

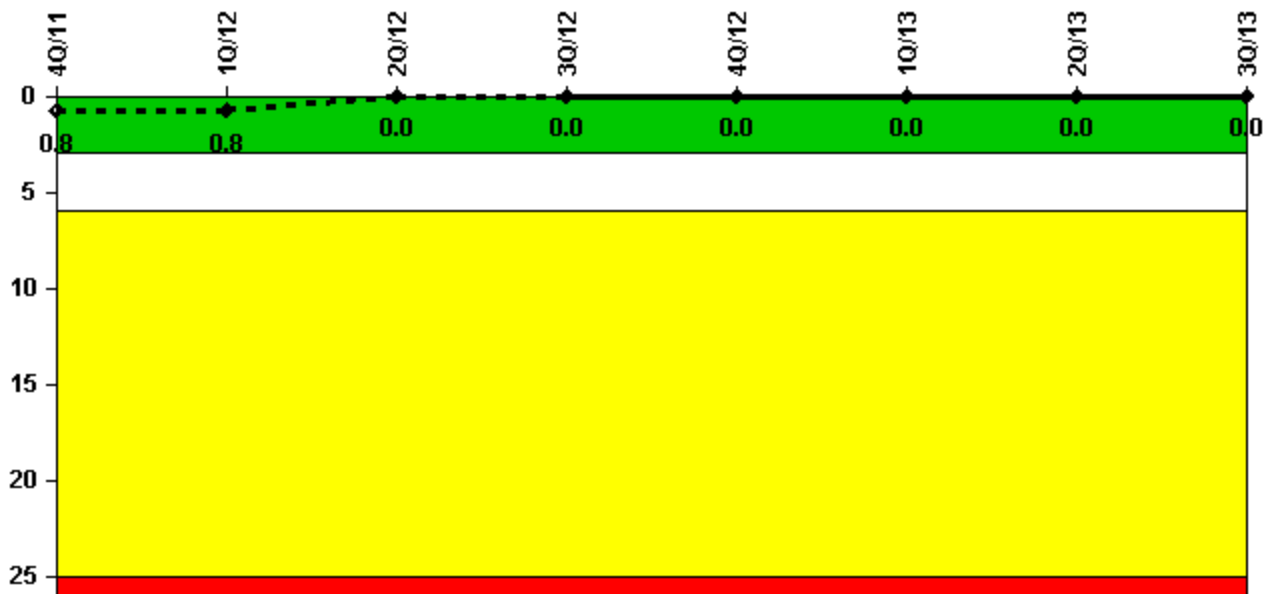
# Surry 1

## 3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



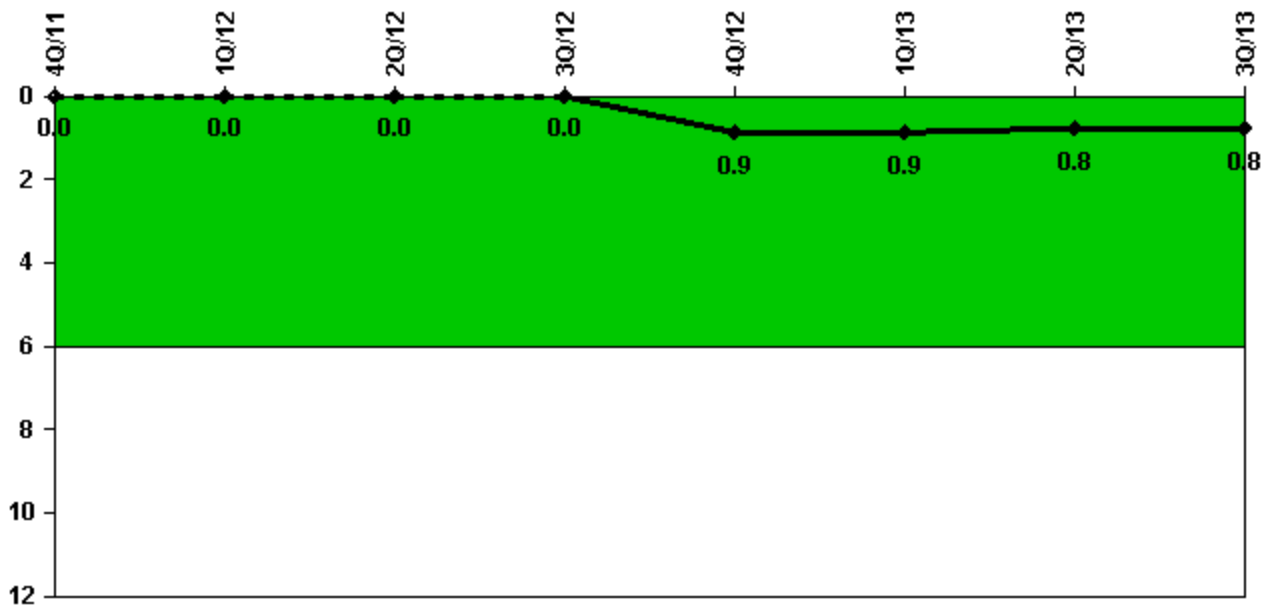
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	1456.7	2208.0	2209.0	2159.0	2184.0	2208.0
Indicator value	0.8	0.8	0	0	0	0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



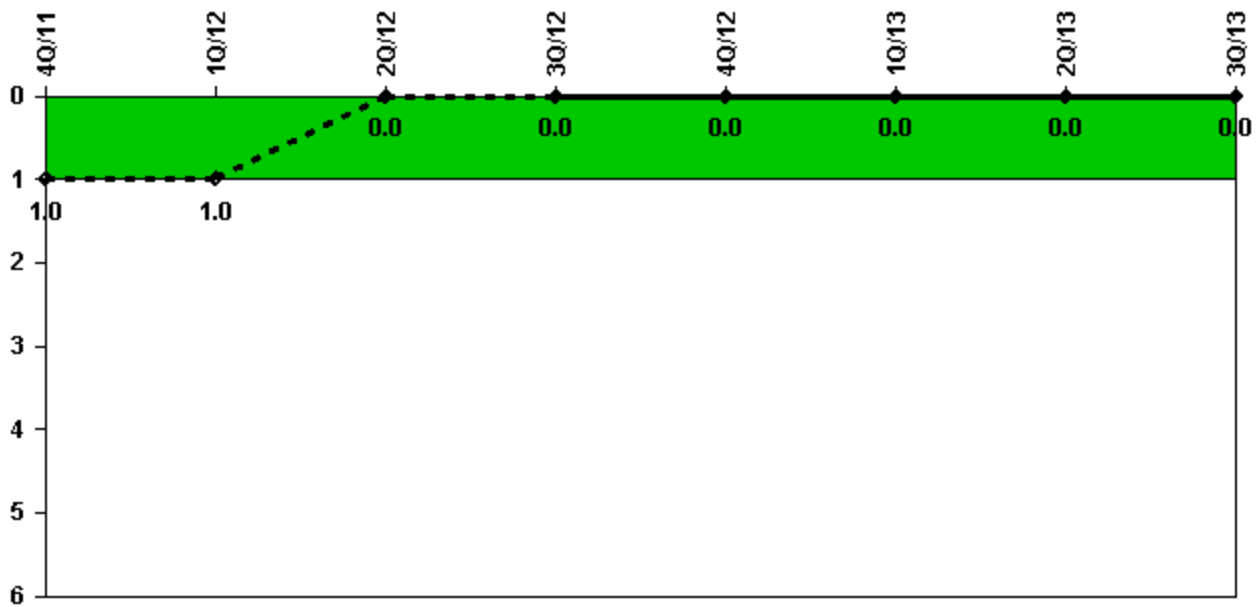
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2183.0	1456.7	2208.0	2209.0	2159.0	2184.0	2208.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>0.9</b>	<b>0.8</b>	<b>0.8</b>

Licensee Comments: none

### Unplanned Scrams with Complications



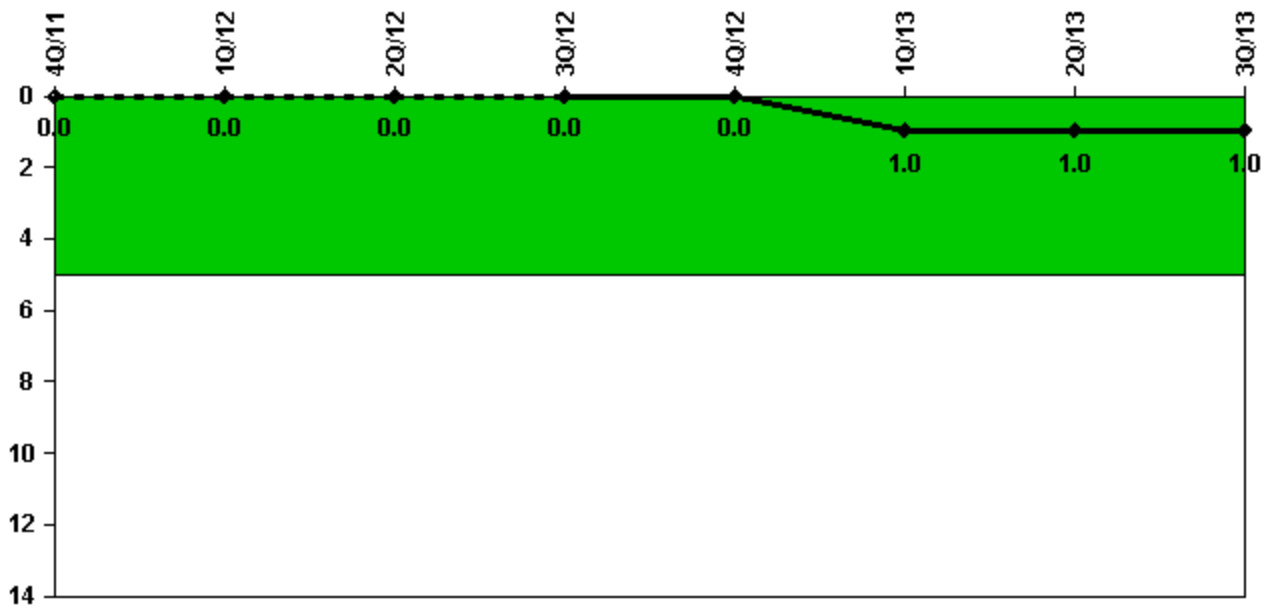
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/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>0.0</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

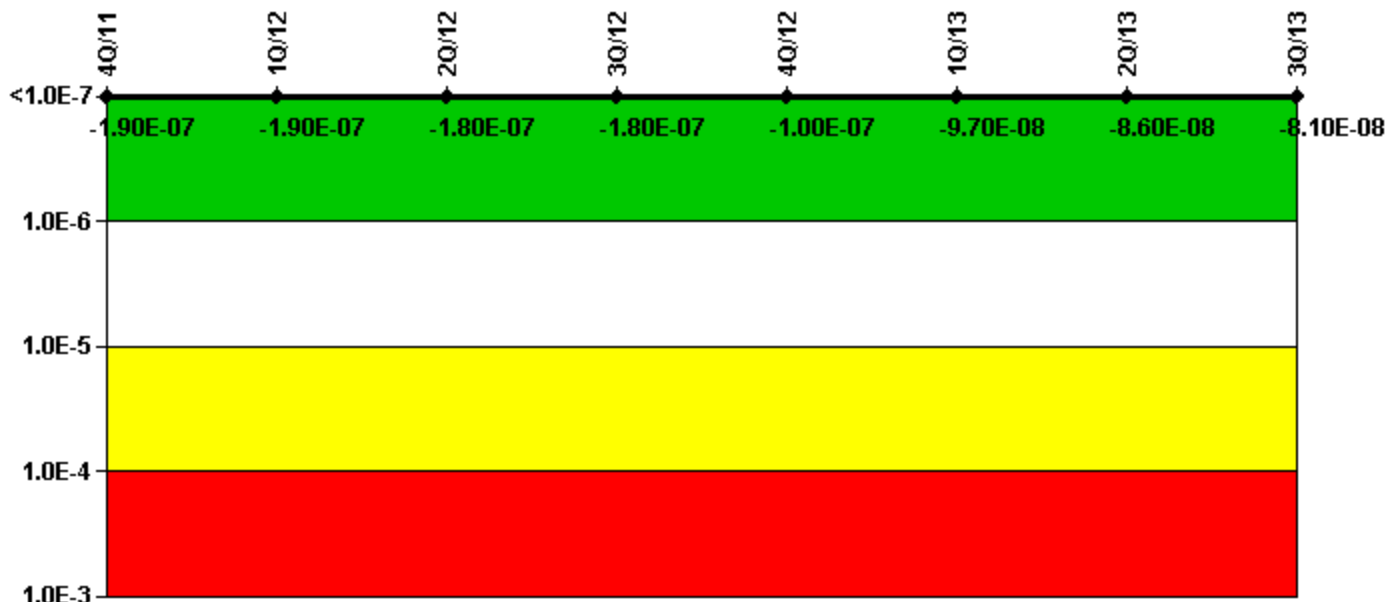
#### Notes

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



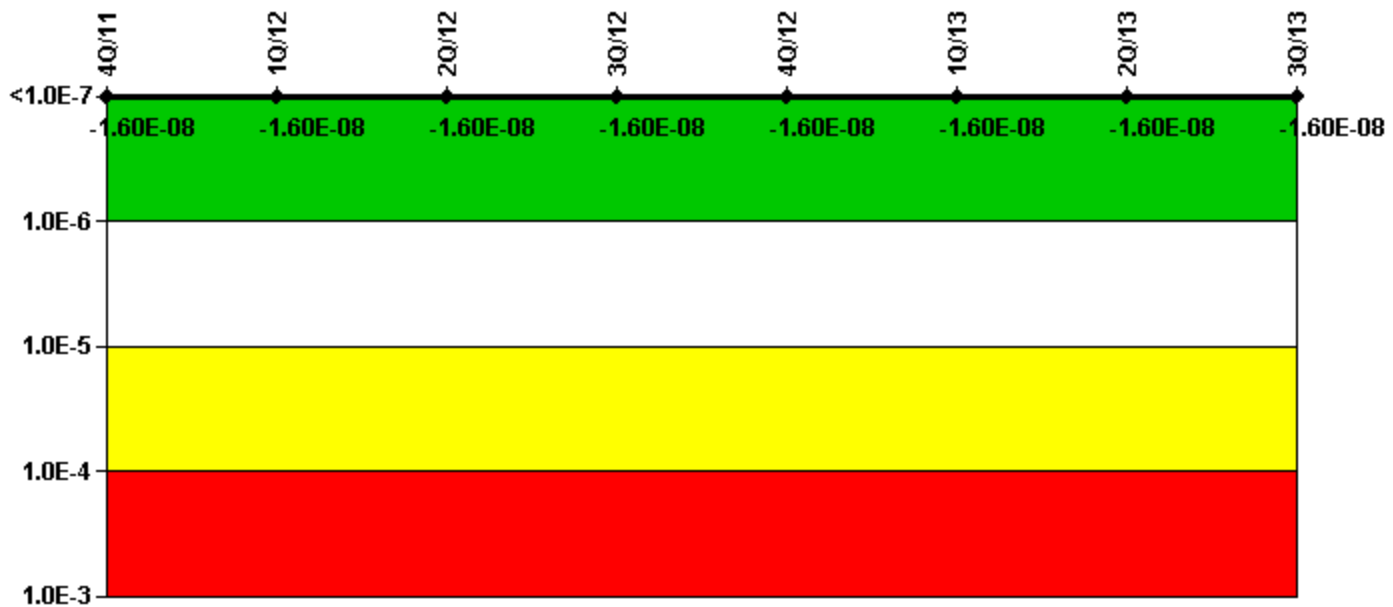
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI ( $\Delta$ CDF)	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08
URI ( $\Delta$ CDF)	-1.77E-07	-1.74E-07	-1.68E-07	-1.66E-07	-8.66E-08	-8.29E-08	-7.22E-08	-6.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-1.90E-07	-1.80E-07	-1.80E-07	-1.00E-07	-9.70E-08	-8.60E-08	-8.10E-08

Licensee Comments: none

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



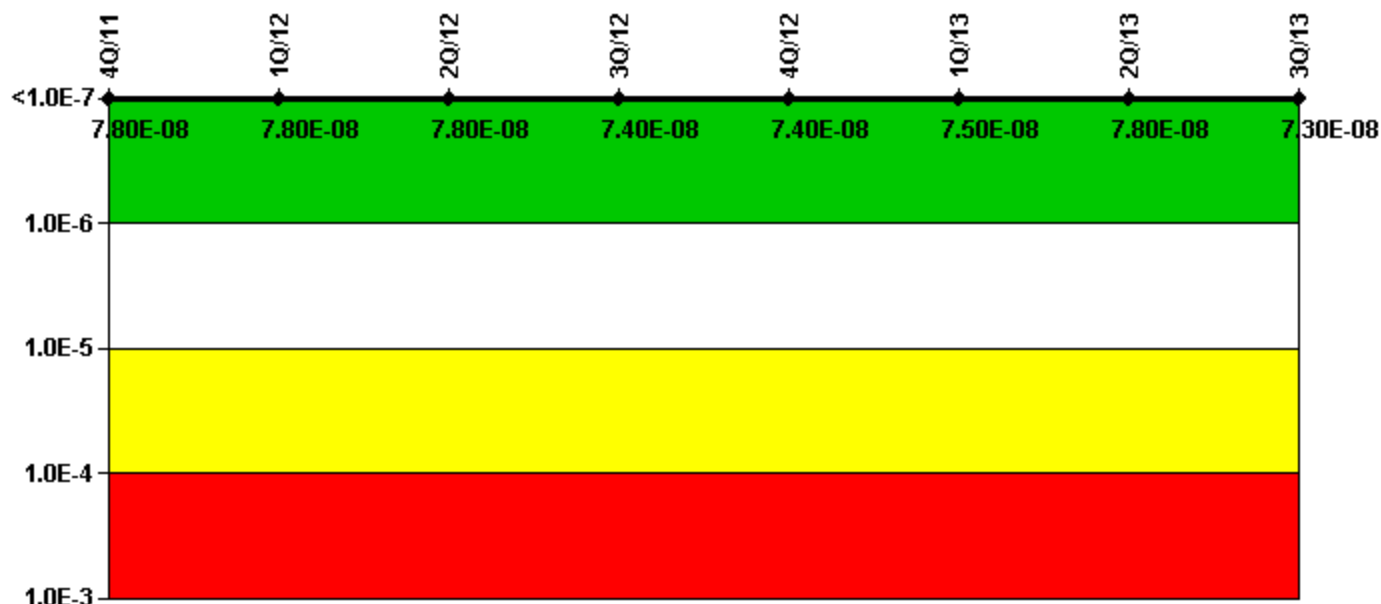
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI ( $\Delta$ CDF)	-9.26E-10	-7.52E-10	-7.51E-10	-7.51E-10	-7.35E-10	-7.21E-10	-7.22E-10	-6.78E-10
URI ( $\Delta$ CDF)	-1.52E-08	-1.52E-08	-1.53E-08	-1.53E-08	-1.52E-08	-1.51E-08	-1.51E-08	-1.49E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



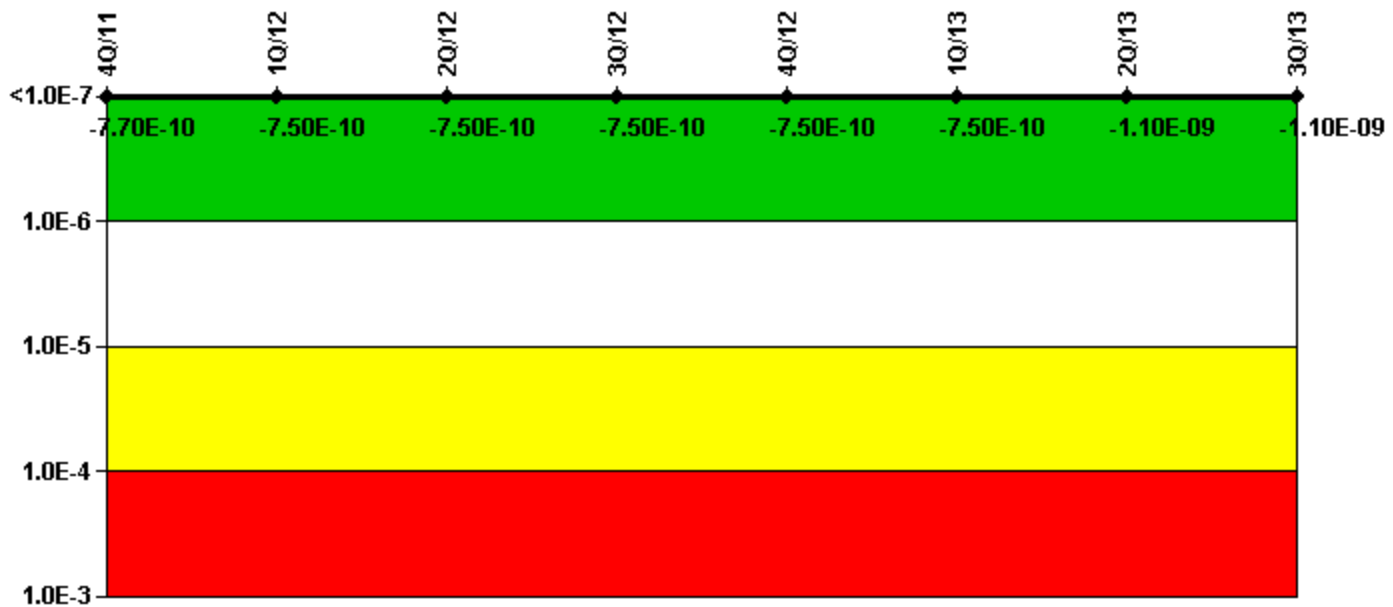
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI ( $\Delta$ CDF)	1.04E-08	7.92E-09	8.75E-09	4.80E-09	4.52E-09	4.93E-09	4.35E-09	1.69E-09
URI ( $\Delta$ CDF)	6.79E-08	6.96E-08	6.96E-08	6.96E-08	6.96E-08	6.96E-08	7.32E-08	7.14E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.80E-08	7.80E-08	7.80E-08	7.40E-08	7.40E-08	7.50E-08	7.80E-08	7.30E-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

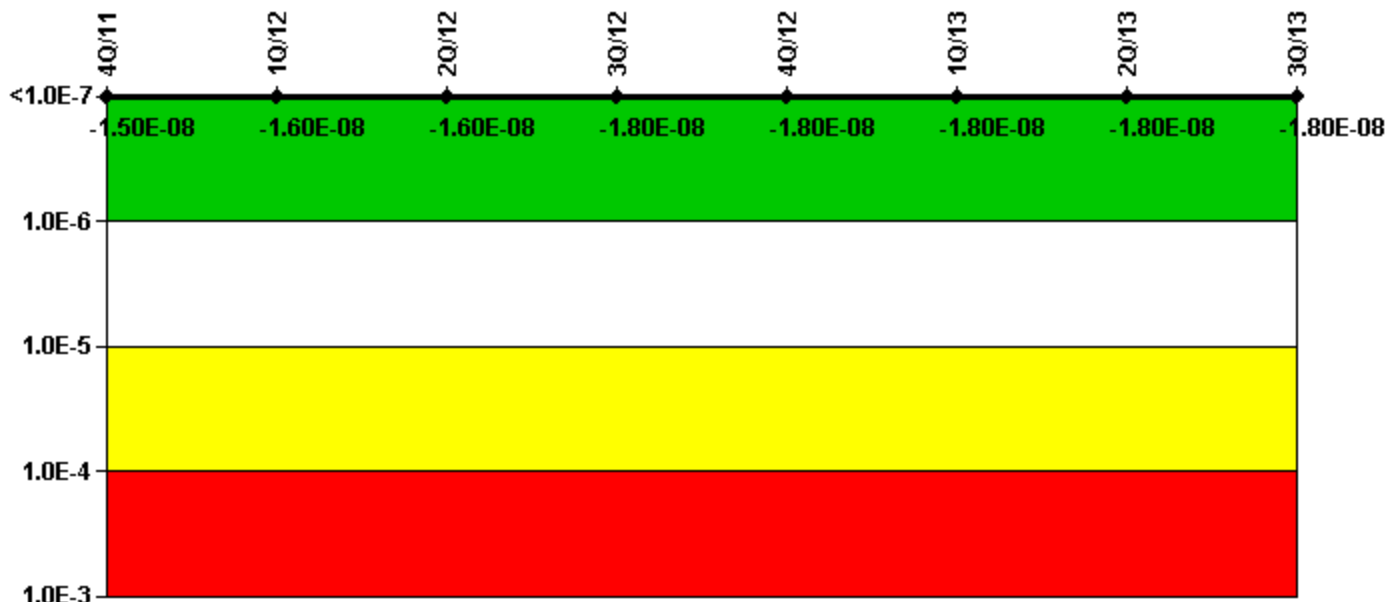
#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI ( $\Delta$ CDF)	1.66E-10	1.81E-10	1.85E-10	1.85E-10	1.85E-10	1.85E-10	-2.01E-10	-2.28E-10
URI ( $\Delta$ CDF)	-9.35E-10	-9.35E-10	-9.31E-10	-9.31E-10	-9.31E-10	-9.31E-10	-9.02E-10	-8.83E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.70E-10	-7.50E-10	-7.50E-10	-7.50E-10	-7.50E-10	-7.50E-10	-1.10E-09	-1.10E-09

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



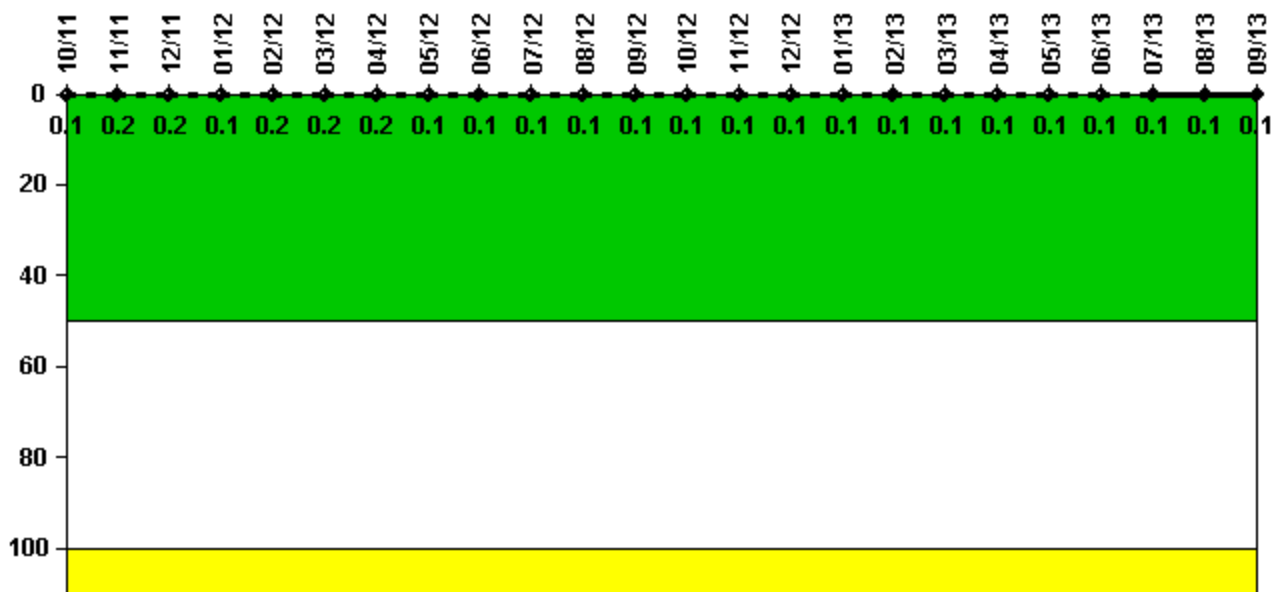
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI ( $\Delta$ CDF)	5.15E-09	4.47E-09	4.03E-09	2.40E-09	2.16E-09	2.31E-09	2.48E-09	1.78E-09
URI ( $\Delta$ CDF)	-2.04E-08	-2.05E-08	-2.02E-08	-2.01E-08	-2.00E-08	-2.01E-08	-2.01E-08	-2.01E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.60E-08	-1.60E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08

Licensee Comments: none

### Reactor Coolant System Activity



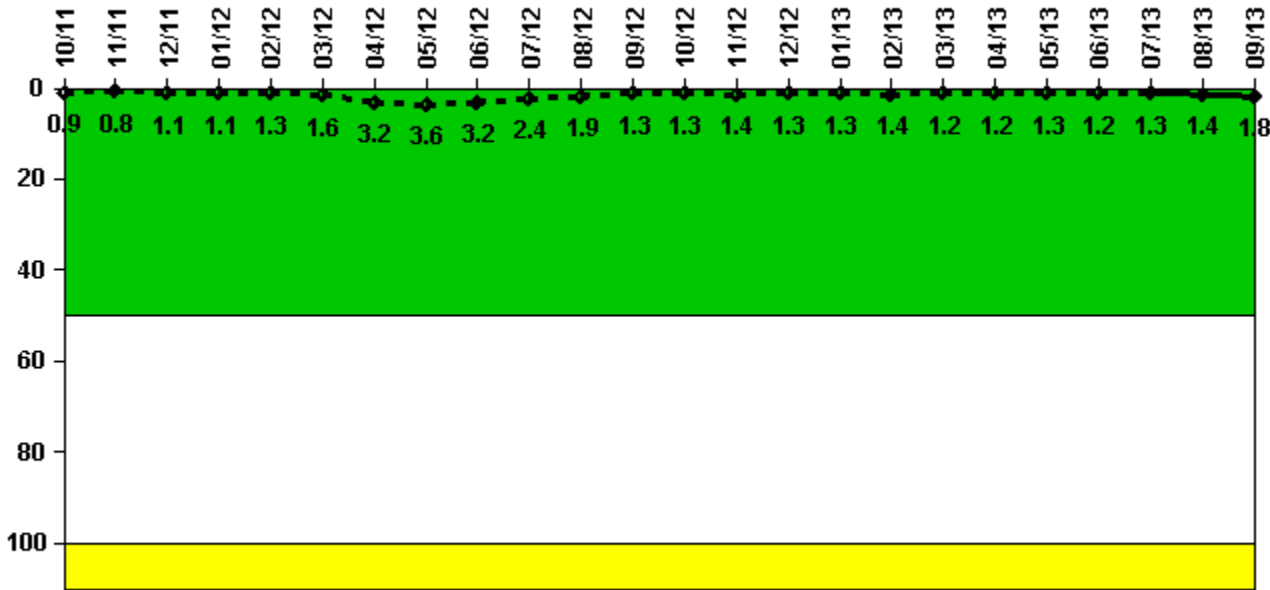
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum activity	0.001110	0.001550	0.001760	0.001200	0.002160	0.001610	0.001840	0.001210	0.000598	0.000737	0.000712	0.000984
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	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum activity	0.000867	0.000887	0.001030	0.000979	0.001220	0.001160	0.001090	0.001310	0.001280	0.001120	0.001320	0.001490
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

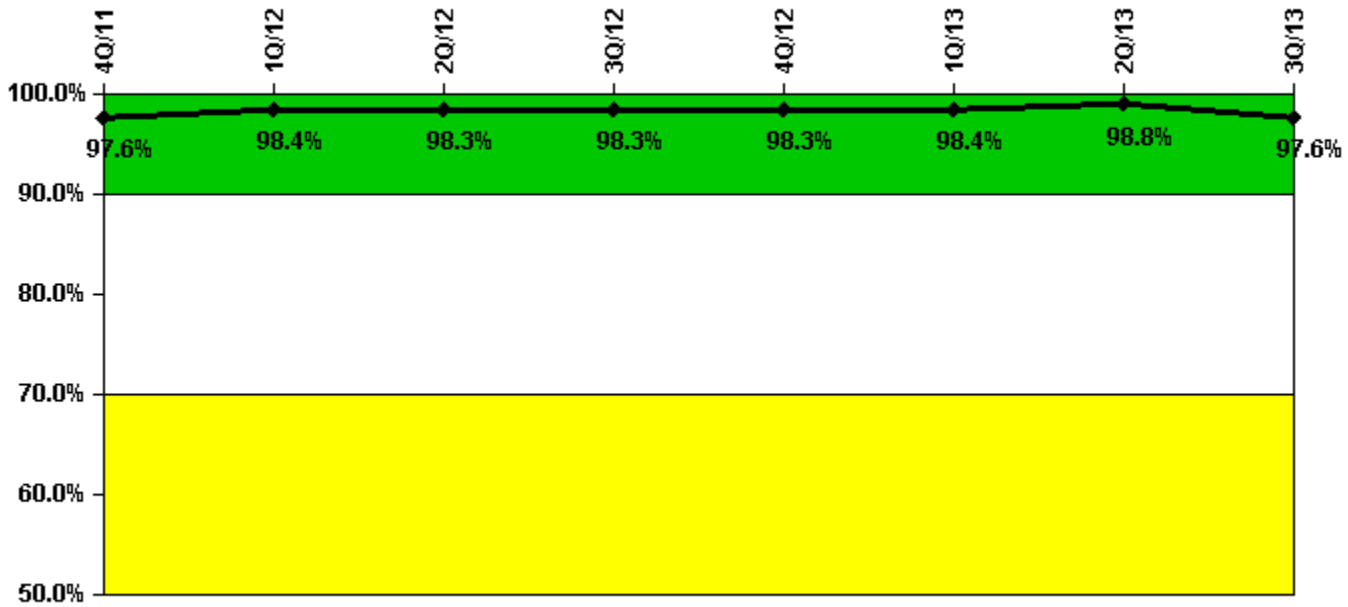
#### Notes

Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	0.090	0.080	0.110	0.110	0.130	0.160	0.320	0.360	0.320	0.240	0.190	0.130
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
<b>Indicator value</b>	<b>0.9</b>	<b>0.8</b>	<b>1.1</b>	<b>1.1</b>	<b>1.3</b>	<b>1.6</b>	<b>3.2</b>	<b>3.6</b>	<b>3.2</b>	<b>2.4</b>	<b>1.9</b>	<b>1.3</b>
Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	0.130	0.140	0.130	0.130	0.140	0.120	0.120	0.130	0.120	0.130	0.140	0.180
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
<b>Indicator value</b>	<b>1.3</b>	<b>1.4</b>	<b>1.3</b>	<b>1.3</b>	<b>1.4</b>	<b>1.2</b>	<b>1.2</b>	<b>1.3</b>	<b>1.2</b>	<b>1.3</b>	<b>1.4</b>	<b>1.8</b>

Licensee Comments:

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

### Drill/Exercise Performance



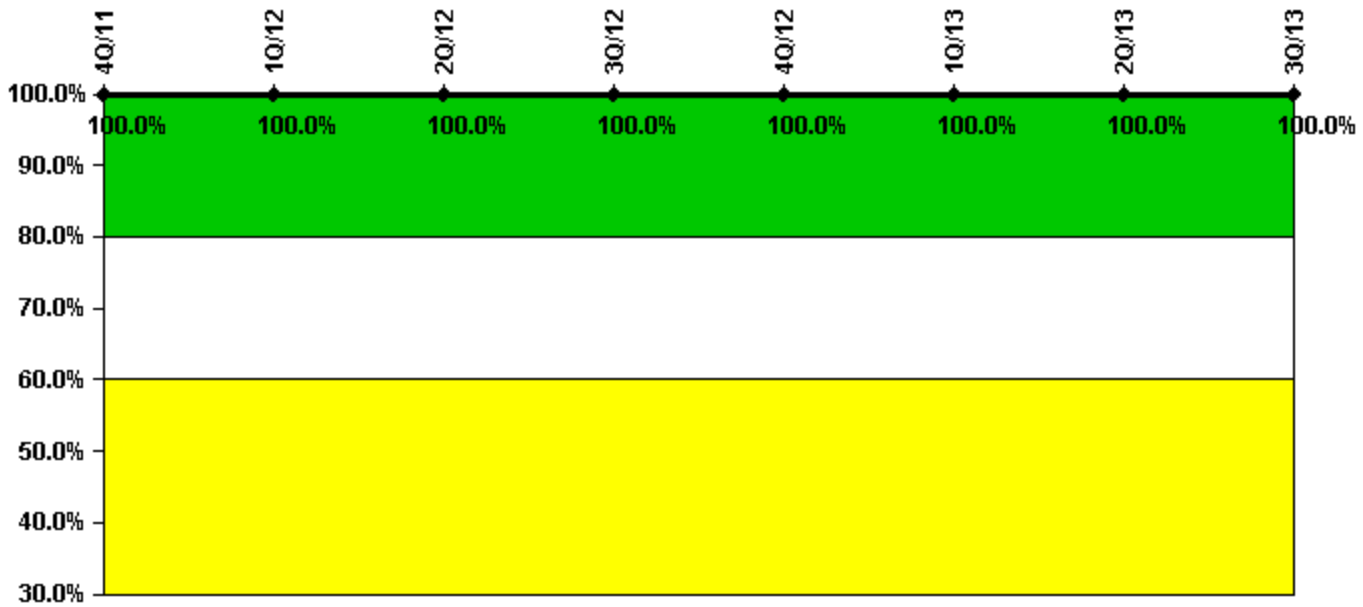
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful opportunities	27.0	38.0	24.0	32.0	24.0	48.0	22.0	28.0
Total opportunities	27.0	38.0	26.0	32.0	24.0	49.0	22.0	31.0
Indicator value	<b>97.6%</b>	<b>98.4%</b>	<b>98.3%</b>	<b>98.3%</b>	<b>98.3%</b>	<b>98.4%</b>	<b>98.8%</b>	<b>97.6%</b>

Licensee Comments: none

### ERO Drill Participation



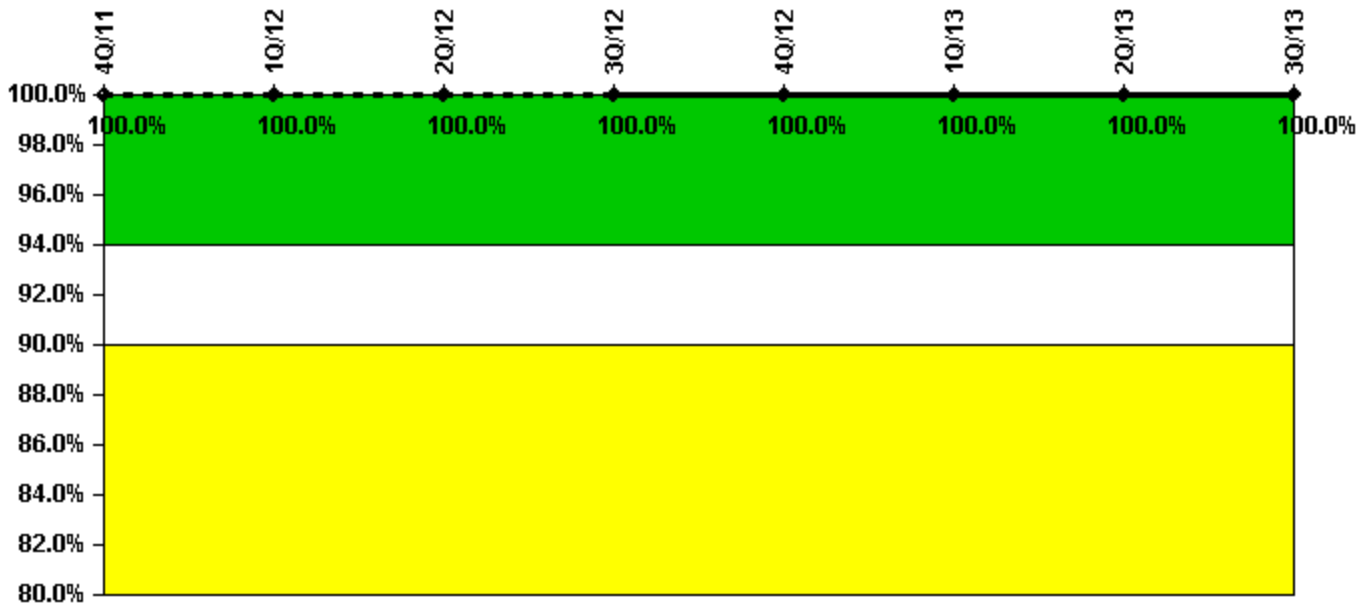
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Participating Key personnel	141.0	153.0	150.0	151.0	155.0	165.0	161.0	160.0
Total Key personnel	141.0	153.0	150.0	151.0	155.0	165.0	161.0	160.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



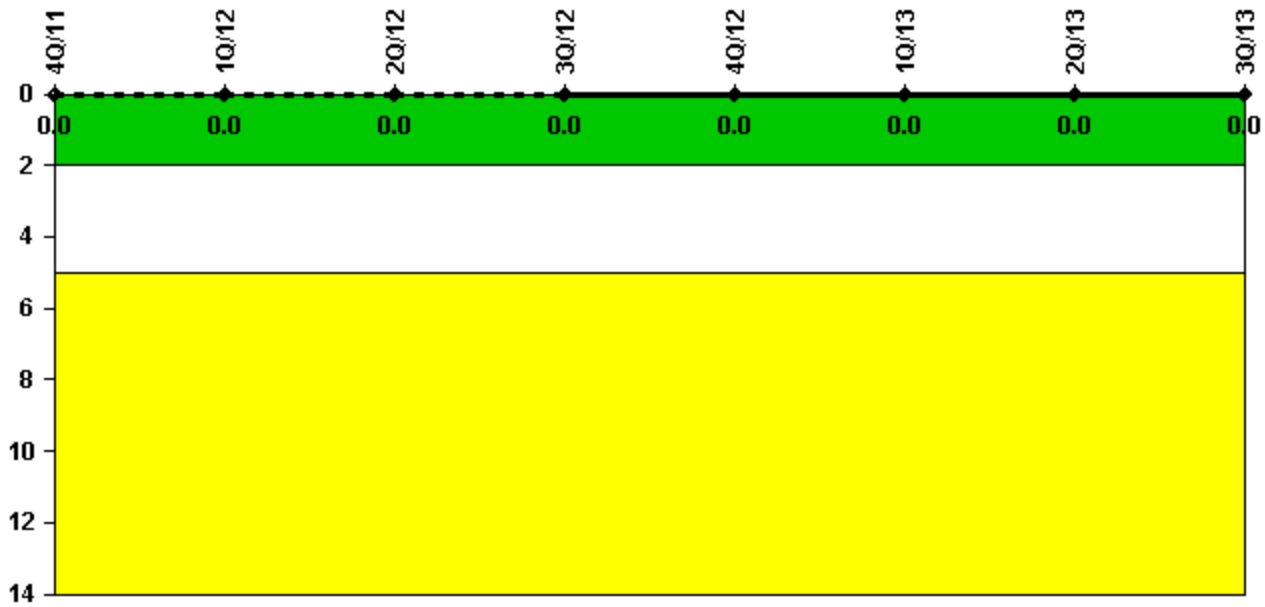
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

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

Licensee Comments: none

### Occupational Exposure Control Effectiveness



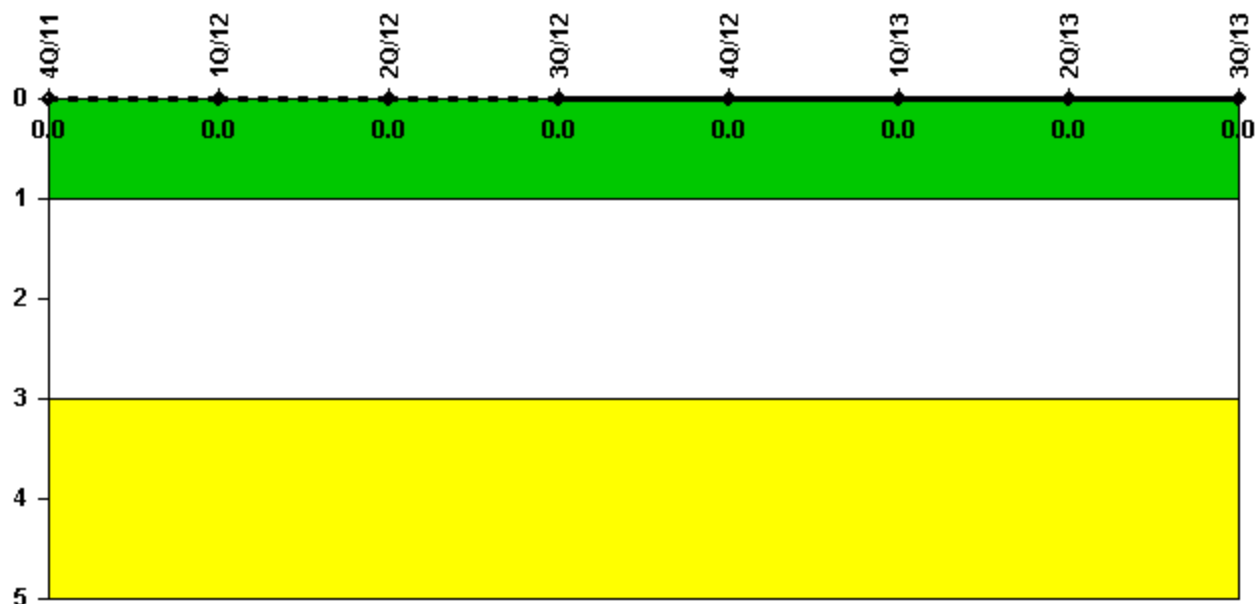
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/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	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/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: October 22, 2013*