

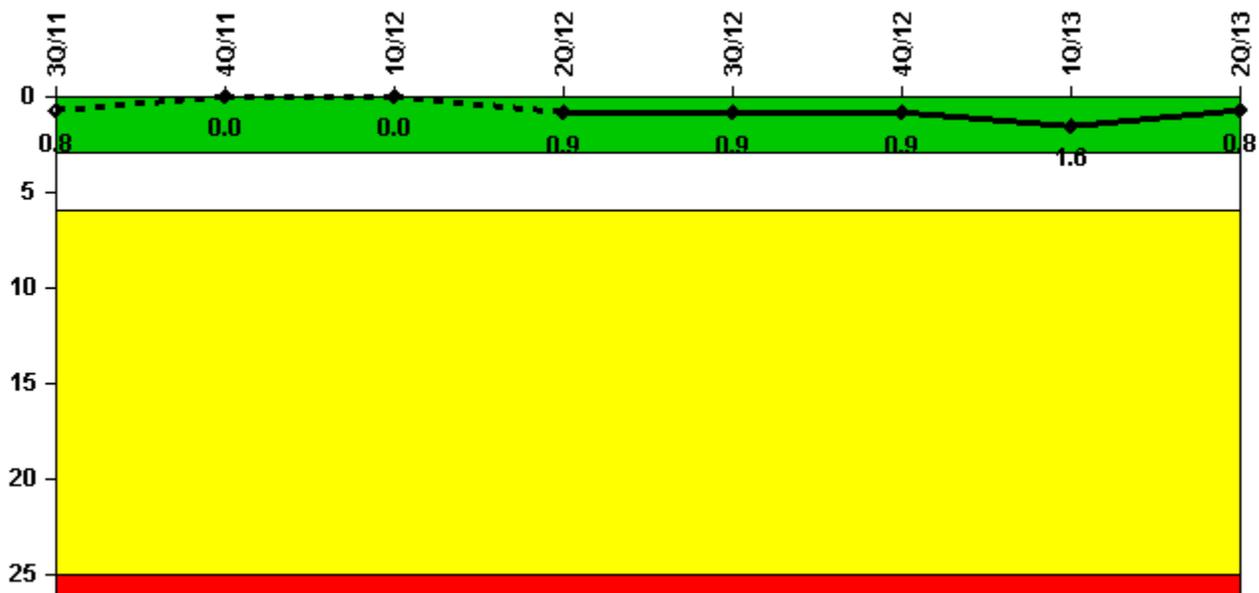
## Indian Point 2

### 2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: Changes to the 4Q11 MSPI data resulted in subsequent changes to the MSPI data calculation.

#### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

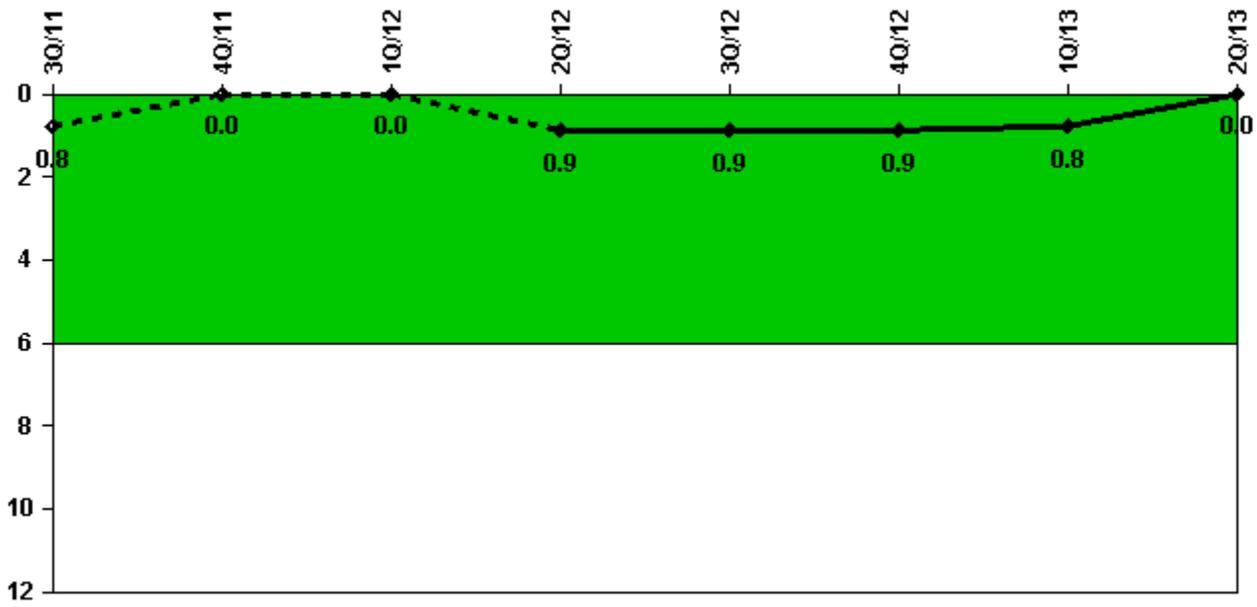
#### Notes

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

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



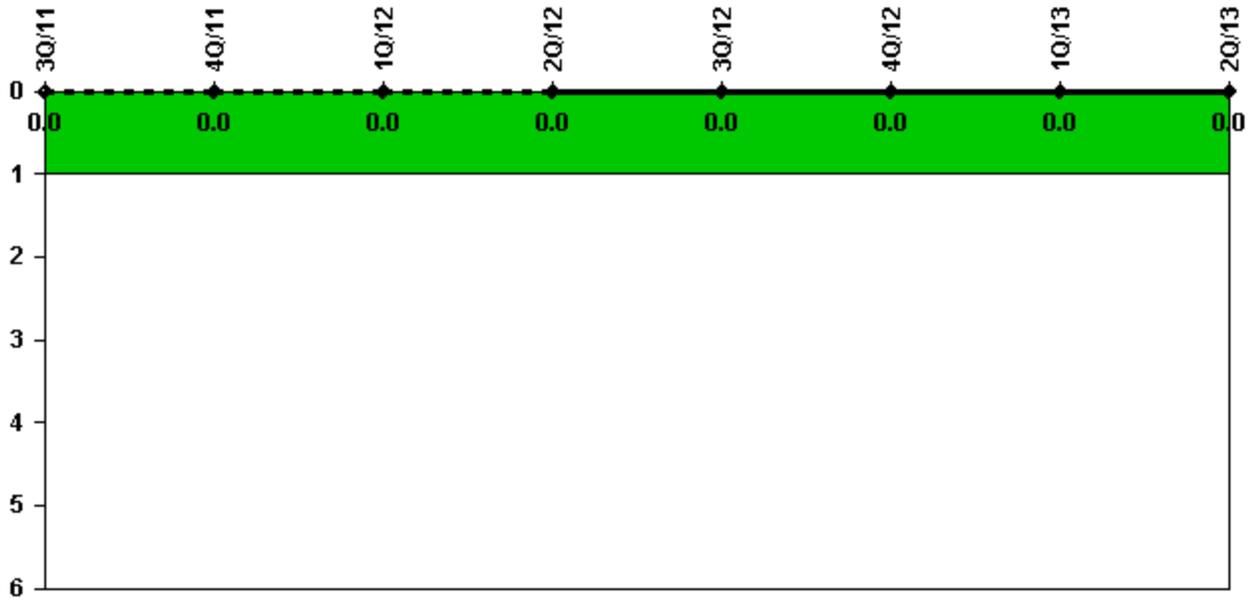
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2208.0	2209.0	1368.1	2154.6	2208.0	2209.0	2107.1	2184.0
<b>Indicator value</b>	<b>0.8</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0.8</b>	<b>0</b>

Licensee Comments: none

### Unplanned Scrams with Complications



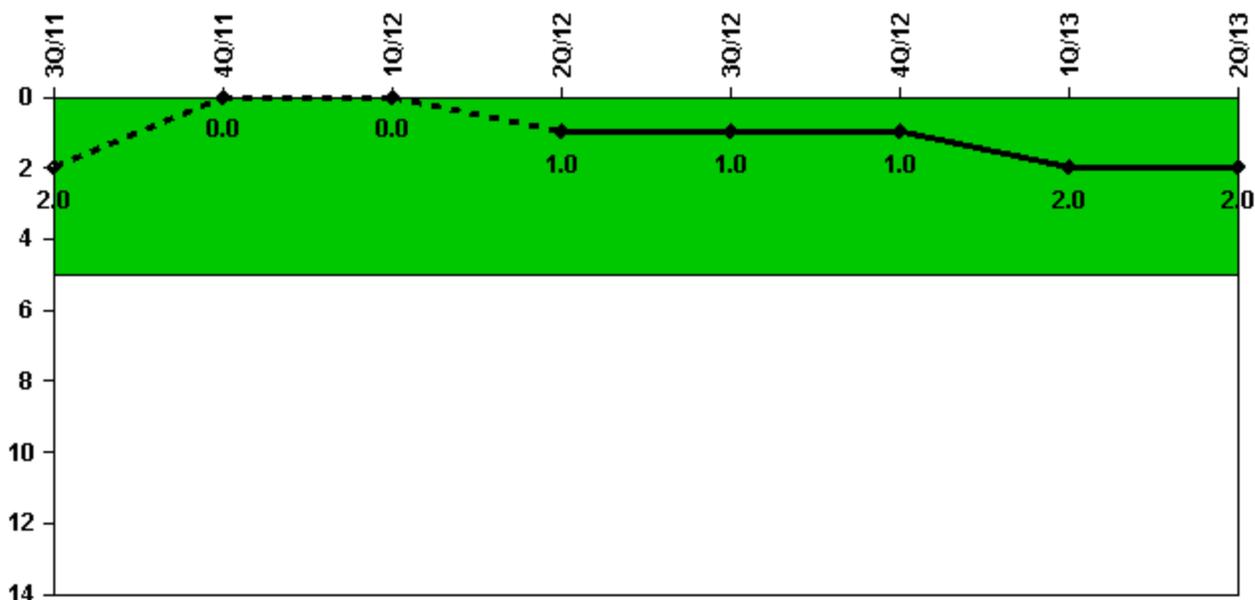
Thresholds: White > 1.0

#### 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
<b>Indicator value</b>	<b>0.0</b>							

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	1	0	0	1	1
<b>Indicator value</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>

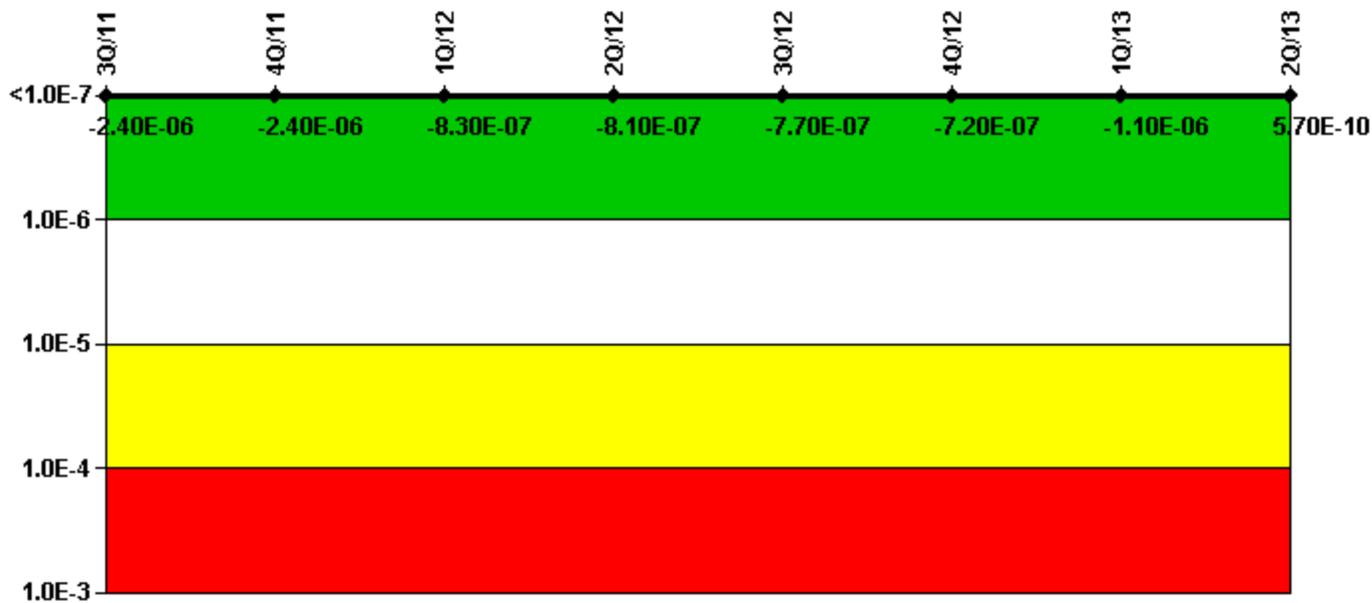
Licensee Comments:

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	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	6.11E-07	5.48E-07	7.71E-08	1.19E-07	1.28E-07	1.16E-07	1.05E-07	2.12E-07
URI ( $\Delta$ CDF)	-3.00E-06	-2.97E-06	-9.11E-07	-9.27E-07	-8.94E-07	-8.33E-07	-1.16E-06	-2.11E-07
PLE	NO							
Indicator value	-2.40E-06	-2.40E-06	-8.30E-07	-8.10E-07	-7.70E-07	-7.20E-07	-1.10E-06	5.70E-10

Licensee Comments:

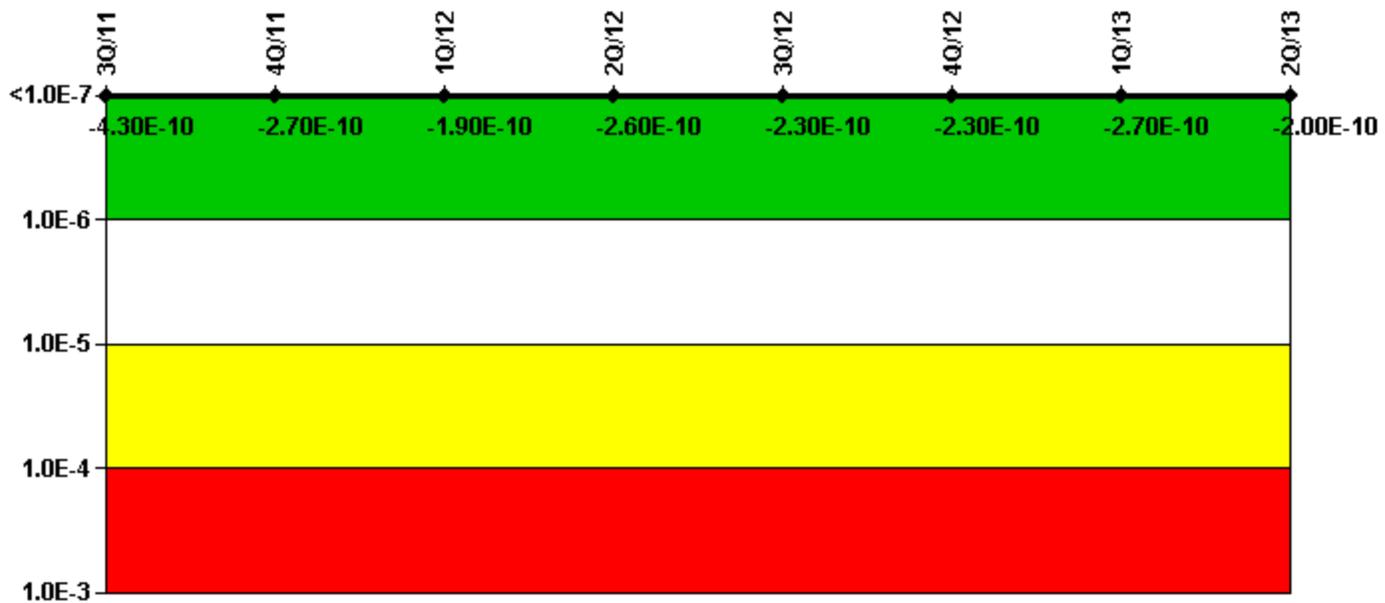
2Q/12: Changed PRA Parameter(s).

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

4Q/11: Risk Cap Invoked.

3Q/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	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	-2.03E-10	-2.04E-11	-3.73E-11	-3.65E-11	5.04E-12	1.50E-11	-2.24E-11	6.29E-11
URI ( $\Delta$ CDF)	-2.31E-10	-2.46E-10	-1.53E-10	-2.20E-10	-2.31E-10	-2.41E-10	-2.48E-10	-2.61E-10
PLE	NO							
Indicator value	-4.30E-10	-2.70E-10	-1.90E-10	-2.60E-10	-2.30E-10	-2.30E-10	-2.70E-10	-2.00E-10

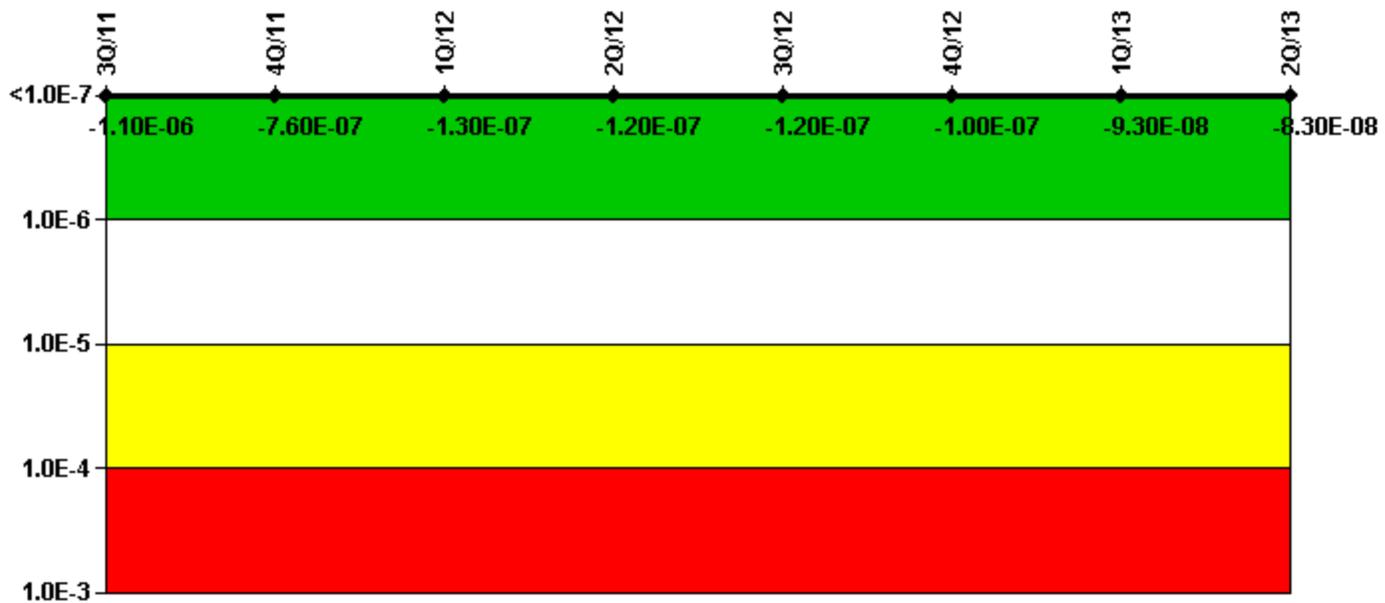
Licensee Comments:

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

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

4Q/11: Change to November 2011 planned unavailable hours deleting 10 hours for the 22 SIP breaker inertial latch inspection because unavailability is only counted during periods that the reactor is critical.

### Mitigating Systems Performance Index, Heat Removal System



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

#### Notes

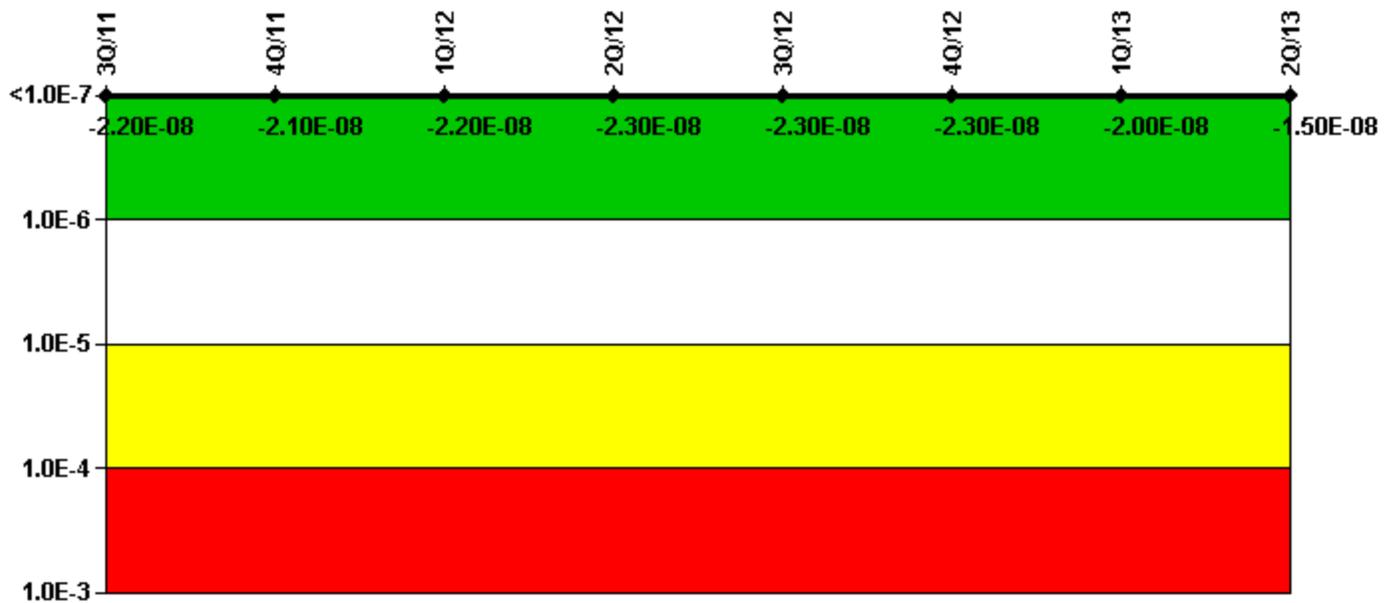
Mitigating Systems Performance Index, Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	-8.04E-08	-1.90E-07	-1.80E-08	-2.19E-08	-2.10E-08	-9.66E-09	-2.41E-08	-2.93E-08
URI ( $\Delta$ CDF)	-9.76E-07	-5.68E-07	-1.15E-07	-9.75E-08	-9.64E-08	-9.09E-08	-6.87E-08	-5.37E-08
PLE	NO							
Indicator value	-1.10E-06	-7.60E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.00E-07	-9.30E-08	-8.30E-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

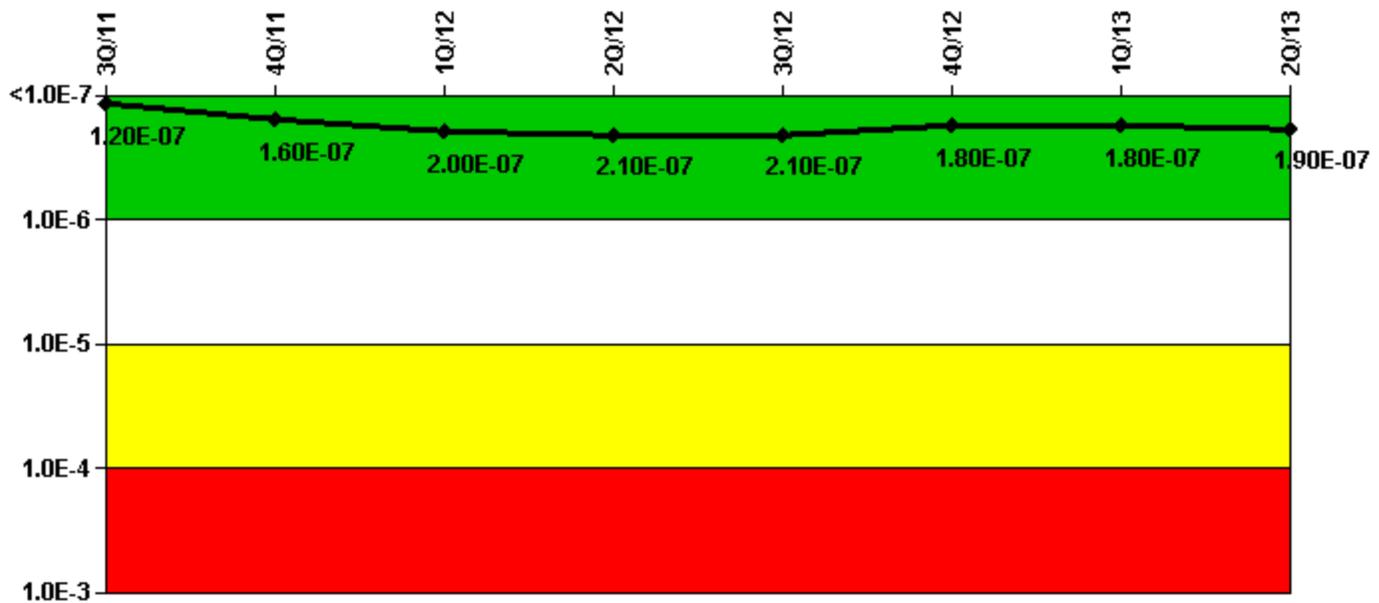
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	-1.10E-08	-1.09E-08	-8.82E-09	-8.80E-09	-8.71E-09	-8.67E-09	-8.69E-09	-4.05E-09
URI ( $\Delta$ CDF)	-1.09E-08	-1.05E-08	-1.36E-08	-1.37E-08	-1.40E-08	-1.41E-08	-1.13E-08	-1.06E-08
PLE	NO							
Indicator value	-2.20E-08	-2.10E-08	-2.20E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.00E-08	-1.50E-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**

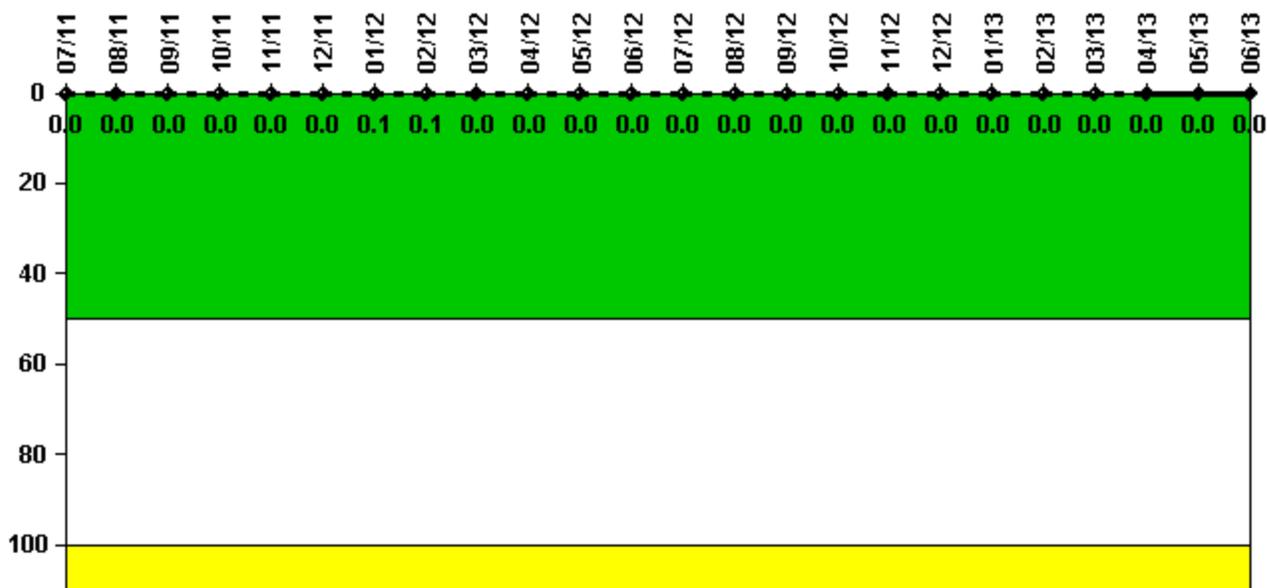
Mitigating Systems Performance Index, Cooling Water Systems	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	7.49E-08	7.59E-08	2.06E-08	2.10E-08	2.04E-08	5.13E-09	5.22E-09	4.90E-09
URI (ΔCDF)	4.59E-08	8.02E-08	1.76E-07	1.90E-07	1.88E-07	1.77E-07	1.79E-07	1.81E-07
PLE	NO							
<b>Indicator value</b>	<b>1.20E-07</b>	<b>1.60E-07</b>	<b>2.00E-07</b>	<b>2.10E-07</b>	<b>2.10E-07</b>	<b>1.80E-07</b>	<b>1.80E-07</b>	<b>1.90E-07</b>

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

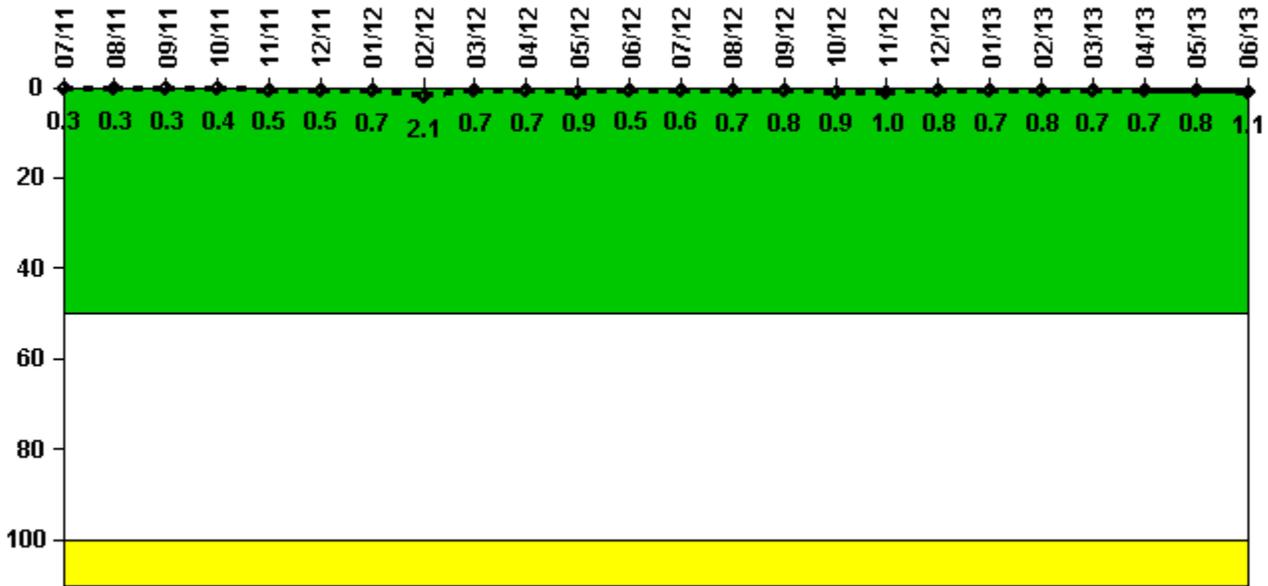
Reactor Coolant System Activity	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum activity	0.000446	0.000450	0.000474	0.000472	0.000467	0.000476	0.000500	0.000509	0.000459	0.000198	0.000189	0.000187
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0.1	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	0.000196	0.000215	0.000217	0.000234	0.000218	0.000232	0.000244	0.000267	0.000246	0.000247	0.000280	0.000239
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

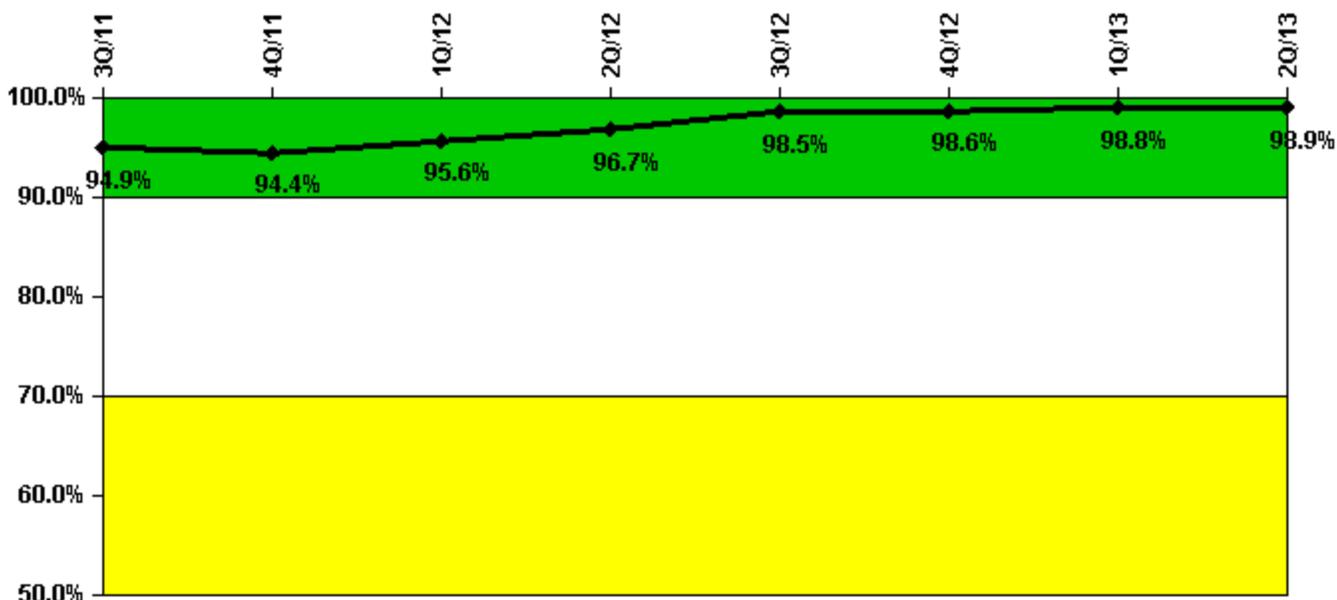
Reactor Coolant System Leakage	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum leakage	0.030	0.030	0.030	0.040	0.050	0.050	0.070	0.210	0.070	0.070	0.090	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<b>0.4</b>	<b>0.5</b>	<b>0.5</b>	<b>0.7</b>	<b>2.1</b>	<b>0.7</b>	<b>0.7</b>	<b>0.9</b>	<b>0.5</b>

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	0.060	0.070	0.080	0.090	0.100	0.080	0.070	0.080	0.070	0.073	0.080	0.110
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	<b>0.6</b>	<b>0.7</b>	<b>0.8</b>	<b>0.9</b>	<b>1.0</b>	<b>0.8</b>	<b>0.7</b>	<b>0.8</b>	<b>0.7</b>	<b>0.7</b>	<b>0.8</b>	<b>1.1</b>

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

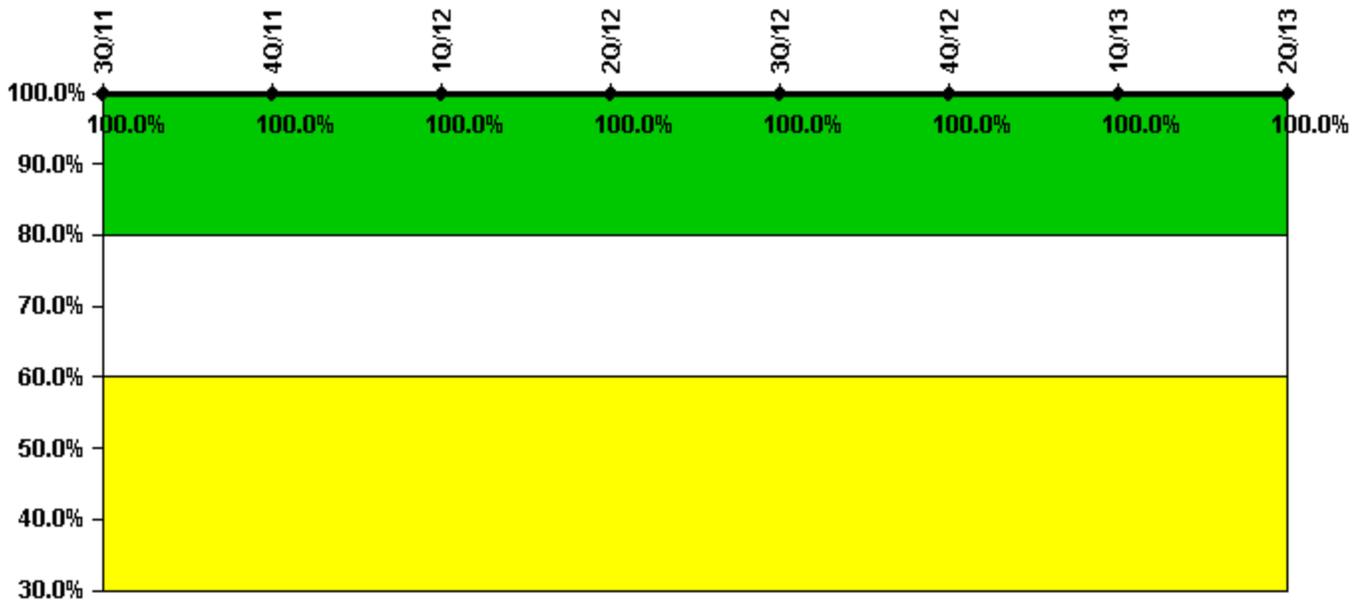
#### Notes

Drill/Exercise Performance	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful opportunities	143.0	14.0	131.0	289.0	374.0	266.0	101.0	298.0
Total opportunities	151.0	16.0	131.0	293.0	374.0	269.0	101.0	299.0
Indicator value	94.9%	94.4%	95.6%	96.7%	98.5%	98.6%	98.8%	98.9%

Licensee Comments:

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

### ERO Drill Participation



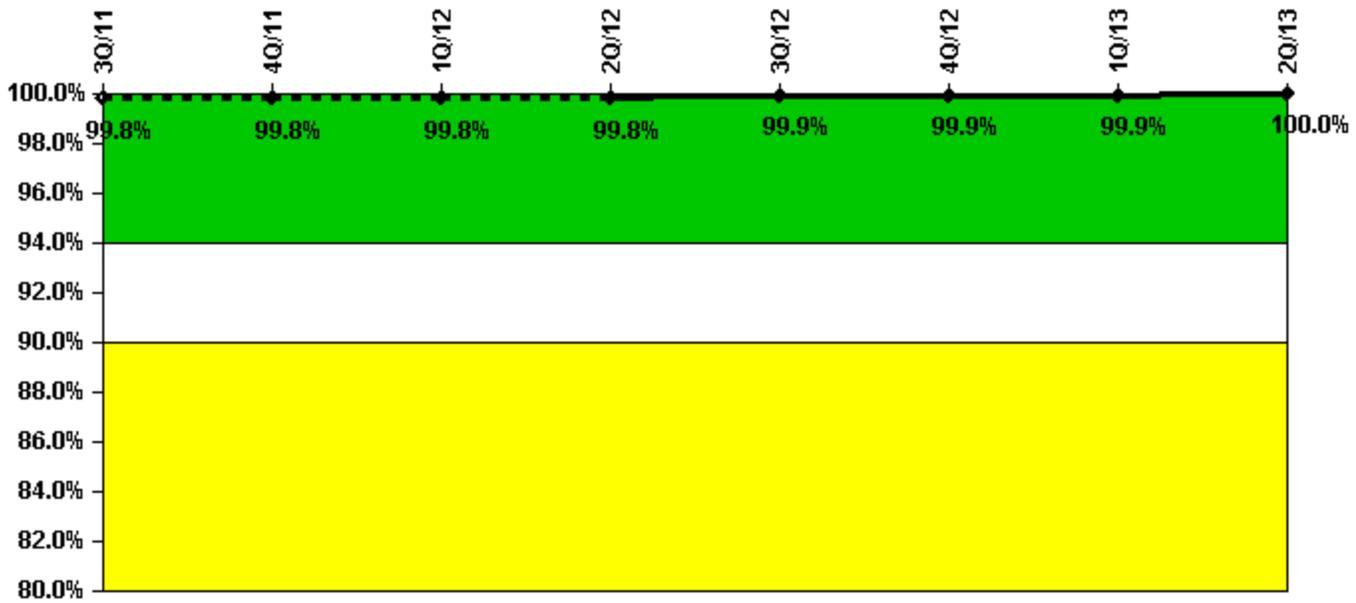
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

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

Licensee Comments: none

### Alert & Notification System



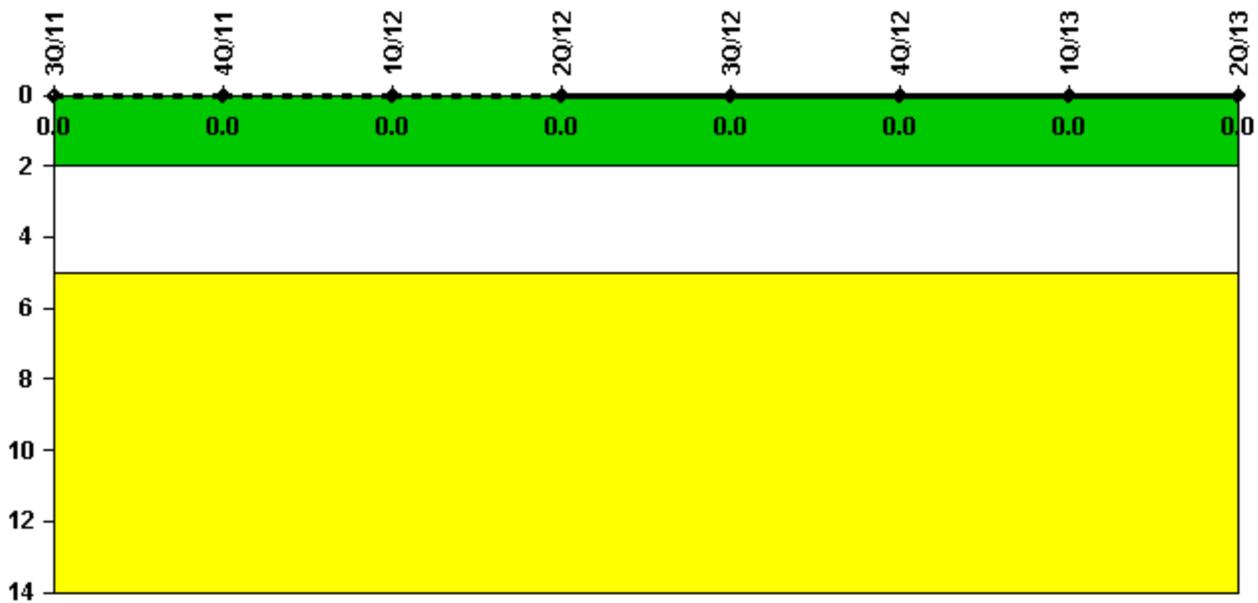
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	1201	993	956	787	1415	577	1015	1077
Total sirens-tests	1204	996	957	789	1415	577	1015	1077
Indicator value	99.8%	99.8%	99.8%	99.8%	99.9%	99.9%	99.9%	100.0%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



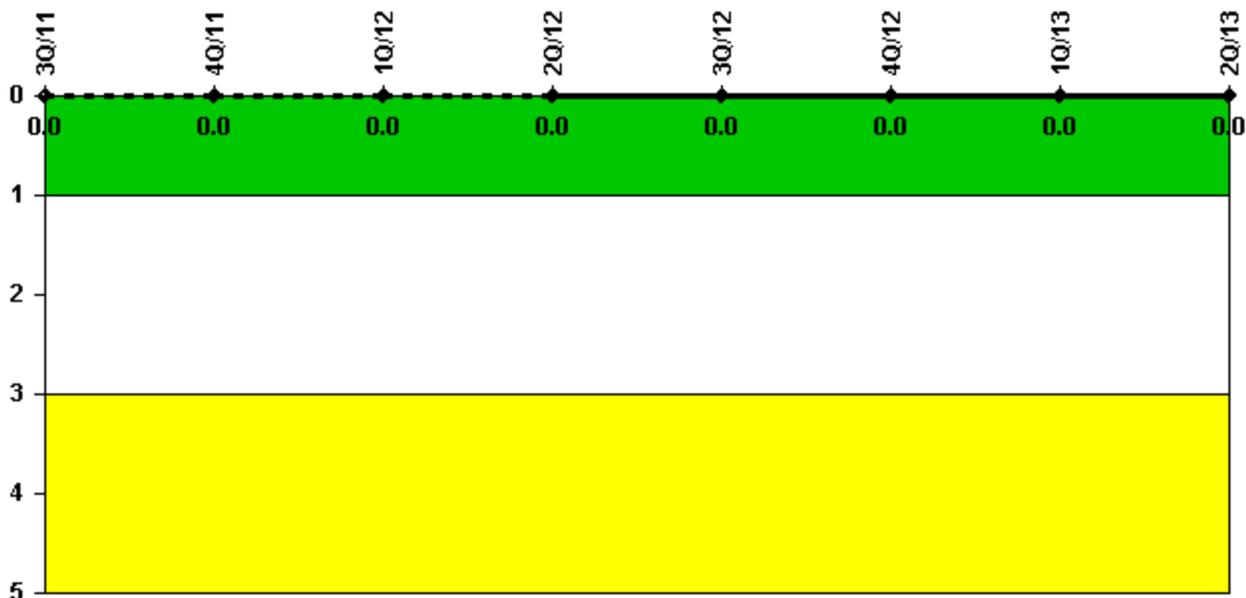
Thresholds: White > 2.0 Yellow > 5.0

#### 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
<b>Indicator value</b>	<b>0</b>							

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*