

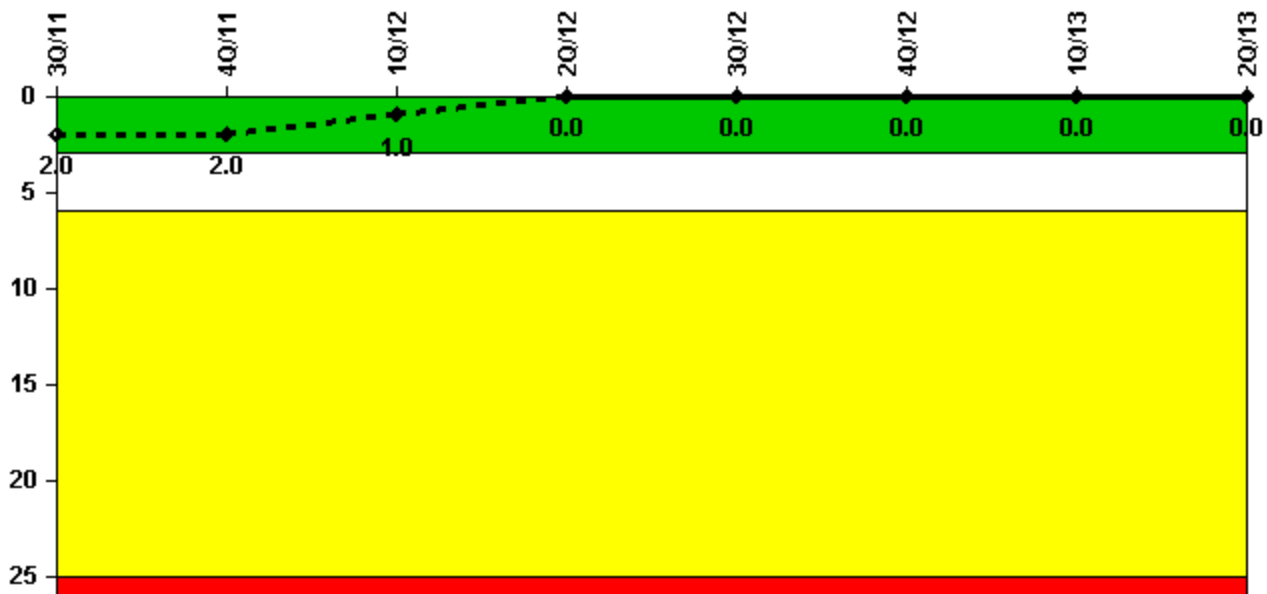
## Surry 2

### 2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

#### Unplanned Scrams per 7000 Critical Hrs



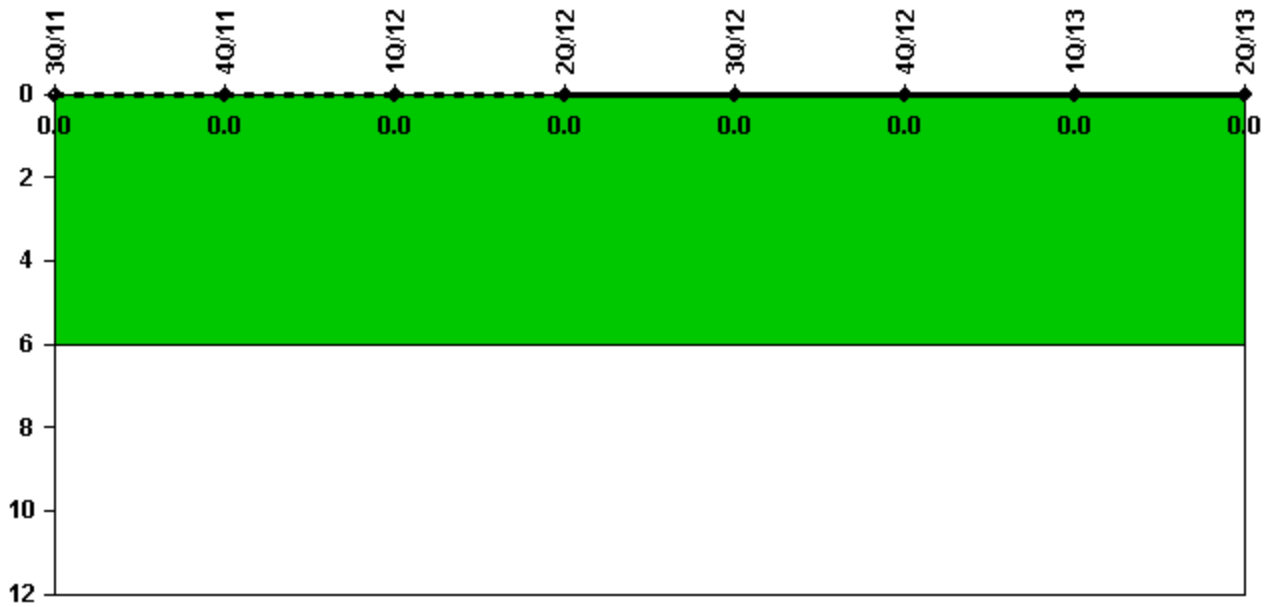
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

#### Notes

Unplanned Scrams per 7000 Critical Hrs	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	2184.0	2208.0	1452.1	2159.0	2184.0
<b>Indicator value</b>	<b>2.0</b>	<b>2.0</b>	<b>1.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



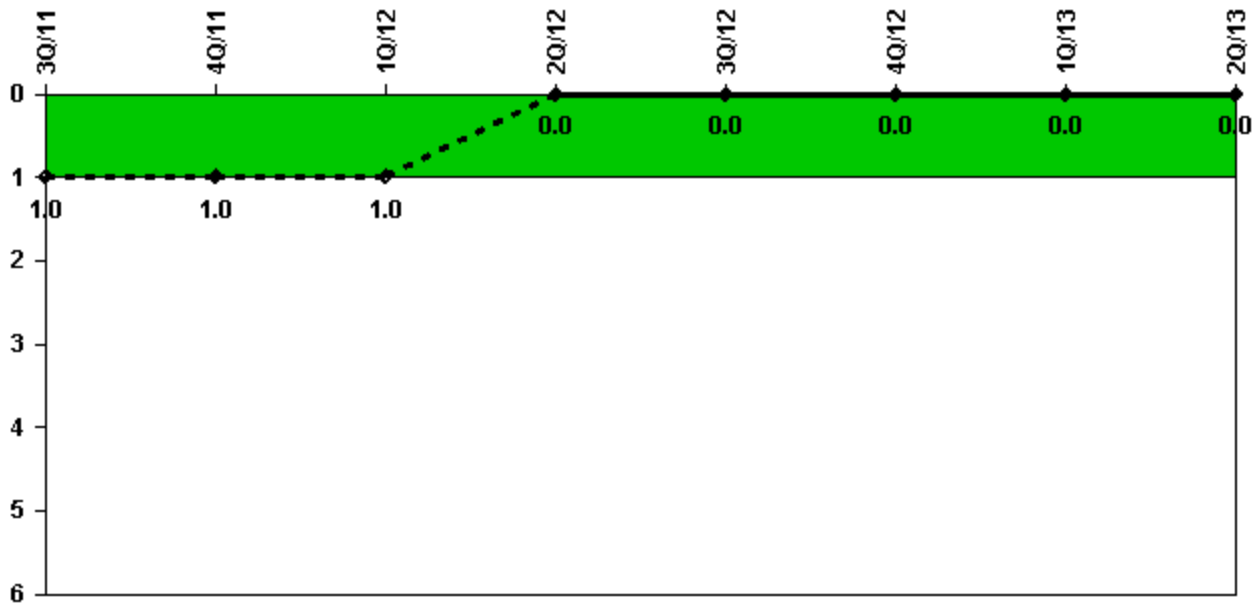
Thresholds: White > 6.0

#### 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	2184.0	2208.0	1452.1	2159.0	2184.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Unplanned Scrams with Complications



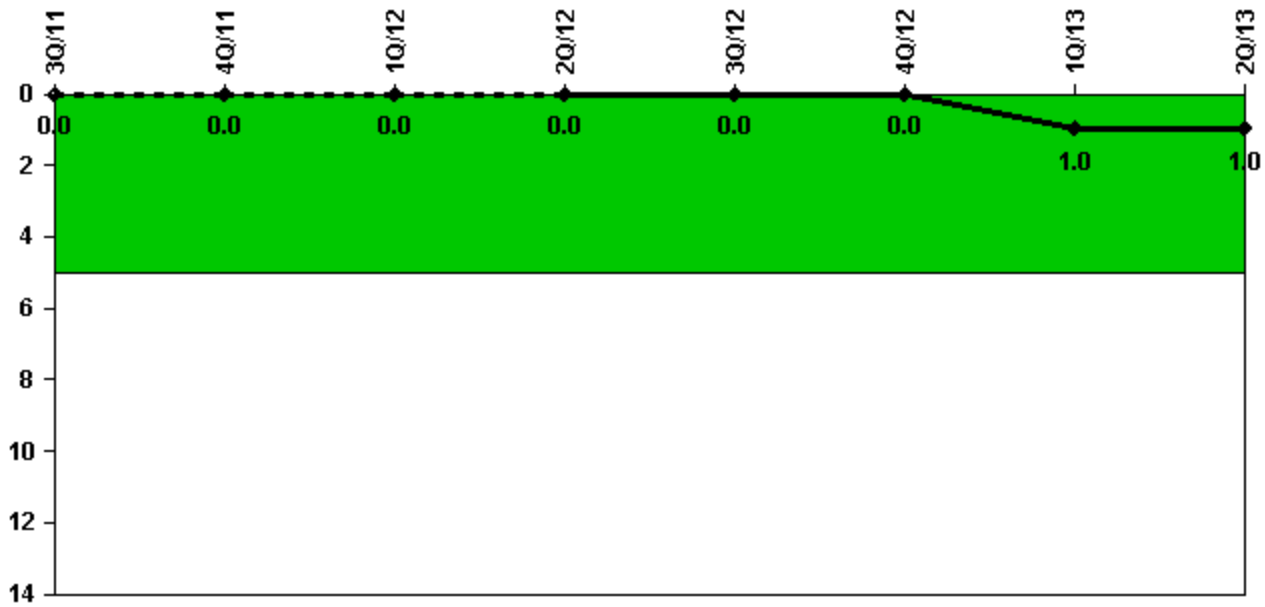
Thresholds: White > 1.0

#### 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>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

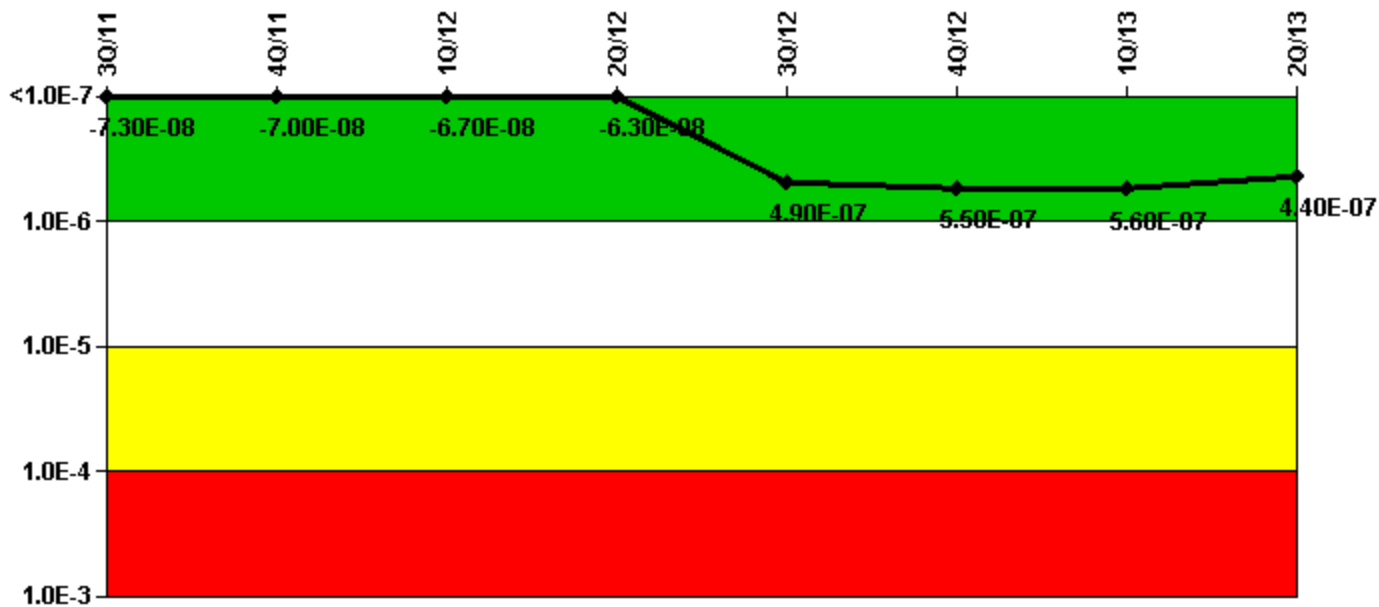
#### Notes

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

Licensee Comments:

1Q/13: See Surry LER S1-2013-001-00 dated January 30, 2013.

### 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)	-2.69E-09	-2.99E-09	-3.00E-09	-3.00E-09	4.58E-08	2.85E-08	3.22E-08	7.73E-09
URI ( $\Delta$ CDF)	-7.00E-08	-6.73E-08	-6.36E-08	-6.03E-08	4.44E-07	5.21E-07	5.27E-07	4.34E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.30E-08	-7.00E-08	-6.70E-08	-6.30E-08	4.90E-07	5.50E-07	5.60E-07	4.40E-07

Licensee Comments:

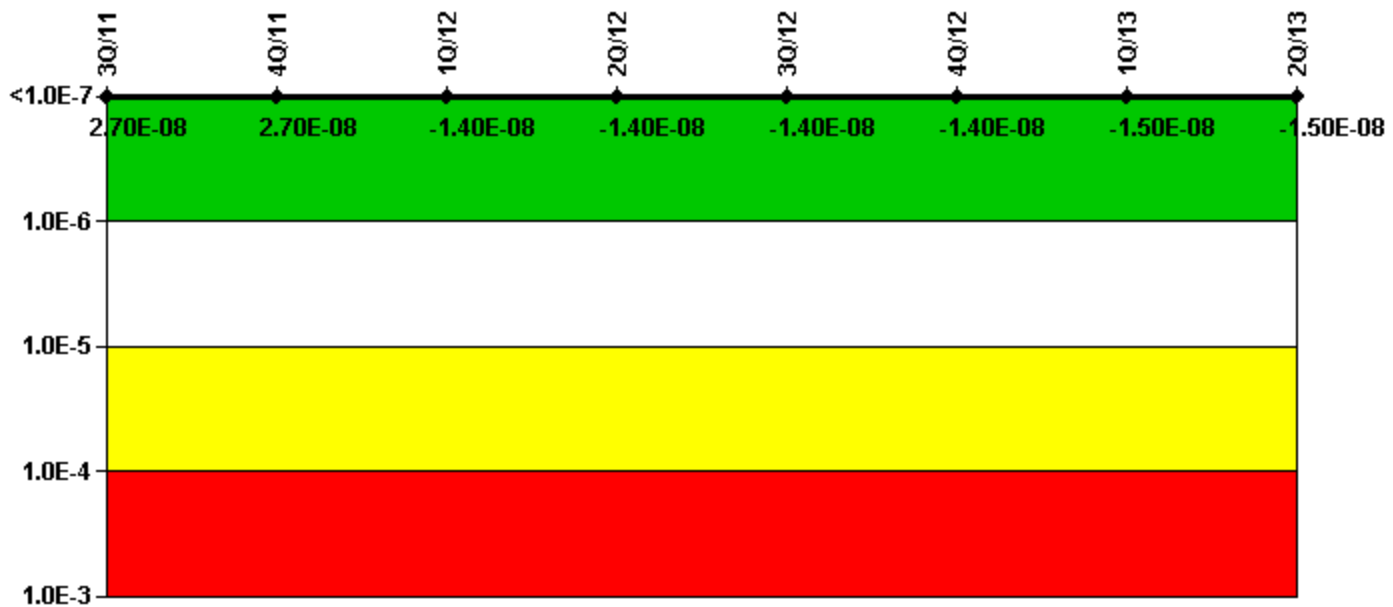
2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked. An evaluation for an August run failure of #2 emergency diesel was completed. Therefore historical data for August 2012 was changed with no change in color.

3Q/12: Risk Cap Invoked.

### Mitigating Systems Performance Index, High Pressure Injection System



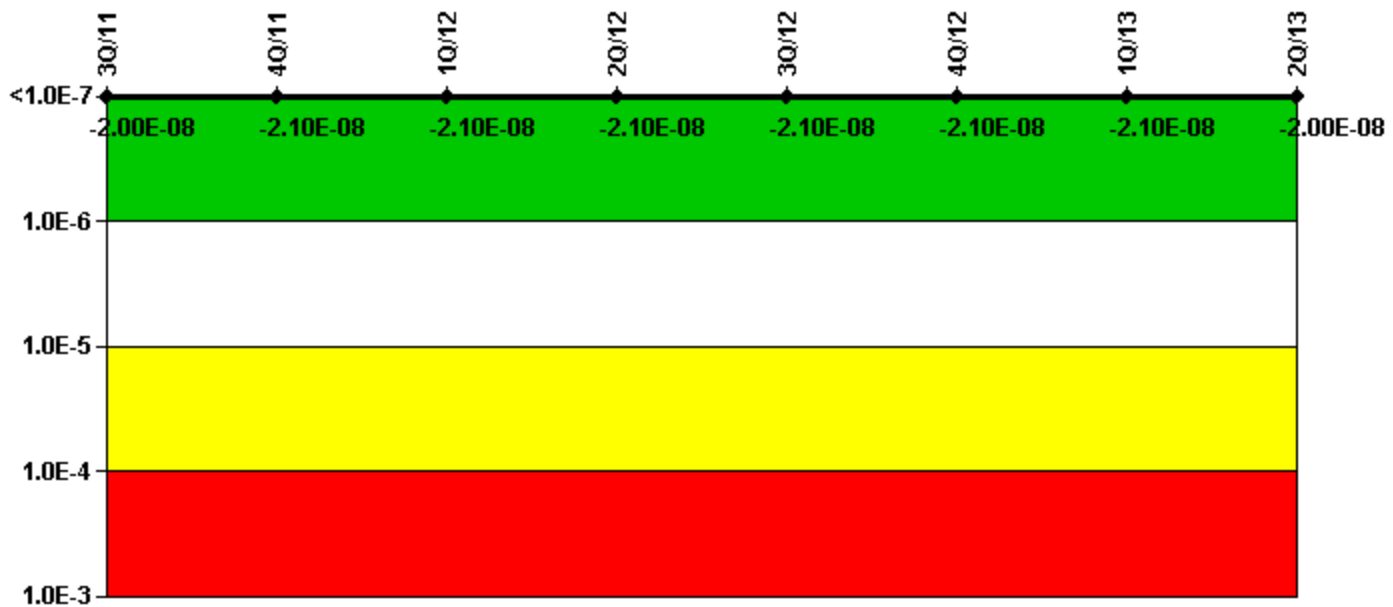
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### 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)	1.68E-09	2.30E-09	1.95E-09	1.92E-09	1.32E-09	1.31E-09	-2.13E-10	2.17E-10
URI ( $\Delta$ CDF)	2.50E-08	2.47E-08	-1.58E-08	-1.55E-08	-1.51E-08	-1.52E-08	-1.51E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.70E-08	2.70E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



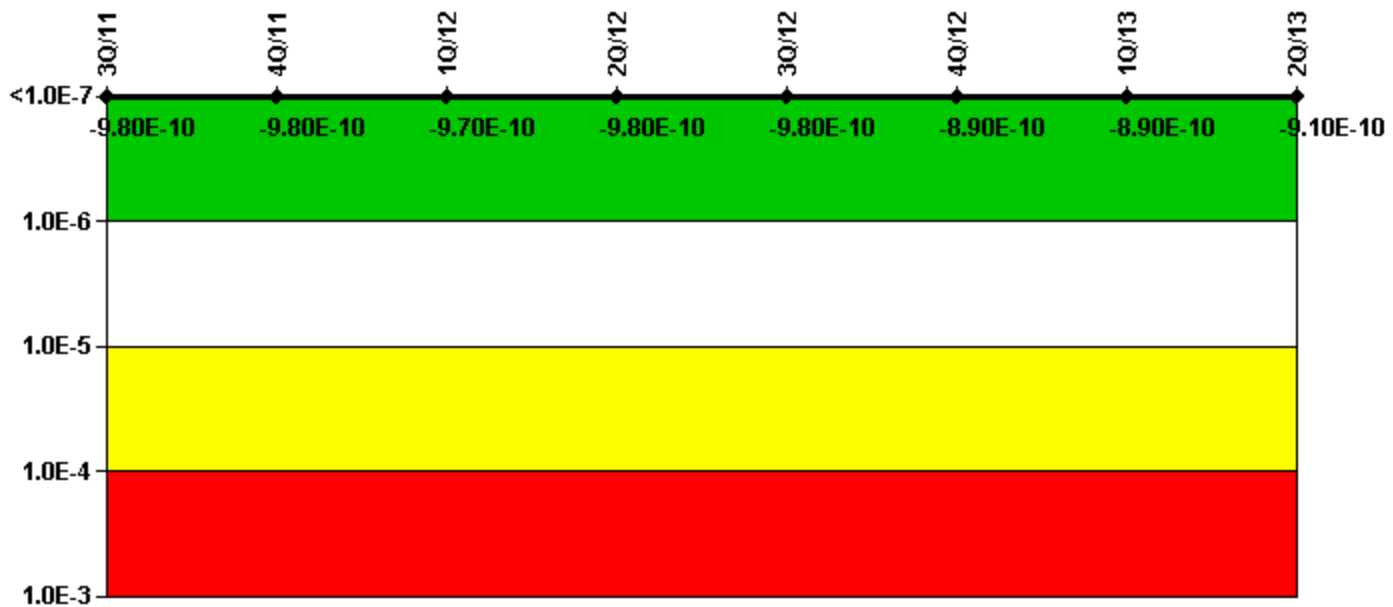
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	-5.50E-09	-5.77E-09	-5.77E-09	-5.72E-09	-5.69E-09	-5.68E-09	-5.68E-09	-4.23E-09
URI ( $\Delta$ CDF)	-1.49E-08	-1.49E-08	-1.54E-08	-1.49E-08	-1.49E-08	-1.54E-08	-1.54E-08	-1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.00E-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

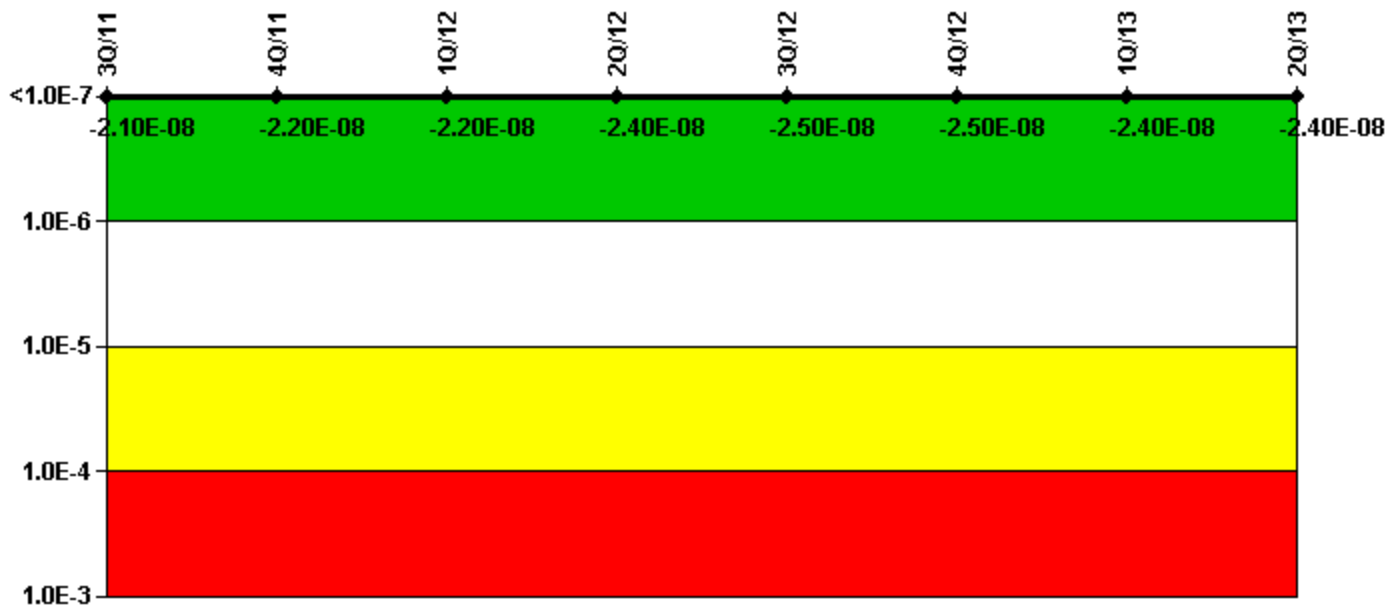
#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	1.25E-10	1.30E-10	1.53E-10	1.50E-10	1.46E-10	1.47E-10	1.47E-10	1.41E-10
URI ( $\Delta$ CDF)	-1.10E-09	-1.11E-09	-1.13E-09	-1.13E-09	-1.13E-09	-1.03E-09	-1.04E-09	-1.05E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.80E-10	-9.80E-10	-9.70E-10	-9.80E-10	-9.80E-10	-8.90E-10	-8.90E-10	-9.10E-10

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



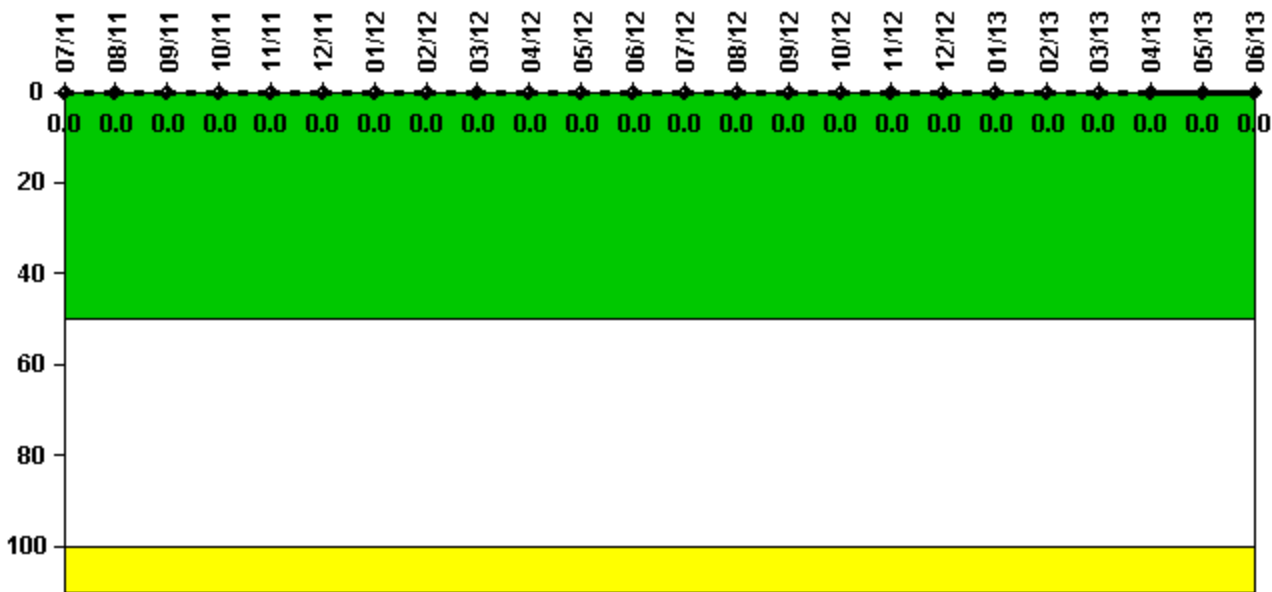
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### 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 ( $\Delta$ CDF)	1.38E-09	1.21E-09	1.01E-09	7.76E-13	-1.53E-09	-1.34E-09	-1.11E-09	-1.11E-09
URI ( $\Delta$ CDF)	-2.27E-08	-2.31E-08	-2.35E-08	-2.37E-08	-2.39E-08	-2.34E-08	-2.32E-08	-2.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.20E-08	-2.20E-08	-2.40E-08	-2.50E-08	-2.50E-08	-2.40E-08	-2.40E-08

Licensee Comments: none

### Reactor Coolant System Activity



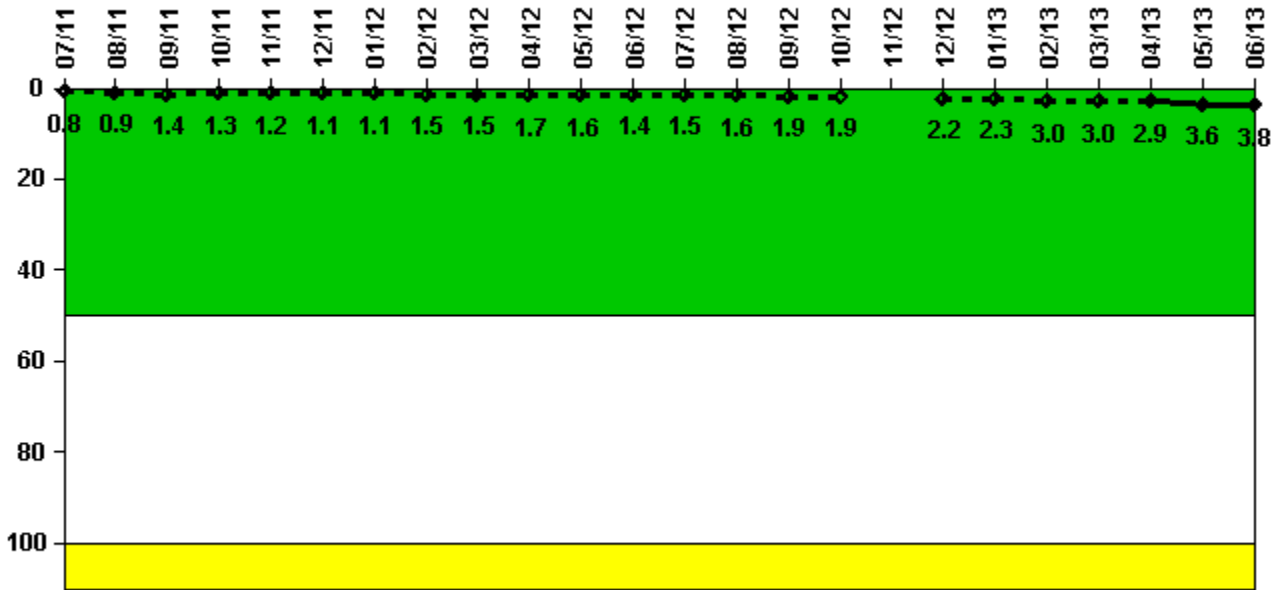
Thresholds: White > 50.0 Yellow > 100.0

#### 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	0.000120	0.000131	0.000212	0.000155	0.000315	0.000198	0.000149	0.000196	0.000185	0.000231	0.000202	0.000165
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
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	0.000174	0.000202	0.000224	0.000190	0.000180	0.000132	0.000100	0.000131	0.000105	0.000109	0.000120	0.000115
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

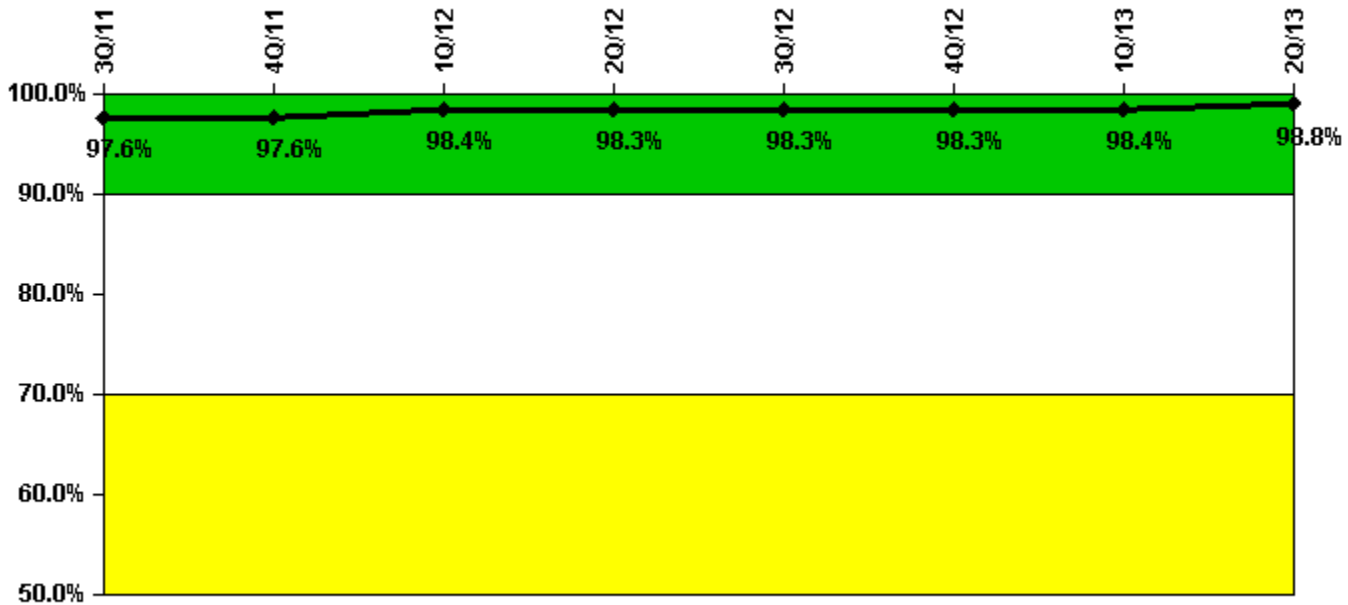
**Notes**

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	0.080	0.090	0.140	0.130	0.120	0.110	0.110	0.150	0.150	0.170	0.160	0.140
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>0.8</b>	<b>0.9</b>	<b>1.4</b>	<b>1.3</b>	<b>1.2</b>	<b>1.1</b>	<b>1.1</b>	<b>1.5</b>	<b>1.5</b>	<b>1.7</b>	<b>1.6</b>	<b>1.4</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	0.150	0.160	0.190	0.190	N/A	0.220	0.230	0.300	0.300	0.290	0.360	0.380
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>1.5</b>	<b>1.6</b>	<b>1.9</b>	<b>1.9</b>	<b>N/A</b>	<b>2.2</b>	<b>2.3</b>	<b>3.0</b>	<b>3.0</b>	<b>2.9</b>	<b>3.6</b>	<b>3.8</b>

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

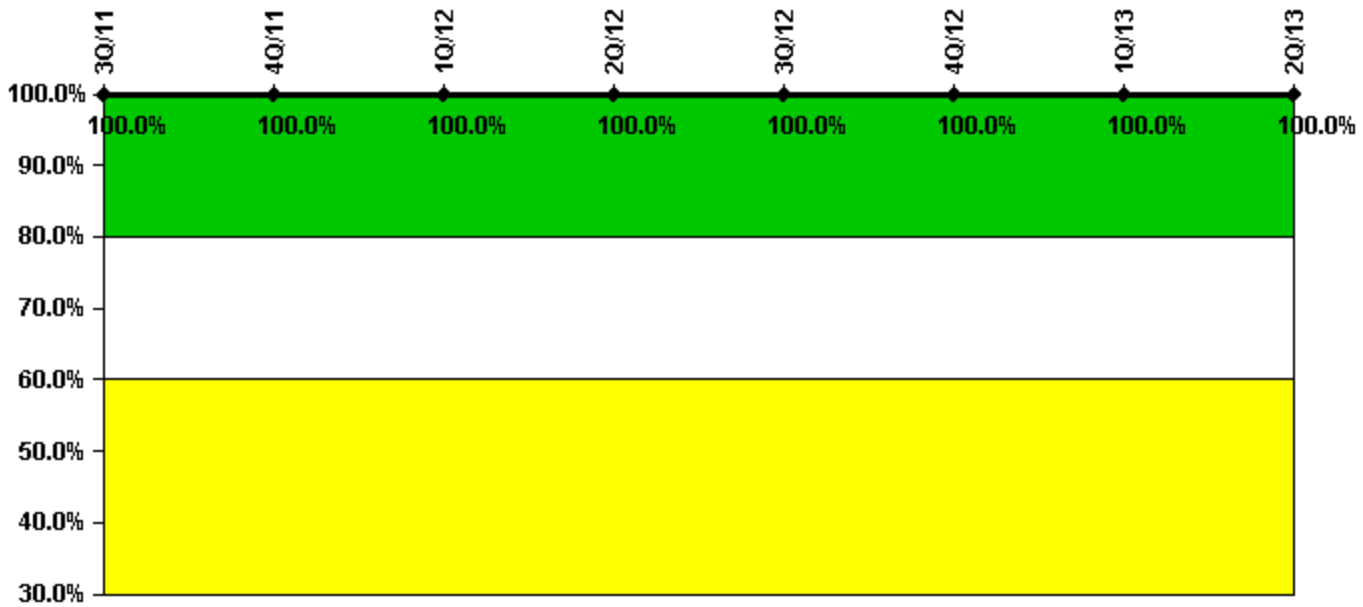
#### Notes

Drill/Exercise Performance	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful opportunities	31.0	27.0	38.0	24.0	32.0	24.0	48.0	22.0
Total opportunities	31.0	27.0	38.0	26.0	32.0	24.0	49.0	22.0
Indicator value	97.6%	97.6%	98.4%	98.3%	98.3%	98.3%	98.4%	98.8%

Licensee Comments:

3Q/11: An NRC assessment determined a missed classification occurred in June 2011. Historical data was corrected with no change in color.

### ERO Drill Participation



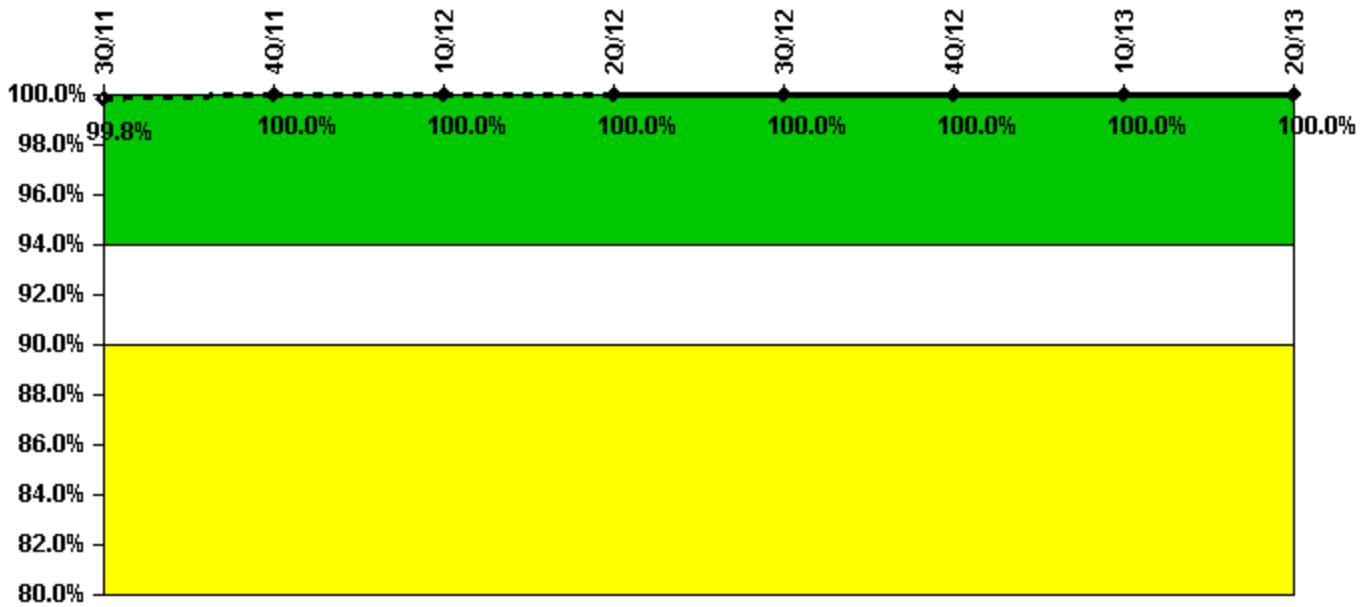
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Participating Key personnel	138.0	141.0	153.0	150.0	151.0	155.0	165.0	161.0
Total Key personnel	138.0	141.0	153.0	150.0	151.0	155.0	165.0	161.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



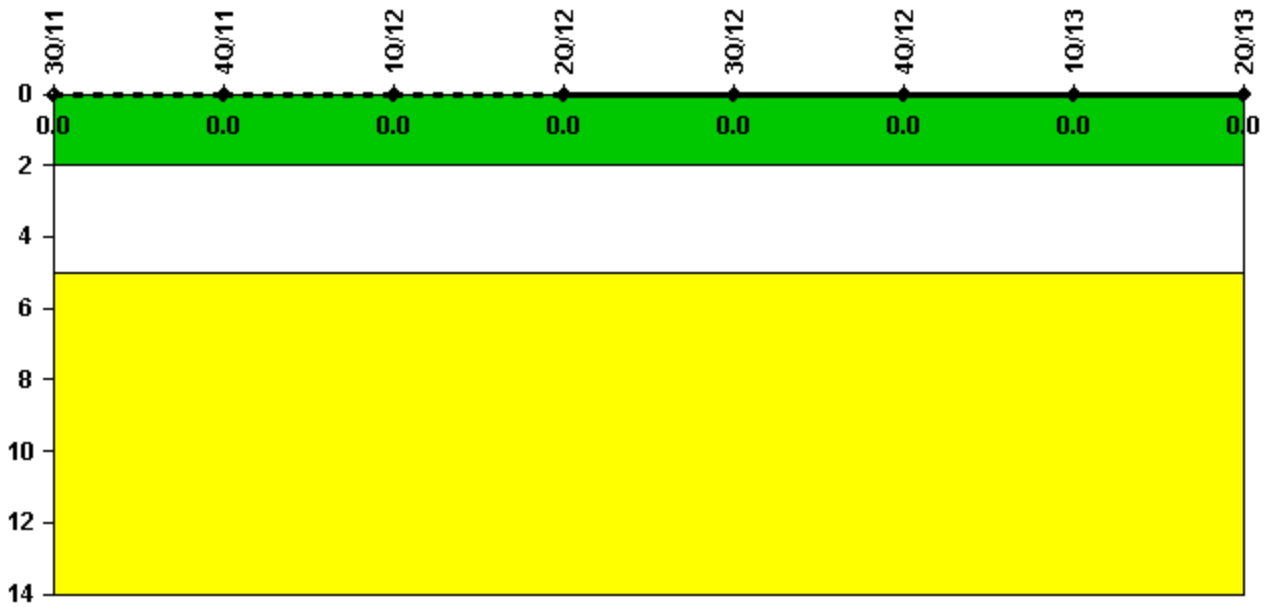
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	476	544	476	544	476	559	497	567
Total sirens-tests	476	544	476	544	476	559	497	568
Indicator value	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



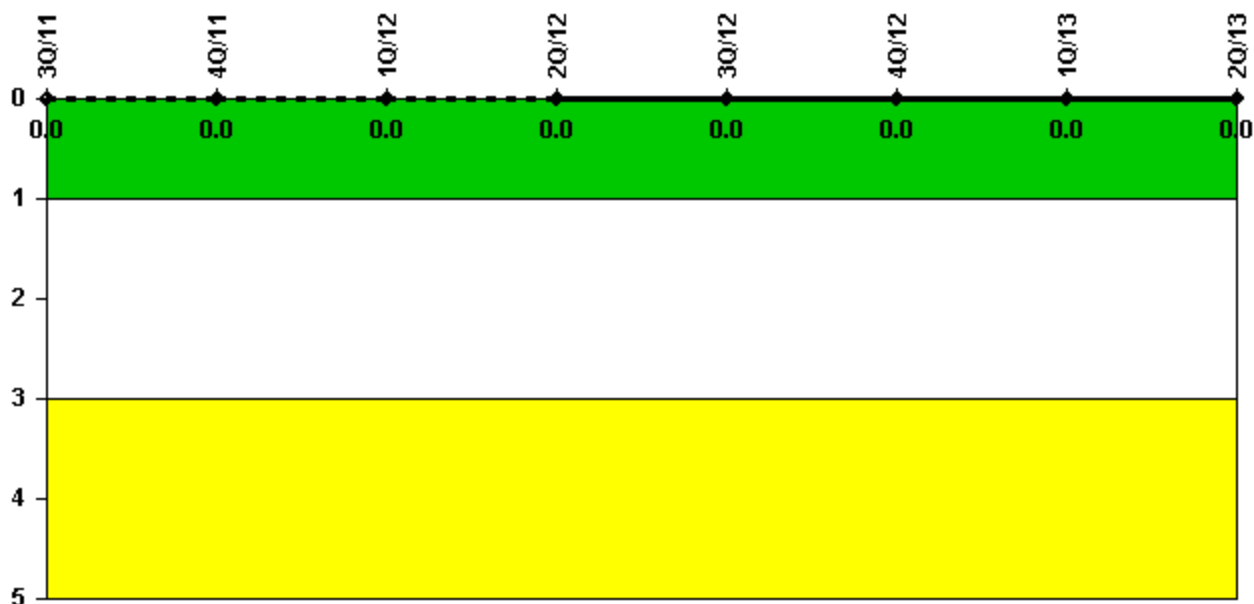
Thresholds: White > 2.0 Yellow > 5.0

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

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*