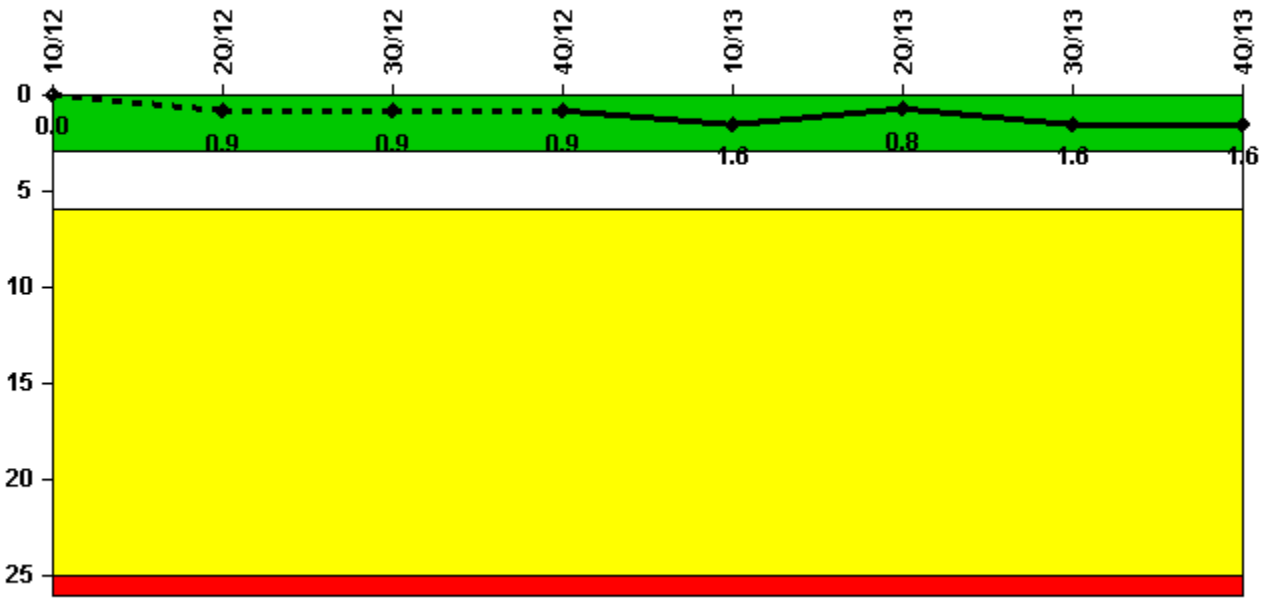
Indian Point 2

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: Change to reflect final count of last day of quarter licensed operator simulator training results

Unplanned Scrams per 7000 Critical Hrs



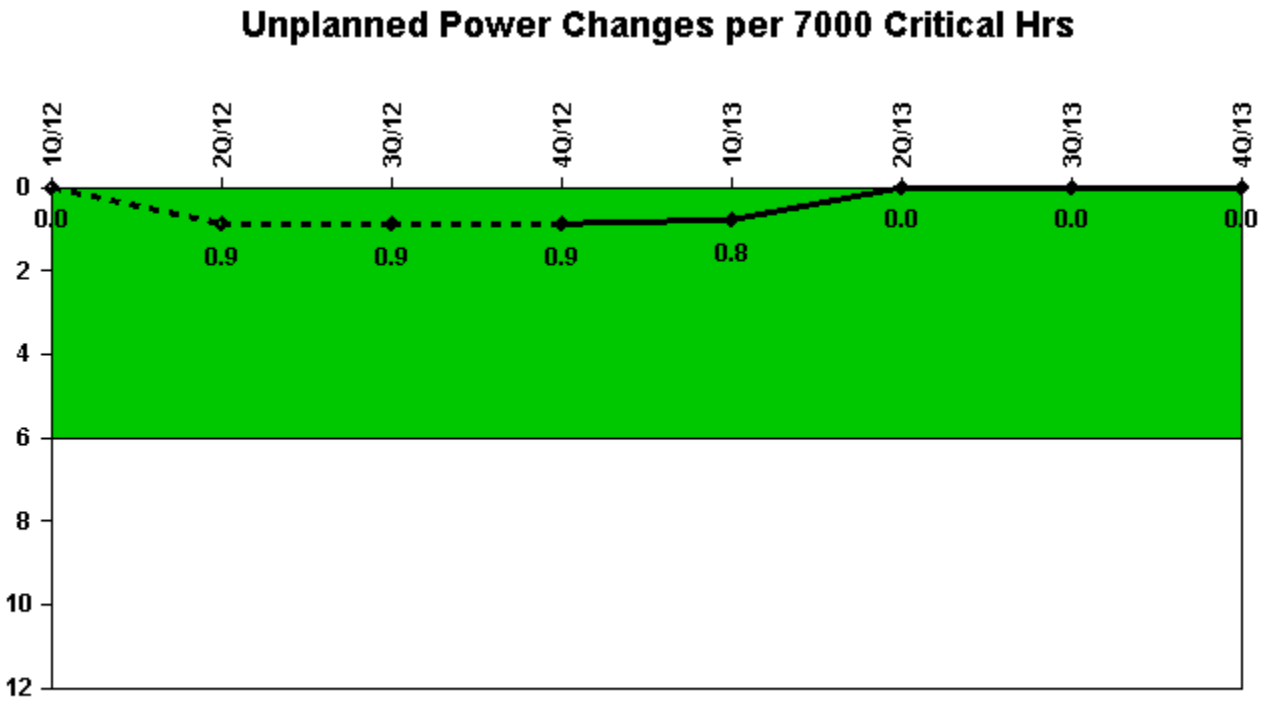
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	1.0	0	1.0	0
Critical hours	1368.1	2154.6	2208.0	2209.0	2107.1	2184.0	2189.3	2209.0
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**1.6**	**0.8**	**1.6**	**1.6**

Licensee Comments:

1Q/13: LER-2013-001 reported on April 15, 2013, a manual reator 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.



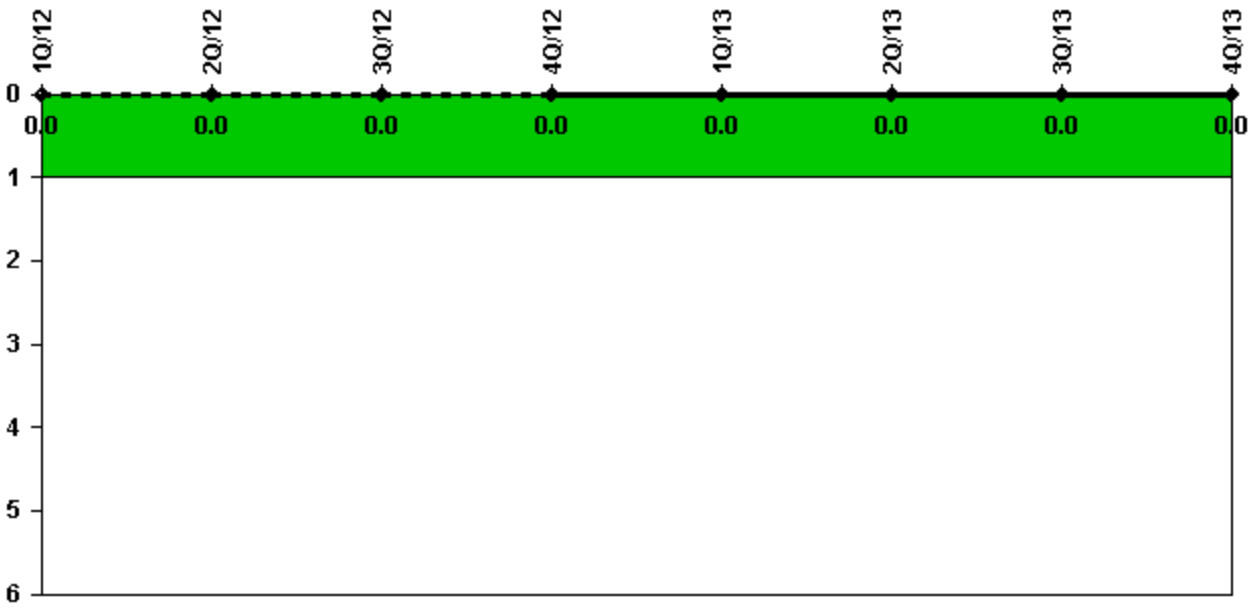
Thresholds: White > 6.0

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	1.0	0	0	0	0	0	0
Critical hours	1368.1	2154.6	2208.0	2209.0	2107.1	2184.0	2189.3	2209.0
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications



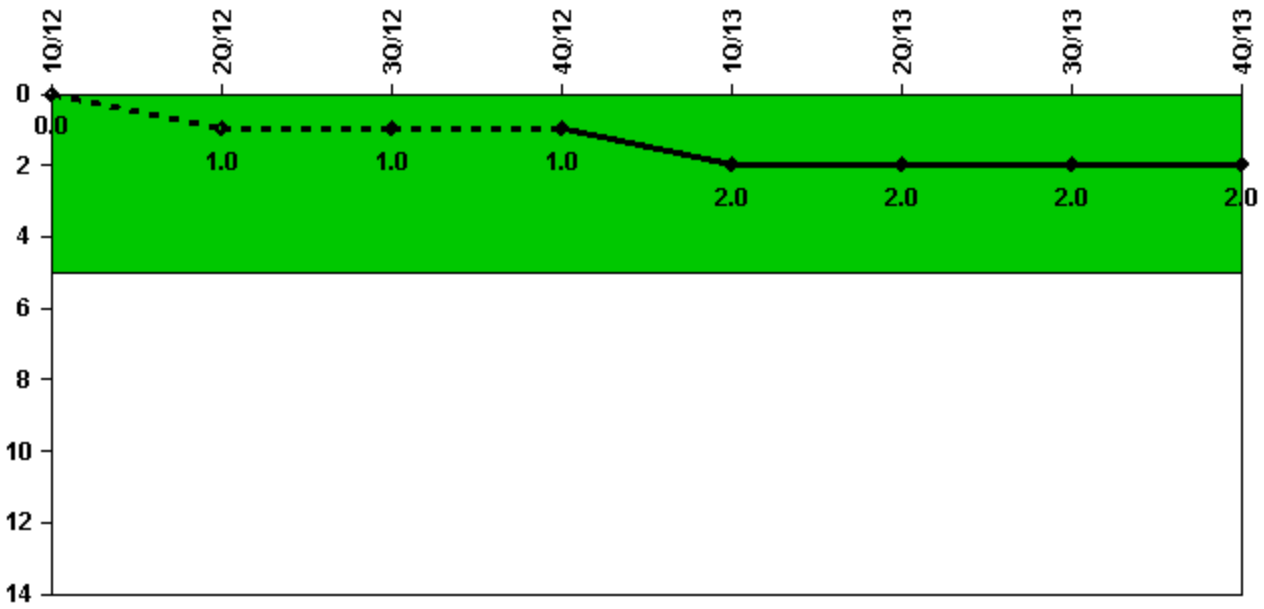
Thresholds: White > 1.0

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	1	0	0	1	1	0	0
Indicator value	**0**	**1**	**1**	**1**	**2**	**2**	**2**	**2**

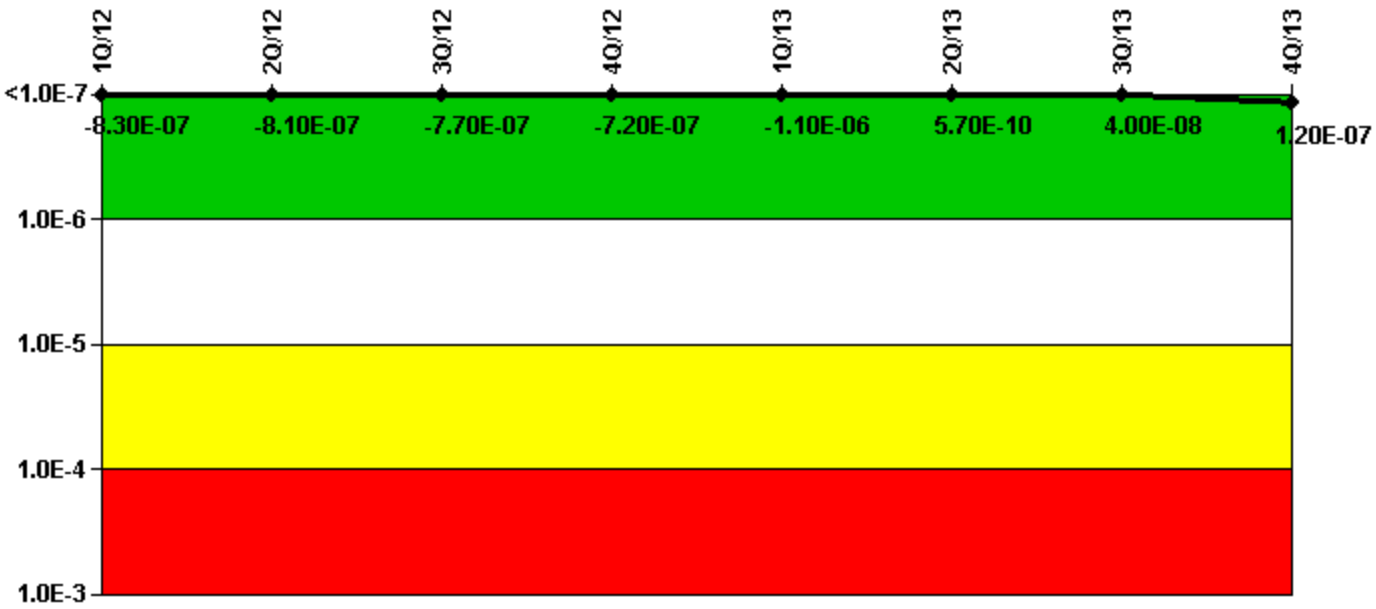
Licensee Comments:

2Q/13: LER-2013-002 reported on June 13, 2012, a SSFF of the onsite emergency diesel generators due to maintenance on the emergency fuel oil supply line during tagout of the normal fuel oil supply line.

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

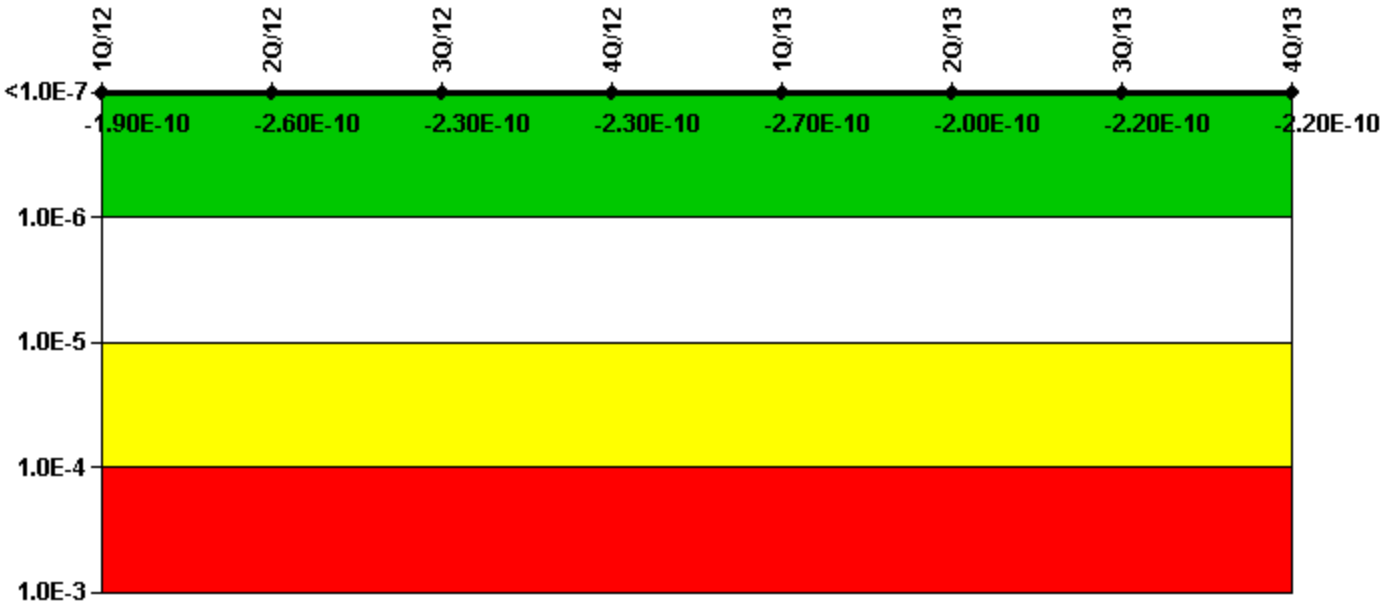
Mitigating Systems Performance Index, Emergency AC Power System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	7.71E-08	1.19E-07	1.28E-07	1.16E-07	1.05E-07	2.12E-07	2.29E-07	2.80E-07
URI (ΔCDF)	-9.11E-07	-9.27E-07	-8.94E-07	-8.33E-07	-1.16E-06	-2.11E-07	-1.89E-07	-1.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-07**	**-8.10E-07**	**-7.70E-07**	**-7.20E-07**	**-1.10E-06**	**5.70E-10**	**4.00E-08**	**1.20E-07**

Licensee Comments:

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

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

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

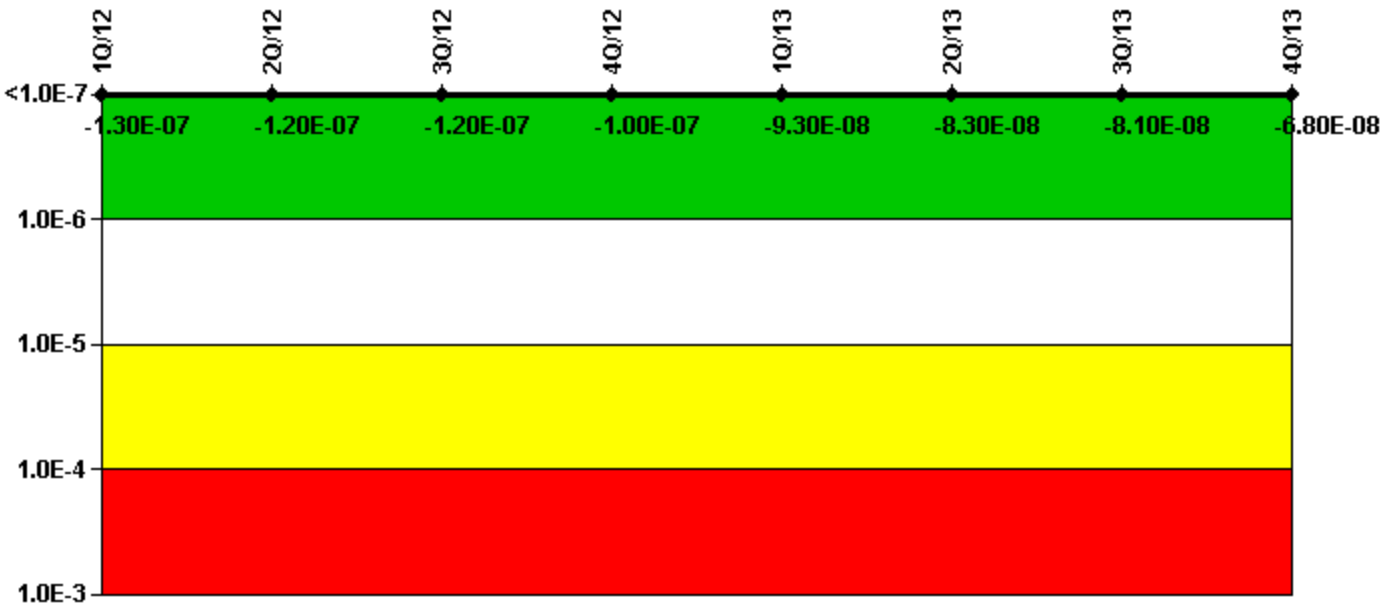
Mitigating Systems Performance Index, High Pressure Injection System	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	-3.73E-11	-3.65E-11	5.04E-12	1.50E-11	-2.24E-11	6.29E-11	5.22E-11	5.76E-11
URI (ΔCDF)	-1.53E-10	-2.20E-10	-2.31E-10	-2.41E-10	-2.48E-10	-2.61E-10	-2.71E-10	-2.78E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-10**	**-2.60E-10**	**-2.30E-10**	**-2.30E-10**	**-2.70E-10**	**-2.00E-10**	**-2.20E-10**	**-2.20E-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

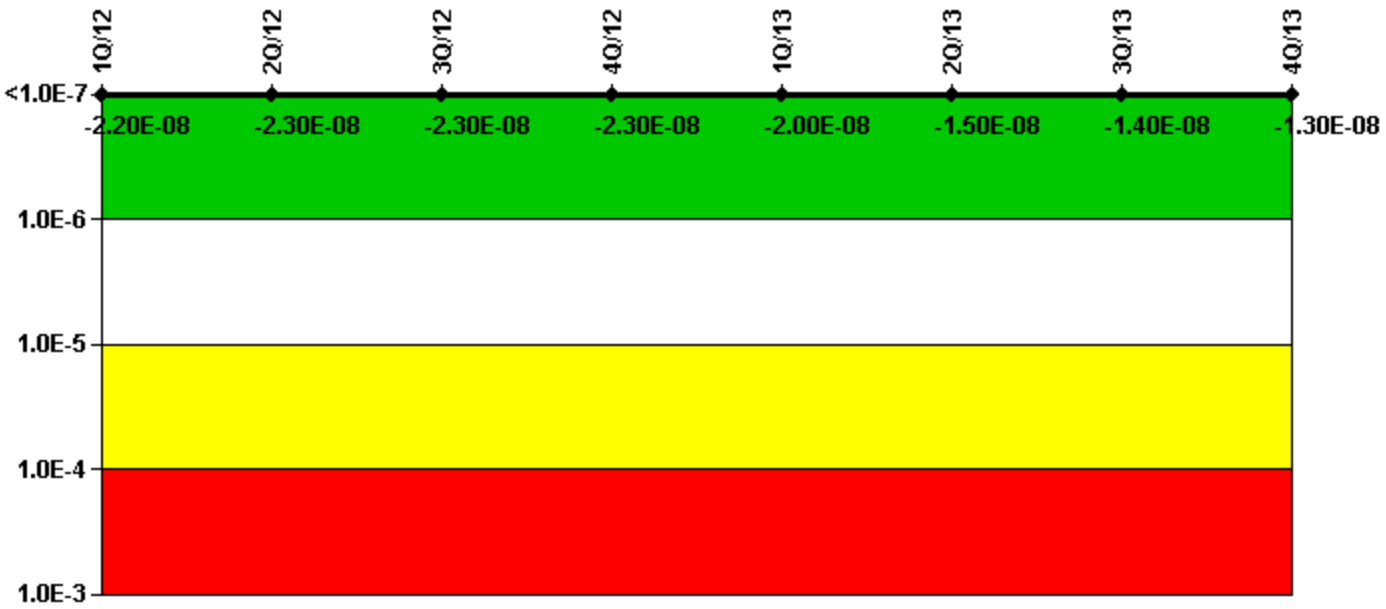
Mitigating Systems Performance Index, Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	-1.80E-08	-2.19E-08	-2.10E-08	-9.66E-09	-2.41E-08	-2.93E-08	-2.99E-08	-2.98E-08
URI (ΔCDF)	-1.15E-07	-9.75E-08	-9.64E-08	-9.09E-08	-6.87E-08	-5.37E-08	-5.07E-08	-3.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-07**	**-1.20E-07**	**-1.20E-07**	**-1.00E-07**	**-9.30E-08**	**-8.30E-08**	**-8.10E-08**	**-6.80E-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

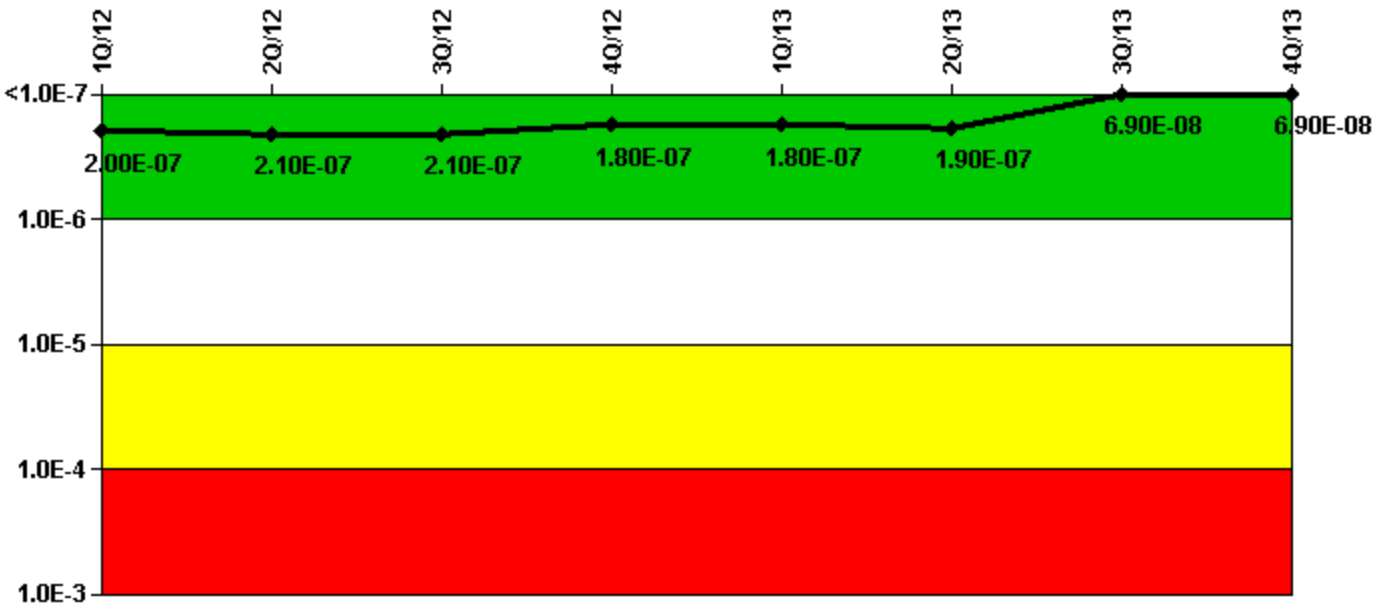
Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	-8.82E-09	-8.80E-09	-8.71E-09	-8.67E-09	-8.69E-09	-4.05E-09	-4.17E-09	-4.03E-09
URI (ΔCDF)	-1.36E-08	-1.37E-08	-1.40E-08	-1.41E-08	-1.13E-08	-1.06E-08	-9.89E-09	-9.12E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.20E-08**	**-2.30E-08**	**-2.30E-08**	**-2.30E-08**	**-2.00E-08**	**-1.50E-08**	**-1.40E-08**	**-1.30E-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

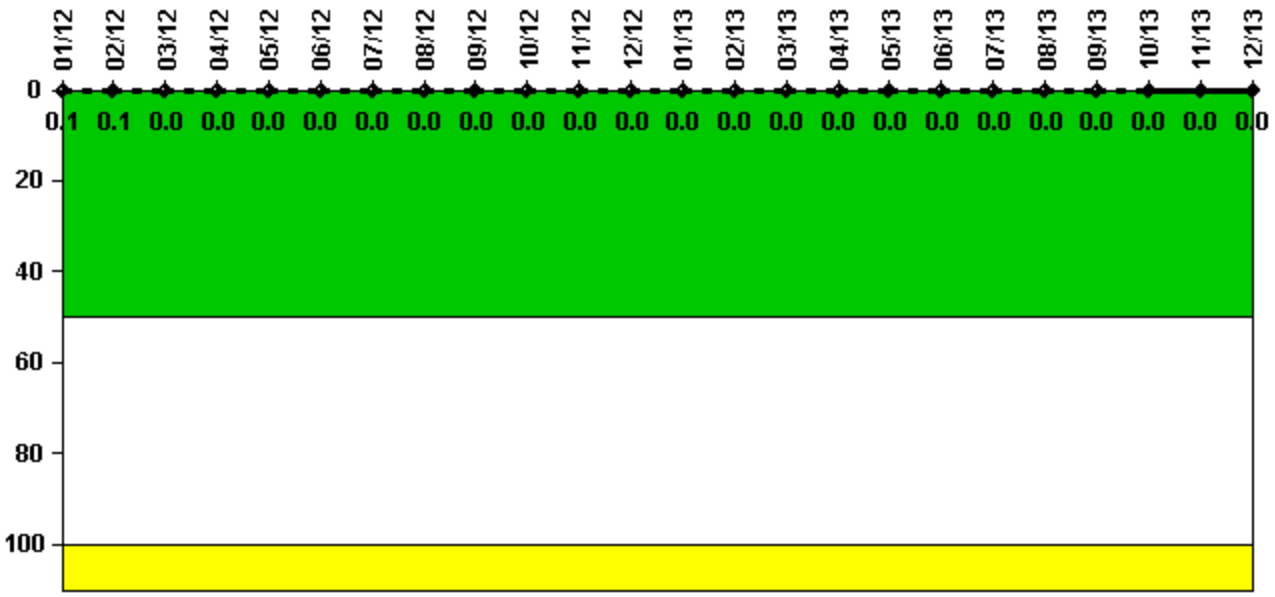
Mitigating Systems Performance Index, Cooling Water Systems	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	2.06E-08	2.10E-08	2.04E-08	5.13E-09	5.22E-09	4.90E-09	2.65E-09	-1.93E-09
URI (ΔCDF)	1.76E-07	1.90E-07	1.88E-07	1.77E-07	1.79E-07	1.81E-07	6.67E-08	7.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.00E-07**	**2.10E-07**	**2.10E-07**	**1.80E-07**	**1.80E-07**	**1.90E-07**	**6.90E-08**	**6.90E-08**

Licensee Comments:

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

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

Reactor Coolant System Activity



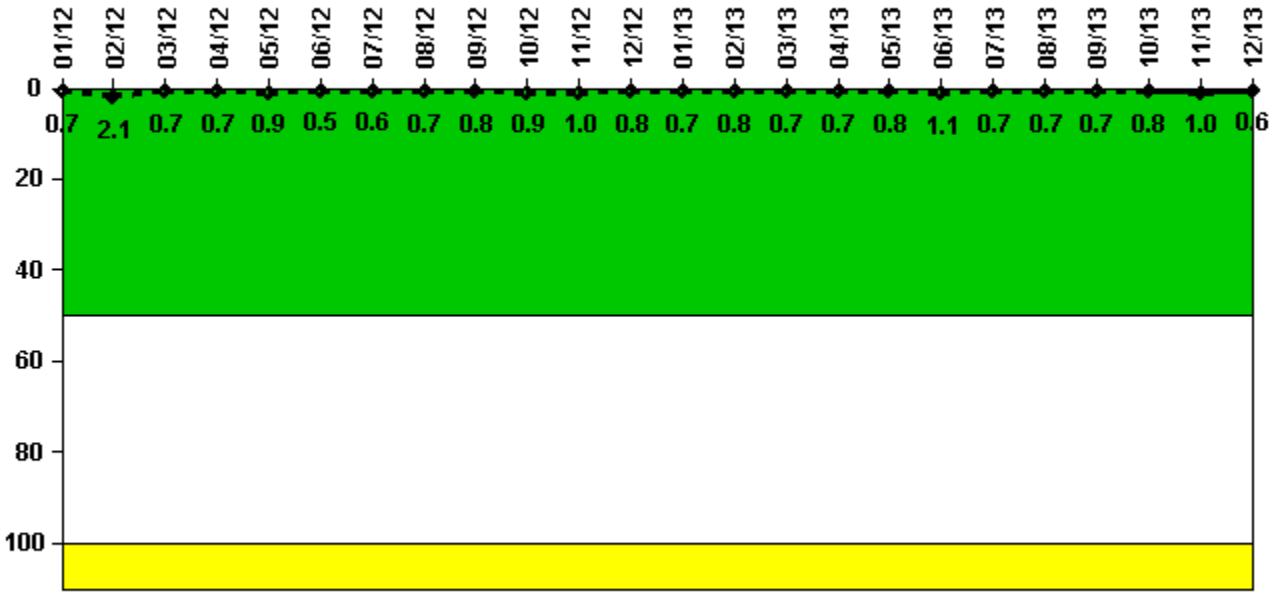
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**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	0.000500	0.000509	0.000459	0.000198	0.000189	0.000187	0.000196	0.000215	0.000217	0.000234	0.000218	0.000232
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	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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	0.000244	0.000267	0.000246	0.000247	0.000280	0.000239	0.000258	0.000239	0.000204	0.000257	0.000273	0.000276
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

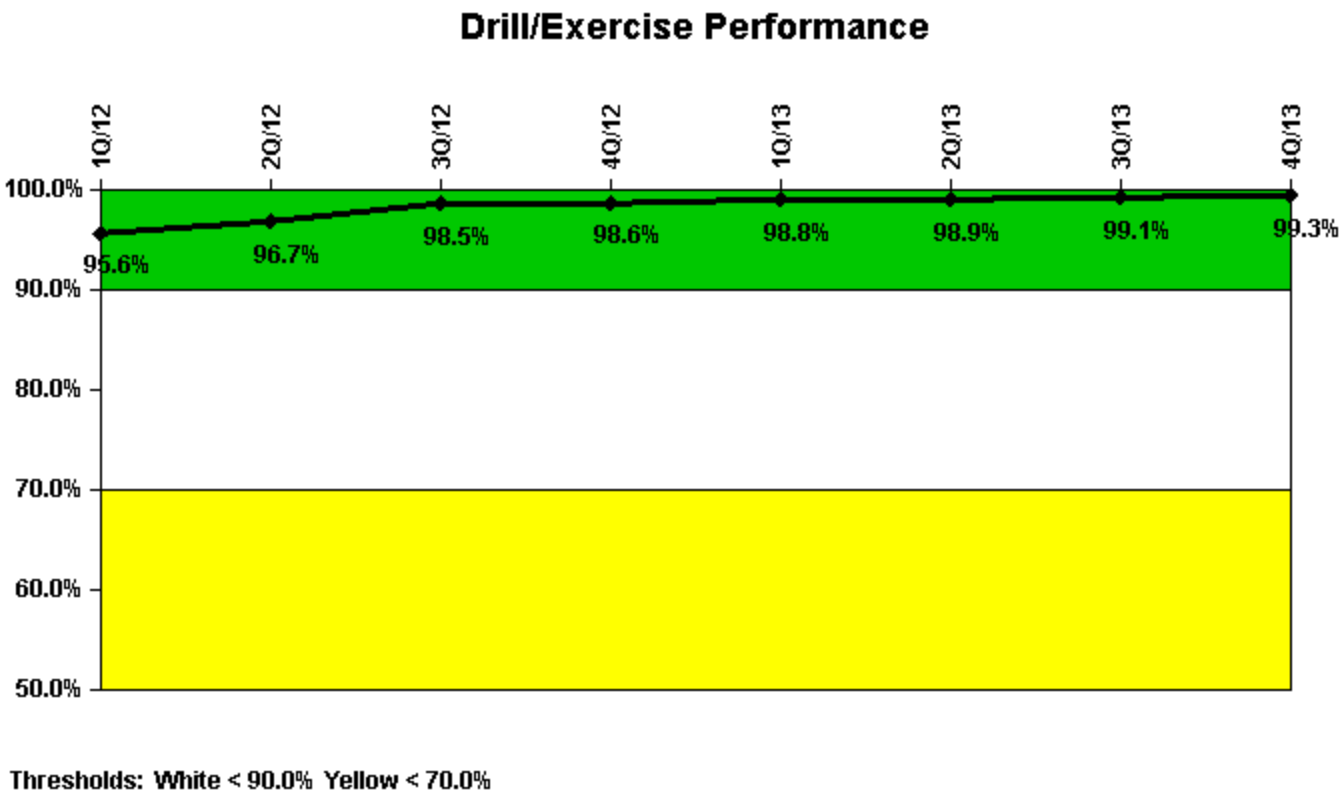


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.070	0.210	0.070	0.070	0.090	0.050	0.060	0.070	0.080	0.090	0.100	0.080
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**	**2.1**	**0.7**	**0.7**	**0.9**	**0.5**	**0.6**	**0.7**	**0.8**	**0.9**	**1.0**	**0.8**
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	0.070	0.080	0.070	0.073	0.080	0.110	0.071	0.070	0.070	0.080	0.100	0.060
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**	**0.8**	**0.7**	**0.7**	**0.8**	**1.1**	**0.7**	**0.7**	**0.7**	**0.8**	**1.0**	**0.6**

Licensee Comments: none



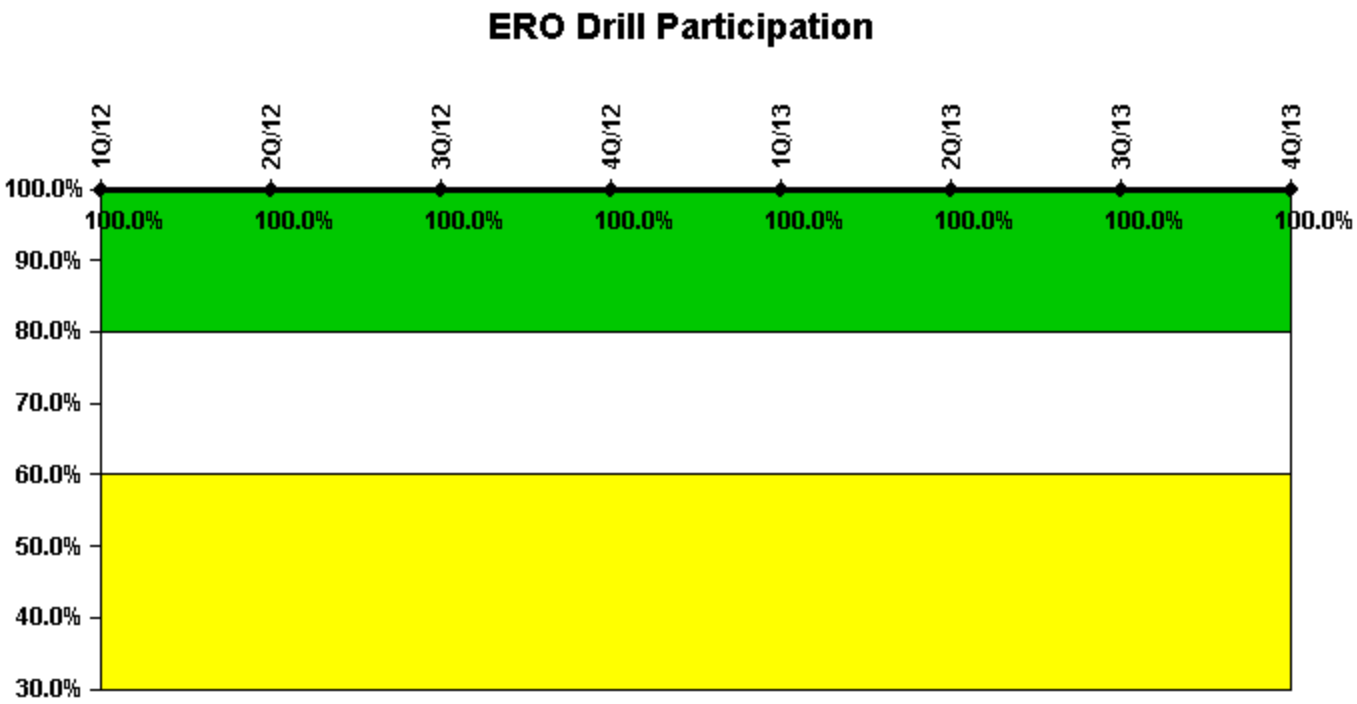
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	131.0	289.0	374.0	266.0	101.0	298.0	291.0	127.0
Total opportunities	131.0	293.0	374.0	269.0	101.0	299.0	297.0	127.0
Indicator value	**95.6%**	**96.7%**	**98.5%**	**98.6%**	**98.8%**	**98.9%**	**99.1%**	**99.3%**

Licensee Comments:

4Q/12: Change to the November 2012 Shift Manager/control Room supervisor training events from 112/113 to 116/117.

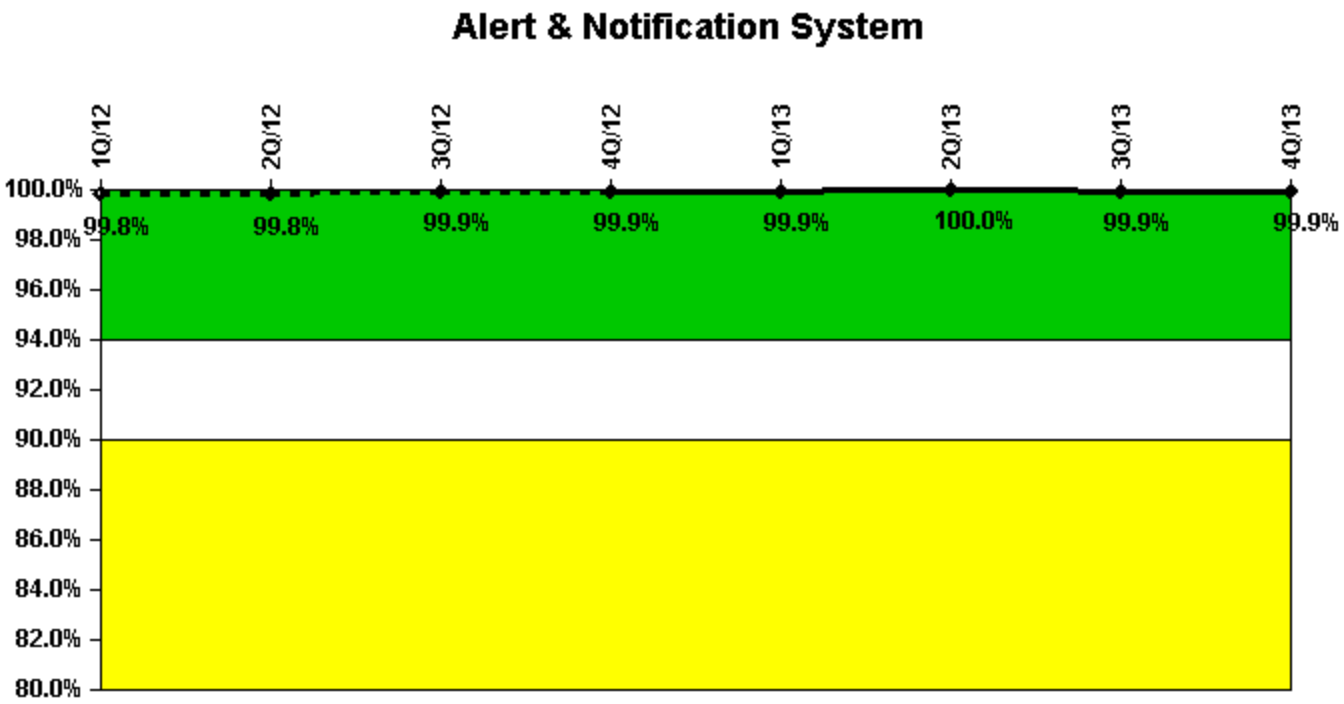


Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	106.0	105.0	106.0	104.0	106.0	104.0	109.0	111.0
Total Key personnel	106.0	105.0	106.0	104.0	106.0	104.0	109.0	111.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none



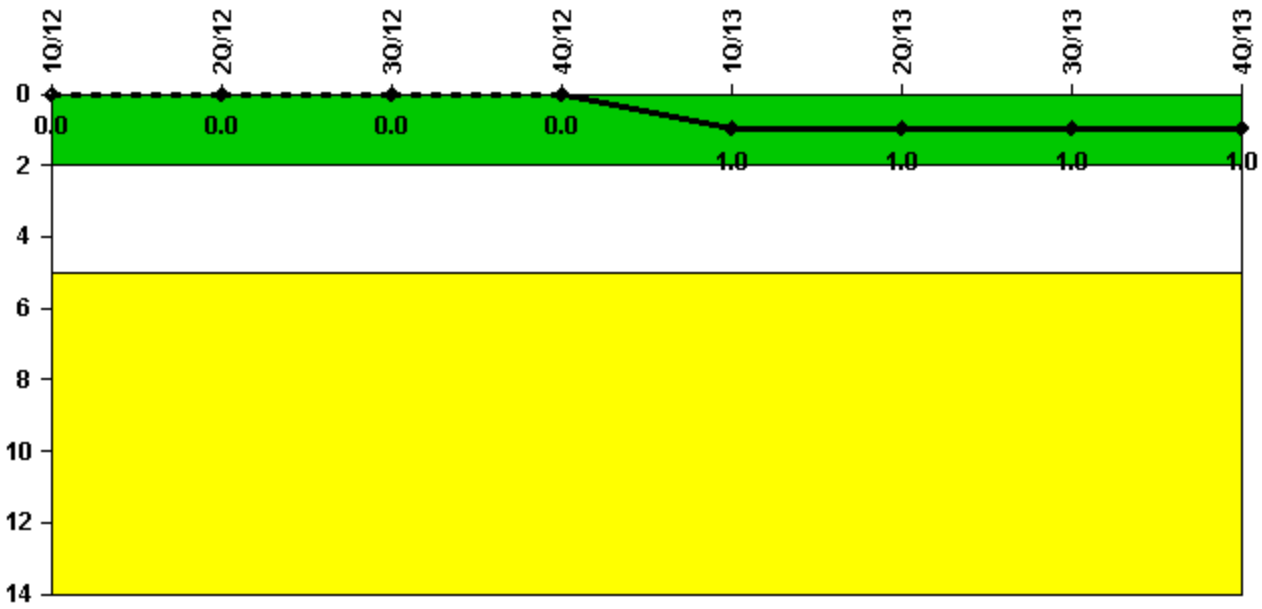
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	956	787	1415	577	1015	1077	936	1303
Total sirens-tests	957	789	1415	577	1015	1077	938	1304
Indicator value	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness



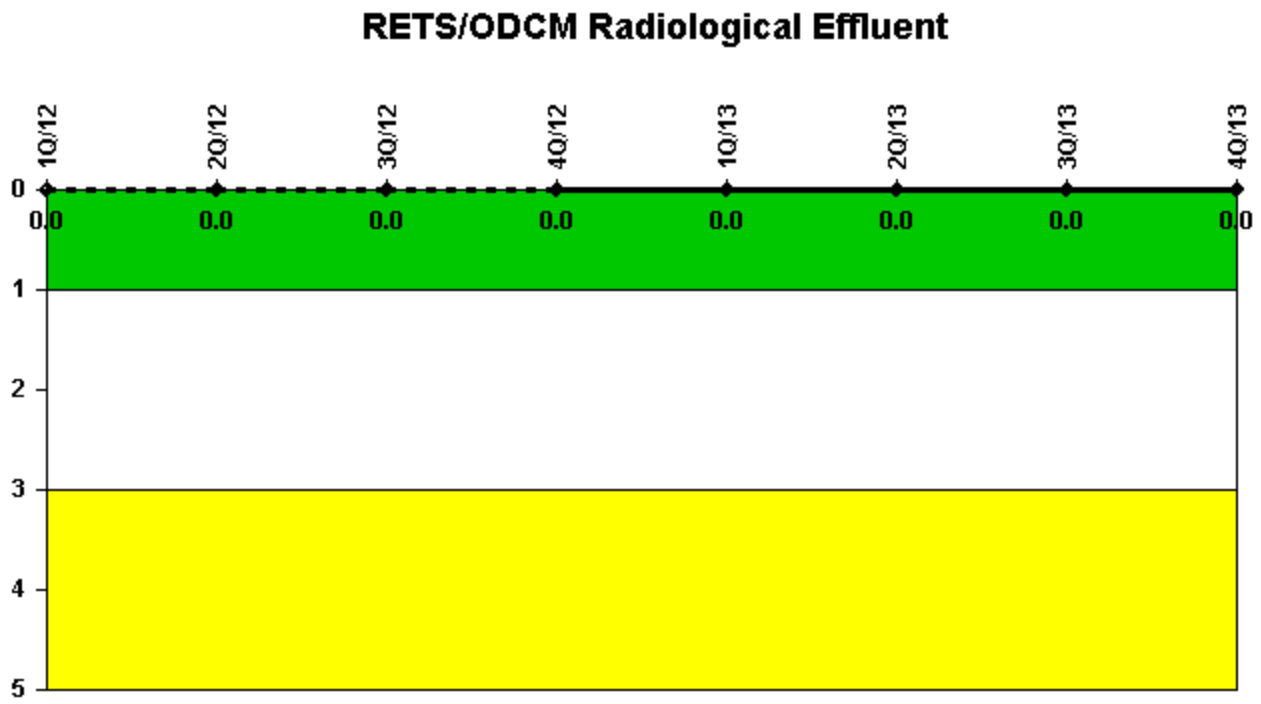
Thresholds: White > 2.0 Yellow > 5.0

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	1	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**	**1**	**1**	**1**	**1**

Licensee Comments:

1Q/13: Per reporting guidelines of NEI 99-02 recorded a count at unit 2 for an event at unit 3 where following shutdown for refueling outage 3R17 workers re-entered containment without an RP escort while the containment was posted as a locked high radiation area in non-compliance with RWP-2013-3028.



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