

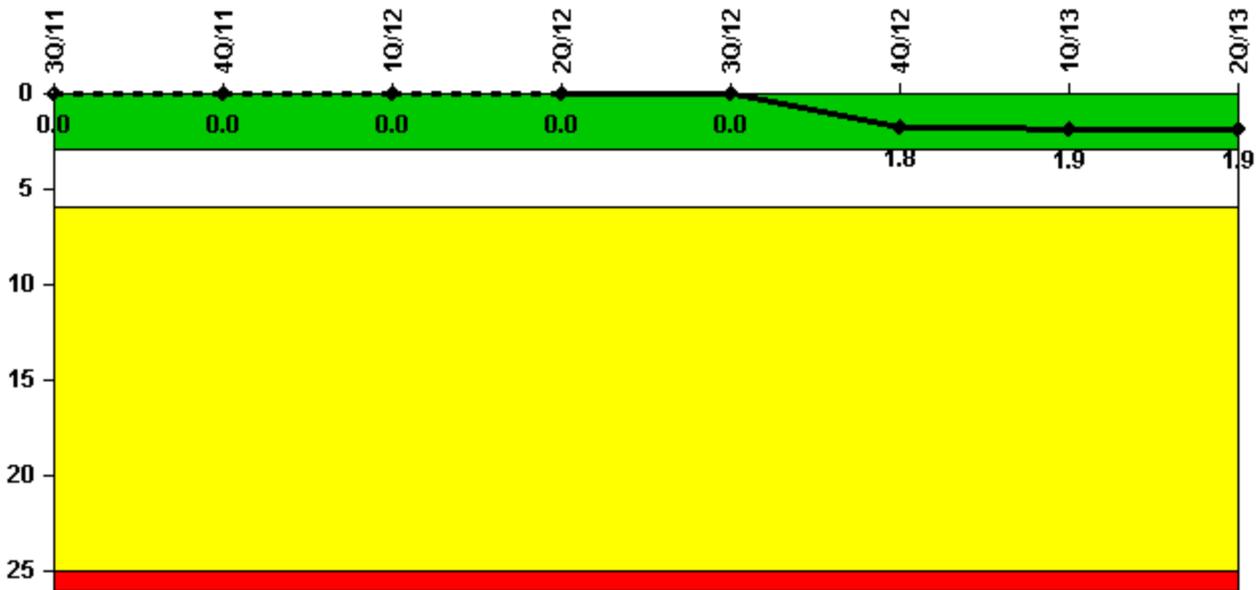
# FitzPatrick

## 2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



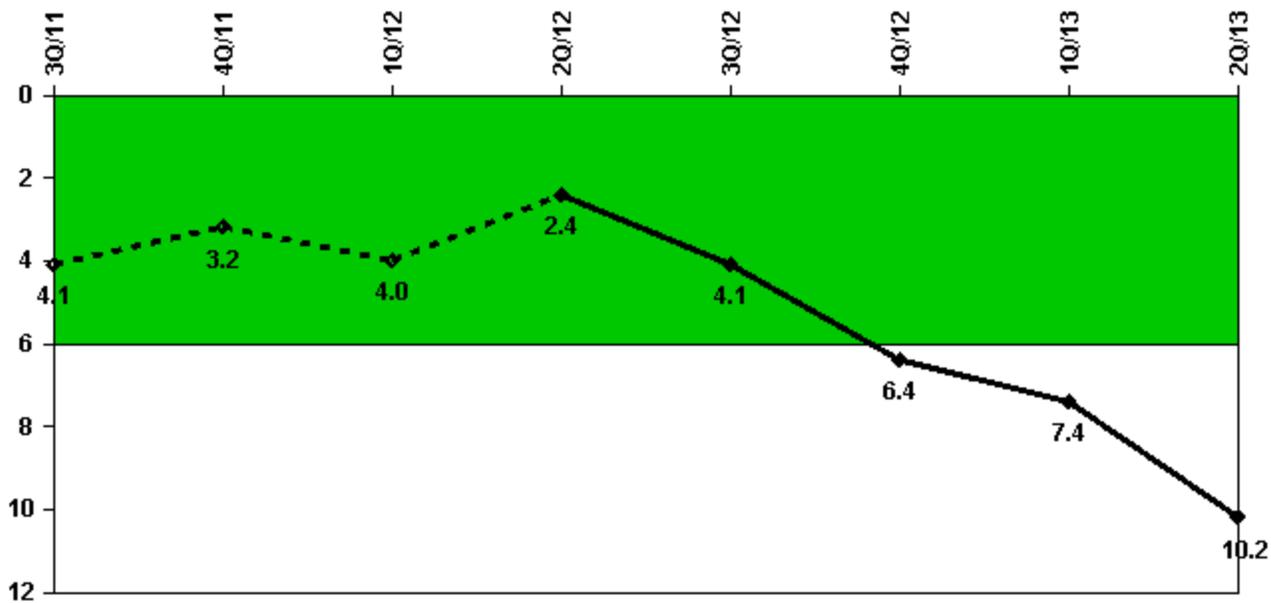
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	2.0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	1860.2	1432.9	2062.0	2184.0
Indicator value	0	0	0	0	0	1.8	1.9	1.9

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	2.0	1.0	2.0	2.0	3.0	4.0
Critical hours	2208.0	2209.0	2183.0	2184.0	1860.2	1432.9	2062.0	2184.0
<b>Indicator value</b>	<b>4.1</b>	<b>3.2</b>	<b>4.0</b>	<b>2.4</b>	<b>4.1</b>	<b>6.4</b>	<b>7.4</b>	<b>10.2</b>

#### Licensee Comments:

2Q/13: Multiple downpowers are due to repairs on the Main Condenser tube inleakage. This deficiency is a known issue but individual tube failures are not predictable. Compensatory measures, such as tube plugging and tube sleeving, have been performed to mitigate Main Condenser performance. There is no affect on public or nuclear safety.

1Q/13: Multiple downpowers are due to repairs on the Main Condenser tube inleakage. This deficiency is a known issue but individual tube failures are not predictable. Compensatory measures, such as tube plugging and tube sleeving, have been performed to mitigate Main Condenser performance. There is no affect on public or nuclear safety.

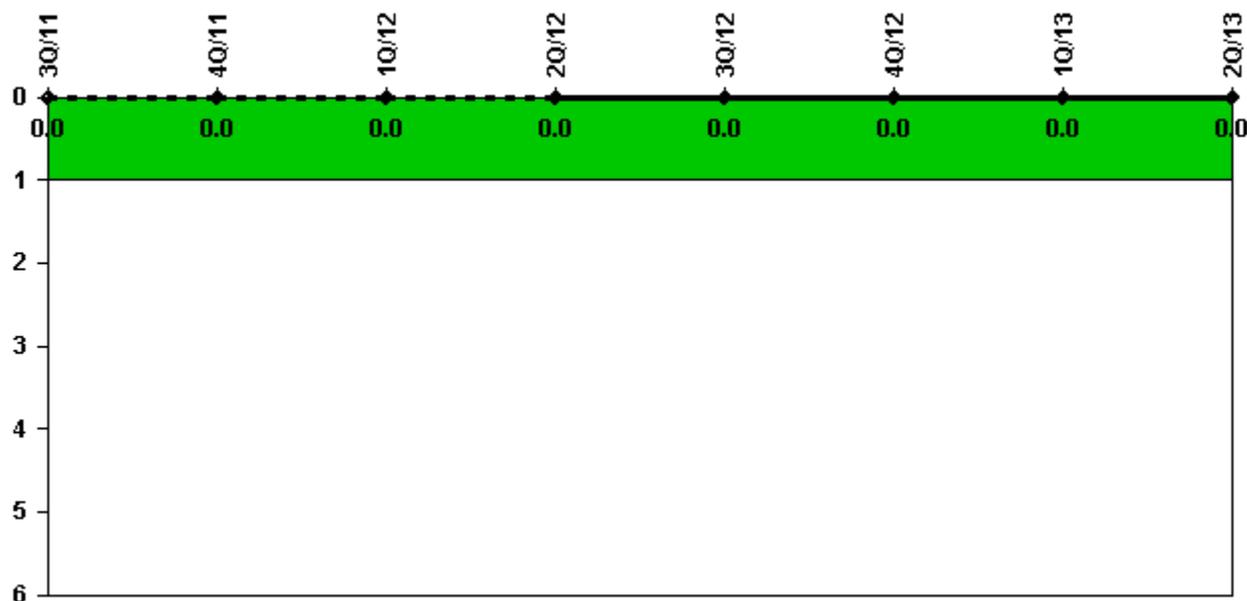
4Q/12: Multiple downpowers are due to repairs on the Main Condenser tube inleakage. This deficiency is a known issue but individual tube failures are not predictable. Compensatory measures, such as tube plugging and tube sleeving, have been performed to mitigate Main Condenser performance. There is no affect on public or nuclear safety.

4Q/11: A Power Change affecting May 2011 was changed to Unplanned based on a review by the Senior Resident Inspector. It involved a failed tube in the main condenser. Two (2) Power changes affecting June 2011 were reviewed by the Senior Resident inspector and by the ROP via the FAQ process. These two Power Changes were

updated to Unplanned. They were caused by fouling of the main condenser due to maintenance work.

3Q/11: Three downpowers are being re-evaluated by the FAQ process to determine planned or unplanned status. Downpowers being considered for revision occurred on 5/6/11, 6/7/11, and 6/9/11. These include 1 downpower to repair main condenser tube leaks and 2 downpowers caused by defishing the main condenser during Traveling Screen maintenance.

### Unplanned Scrams with Complications



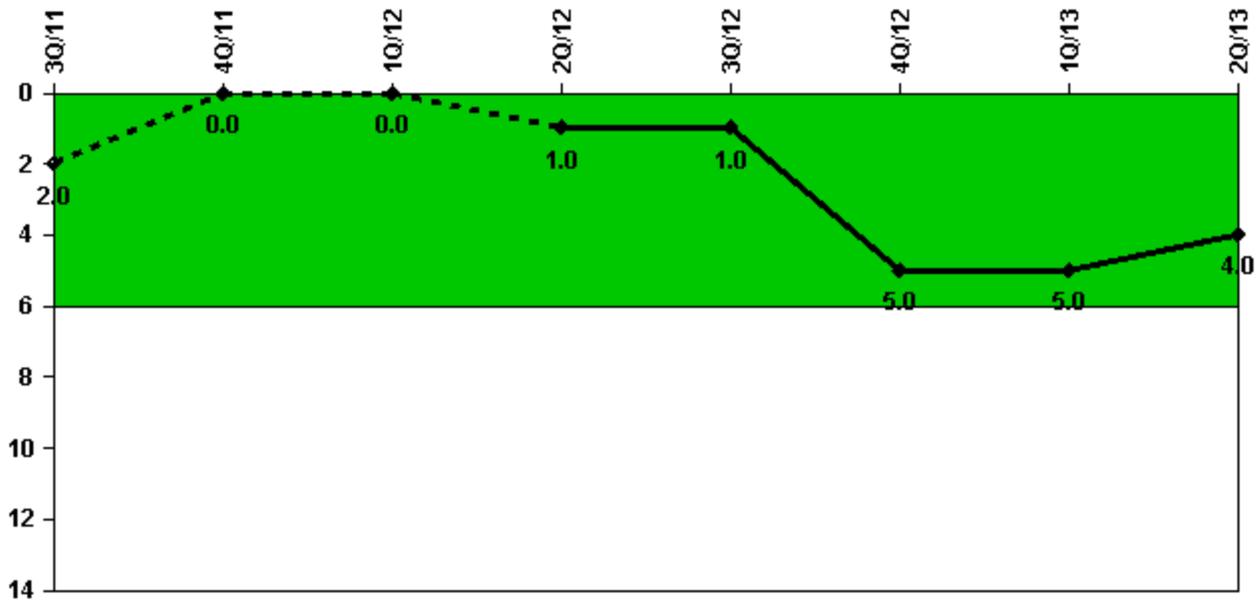
Thresholds: White > 1.0

### 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 (BWR)



Thresholds: White > 6.0

#### Notes

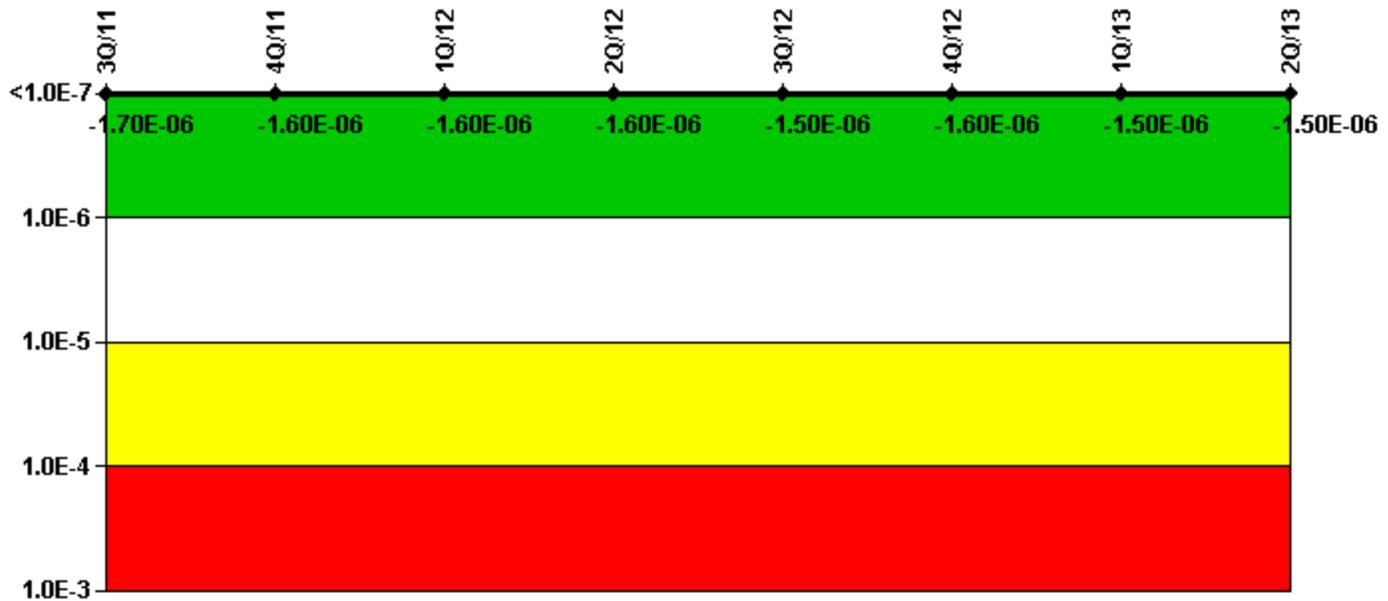
Safety System Functional Failures (BWR)	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	0	0	0	1	0	4	0	0
<b>Indicator value</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>4</b>

Licensee Comments:

4Q/12: LER-12-002, LER-12-003, LER-12-005, LER-12-006

2Q/12: LER-2012-001, Unit Cooler Fan Motor Contactor Low Voltage Test Failure Results in Loss of Safety Function and Condition Prohibited by the Technical Specifications, reported in June 2012

### Mitigating Systems Performance Index, Emergency AC Power System



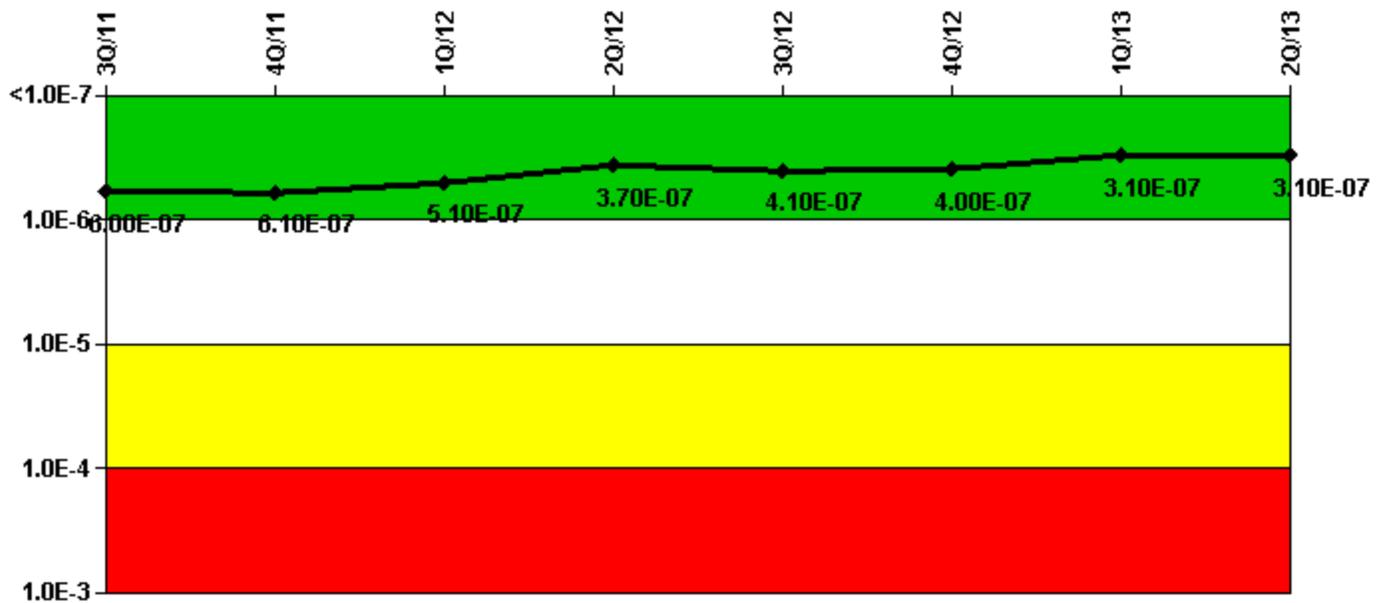
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### 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)	7.54E-09	8.45E-09	1.05E-08	3.31E-09	3.14E-09	7.74E-10	9.99E-10	6.30E-09
URI ( $\Delta$ CDF)	-1.68E-06	-1.66E-06	-1.66E-06	-1.56E-06	-1.52E-06	-1.61E-06	-1.53E-06	-1.53E-06
PLE	NO							
Indicator value	-1.70E-06	-1.60E-06	-1.60E-06	-1.60E-06	-1.50E-06	-1.60E-06	-1.50E-06	-1.50E-06

Licensee Comments: none

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



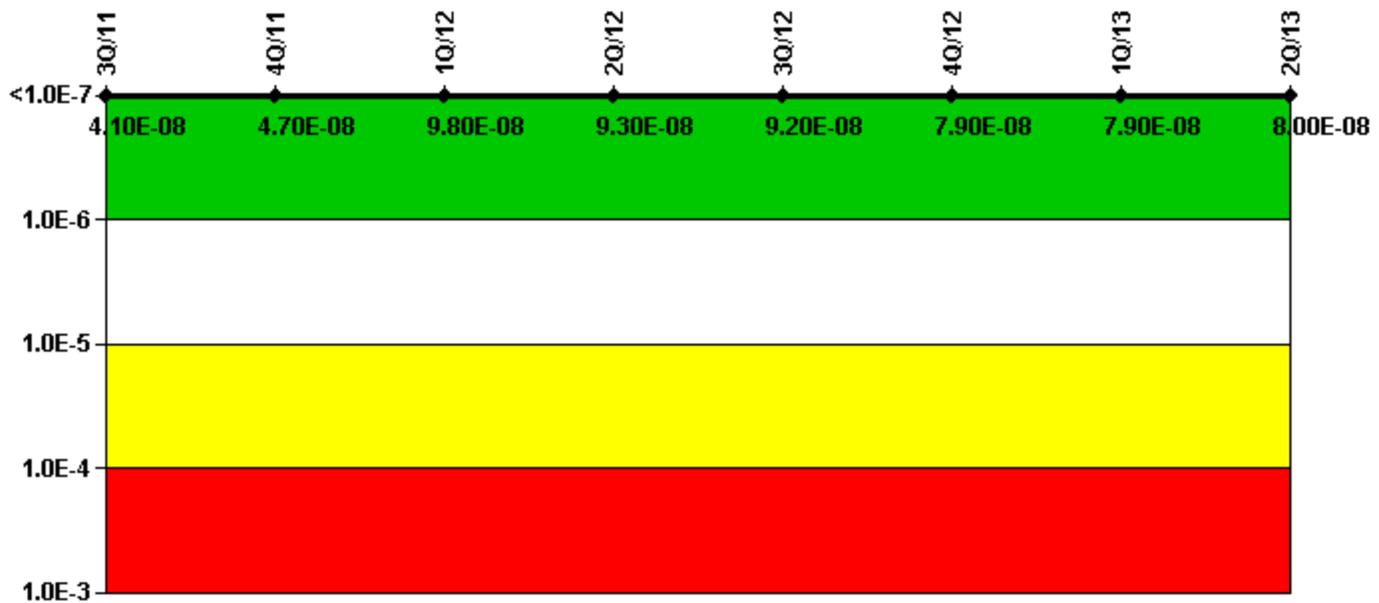
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	1.06E-07	1.06E-07	9.04E-09	6.84E-08	9.29E-08	9.64E-08	1.98E-08	1.38E-08
URI (ΔCDF)	4.94E-07	5.03E-07	5.04E-07	3.05E-07	3.17E-07	3.04E-07	2.93E-07	2.93E-07
PLE	NO							
Indicator value	6.00E-07	6.10E-07	5.10E-07	3.70E-07	4.10E-07	4.00E-07	3.10E-07	3.10E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



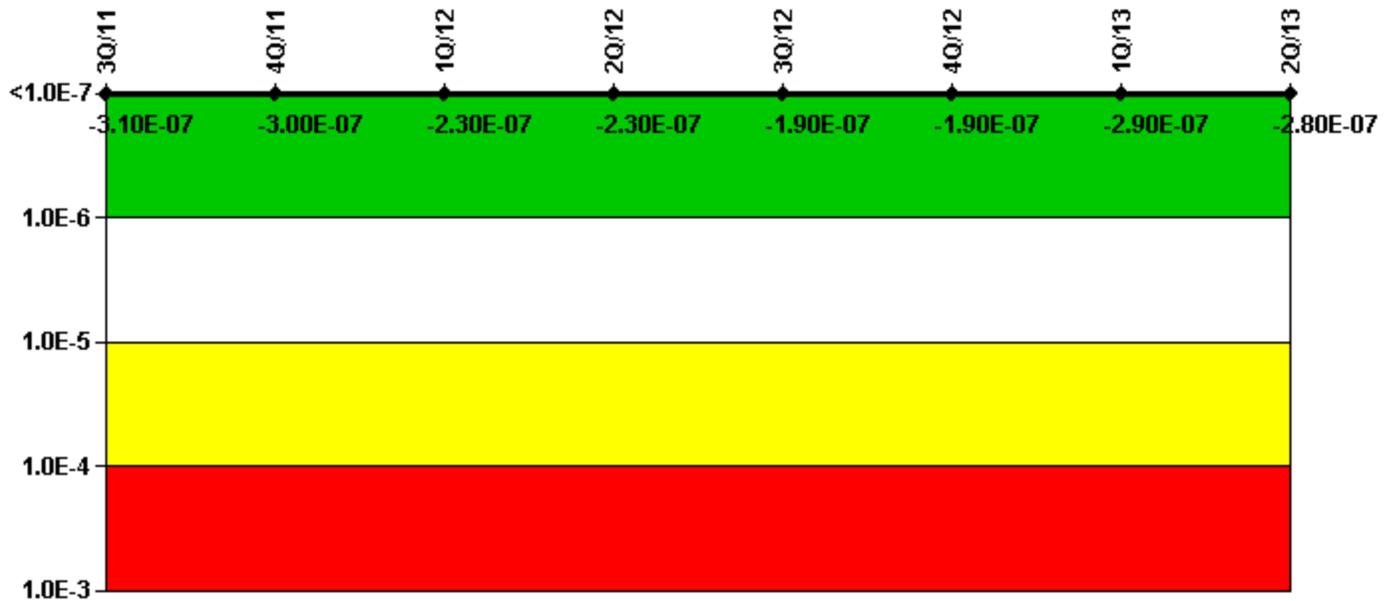
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### 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)	8.93E-09	1.32E-08	6.19E-08	5.74E-08	6.05E-08	5.37E-08	5.42E-08	5.47E-08
URI ( $\Delta$ CDF)	3.17E-08	3.41E-08	3.63E-08	3.60E-08	3.19E-08	2.52E-08	2.50E-08	2.50E-08
PLE	NO							
Indicator value	4.10E-08	4.70E-08	9.80E-08	9.30E-08	9.20E-08	7.90E-08	7.90E-08	8.00E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



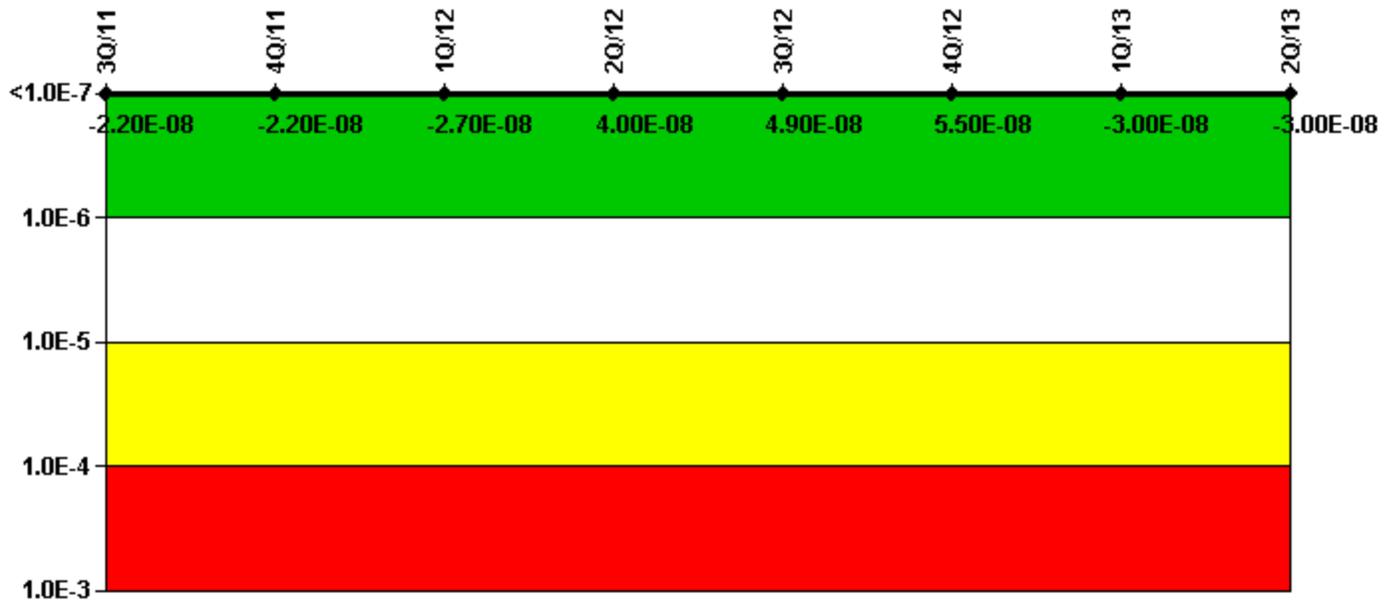
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### 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)	-3.60E-08	-3.82E-08	3.46E-08	2.86E-08	6.97E-08	8.15E-08	-1.40E-08	-1.34E-08
URI ( $\Delta$ CDF)	-2.75E-07	-2.67E-07	-2.61E-07	-2.56E-07	-2.62E-07	-2.76E-07	-2.74E-07	-2.69E-07
PLE	NO							
Indicator value	<b>-3.10E-07</b>	<b>-3.00E-07</b>	<b>-2.30E-07</b>	<b>-2.30E-07</b>	<b>-1.90E-07</b>	<b>-1.90E-07</b>	<b>-2.90E-07</b>	<b>-2.80E-07</b>

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



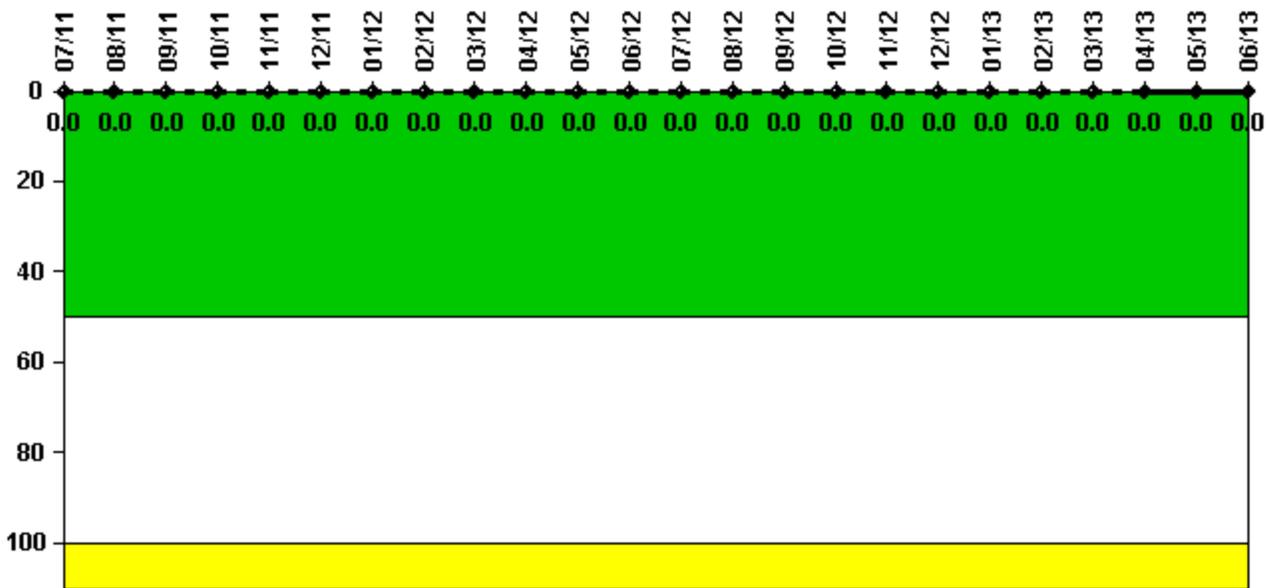
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### 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)	-1.04E-08	-1.04E-08	-1.58E-08	5.21E-08	6.07E-08	6.65E-08	-1.79E-08	-1.79E-08
URI ( $\Delta$ CDF)	-1.17E-08	-1.16E-08	-1.17E-08	-1.16E-08	-1.16E-08	-1.15E-08	-1.17E-08	-1.18E-08
PLE	NO							
Indicator value	-2.20E-08	-2.20E-08	-2.70E-08	4.00E-08	4.90E-08	5.50E-08	-3.00E-08	-3.00E-08

Licensee Comments: none

### Reactor Coolant System Activity



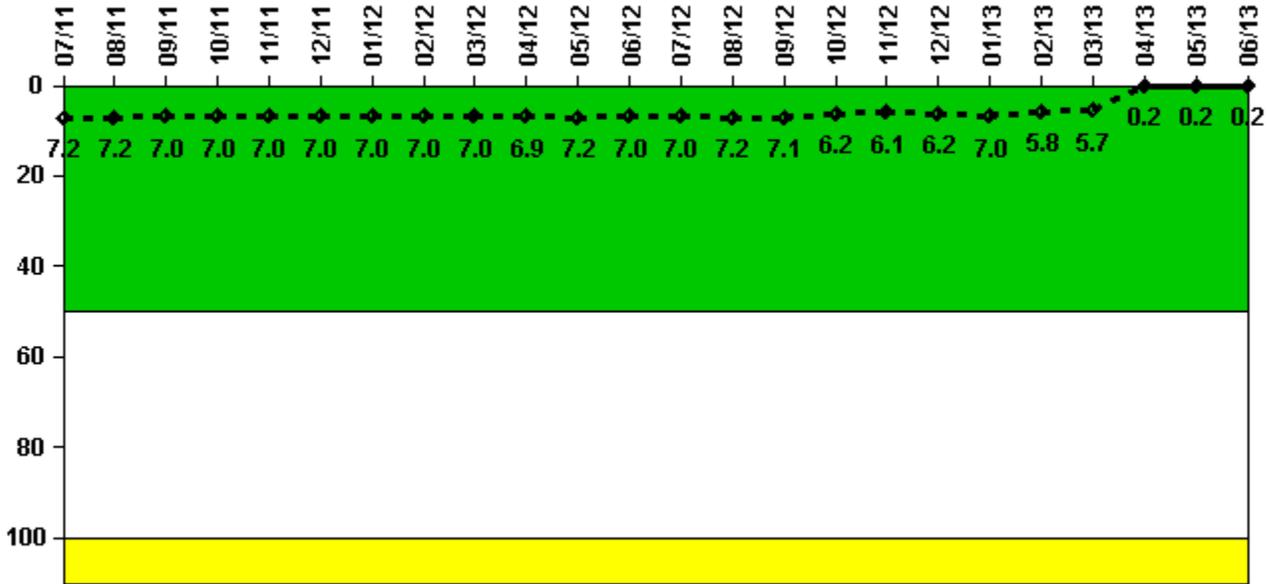
Thresholds: White > 50.0 Yellow > 100.0

#### 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	0.000015	0.000018	0.000020	0.000015	0.000012	0.000024	0.000038	0.000019	0.000020	0.000033	0.000036	0.000023
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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	0.000068	0.000024	0.000026	0.000018	0.000012	0.000016	0.000016	0.000012	0.000012	0.000018	0.000014	0.000013
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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

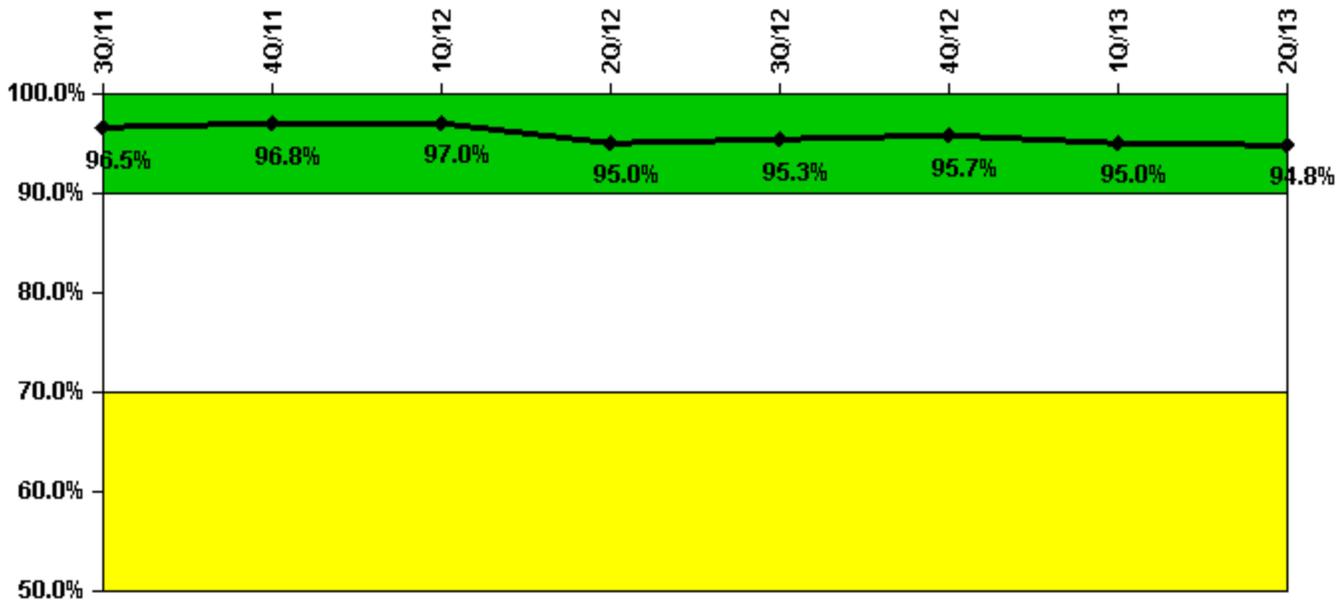
Reactor Coolant System Leakage	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum leakage	1.800	1.800	1.750	1.740	1.740	1.740	1.740	1.760	1.740	1.720	1.810	1.740
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	7.2	7.2	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9	7.2	7.0

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	1.760	1.790	1.780	1.550	1.530	1.550	1.740	1.460	1.430	0.040	0.040	0.040
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	7.0	7.2	7.1	6.2	6.1	6.2	7.0	5.8	5.7	0.2	0.2	0.2

Licensee Comments: none

### Drill/Exercise Performance



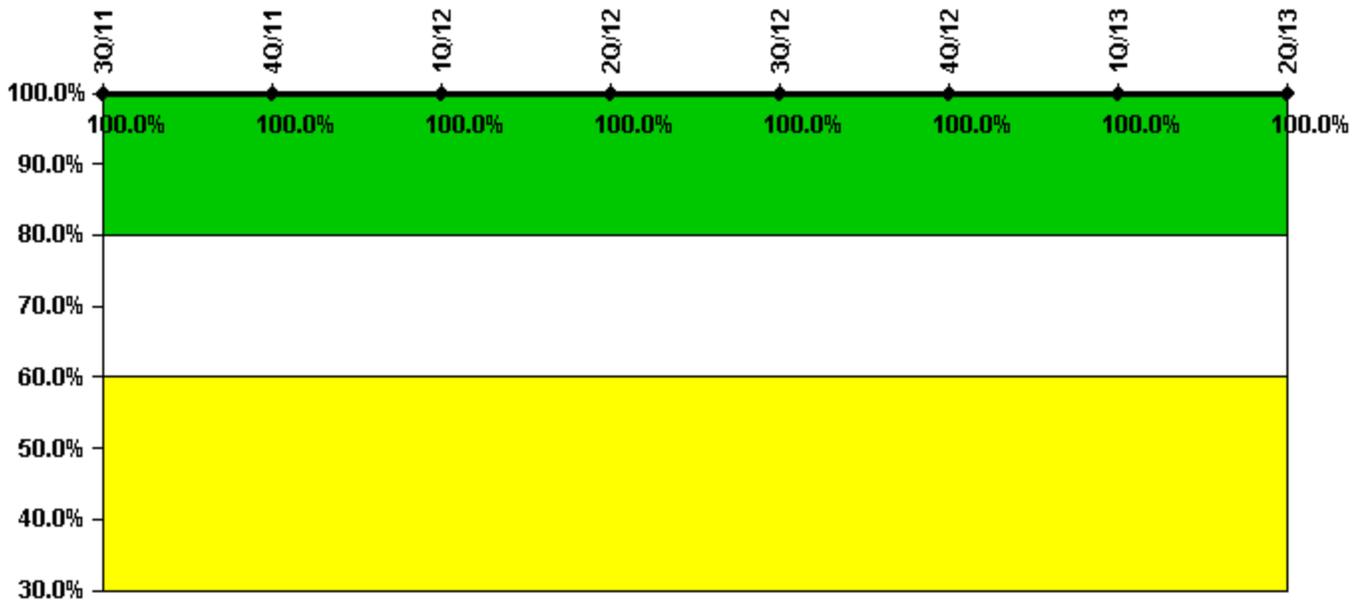
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful opportunities	25.0	7.0	30.0	39.0	28.0	15.0	26.0	67.0
Total opportunities	26.0	8.0	31.0	46.0	28.0	15.0	28.0	68.0
Indicator value	96.5%	96.8%	97.0%	95.0%	95.3%	95.7%	95.0%	94.8%

Licensee Comments: none

### ERO Drill Participation



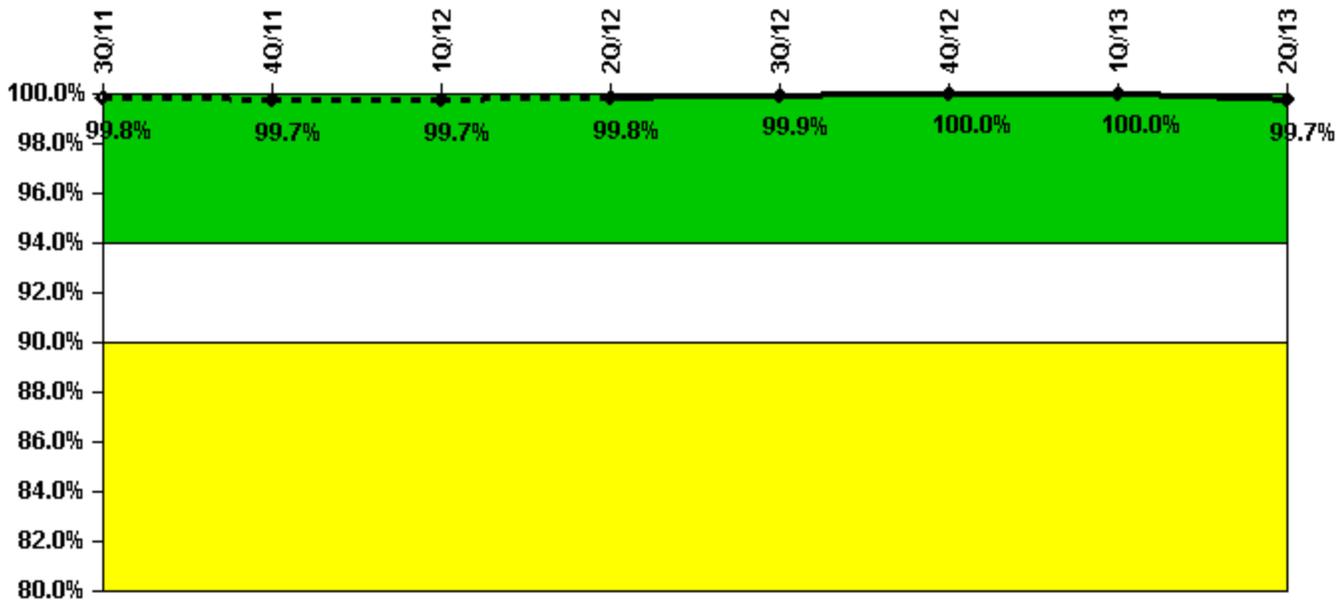
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Participating Key personnel	73.0	74.0	71.0	72.0	75.0	78.0	80.0	78.0
Total Key personnel	73.0	74.0	71.0	72.0	75.0	78.0	80.0	78.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



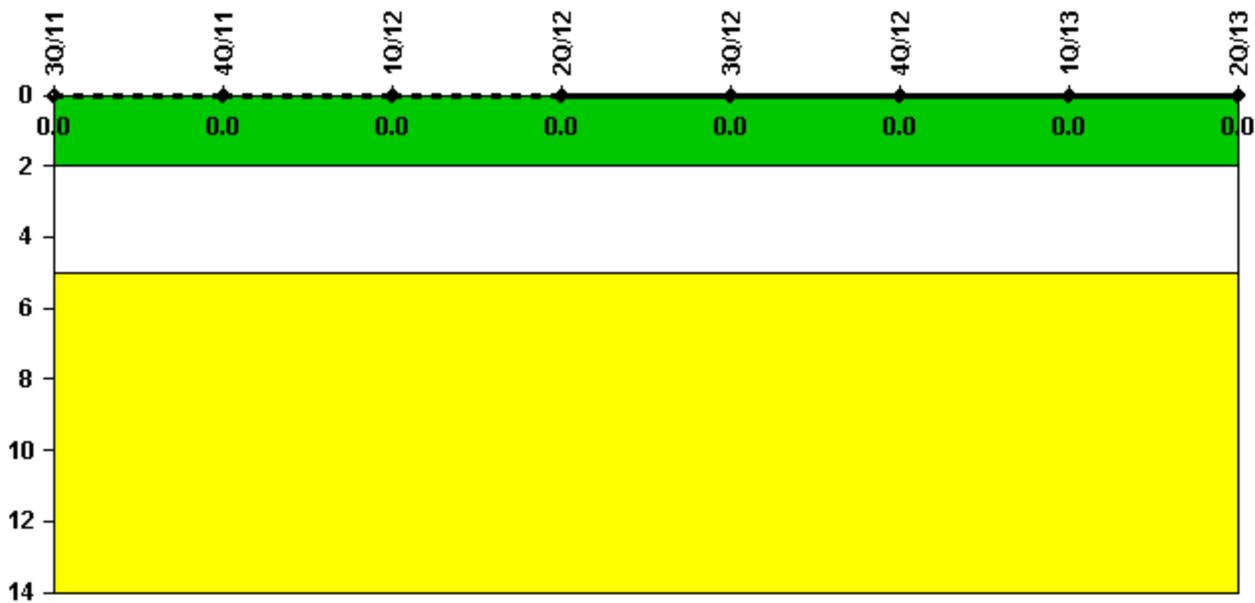
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	258	295	222	296	222	333	222	293
Total sirens-tests	259	296	222	296	222	333	222	296
Indicator value	99.8%	99.7%	99.7%	99.8%	99.9%	100.0%	100.0%	99.7%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



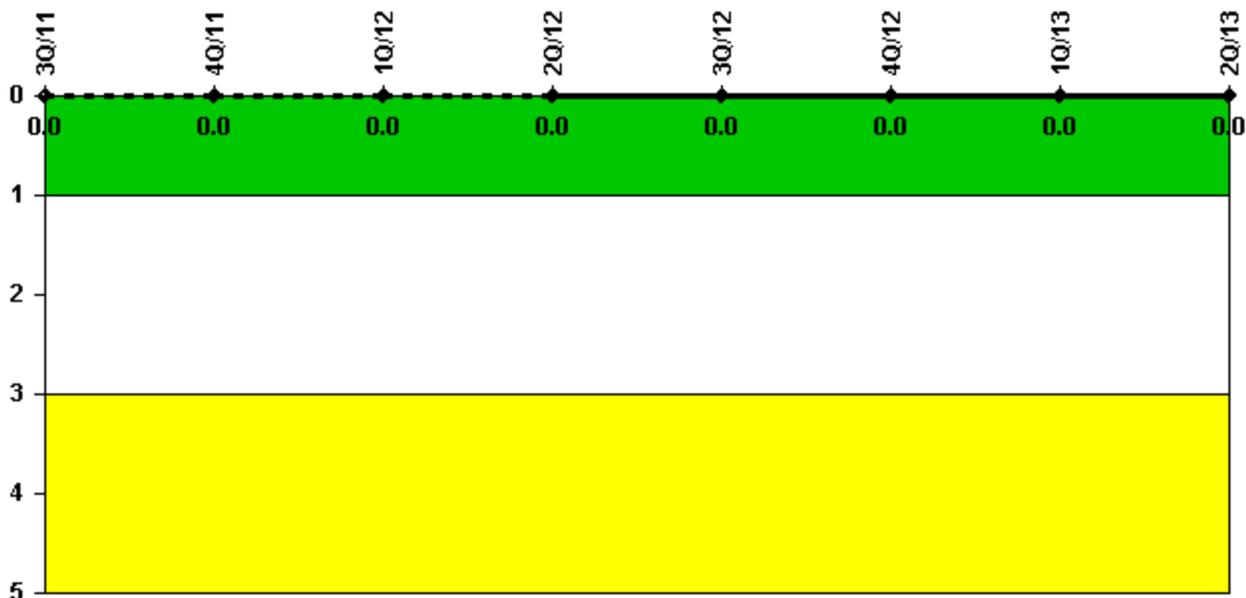
Thresholds: White > 2.0 Yellow > 5.0

**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
<b>Indicator value</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*