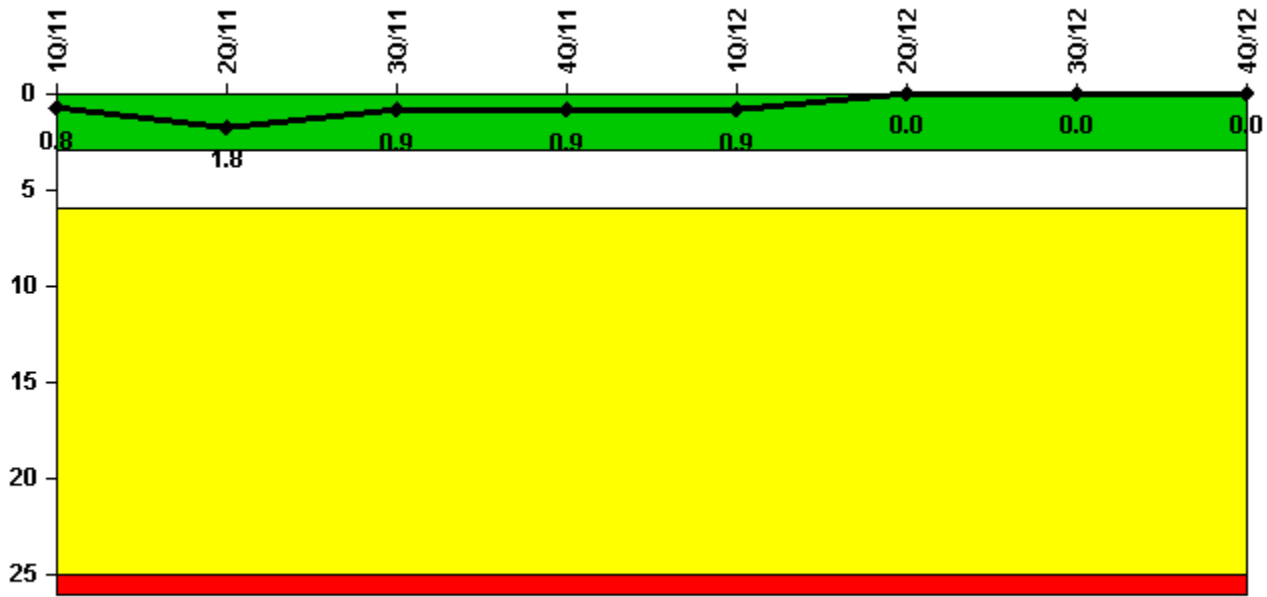


# Quad Cities 1

## 4Q/2012 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



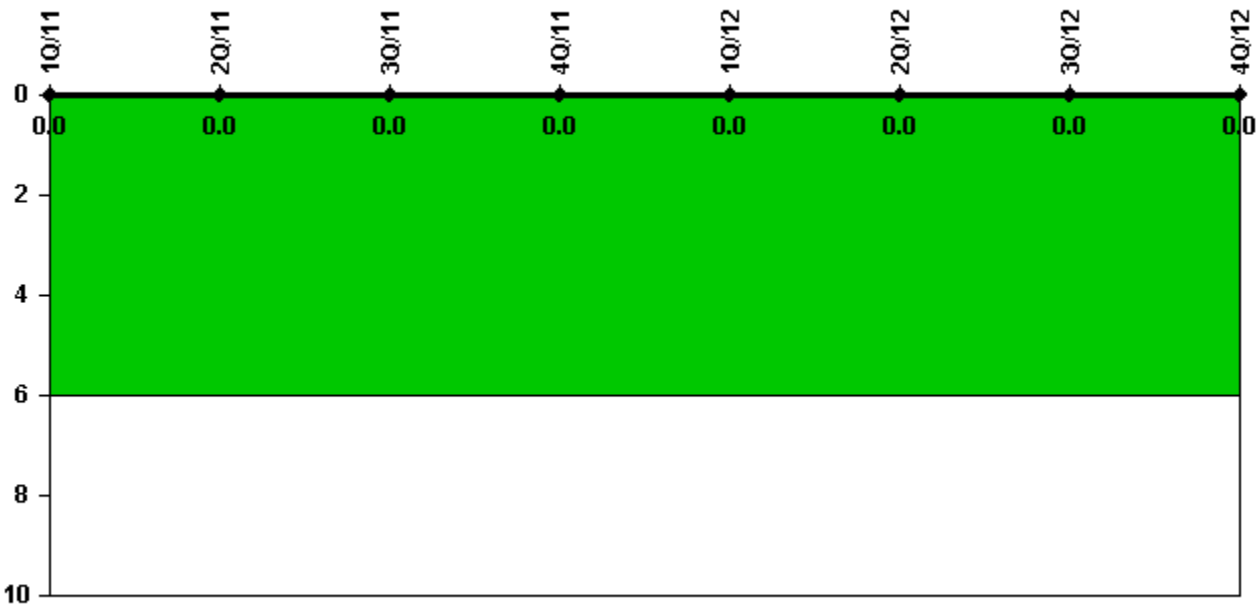
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2159.0	1467.5	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0
<b>Indicator value</b>	<b>0.8</b>	<b>1.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



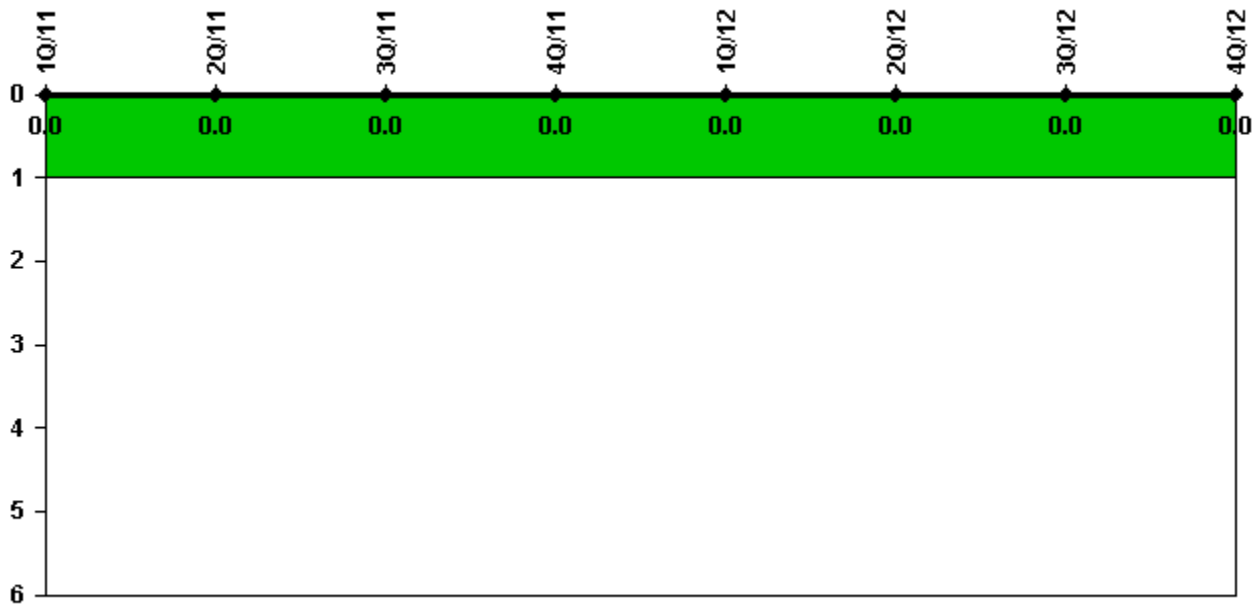
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	1467.5	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0
<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



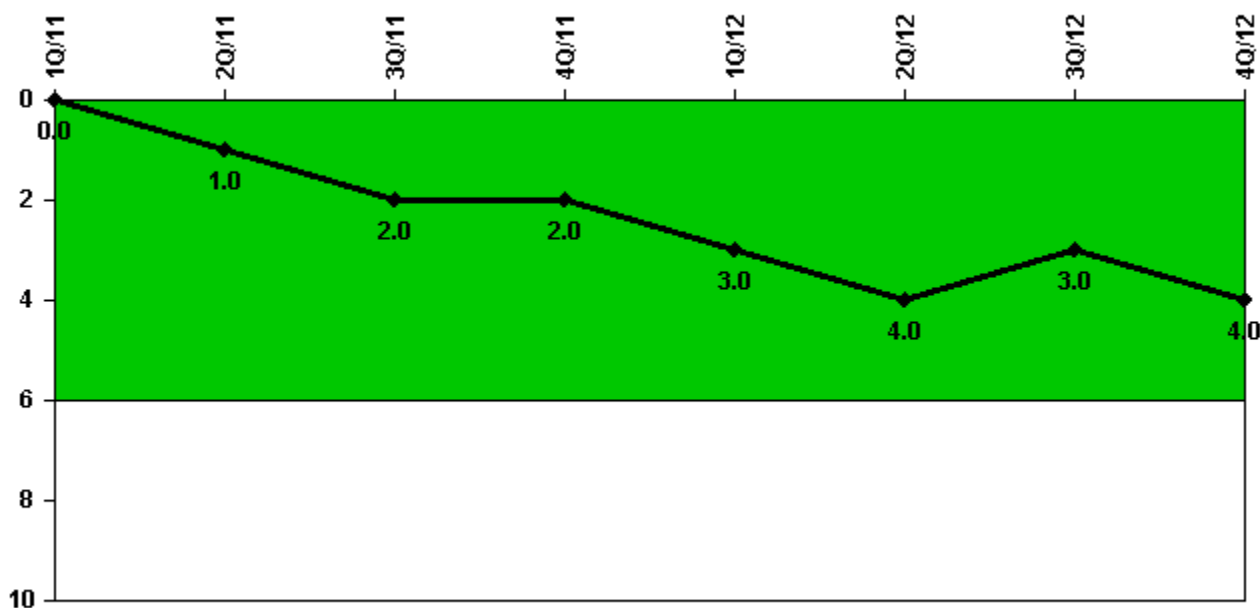
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</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>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

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

#### Licensee Comments:

4Q/12: LER 254/2012-004-00, Breach in Secondary Containment (11-5-12), (SSFF applies to both Units 1 and 2).

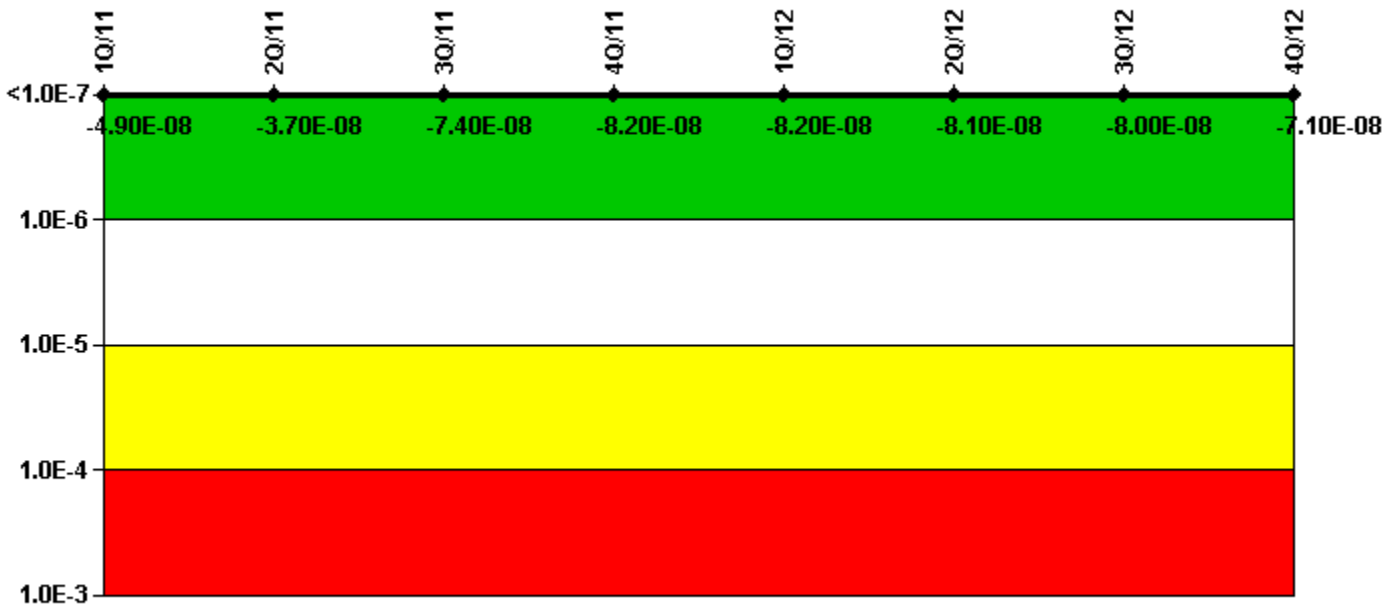
2Q/12: As part of this 3rd quarter submittal, a change package is being generated for 2nd quarter 2012 to include previously omitted comments pertaining to SSFF. This change is administrative in nature and does not change the color of the indicator. LER 254/2012-002-00, Unit 1 Standby Gas Treatment System Loss of Safety Function Due to Loss of Emergency Power (6-1-12). LER 265/2012-003-00, Unit 2 Auto Reactor Scram Due to DEHC System Failure (6-14-12), (SSFF also applies to Unit 1).

1Q/12: As part of this 3rd quarter submittal, a change package is being generated for 1st quarter 2012 to include previously omitted comments pertaining to SSFF. This change is administrative in nature and does not change the color of the indicator. Quad Cities LER 254/2012-001-00, Control Room Emergency Ventilation Air Conditioning System Inoperable (Breaker Trip), (Unit 1 LER, common to both units).

3Q/11: Quad Cities LER 254/2011-003-00, Control Room Emergency Ventilation Air Conditioning System Inoperable (Unit 1).

2Q/11: Quad Cities LER 254/2011-001-00, Loss of Both Divisions of Residual Heat Removal System (Unit 1)

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



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

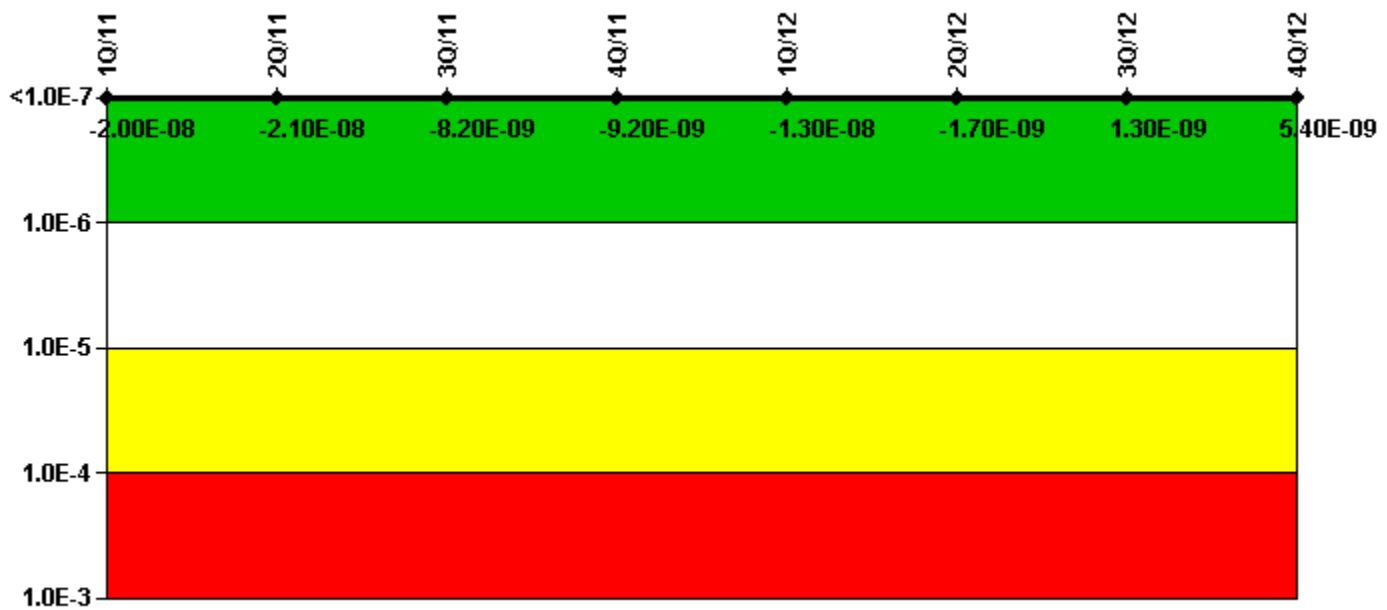
#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI ( $\Delta$ CDF)	6.59E-08	8.05E-08	2.57E-09	-6.11E-09	-8.21E-09	-9.63E-09	-1.02E-08	-1.39E-09
URI ( $\Delta$ CDF)	-1.15E-07	-1.18E-07	-7.64E-08	-7.61E-08	-7.37E-08	-7.10E-08	-6.96E-08	-6.94E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	<b>-4.90E-08</b>	<b>-3.70E-08</b>	<b>-7.40E-08</b>	<b>-8.20E-08</b>	<b>-8.20E-08</b>	<b>-8.10E-08</b>	<b>-8.00E-08</b>	<b>-7.10E-08</b>

Licensee Comments:

2Q/11: Revised FVUAP, UAP, and CDF based on revision 5a of the MSPI Basis Document.

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



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

#### Notes

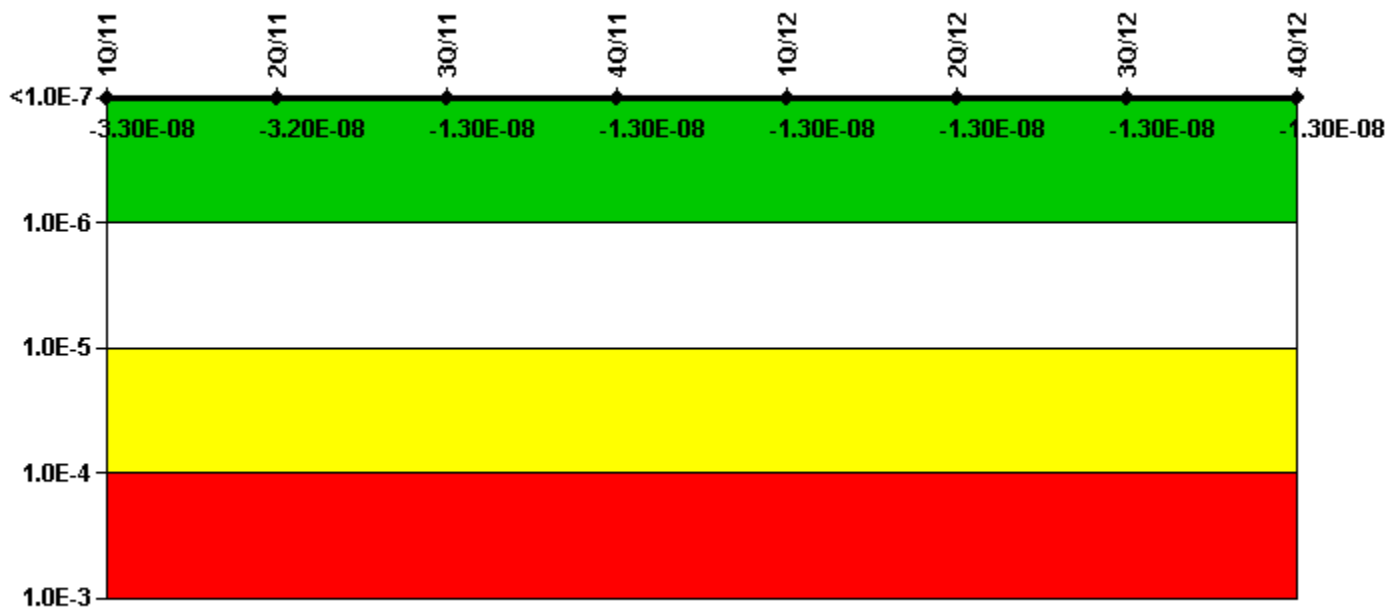
Mitigating Systems Performance Index, High Pressure Injection System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI ( $\Delta$ CDF)	1.87E-08	1.93E-08	7.97E-09	6.97E-09	3.35E-09	1.27E-08	1.44E-08	1.85E-08
URI ( $\Delta$ CDF)	-3.89E-08	-4.03E-08	-1.62E-08	-1.62E-08	-1.62E-08	-1.44E-08	-1.31E-08	-1.31E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-08	-2.10E-08	-8.20E-09	-9.20E-09	-1.30E-08	-1.70E-09	1.30E-09	5.40E-09

Licensee Comments:

2Q/11: Revised FVUAP, UAP, and CDF based on revision 5a of the MSPI Basis Document.

1Q/11: HPCI flow controller reading positive flow was not a human error or an equipment failure of the HPCI system. HPCI could still perform its design function. This revision corrects a misclassification of MSPI High Pressure Injection System unavailable hours.

### Mitigating Systems Performance Index, Heat Removal System



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

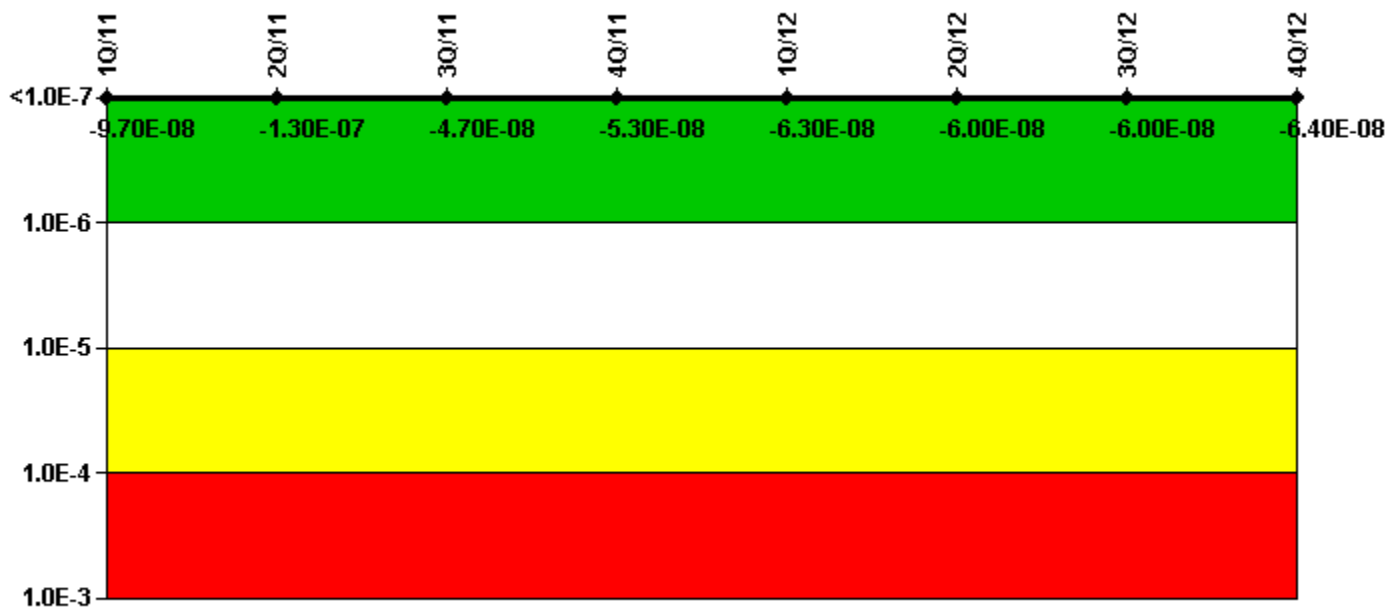
#### Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI ( $\Delta$ CDF)	-8.58E-10	2.53E-09	1.15E-09	1.29E-09	1.42E-09	-7.28E-10	-1.23E-09	-6.78E-10
URI ( $\Delta$ CDF)	-3.25E-08	-3.47E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.21E-08	-1.21E-08	-1.21E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.30E-08	-3.20E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08

Licensee Comments:

2Q/11: Revised FVUAP, UAP, and CDF based on revision 5a of the MSPI Basis Document.

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



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

#### Notes

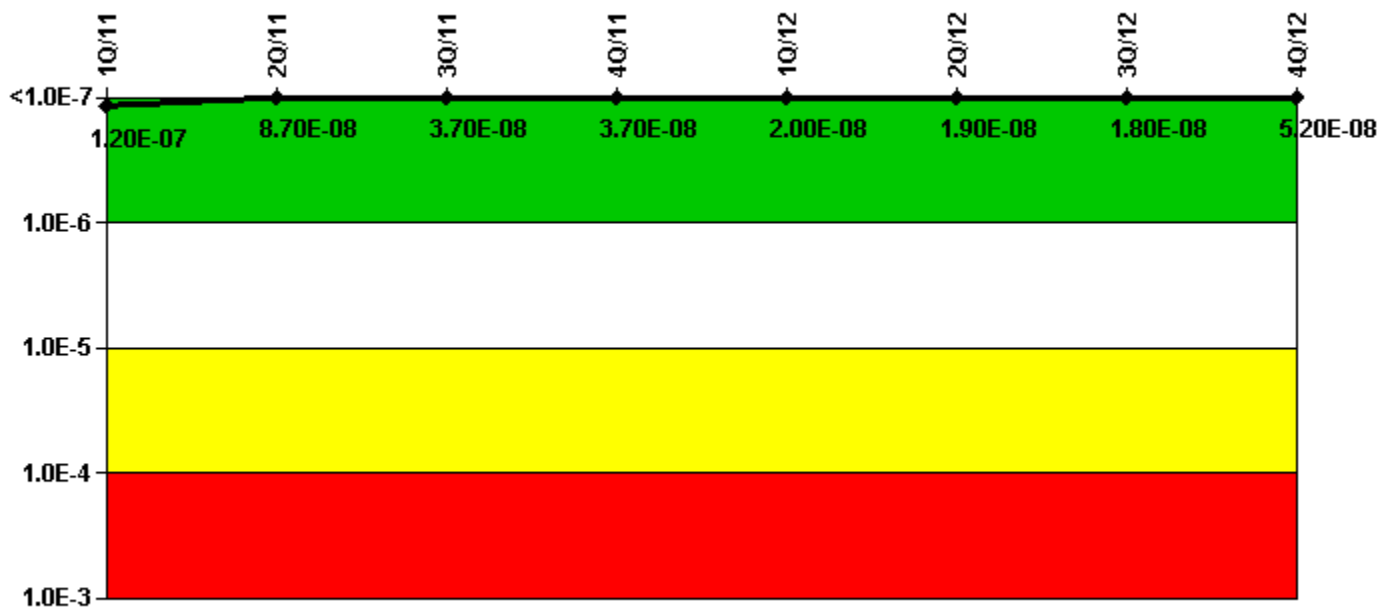
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI ( $\Delta$ CDF)	6.82E-09	-2.12E-08	-6.34E-09	-1.29E-08	-2.27E-08	-1.93E-08	-1.95E-08	-2.35E-08
URI ( $\Delta$ CDF)	-1.04E-07	-1.04E-07	-4.06E-08	-4.06E-08	-4.06E-08	-4.06E-08	-4.06E-08	-4.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	<b>-9.70E-08</b>	<b>-1.30E-07</b>	<b>-4.70E-08</b>	<b>-5.30E-08</b>	<b>-6.30E-08</b>	<b>-6.00E-08</b>	<b>-6.00E-08</b>	<b>-6.40E-08</b>

Licensee Comments:

2Q/11: Revised FVUAP, UAP, and CDF based on revision 5a of the MSPI Basis Document.



### Mitigating Systems Performance Index, Cooling Water Systems



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

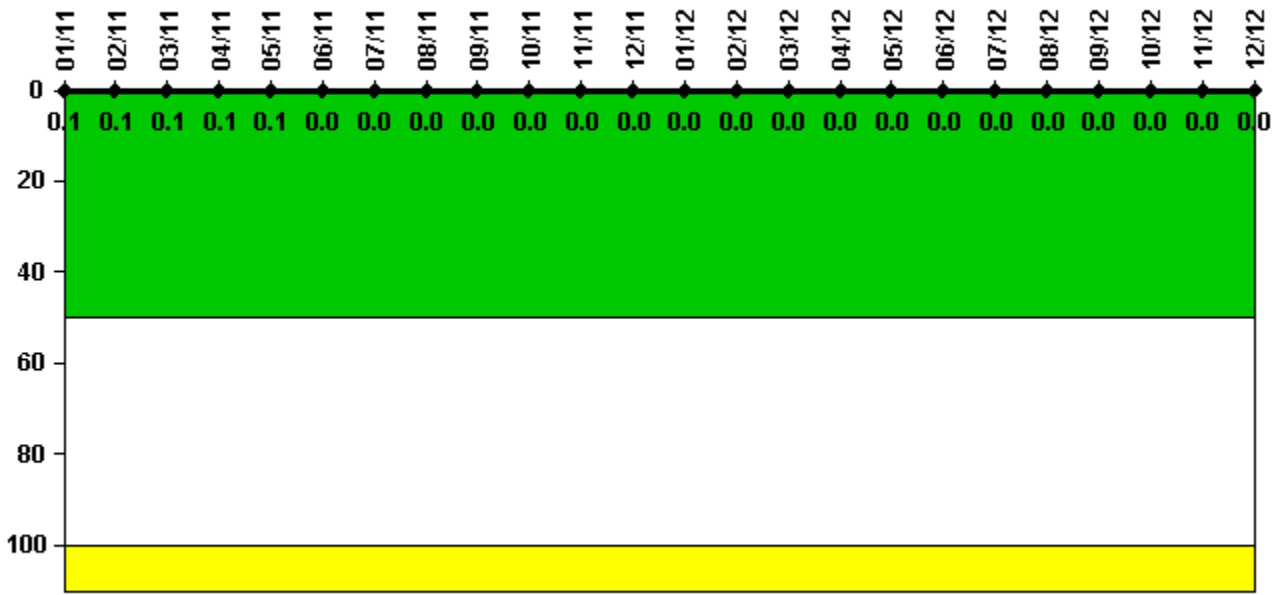
#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI ( $\Delta$ CDF)	1.26E-07	8.83E-08	3.71E-08	3.71E-08	2.08E-08	1.91E-08	1.90E-08	5.27E-08
URI ( $\Delta$ CDF)	-9.61E-10	-9.61E-10	-5.28E-10	-5.28E-10	-5.28E-10	-5.28E-10	-5.28E-10	-5.28E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.20E-07	8.70E-08	3.70E-08	3.70E-08	2.00E-08	1.90E-08	1.80E-08	5.20E-08

Licensee Comments:

2Q/11: Revised FVUAP, UAP, and CDF based on revision 5a of the MSPi Basis Document.

### Reactor Coolant System Activity



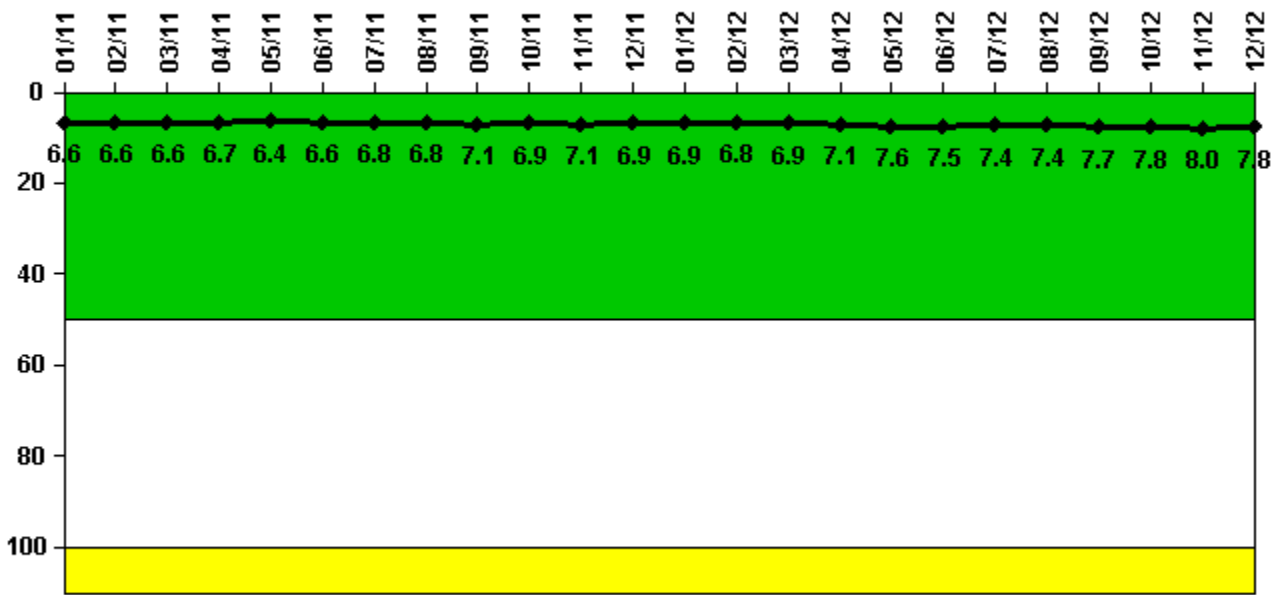
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum activity	0.000210	0.000189	0.000161	0.000163	0.000144	0.000041	0.000047	0.000052	0.000043	0.000032	0.000036	0.000036
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	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0
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	0.000031	0.000035	0.000035	0.000053	0.000036	0.000030	0.000040	0.000036	0.000047	0.000047	0.000037	0.000035
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

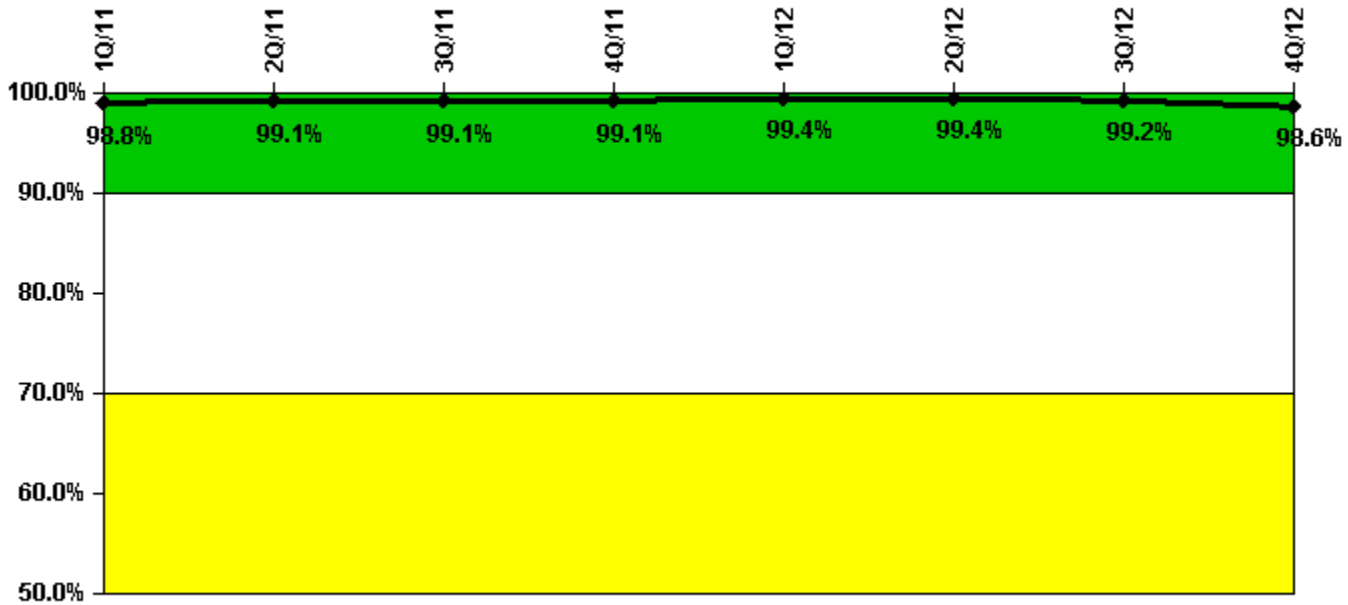
Reactor Coolant System Leakage	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum leakage	1.641	1.643	1.644	1.685	1.591	1.650	1.699	1.709	1.784	1.718	1.765	1.724
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	6.6	6.6	6.6	6.7	6.4	6.6	6.8	6.8	7.1	6.9	7.1	6.9

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	1.714	1.703	1.730	1.767	1.901	1.865	1.858	1.858	1.931	1.956	1.991	1.940
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	6.9	6.8	6.9	7.1	7.6	7.5	7.4	7.4	7.7	7.8	8.0	7.8

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

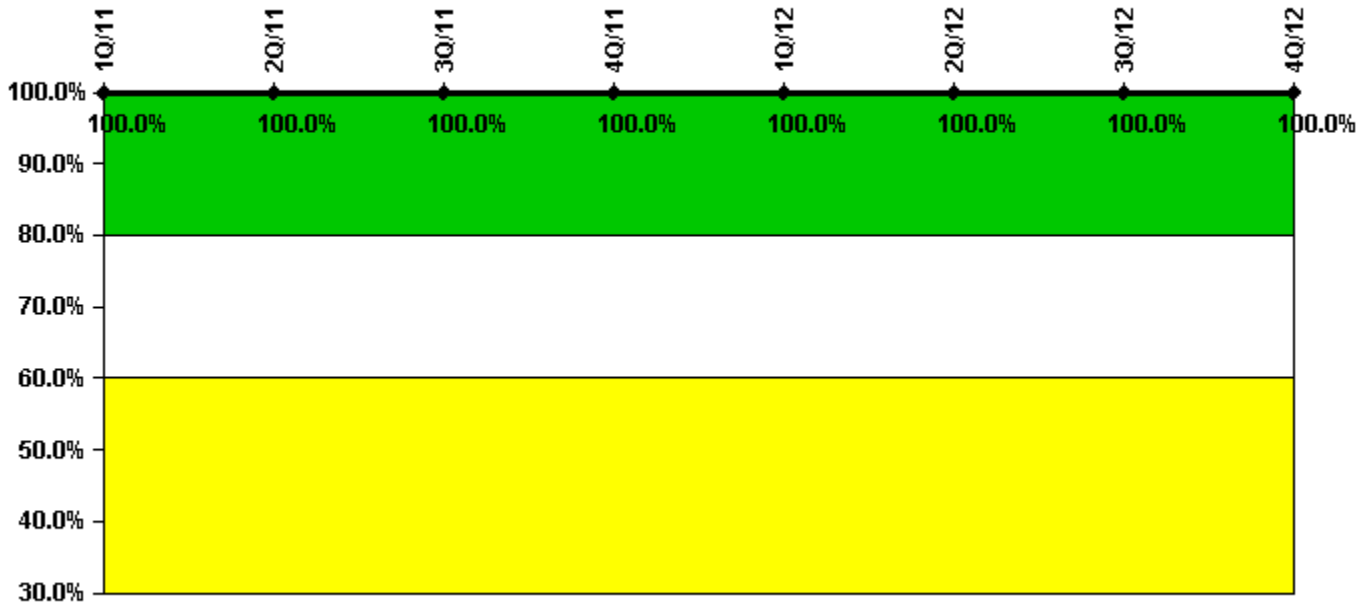
#### Notes

Drill/Exercise Performance	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful opportunities	62.0	10.0	65.0	44.0	50.0	53.0	31.0	37.0
Total opportunities	62.0	10.0	65.0	44.0	50.0	55.0	32.0	39.0
Indicator value	98.8%	99.1%	99.1%	99.1%	99.4%	99.4%	99.2%	98.6%

Licensee Comments:

3Q/12: A change package is being submitted for 3rd quarter 2012 to update the September data for Successful drill, exer & event opportunities & Total drill, exer & event opportunities from 7 to 14. This does not affect the color of any indicator.

### ERO Drill Participation



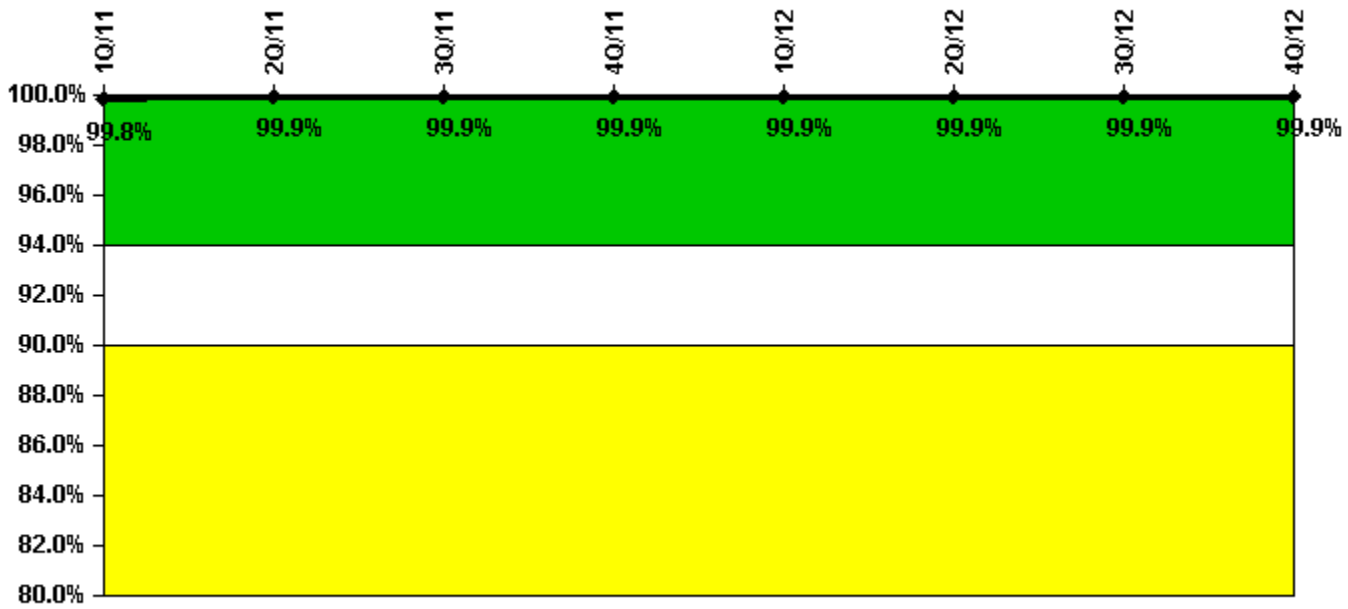
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

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

Licensee Comments: none

### Alert & Notification System



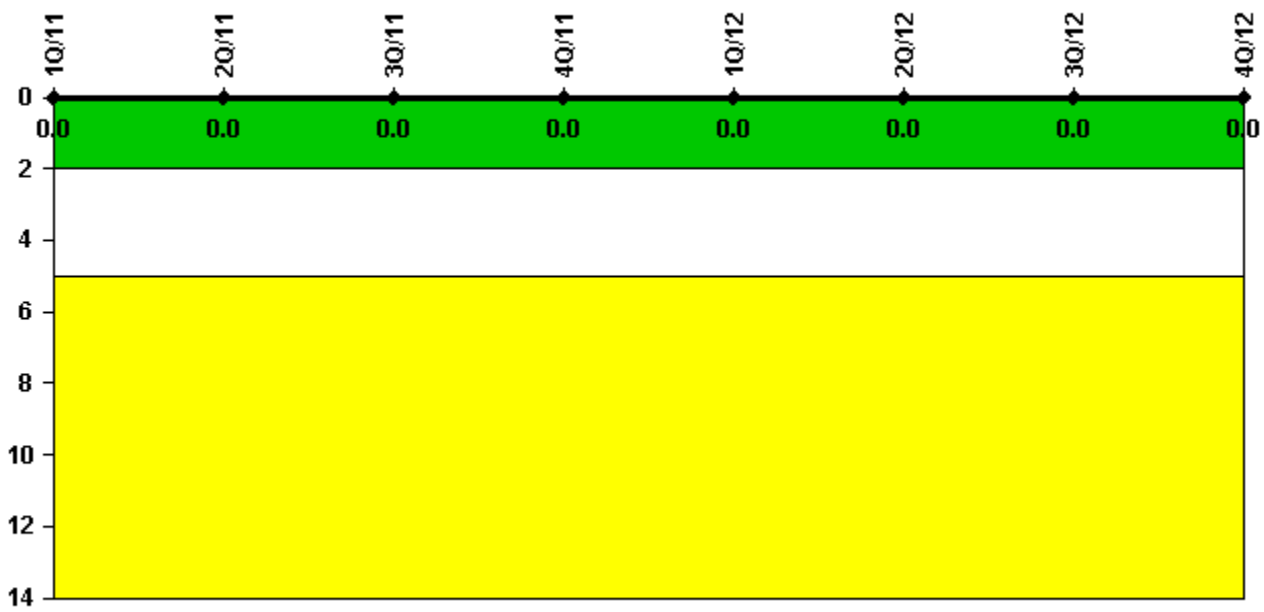
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	2686	2686	2685	2687	2727	2686	2640	2688
Total sirens-tests	2688	2688	2688	2688	2730	2688	2646	2688
<b>Indicator value</b>	<b>99.8%</b>	<b>99.9%</b>	<b>99.9%</b>	<b>99.9%</b>	<b>99.9%</b>	<b>99.9%</b>	<b>99.9%</b>	<b>99.9%</b>

Licensee Comments: none

### Occupational Exposure Control Effectiveness



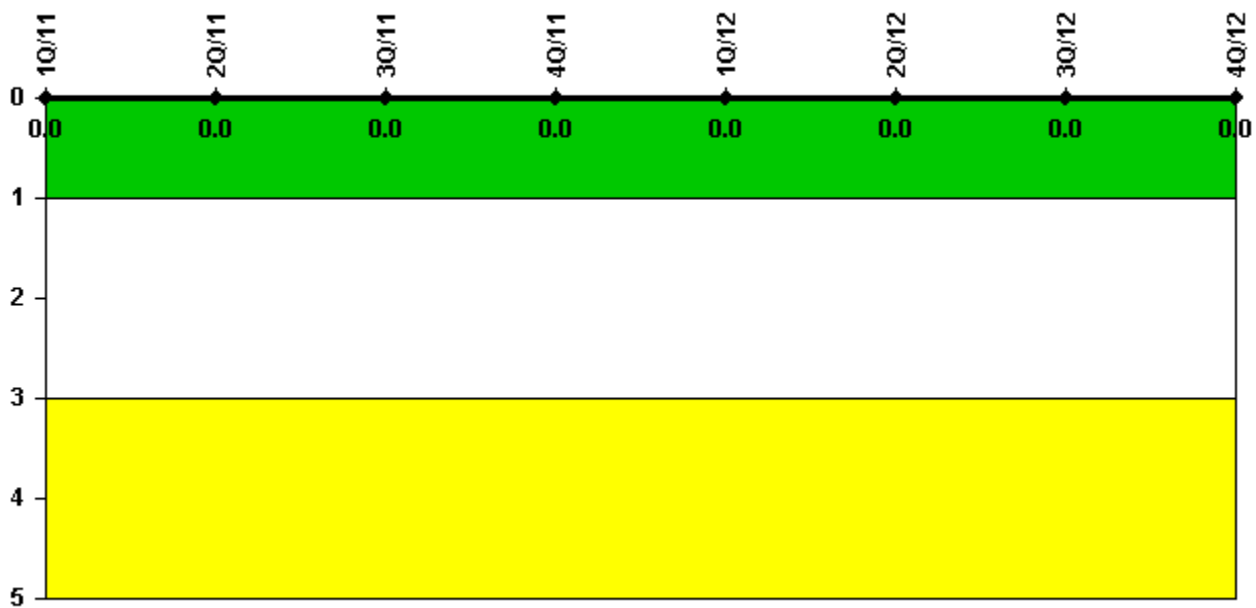
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
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	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
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.