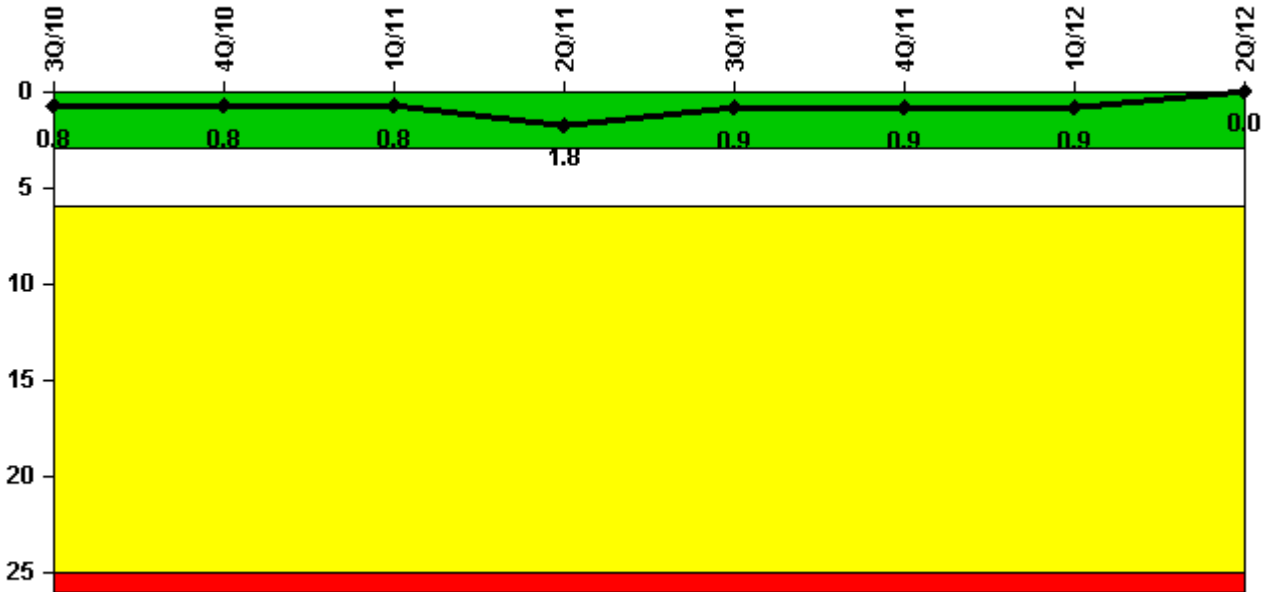


# Quad Cities 1

## 2Q/2012 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



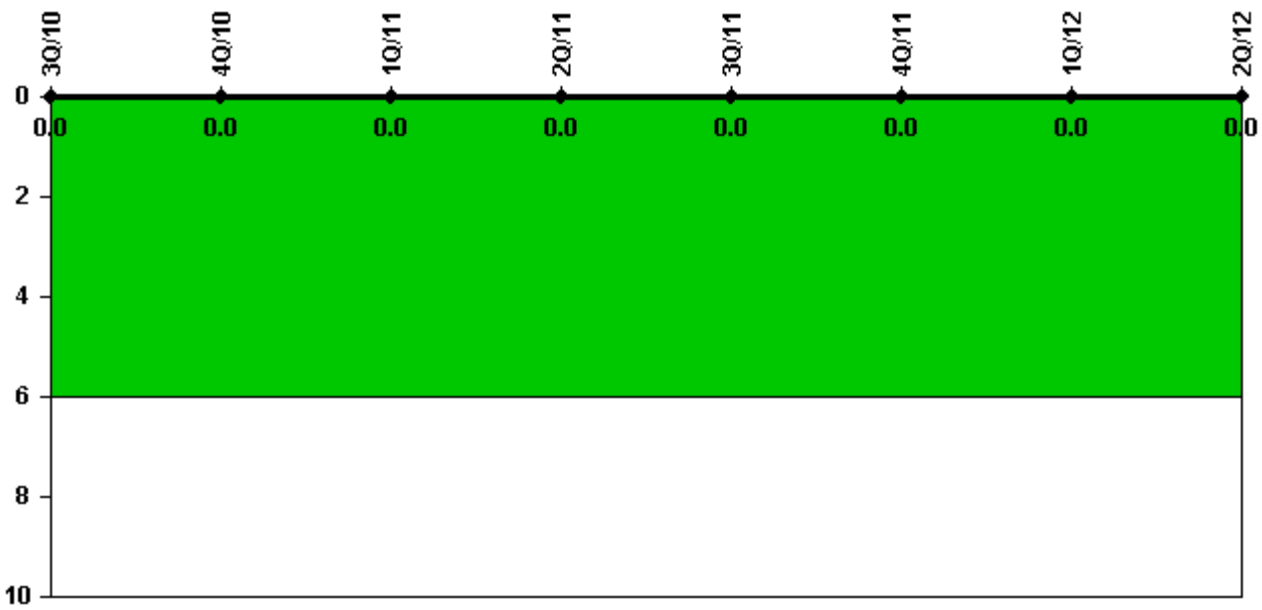
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned scrams	1.0	0	0	1.0	0	0	0	0
Critical hours	2154.3	2209.0	2159.0	1467.5	2208.0	2209.0	2183.0	2184.0
Indicator value	0.8	0.8	0.8	1.8	0.9	0.9	0.9	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



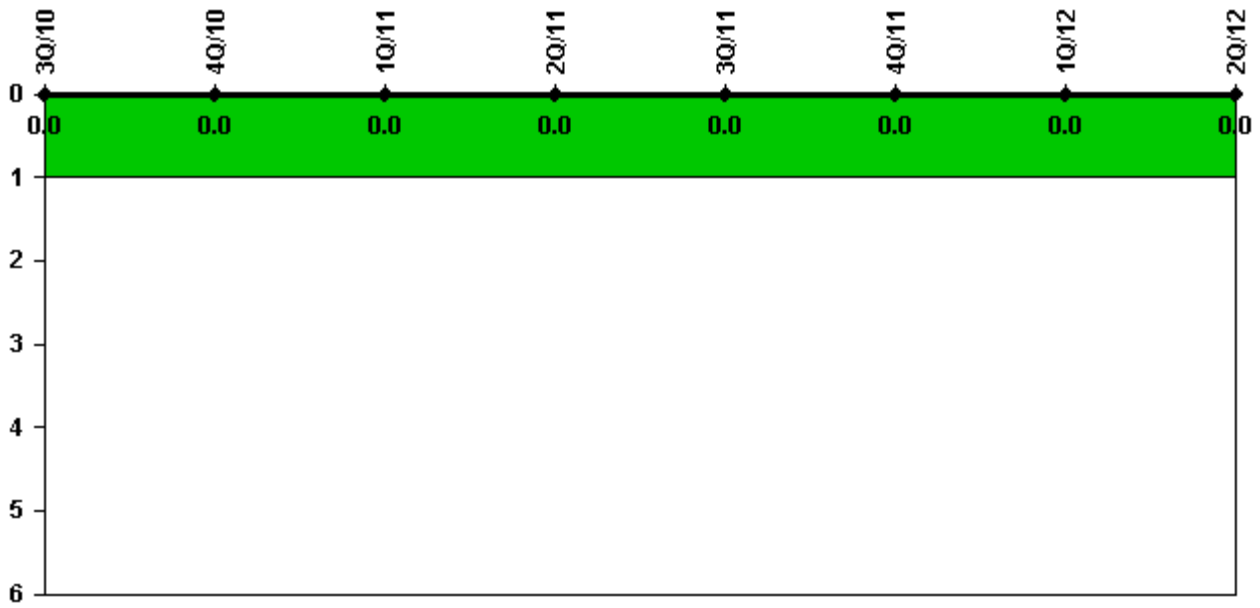
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2154.3	2209.0	2159.0	1467.5	2208.0	2209.0	2183.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

## Unplanned Scrams with Complications



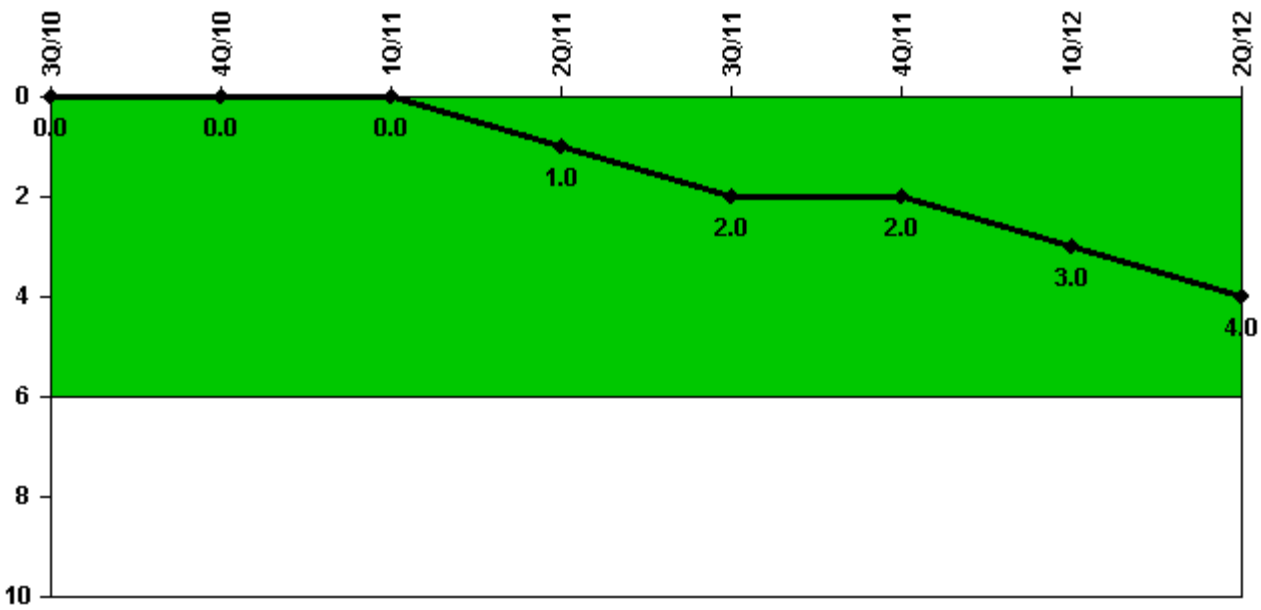
Thresholds: White > 1.0

### Notes

Unplanned Scrams with Complications	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

## Safety System Functional Failures (BWR)



Thresholds: White > 6.0

### Notes

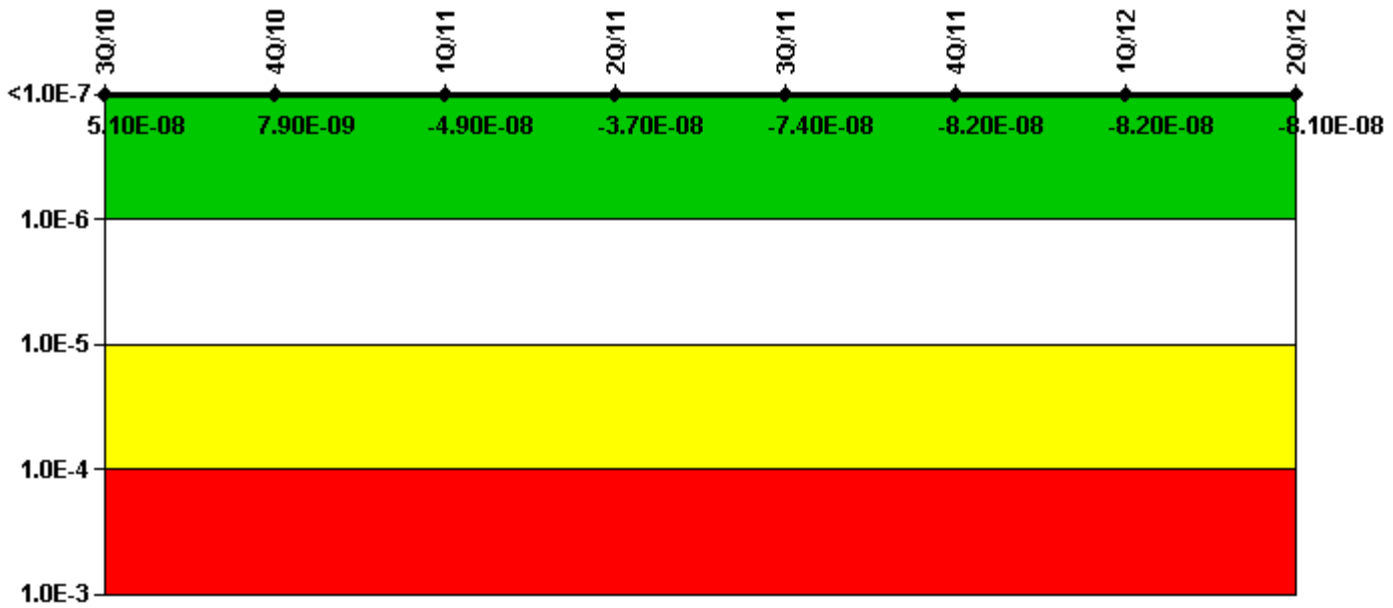
Safety System Functional Failures (BWR)	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Safety System Functional Failures	0	0	0	1	1	0	1	2
Indicator value	0	0	0	1	2	2	3	4

Licensee Comments:

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

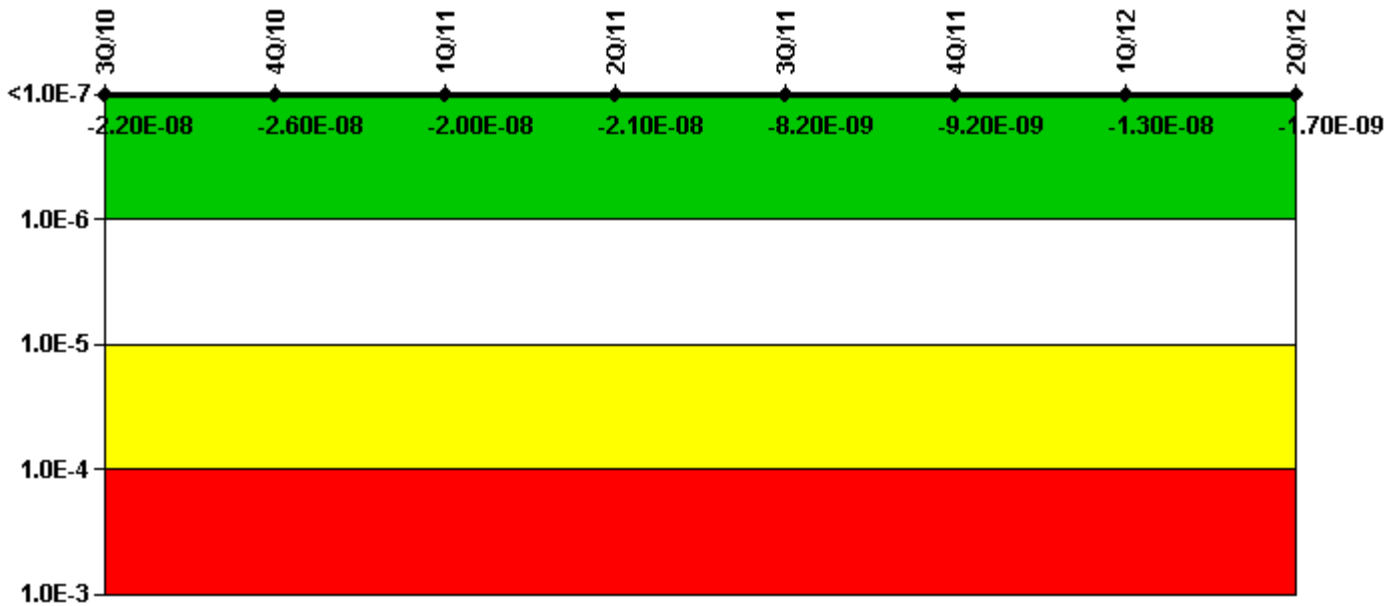
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	1.16E-07	1.21E-07	6.59E-08	8.05E-08	2.57E-09	-6.11E-09	-8.21E-09	-9.63E-09
URI ( $\Delta$ CDF)	-6.52E-08	-1.13E-07	-1.15E-07	-1.18E-07	-7.64E-08	-7.61E-08	-7.37E-08	-7.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.10E-08	7.90E-09	-4.90E-08	-3.70E-08	-7.40E-08	-8.20E-08	-8.20E-08	-8.10E-08

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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	1.57E-08	1.17E-08	1.87E-08	1.93E-08	7.97E-09	6.97E-09	3.35E-09	1.27E-08
URI ( $\Delta$ CDF)	-3.74E-08	-3.74E-08	-3.89E-08	-4.03E-08	-1.62E-08	-1.62E-08	-1.62E-08	-1.44E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-2.60E-08	-2.00E-08	-2.10E-08	-8.20E-09	-9.20E-09	-1.30E-08	-1.70E-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.

4Q/10: 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

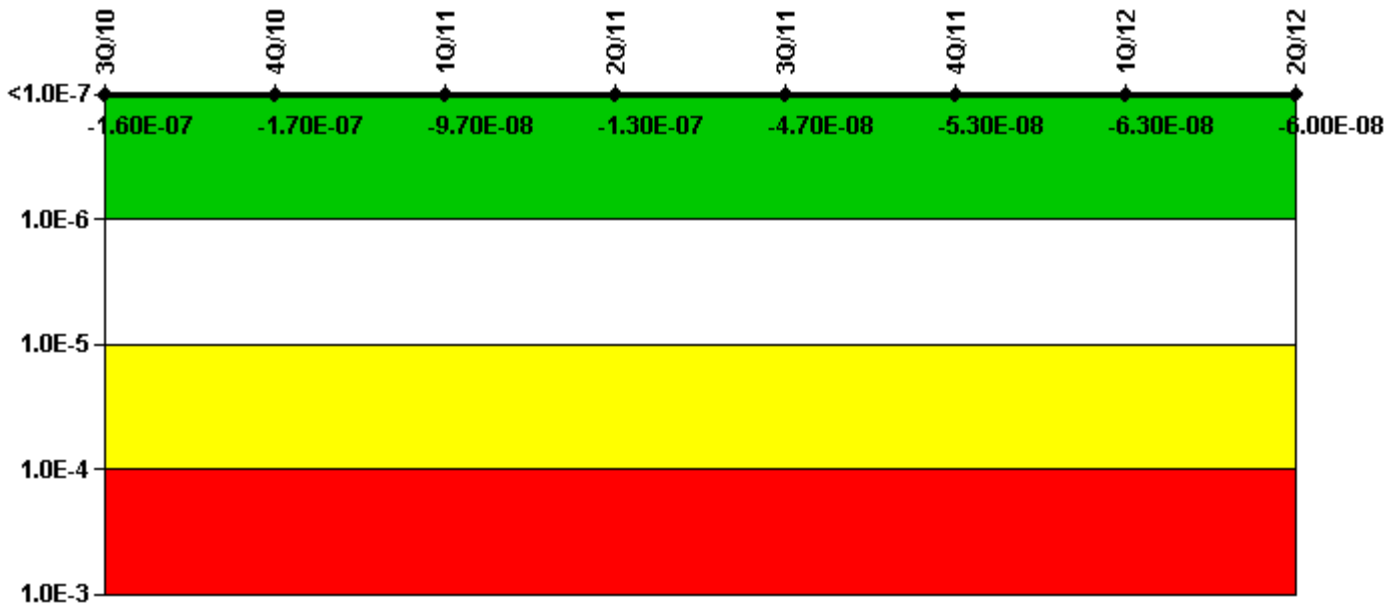
## Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	-5.53E-09	-5.30E-09	-8.58E-10	2.53E-09	1.15E-09	1.29E-09	1.42E-09	-7.28E-10
URI ( $\Delta$ CDF)	9.19E-08	9.19E-08	-3.25E-08	-3.47E-08	-1.45E-08	-1.45E-08	-1.45E-08	-1.21E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.60E-08	8.70E-08	-3.30E-08	-3.20E-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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	-5.18E-08	-6.11E-08	6.82E-09	-2.12E-08	-6.34E-09	-1.29E-08	-2.27E-08	-1.93E-08
URI ( $\Delta$ CDF)	-1.04E-07	-1.04E-07	-1.04E-07	-1.04E-07	-4.06E-08	-4.06E-08	-4.06E-08	-4.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-07	-1.70E-07	-9.70E-08	-1.30E-07	-4.70E-08	-5.30E-08	-6.30E-08	-6.00E-08

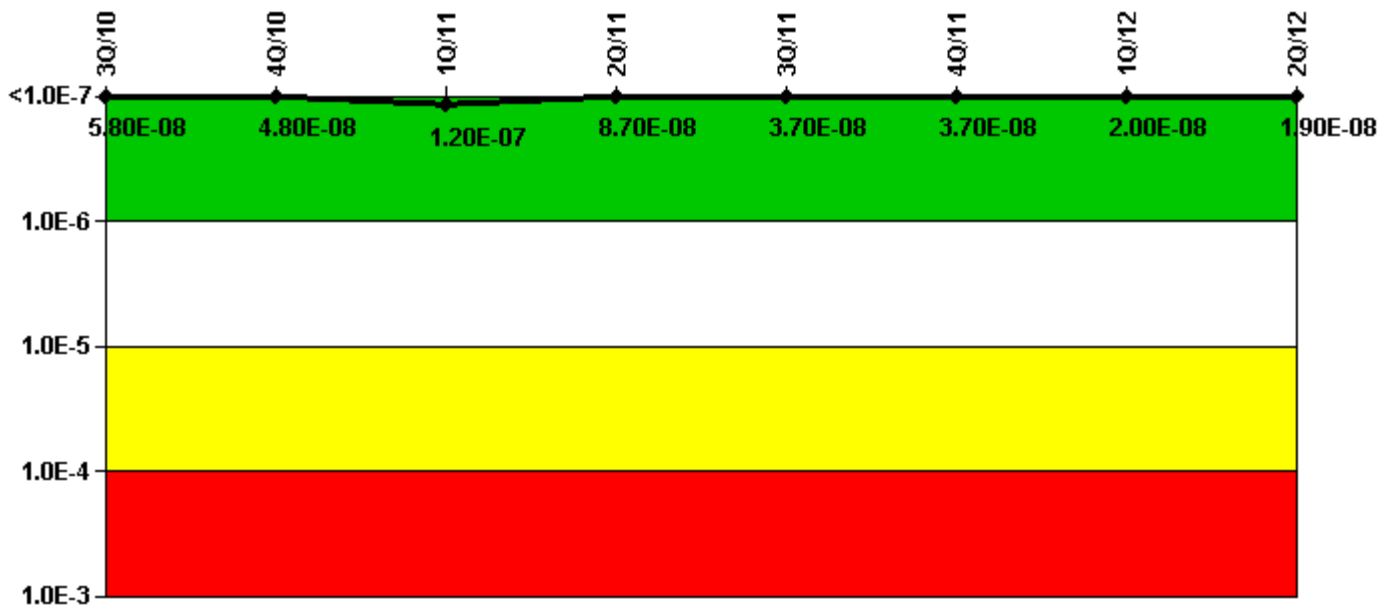
Licensee Comments:

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

4Q/10: Changed PRA Parameter(s). A periodic revision to the PRA model resulted in revised values for FVURC and URPC.



## Mitigating Systems Performance Index, Cooling Water Systems



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

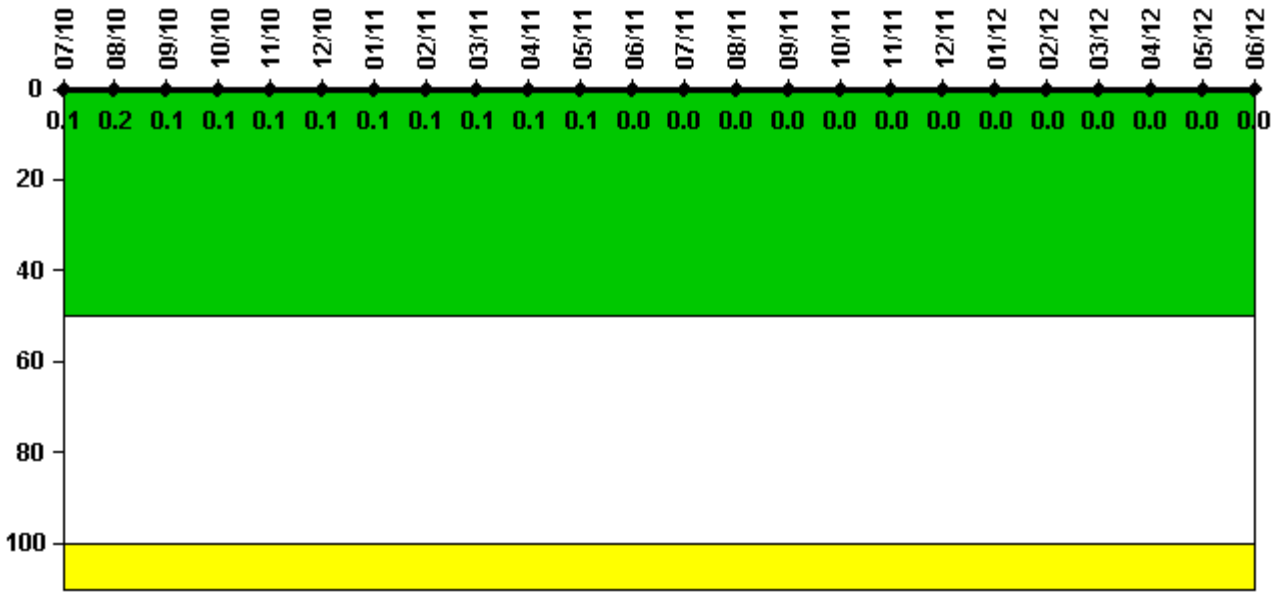
### Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	5.91E-08	4.87E-08	1.26E-07	8.83E-08	3.71E-08	3.71E-08	2.08E-08	1.91E-08
URI ( $\Delta$ CDF)	-9.61E-10	-9.61E-10	-9.61E-10	-9.61E-10	-5.28E-10	-5.28E-10	-5.28E-10	-5.28E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.80E-08	4.80E-08	1.20E-07	8.70E-08	3.70E-08	3.70E-08	2.00E-08	1.90E-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

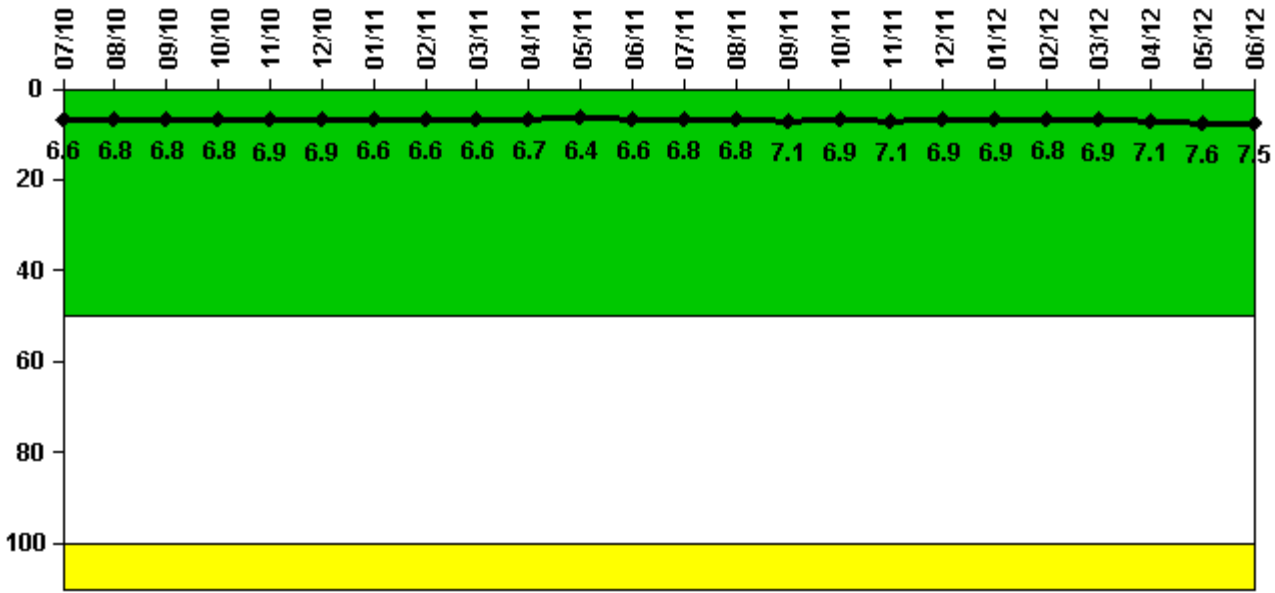
Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000242	0.000327	0.000222	0.000198	0.000240	0.000222	0.000210	0.000189	0.000161	0.000163	0.000144	0.000041
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0

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	0.000047	0.000052	0.000043	0.000032	0.000036	0.000036	0.000031	0.000035	0.000035	0.000053	0.000036	0.000030
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



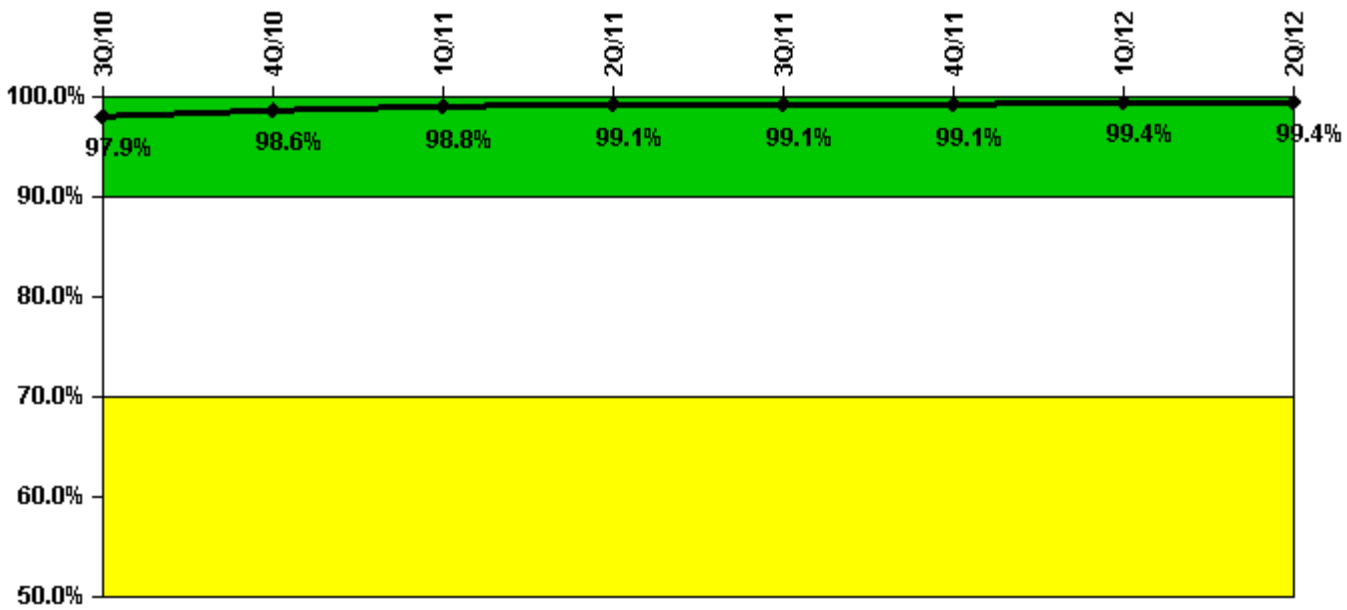
Thresholds: White > 50.0 Yellow > 100.0

### Notes

<b>Reactor Coolant System Leakage</b>	<b>7/10</b>	<b>8/10</b>	<b>9/10</b>	<b>10/10</b>	<b>11/10</b>	<b>12/10</b>	<b>1/11</b>	<b>2/11</b>	<b>3/11</b>	<b>4/11</b>	<b>5/11</b>	<b>6/11</b>
Maximum leakage	1.644	1.691	1.703	1.702	1.722	1.729	1.641	1.643	1.644	1.685	1.591	1.650
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	6.8	6.8	6.8	6.9	6.9	6.6	6.6	6.6	6.7	6.4	6.6
<b>Reactor Coolant System Leakage</b>	<b>7/11</b>	<b>8/11</b>	<b>9/11</b>	<b>10/11</b>	<b>11/11</b>	<b>12/11</b>	<b>1/12</b>	<b>2/12</b>	<b>3/12</b>	<b>4/12</b>	<b>5/12</b>	<b>6/12</b>
Maximum leakage	1.699	1.709	1.784	1.718	1.765	1.724	1.714	1.703	1.730	1.767	1.901	1.865
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	6.8	6.8	7.1	6.9	7.1	6.9	6.9	6.8	6.9	7.1	7.6	7.5

Licensee Comments: none

## Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

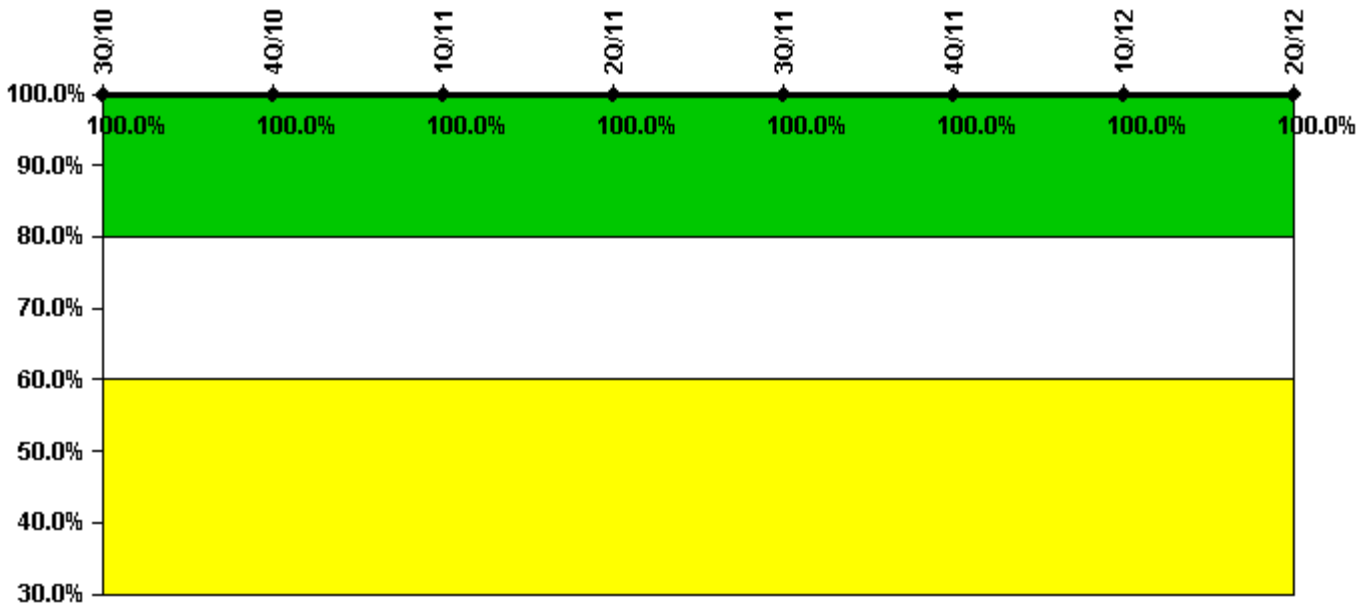
### Notes

Drill/Exercise Performance	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful opportunities	37.0	39.0	62.0	10.0	65.0	44.0	50.0	53.0
Total opportunities	37.0	39.0	62.0	10.0	65.0	44.0	50.0	55.0
Indicator value	97.9%	98.6%	98.8%	99.1%	99.1%	99.1%	99.4%	99.4%

Licensee Comments:

3Q/10: Revised to reduce the number of opportunities following internal review of the data.

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

### Notes

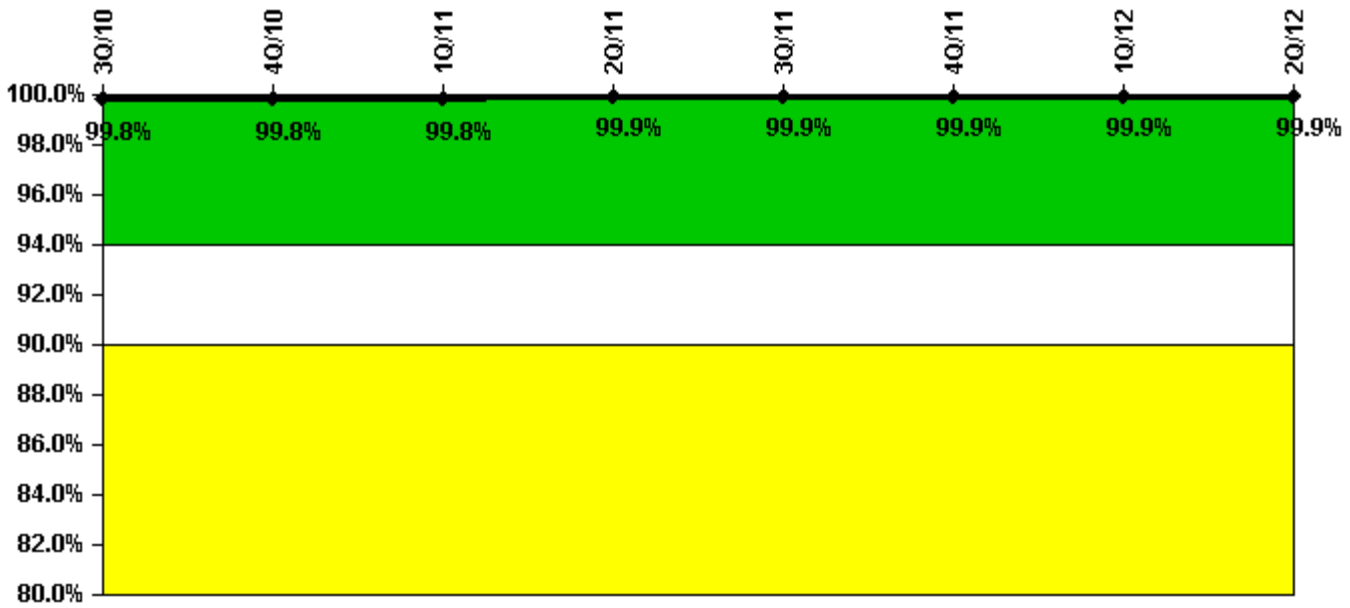
ERO Drill Participation	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Participating Key personnel	69.0	70.0	75.0	75.0	73.0	72.0	75.0	78.0
Total Key personnel	69.0	70.0	75.0	75.0	73.0	72.0	75.0	78.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

3Q/10: Revised to correct data errors found during an internal review of data.

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# Alert & Notification System



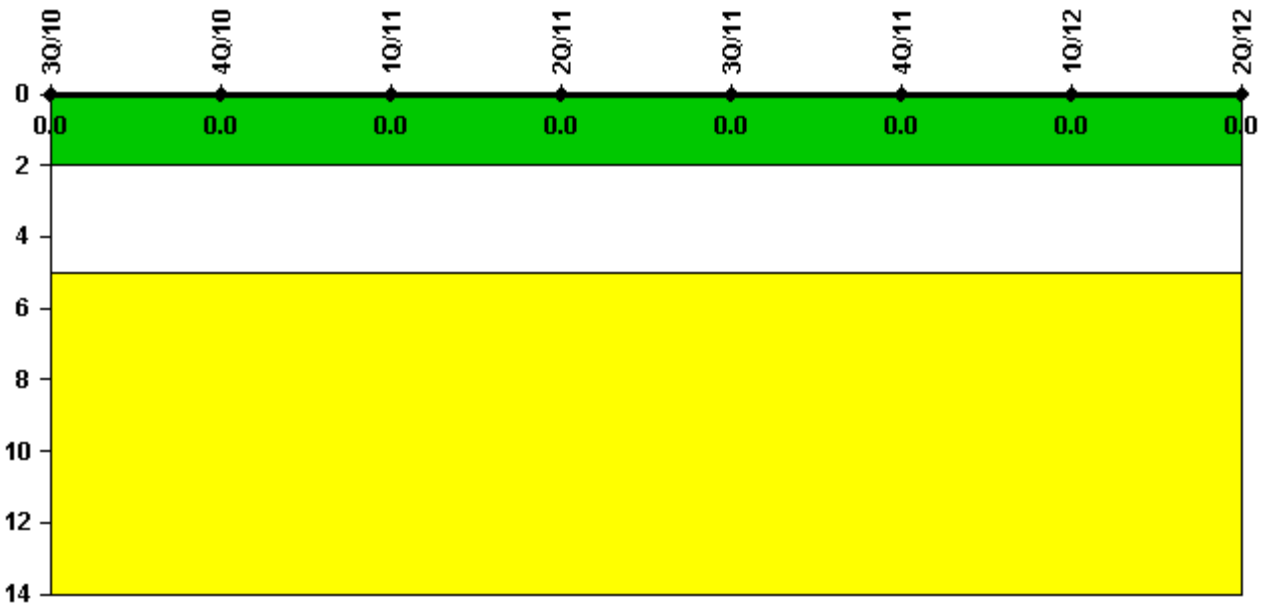
Thresholds: **White** < 94.0% **Yellow** < 90.0%

## Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	2723	2728	2686	2686	2685	2687	2727	2686
Total sirens-tests	2730	2730	2688	2688	2688	2688	2730	2688
Indicator value	99.8%	99.8%	99.8%	99.9%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



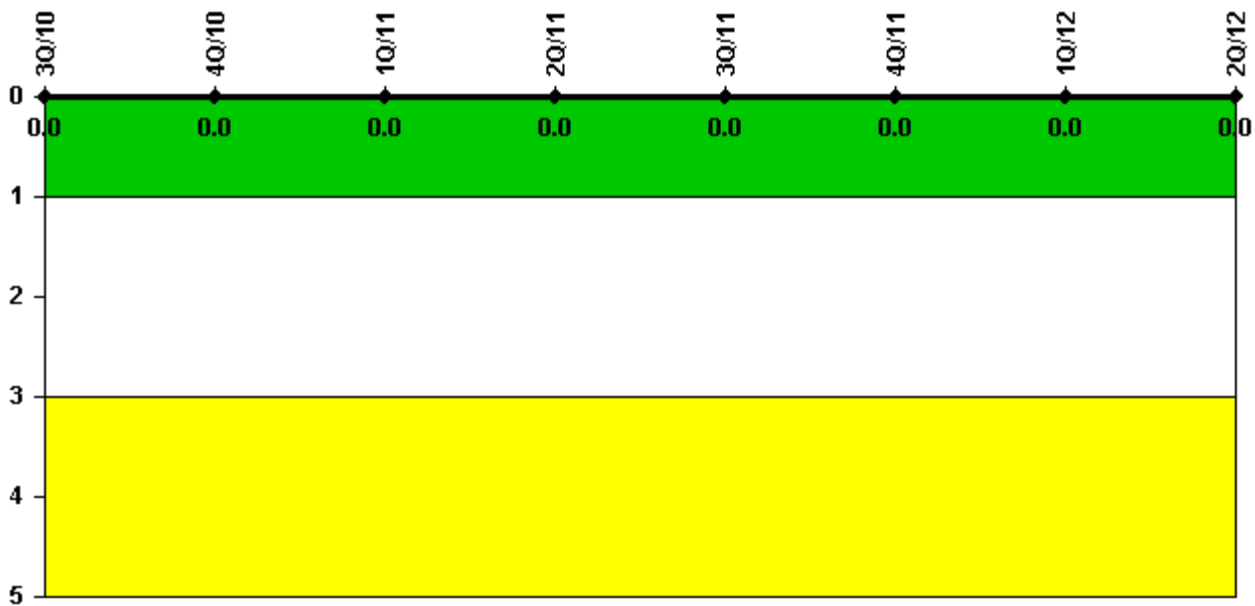
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/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
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

## RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

### Notes

RETS/ODCM Radiological Effluent	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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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.

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