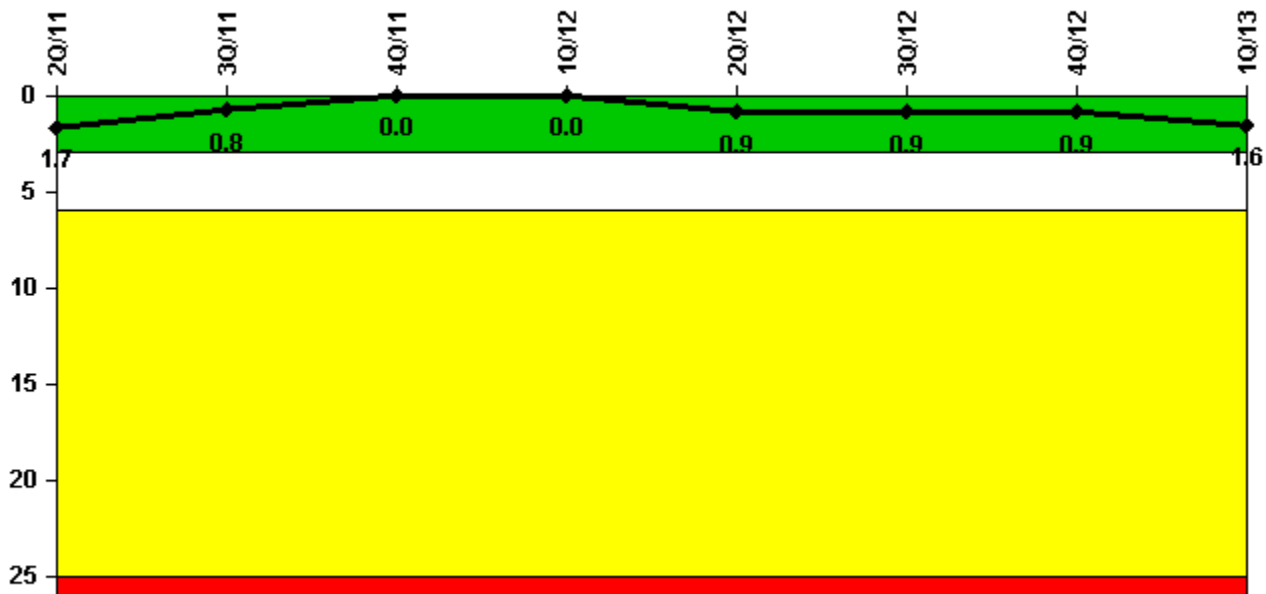


Indian Point 2

1Q/2013 Performance Indicators

Licensee's General Comments: The normalization factors for IDS and CCTV were revised from May 2012 to reflect changes in IDS and CCTV as a result of an upgrade that included a new protected area access facility and additional IDS and CCTVs. IDS NF = 1.20, CCTV NF = 1.20.

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

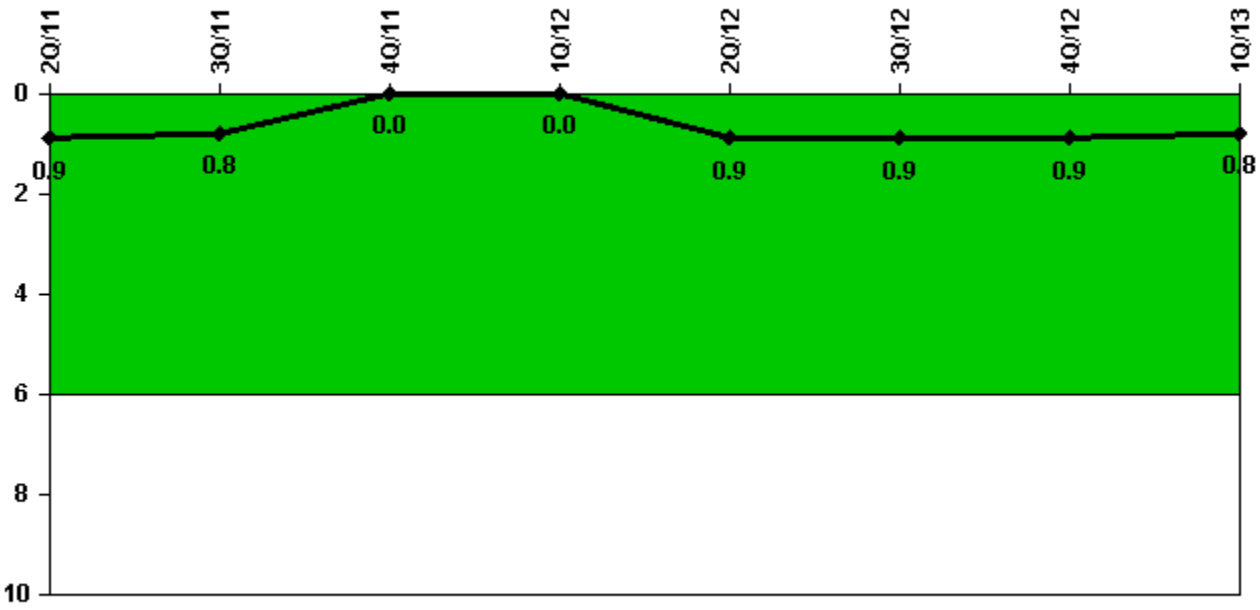
Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned scrams	0	0	0	0	1.0	0	0	1.0
Critical hours	2087.1	2208.0	2209.0	1368.1	2154.6	2208.0	2209.0	2107.1
Indicator value	1.7	0.8	0	0	0.9	0.9	0.9	1.6

Licensee Comments:

1Q/13: LER-2013-001 reported on April 15, 2013, a manual reactor trip on February 13, 2013, due to decreasing steam generator levels as a result of the trip of both heater drain tank pumps during AOV diagnostics testing.

Unplanned Power Changes per 7000 Critical Hrs



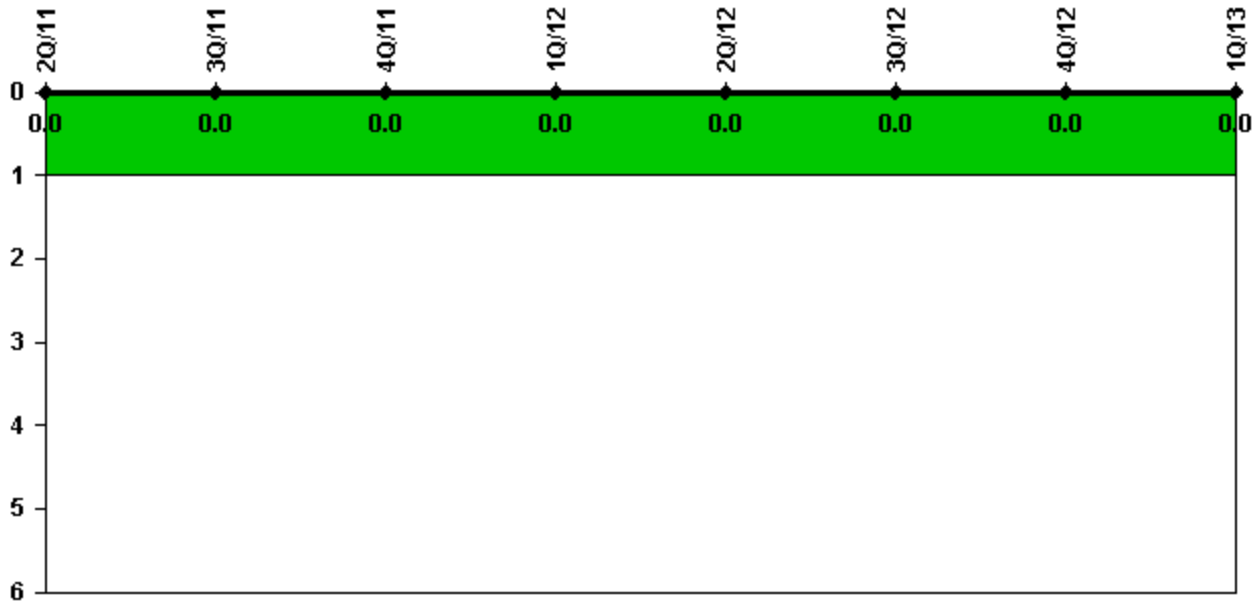
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2087.1	2208.0	2209.0	1368.1	2154.6	2208.0	2209.0	2107.1
Indicator value	0.9	0.8	0	0	0.9	0.9	0.9	0.8

Licensee Comments: none

Unplanned Scrams with Complications



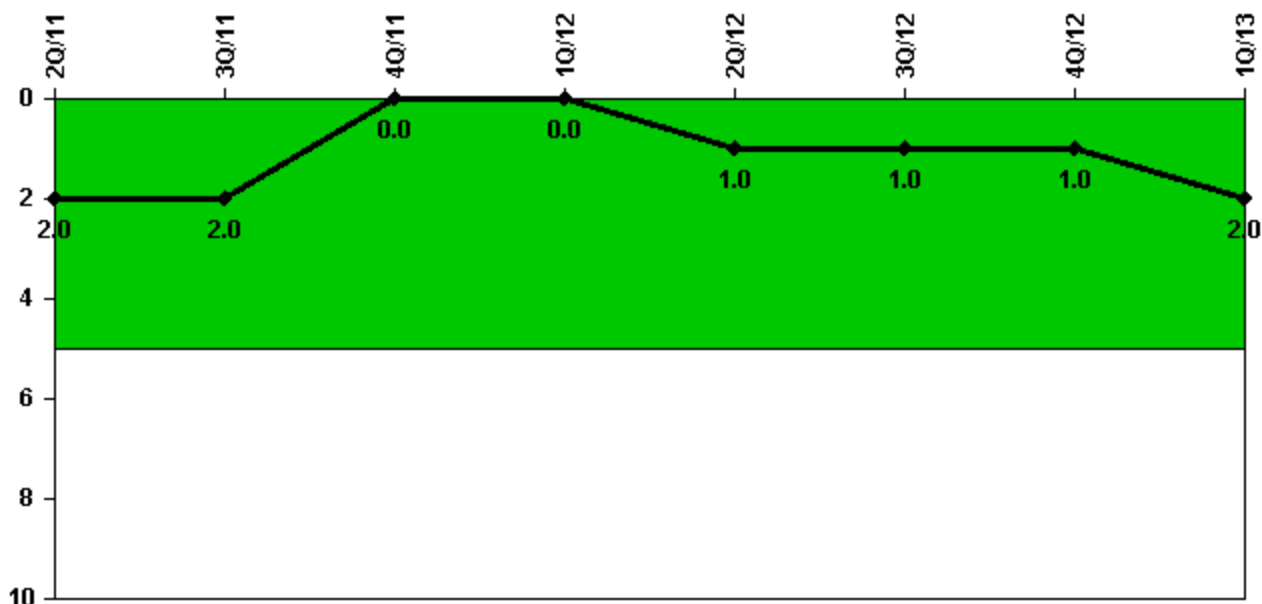
Thresholds: White > 1.0

Notes

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

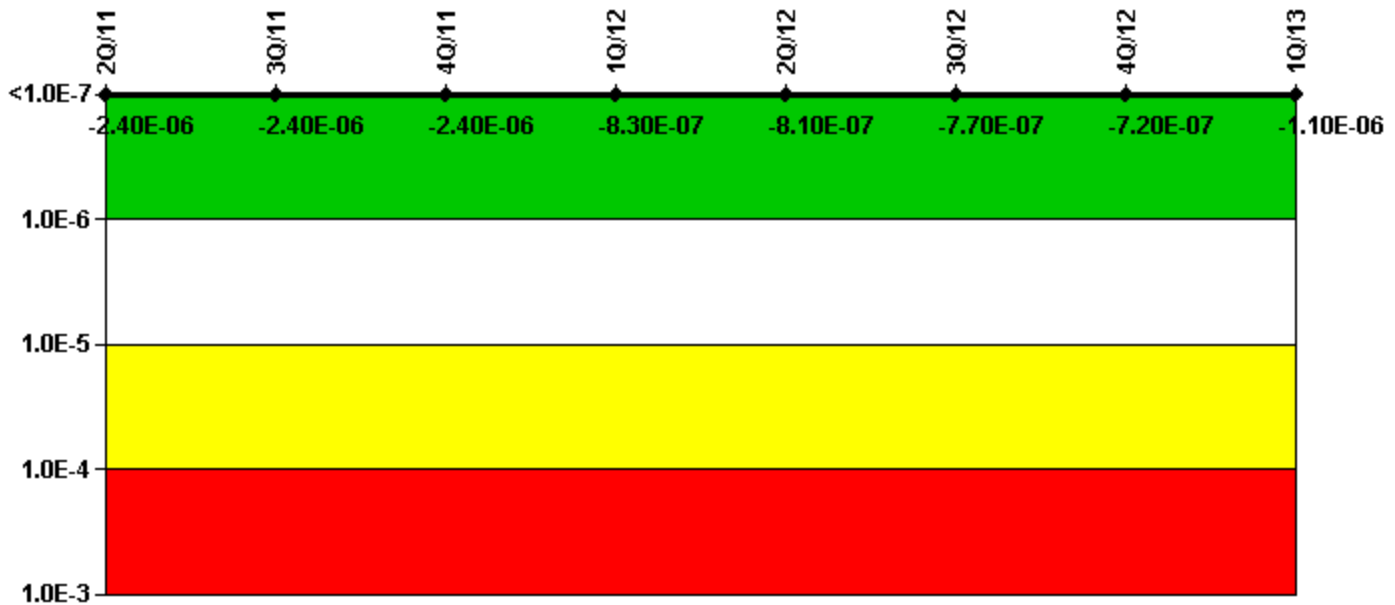
Safety System Functional Failures (PWR)	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	0	0	0	0	1	0	0	1
Indicator value	2	2	0	0	1	1	1	2

Licensee Comments:

1Q/13: LER-2012-009-00 reported on January 28, 2013, a safety system functional failure due to use of the Rad Bypass switch for steam generator blowdown isolation valves which defeats their automatic isolation for analyzed events. Equipment tag-out were discovered that placed all the SGBD isolation valves in Rad bypass while a moter driven auxilary feedwater pump was out of service. Condition results in the inability to maintain SG inventory with continuous SGBD during heat sink events.

2Q/12: LER-2012-004 reported a SSFF for one motor driven Auxiliary Feedwater Pump out of service during testing during the time liquid radiation monitor calibration was being performed which results in a Rad BYpass switch position for steam generator (SG)blowdown isolation valves being defeated for automatic isolation for degraded heat sink events. Condition can result in inadequate maintenance of SG inventory.

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	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	6.06E-07	6.11E-07	5.48E-07	7.71E-08	1.19E-07	1.28E-07	1.16E-07	1.05E-07
URI (Δ CDF)	-2.98E-06	-3.00E-06	-2.97E-06	-9.11E-07	-9.27E-07	-8.94E-07	-8.33E-07	-1.16E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-06	-2.40E-06	-2.40E-06	-8.30E-07	-8.10E-07	-7.70E-07	-7.20E-07	-1.10E-06

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

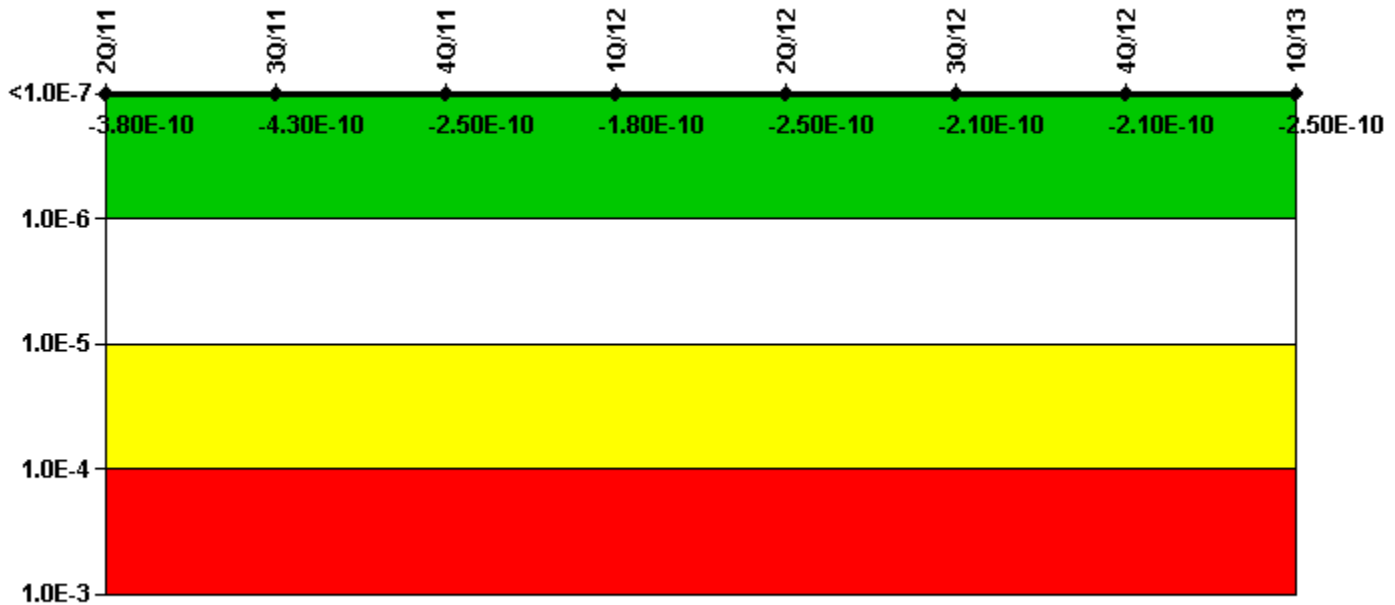
1Q/12: Changed PRA Parameter(s).

4Q/11: Risk Cap Invoked.

3Q/11: Risk Cap Invoked.

2Q/11: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

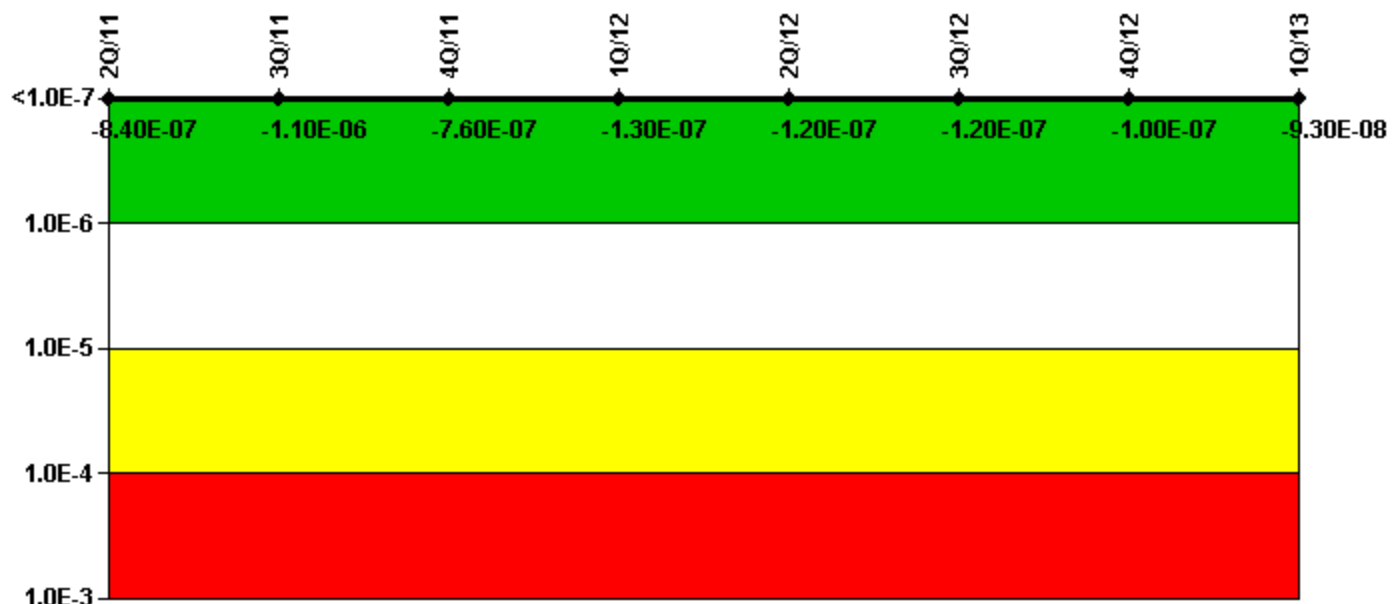
Mitigating Systems Performance Index, High Pressure Injection System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	-1.44E-10	-2.03E-10	-7.35E-12	-2.90E-11	-2.90E-11	2.23E-11	3.23E-11	-5.43E-12
URI (Δ CDF)	-2.36E-10	-2.31E-10	-2.46E-10	-1.53E-10	-2.20E-10	-2.31E-10	-2.41E-10	-2.48E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.80E-10	-4.30E-10	-2.50E-10	-1.80E-10	-2.50E-10	-2.10E-10	-2.10E-10	-2.50E-10

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

Notes

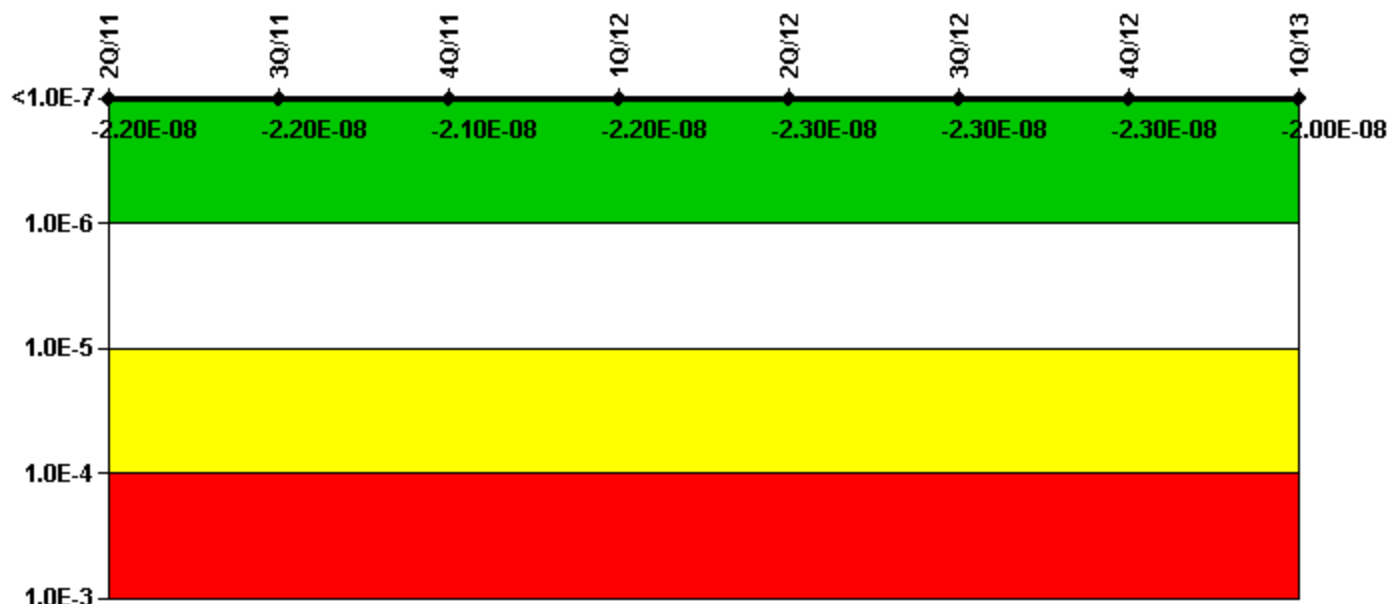
Mitigating Systems Performance Index, Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	1.39E-07	-8.04E-08	-1.90E-07	-1.80E-08	-2.19E-08	-2.10E-08	-9.66E-09	-2.41E-08
URI (Δ CDF)	-9.79E-07	-9.76E-07	-5.68E-07	-1.15E-07	-9.75E-08	-9.64E-08	-9.09E-08	-6.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.40E-07	-1.10E-06	-7.60E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.00E-07	-9.30E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: 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

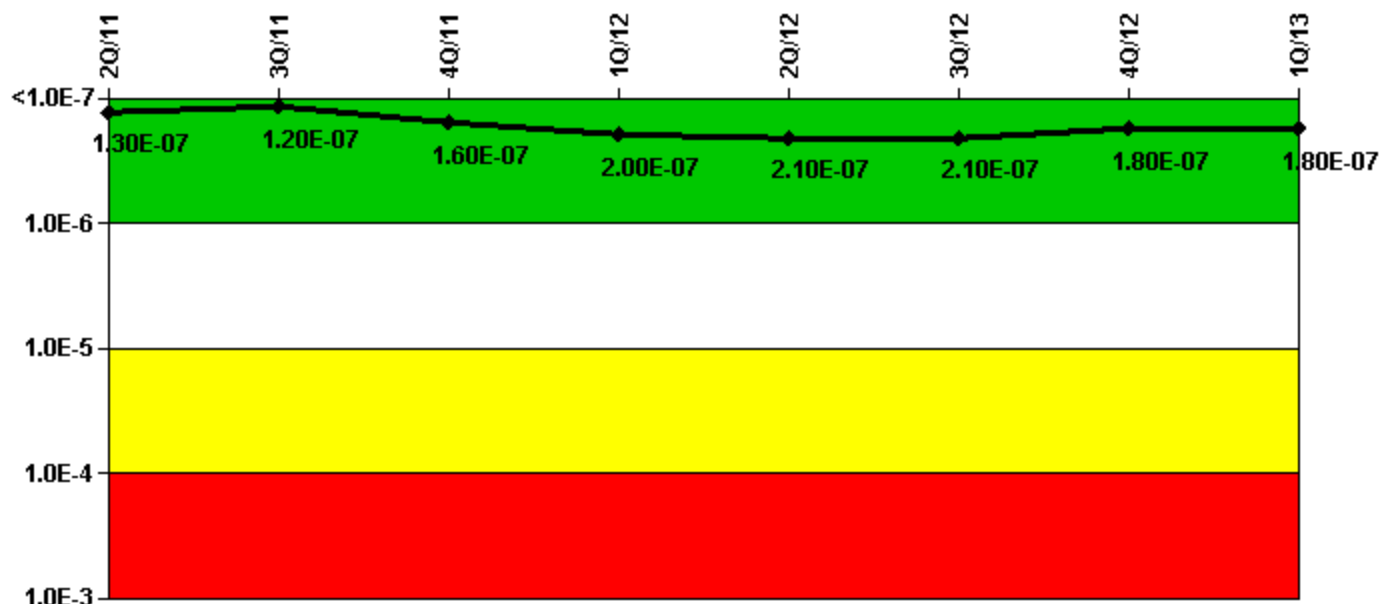
Mitigating Systems Performance Index, Residual Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	-1.09E-08	-1.10E-08	-1.09E-08	-8.82E-09	-8.80E-09	-8.71E-09	-8.67E-09	-8.69E-09
URI (Δ CDF)	-1.11E-08	-1.09E-08	-1.05E-08	-1.36E-08	-1.37E-08	-1.40E-08	-1.41E-08	-1.13E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-2.20E-08	-2.10E-08	-2.20E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.00E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: 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

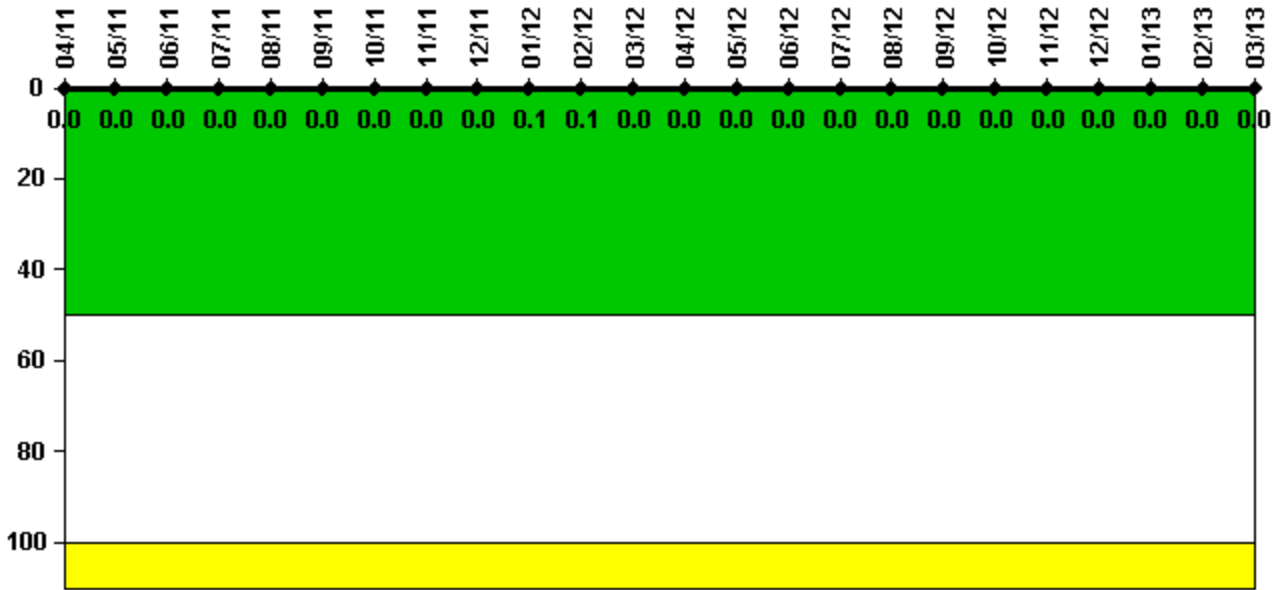
Mitigating Systems Performance Index, Cooling Water Systems	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	7.99E-08	7.49E-08	7.59E-08	2.06E-08	2.10E-08	2.04E-08	5.13E-09	5.22E-09
URI (Δ CDF)	4.61E-08	4.59E-08	8.02E-08	1.76E-07	1.90E-07	1.88E-07	1.77E-07	1.79E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.20E-07	1.60E-07	2.00E-07	2.10E-07	2.10E-07	1.80E-07	1.80E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

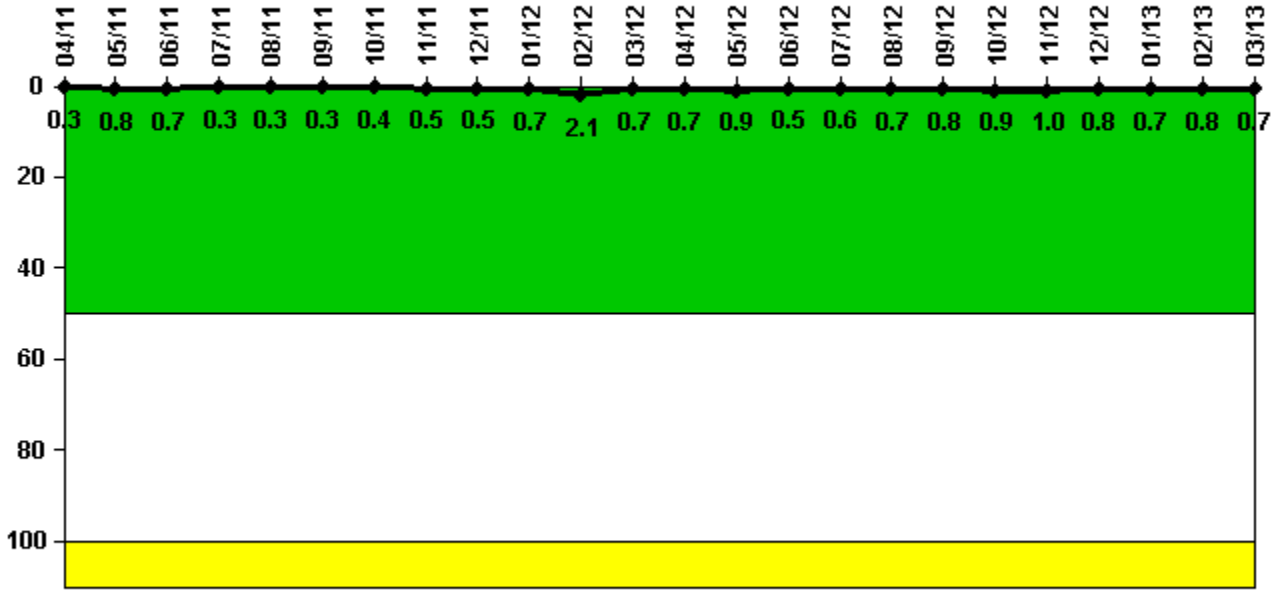
Notes

Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000370	0.000411	0.000398	0.000446	0.000450	0.000474	0.000472	0.000467	0.000476	0.000500	0.000509	0.000459
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	0	0	0	0	0	0	0	0	0.1	0.1	0

Reactor Coolant System Activity	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum activity	0.000198	0.000189	0.000187	0.000196	0.000215	0.000217	0.000234	0.000218	0.000232	0.000244	0.000267	0.000246
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	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



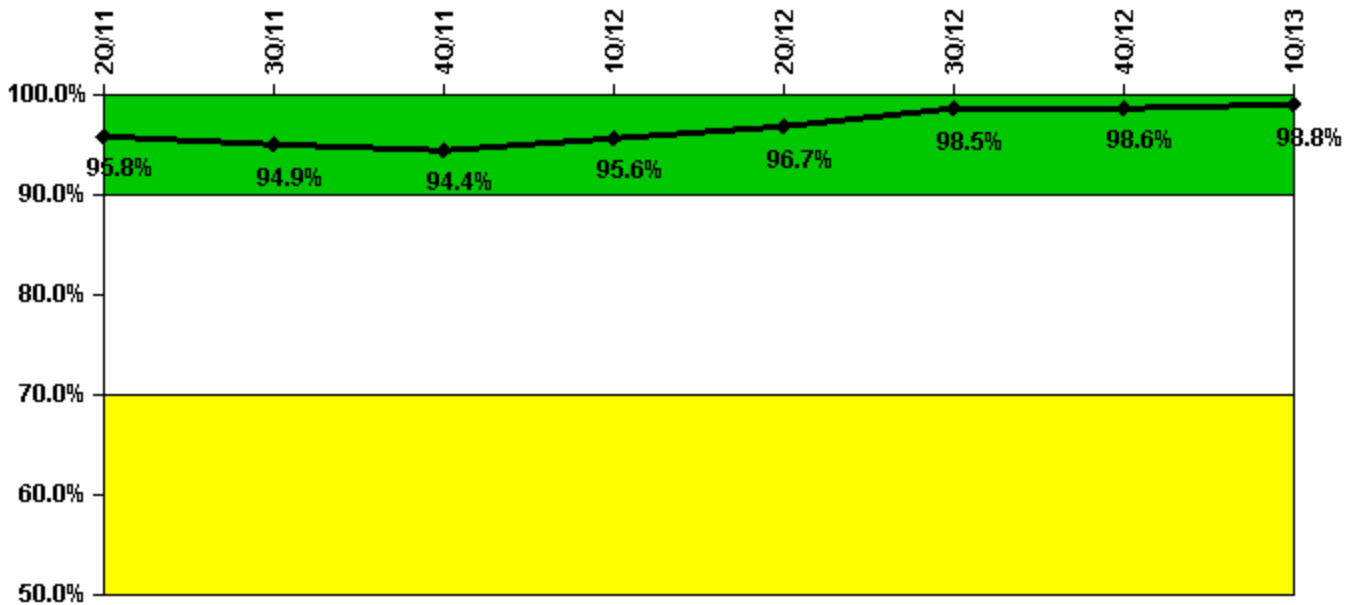
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum leakage	0.030	0.080	0.070	0.030	0.030	0.030	0.040	0.050	0.050	0.070	0.210	0.070
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	0.3	0.8	0.7	0.3	0.3	0.3	0.4	0.5	0.5	0.7	2.1	0.7
Reactor Coolant System Leakage	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum leakage	0.070	0.090	0.050	0.060	0.070	0.080	0.090	0.100	0.080	0.070	0.080	0.070
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	0.7	0.9	0.5	0.6	0.7	0.8	0.9	1.0	0.8	0.7	0.8	0.7

Licensee Comments: none

Drill/Exercise Performance



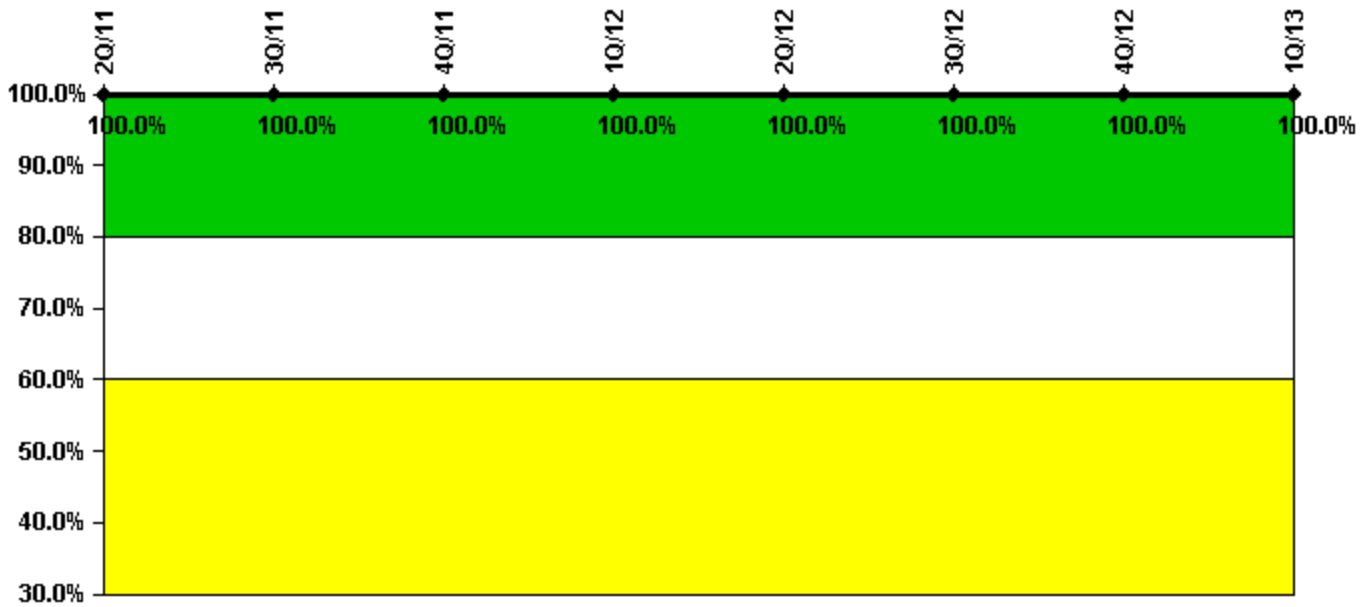
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful opportunities	66.0	143.0	14.0	131.0	289.0	374.0	273.0	101.0
Total opportunities	66.0	151.0	16.0	131.0	293.0	374.0	276.0	101.0
Indicator value	95.8%	94.9%	94.4%	95.6%	96.7%	98.5%	98.6%	98.8%

Licensee Comments: none

ERO Drill Participation



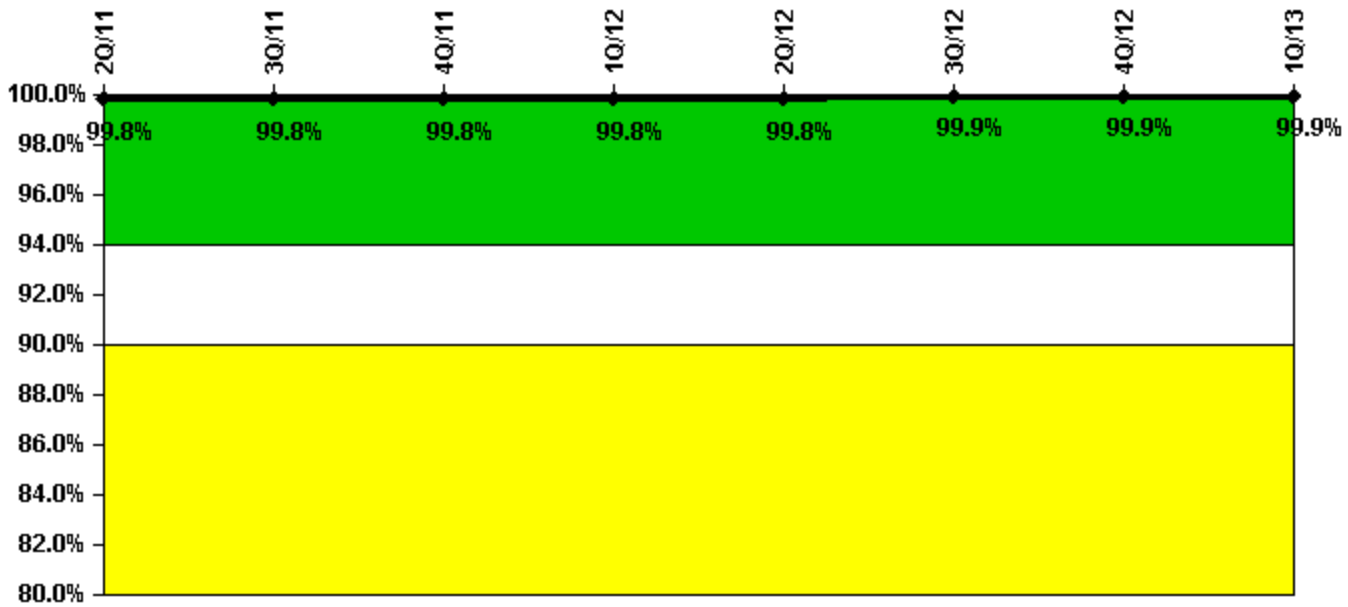
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Participating Key personnel	102.0	105.0	104.0	106.0	105.0	106.0	104.0	106.0
Total Key personnel	102.0	105.0	104.0	106.0	105.0	106.0	104.0	106.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



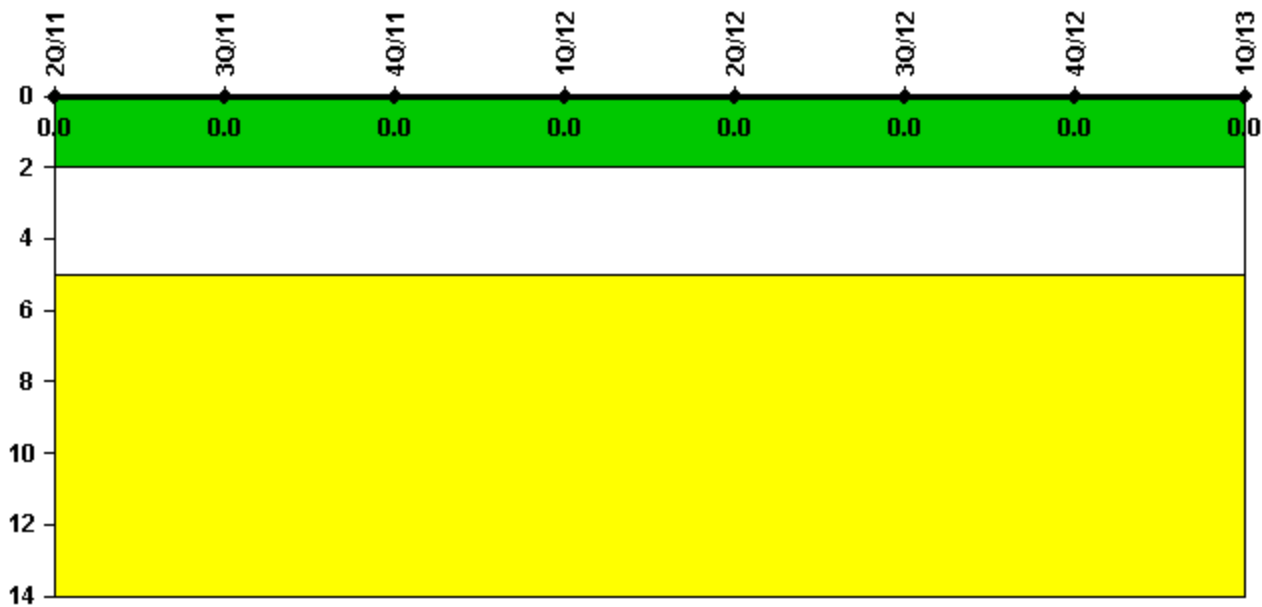
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful siren-tests	1176	1201	993	956	787	1415	577	1015
Total sirens-tests	1179	1204	996	957	789	1415	577	1015
Indicator value	99.8%	99.8%	99.8%	99.8%	99.8%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



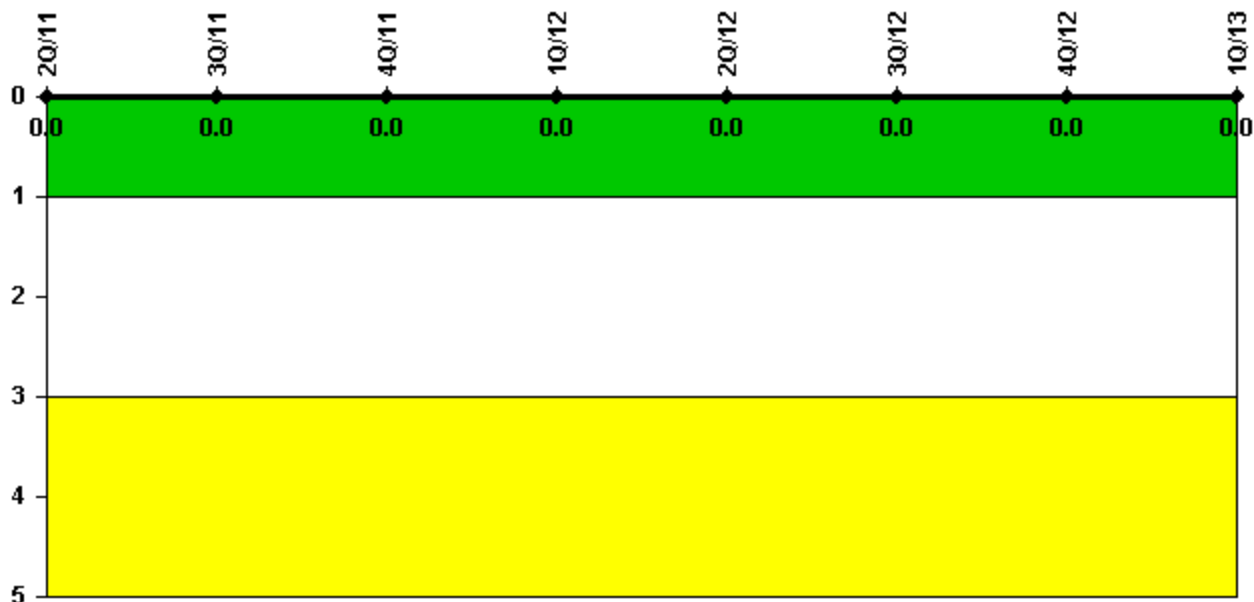
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/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	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/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: April 23, 2013