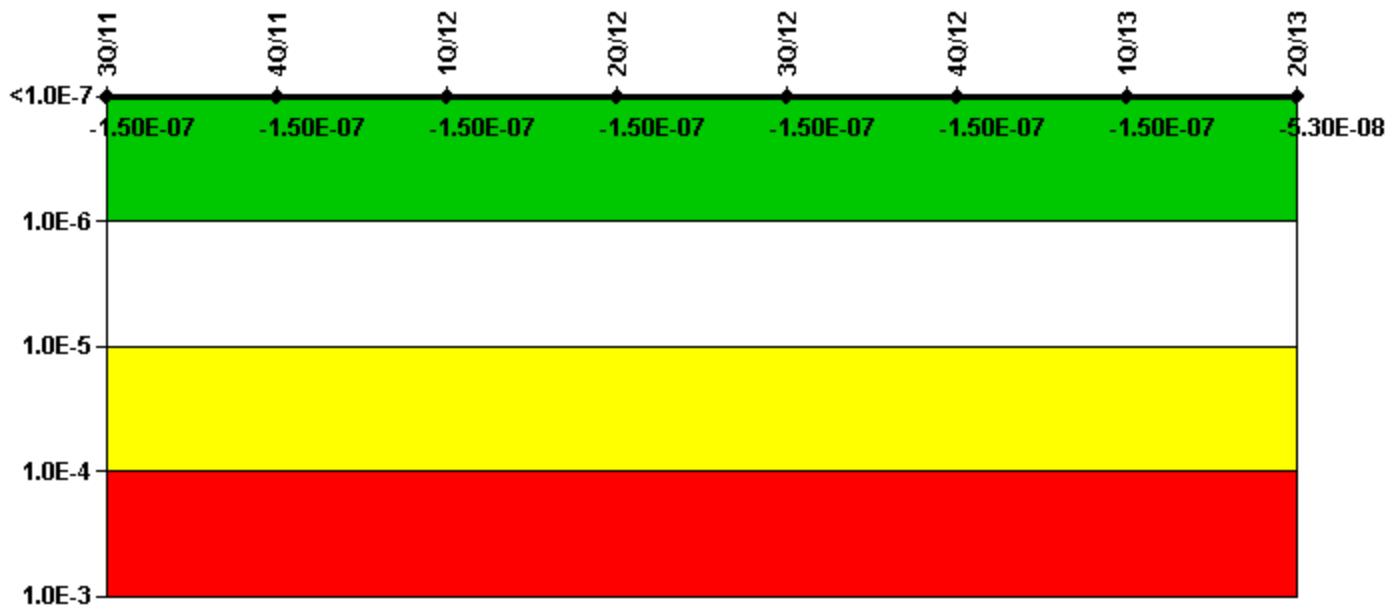
Notes

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)	1.54E-08	1.79E-08	8.80E-09	8.96E-09	9.62E-09	1.02E-08	6.78E-09	1.13E-08
URI (Δ CDF)	-3.35E-09	-3.35E-09	-3.35E-09	-3.35E-09	-3.35E-09	-3.35E-09	-3.35E-09	-5.15E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.20E-08	1.50E-08	5.50E-09	5.60E-09	6.30E-09	6.90E-09	3.40E-09	6.20E-09

Licensee Comments:

2Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

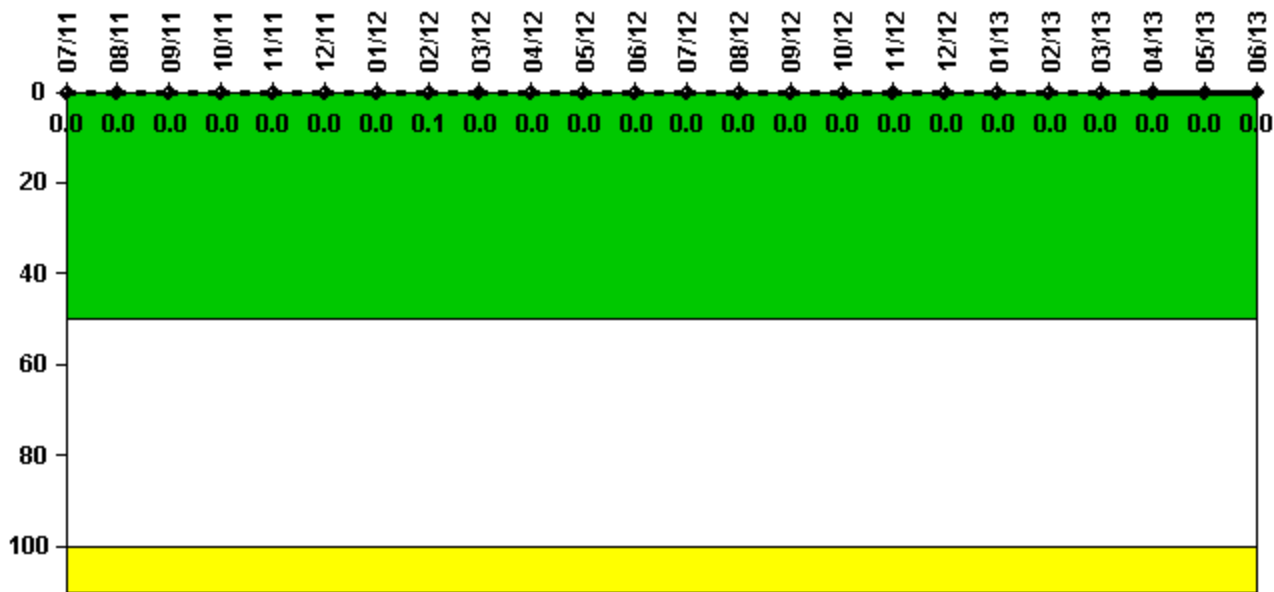
Notes

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)	-1.04E-07	-1.04E-07	-1.07E-07	-1.05E-07	-1.04E-07	-1.04E-07	-1.04E-07	-4.12E-08
URI (Δ CDF)	-4.32E-08	-4.32E-08	-4.32E-08	-4.32E-08	-4.32E-08	-4.32E-08	-4.32E-08	-1.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-5.30E-08

Licensee Comments:

2Q/13: Changed PRA Parameter(s).

Reactor Coolant System Activity



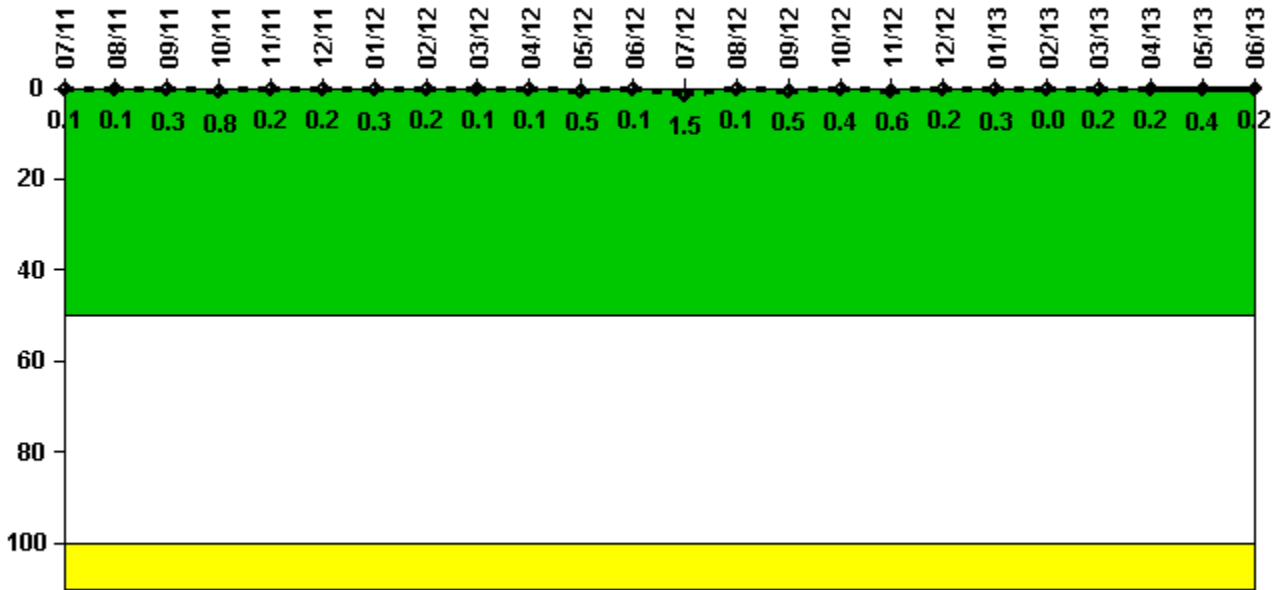
Thresholds: White > 50.0 Yellow > 100.0

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	0.000137	0.000145	0.000143	0.000153	0.000163	0.000160	0.000170	0.000184	0.000173	0.000164	0.000085	0.000094
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0	0	0.1	0	0	0	0
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	0.000093	0.000102	0.000115	0.000108	0.000110	0.000110	0.000120	0.000115	0.000127	0.000127	0.000142	0.000144
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

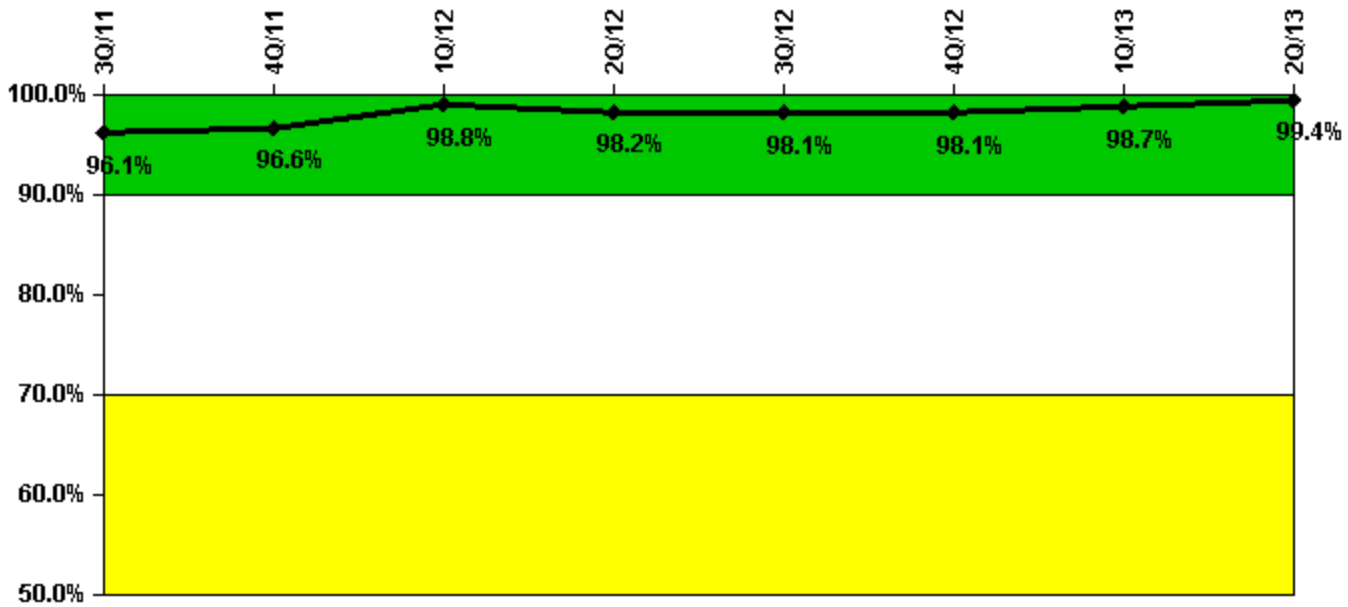
Notes

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	0.010	0.010	0.030	0.080	0.020	0.020	0.030	0.020	0.010	0.010	0.050	0.010
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	0.1	0.1	0.3	0.8	0.2	0.2	0.3	0.2	0.1	0.1	0.5	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	0.150	0.010	0.050	0.040	0.060	0.020	0.030	0	0.020	0.020	0.040	0.020
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	1.5	0.1	0.5	0.4	0.6	0.2	0.3	0	0.2	0.2	0.4	0.2

Licensee Comments: none

Drill/Exercise Performance



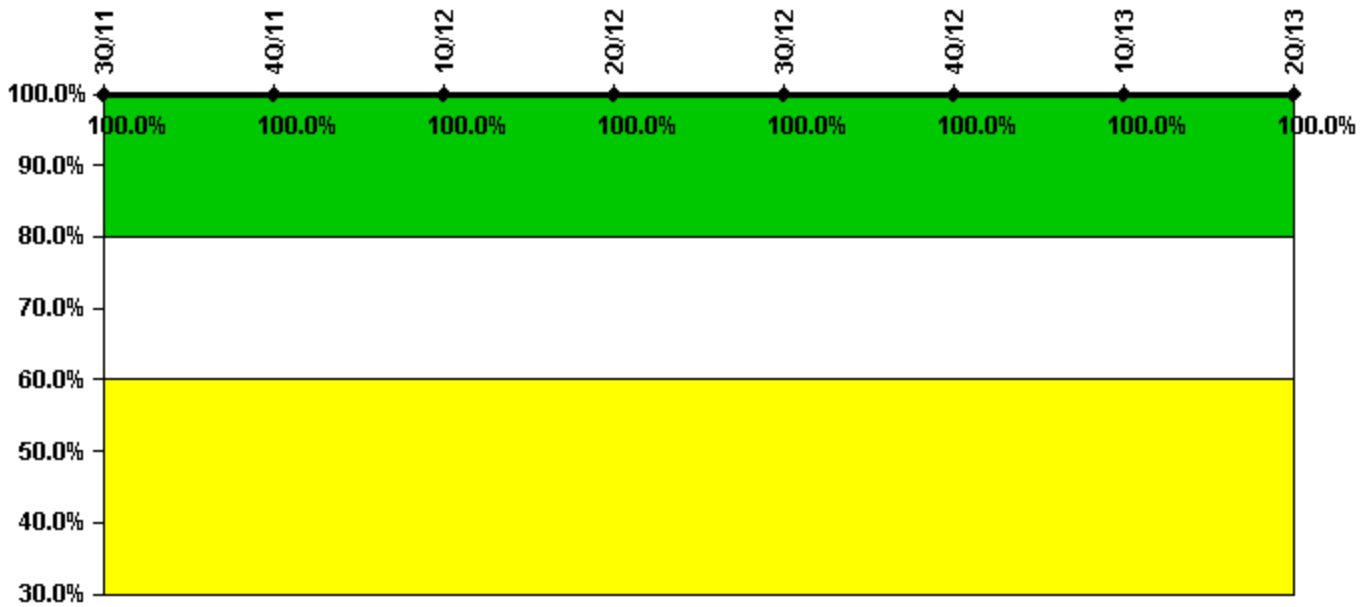
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful opportunities	18.0	26.0	17.0	47.0	20.0	6.0	7.0	28.0
Total opportunities	18.0	26.0	17.0	48.0	20.0	6.0	7.0	28.0
Indicator value	96.1%	96.6%	98.8%	98.2%	98.1%	98.1%	98.7%	99.4%

Licensee Comments: none

ERO Drill Participation



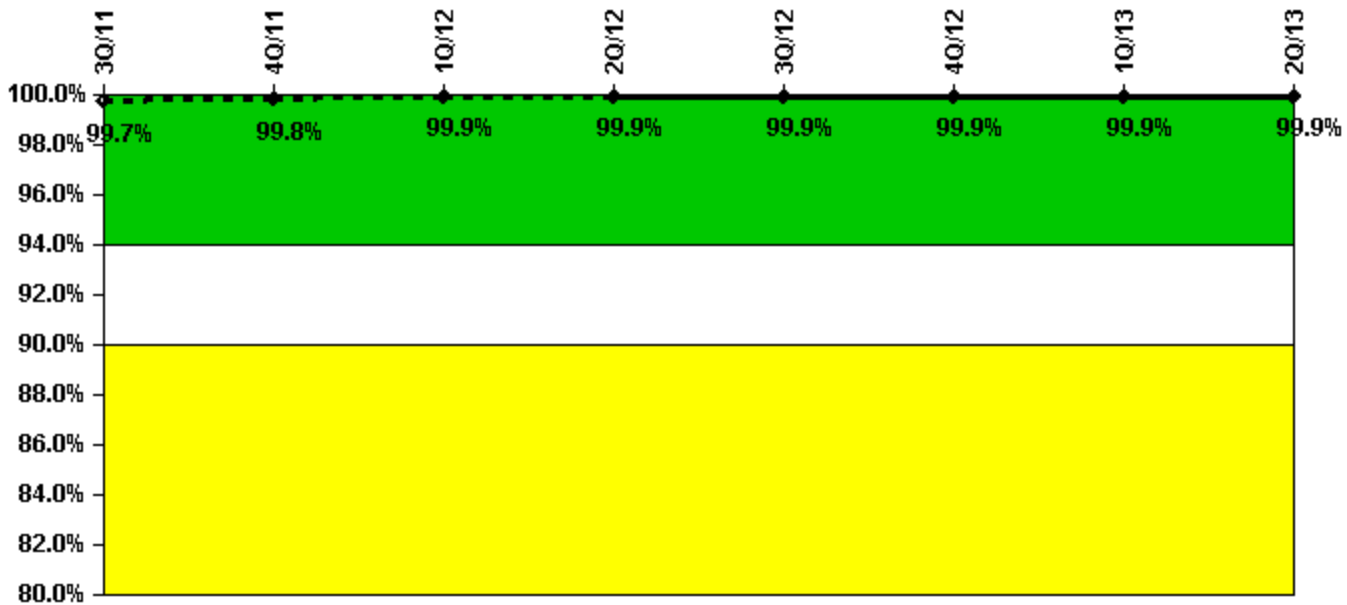
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Participating Key personnel	170.0	177.0	173.0	169.0	170.0	173.0	175.0	184.0
Total Key personnel	170.0	177.0	173.0	169.0	170.0	173.0	175.0	184.0
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%

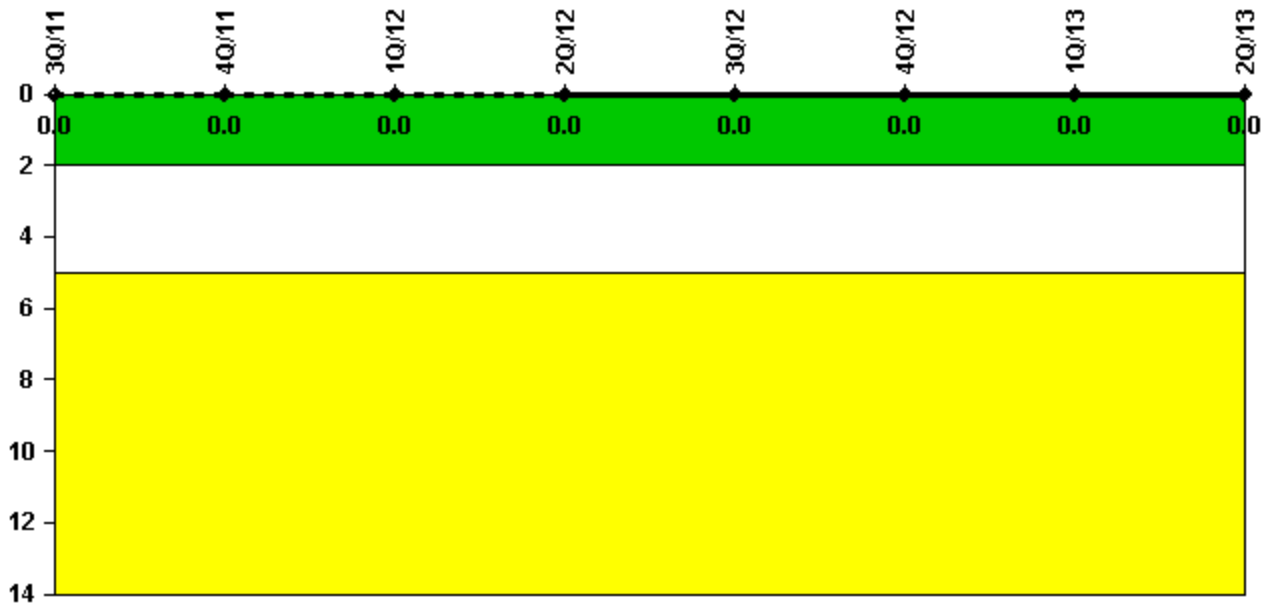
Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	1523	1560	1560	1559	1553	1560	1559	1560
Total sirens-tests	1527	1560	1560	1560	1560	1560	1560	1560
Indicator value	99.7%	99.8%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%

Licensee Comments:

3Q/11: This submittal includes a change in the reporting of the ANS Reliability. The revised Beaver Valley siren test plan that was approved by FEMA in a letter dated June 13, 2011, increased the amount of required siren tests that are reported under this performance indicator.

Occupational Exposure Control Effectiveness



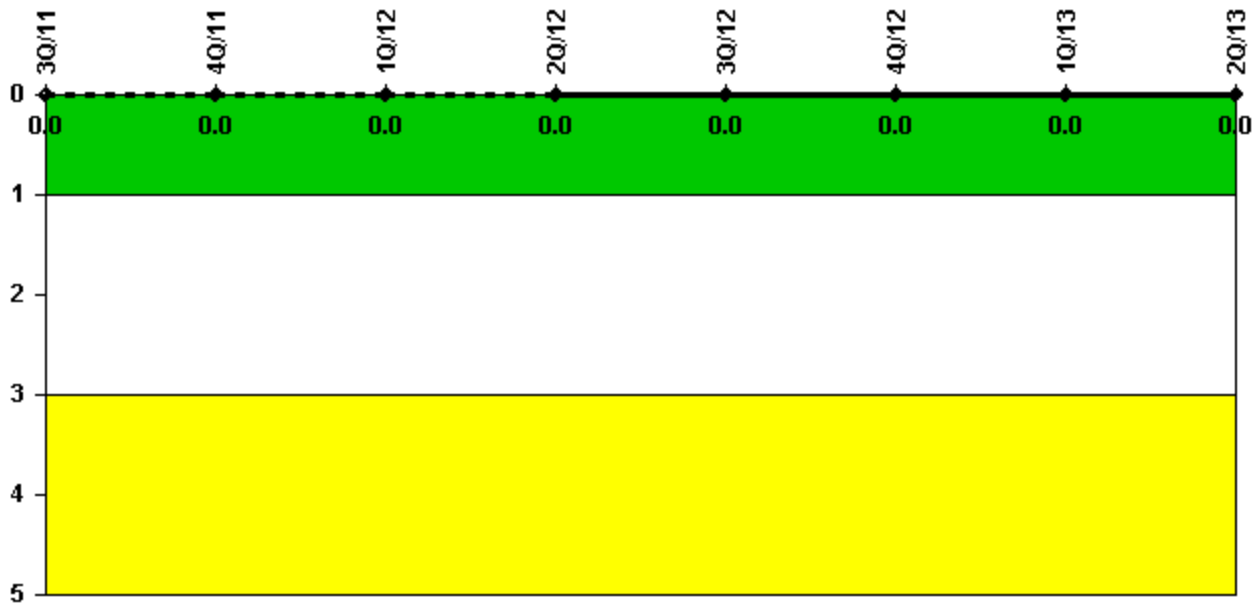
Thresholds: White > 2.0 Yellow > 5.0

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