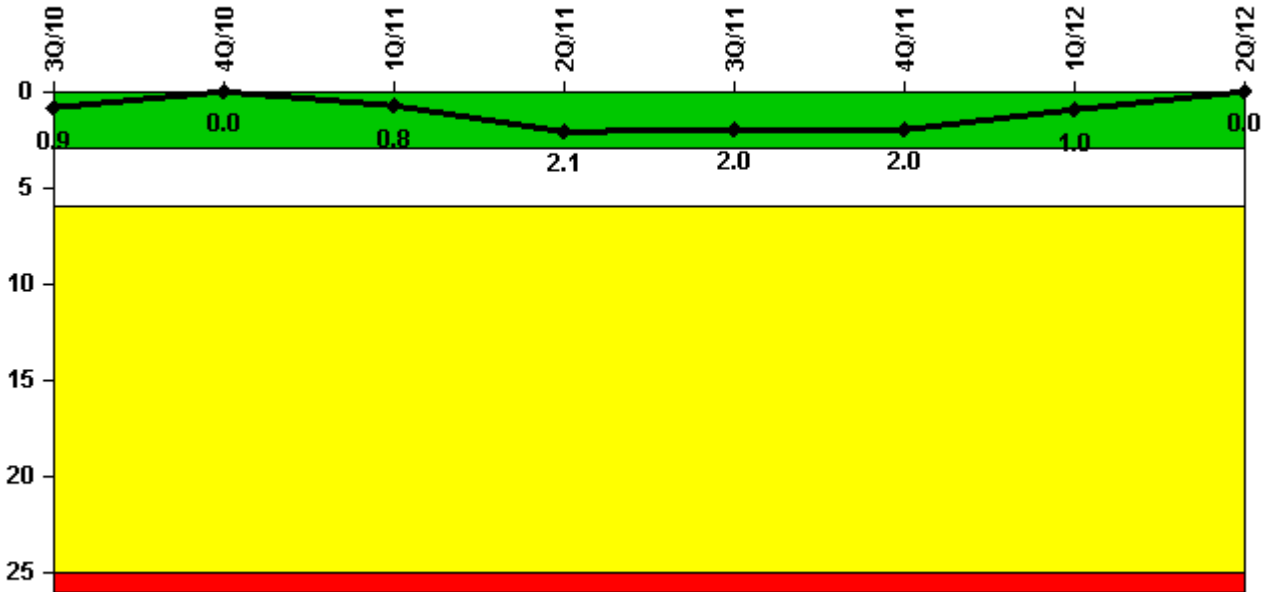


# Surry 2

## 2Q/2012 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



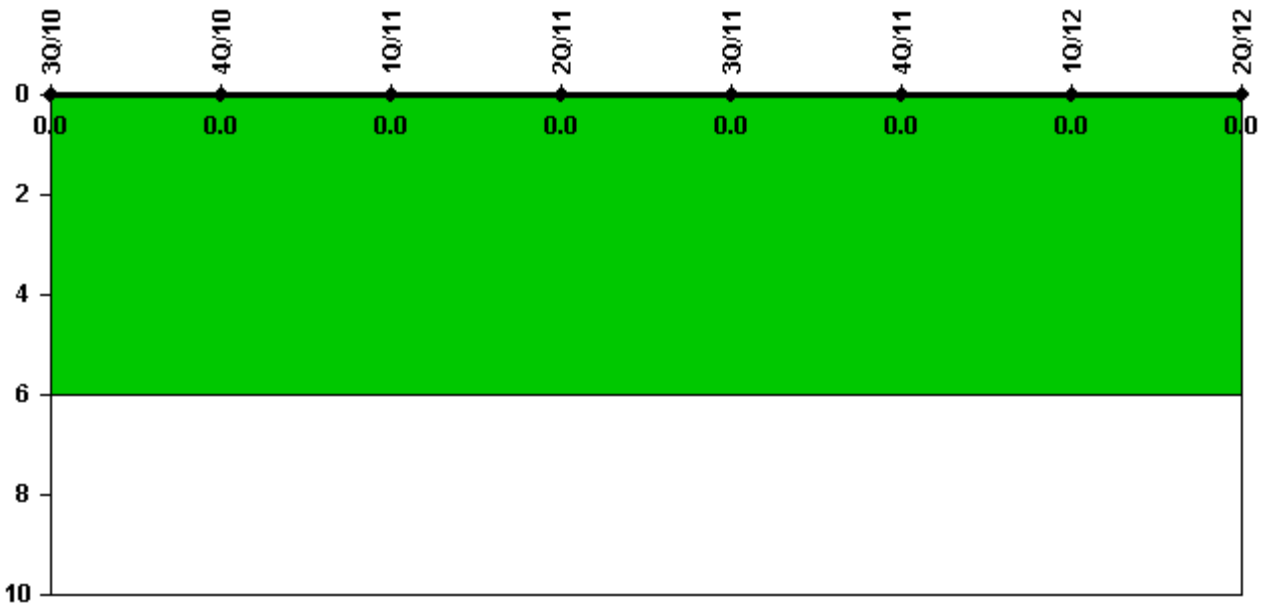
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	0	0	1.0	1.0	0	0	0	0
Critical hours	2107.9	2209.0	1789.4	623.8	2208.0	2209.0	2183.0	2184.0
Indicator value	0.9	0	0.8	2.1	2.0	2.0	1.0	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



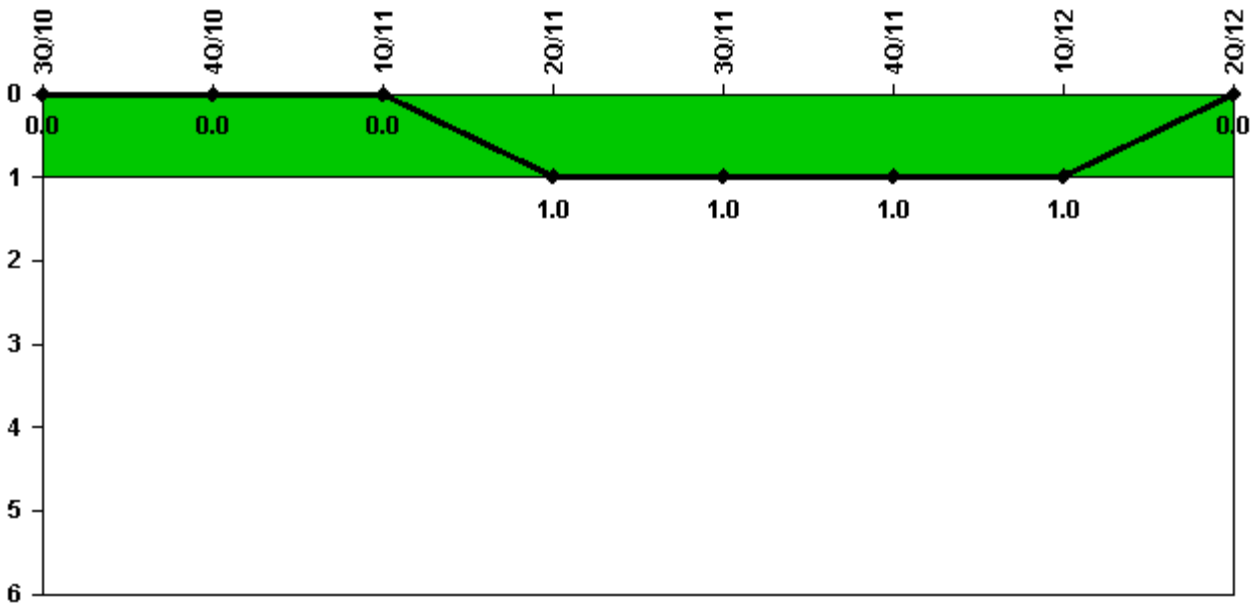
Thresholds: White > 6.0

### 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	2107.9	2209.0	1789.4	623.8	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



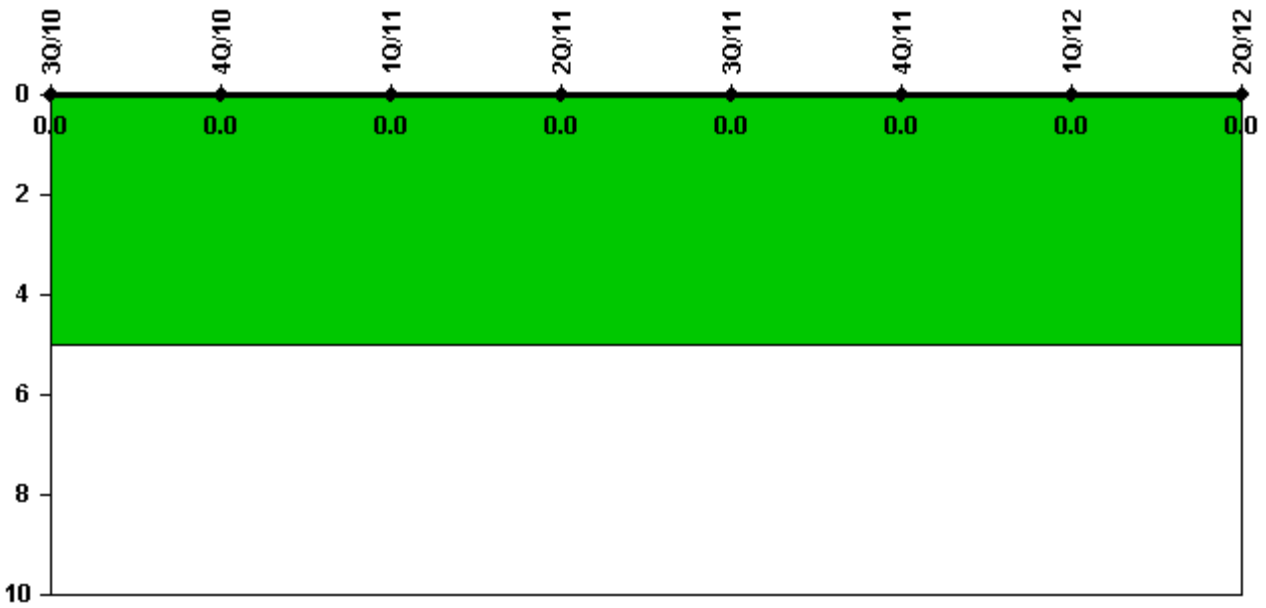
Thresholds: White > 1.0

### 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	1.0	0	0	0	0
Indicator value	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0

Licensee Comments: none

## Safety System Functional Failures (PWR)



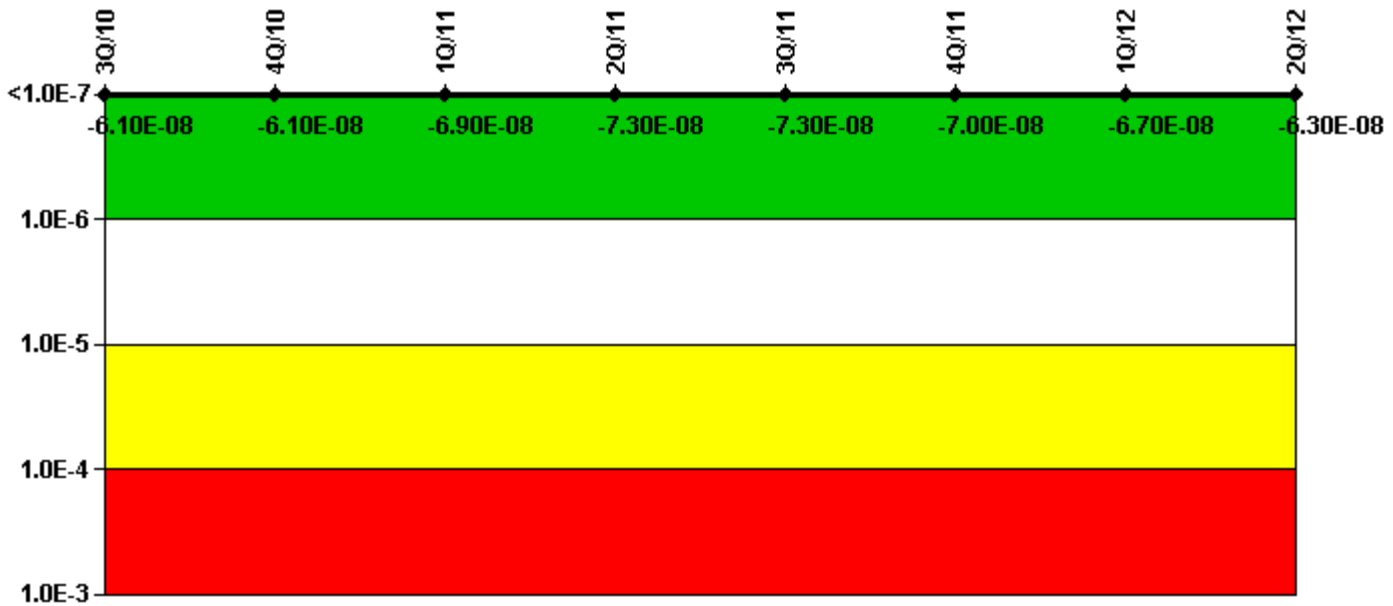
Thresholds: White > 5.0

### Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



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

## Notes

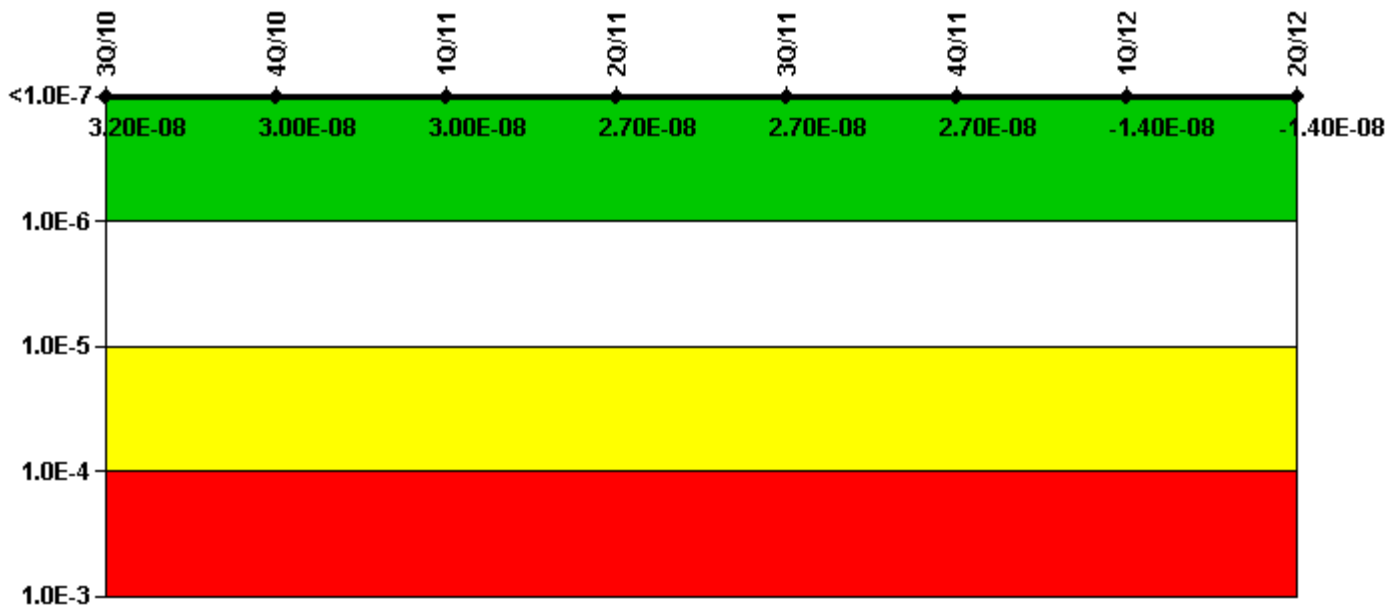
Mitigating Systems Performance Index, Emergency AC Power System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	9.34E-09	1.01E-08	-2.16E-09	-2.05E-09	-2.69E-09	-2.99E-09	-3.00E-09	-3.00E-09
URI ( $\Delta$ CDF)	-7.06E-08	-7.12E-08	-6.72E-08	-7.05E-08	-7.00E-08	-6.73E-08	-6.36E-08	-6.03E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.10E-08	-6.10E-08	-6.90E-08	-7.30E-08	-7.30E-08	-7.00E-08	-6.70E-08	-6.30E-08

## Licensee Comments:

1Q/11: An NRC assessment identified several instances of unplanned unavailability and post maintenance test demands that were reported incorrectly. Historical data was corrected with no change in color.

3Q/10: Final evaluation of a voltage regulator failure in April 2010 was determined to be a MSPI failure. Historical data was corrected with no change in color.

# Mitigating Systems Performance Index, High Pressure Injection System



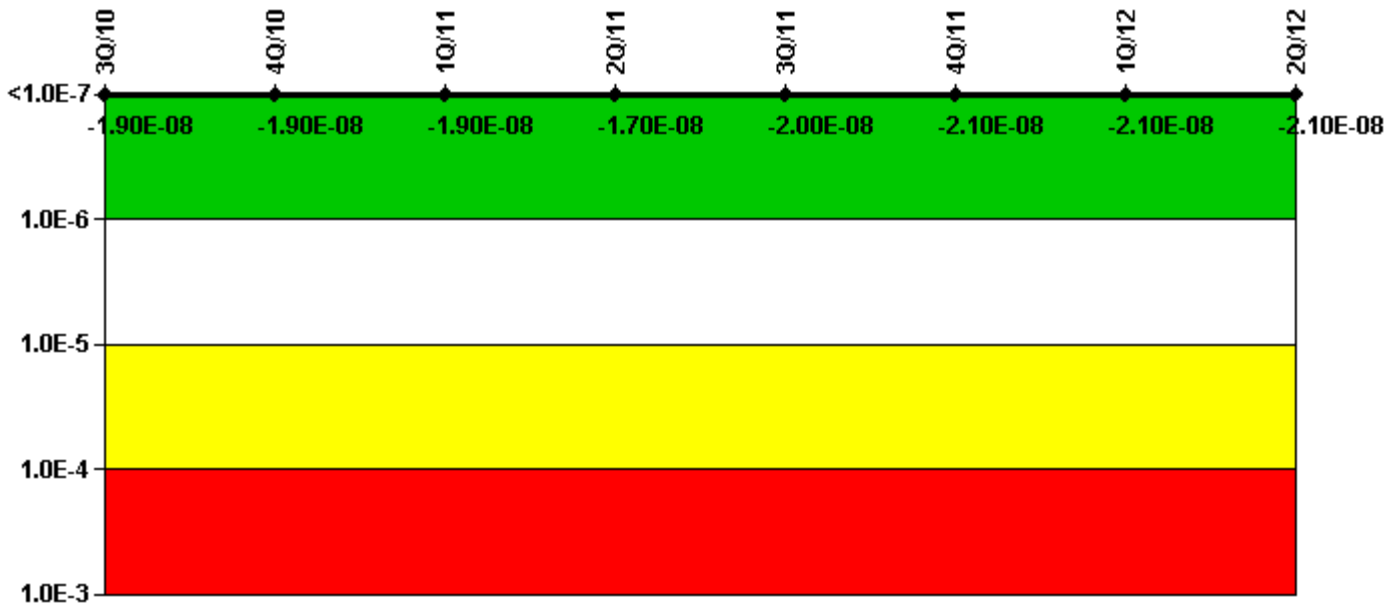
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## 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)	3.92E-09	3.92E-09	4.47E-09	1.55E-09	1.68E-09	2.30E-09	1.95E-09	1.92E-09
URI ( $\Delta$ CDF)	2.82E-08	2.58E-08	2.57E-08	2.56E-08	2.50E-08	2.47E-08	-1.58E-08	-1.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.20E-08	3.00E-08	3.00E-08	2.70E-08	2.70E-08	2.70E-08	-1.40E-08	-1.40E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



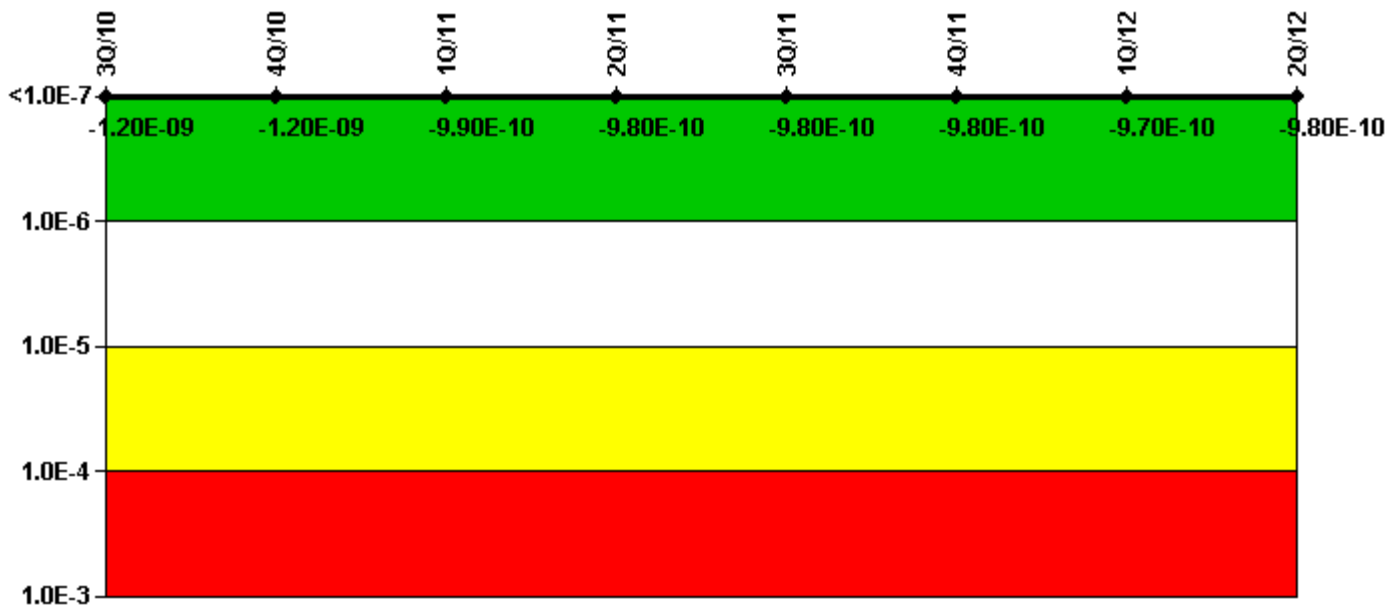
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	-3.43E-09	-3.56E-09	-2.36E-09	-1.49E-09	-5.50E-09	-5.77E-09	-5.77E-09	-5.72E-09
URI ( $\Delta$ CDF)	-1.59E-08	-1.59E-08	-1.65E-08	-1.54E-08	-1.49E-08	-1.49E-08	-1.54E-08	-1.49E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-08	-1.90E-08	-1.90E-08	-1.70E-08	-2.00E-08	-2.10E-08	-2.10E-08	-2.10E-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

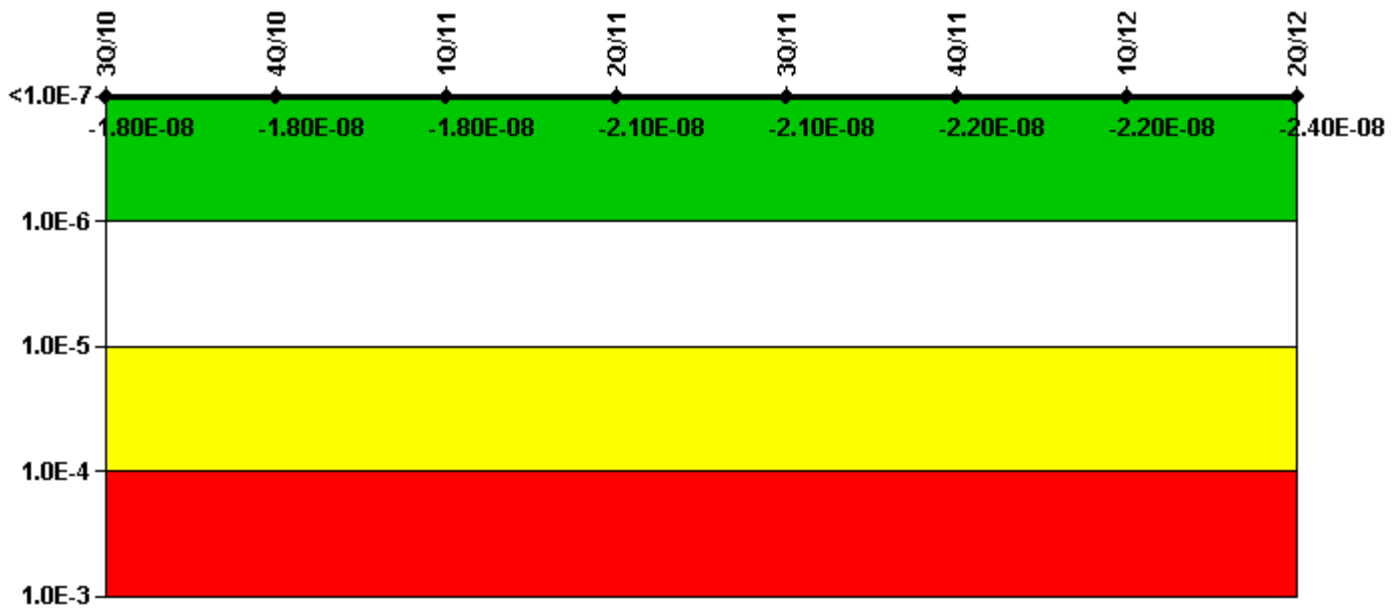
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	-1.94E-10	-1.79E-10	9.76E-11	1.13E-10	1.25E-10	1.30E-10	1.53E-10	1.50E-10
URI ( $\Delta$ CDF)	-1.04E-09	-1.06E-09	-1.08E-09	-1.09E-09	-1.10E-09	-1.11E-09	-1.13E-09	-1.13E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.20E-09	-9.90E-10	-9.80E-10	-9.80E-10	-9.80E-10	-9.70E-10	-9.80E-10

Licensee Comments: none



## Mitigating Systems Performance Index, Cooling Water Systems



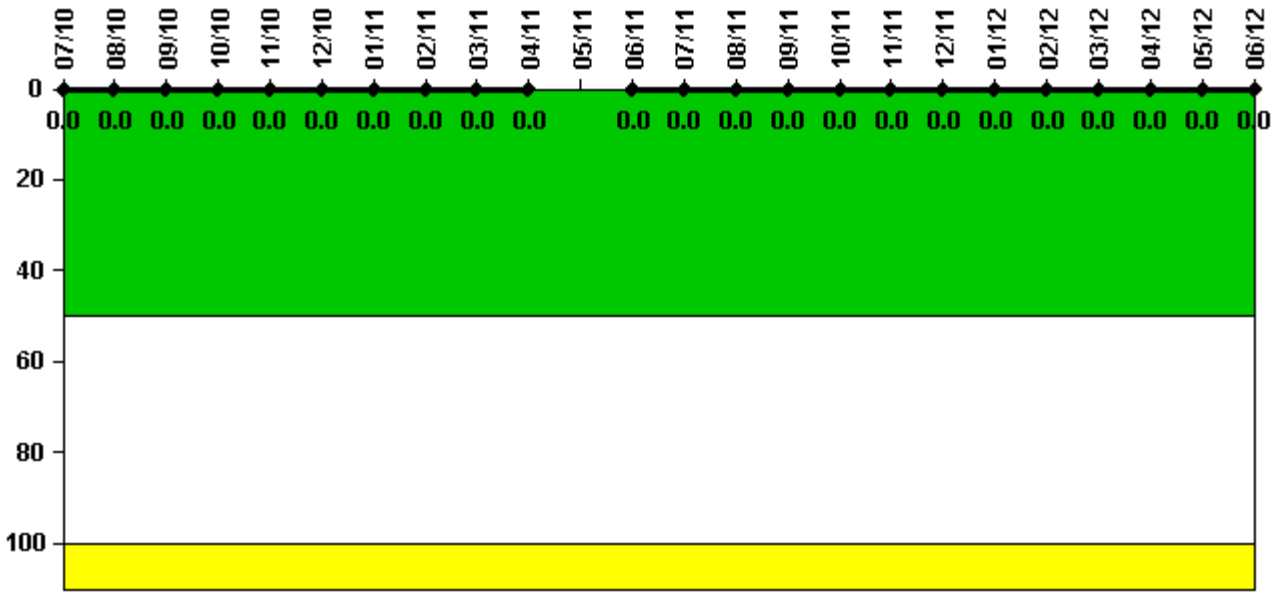
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

### Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	3.50E-09	3.57E-09	4.37E-09	2.11E-09	1.38E-09	1.21E-09	1.01E-09	7.76E-13
URI ( $\Delta$ CDF)	-2.13E-08	-2.18E-08	-2.23E-08	-2.28E-08	-2.27E-08	-2.31E-08	-2.35E-08	-2.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.80E-08	-1.80E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.20E-08	-2.40E-08

Licensee Comments: none

## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

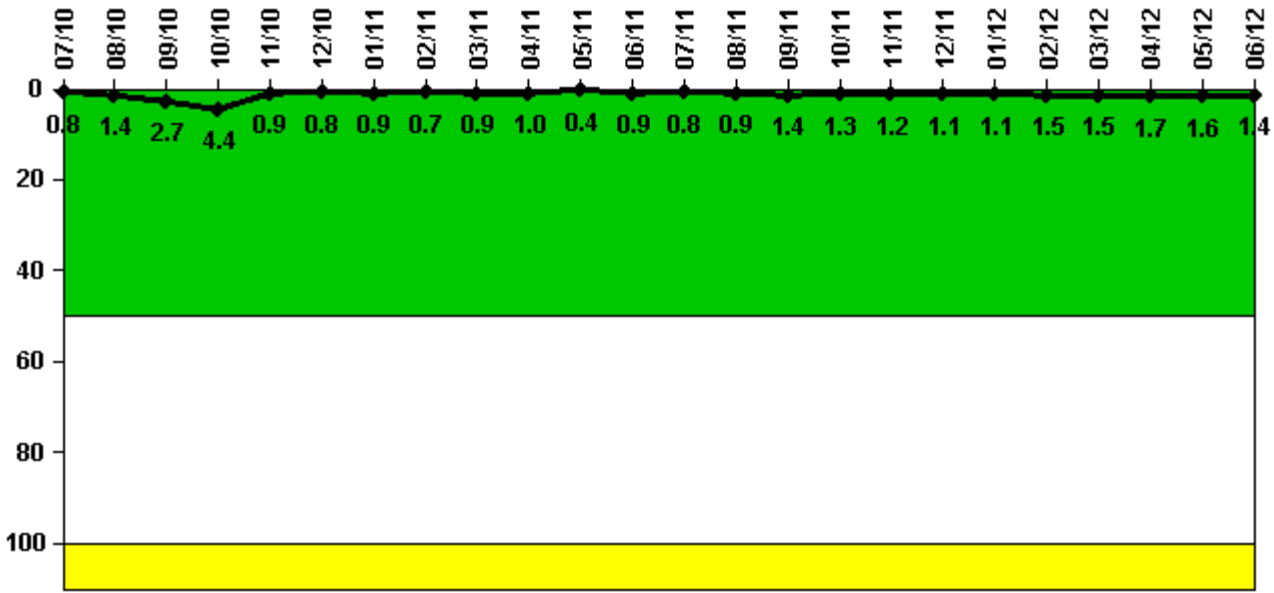
Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000375	0.000316	0.000209	0.000270	0.000219	0.000250	0.000256	0.000266	0.000277	0.000281	N/A	0.000140
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	N/A	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	0.000120	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

Licensee Comments: none

## Reactor Coolant System Leakage



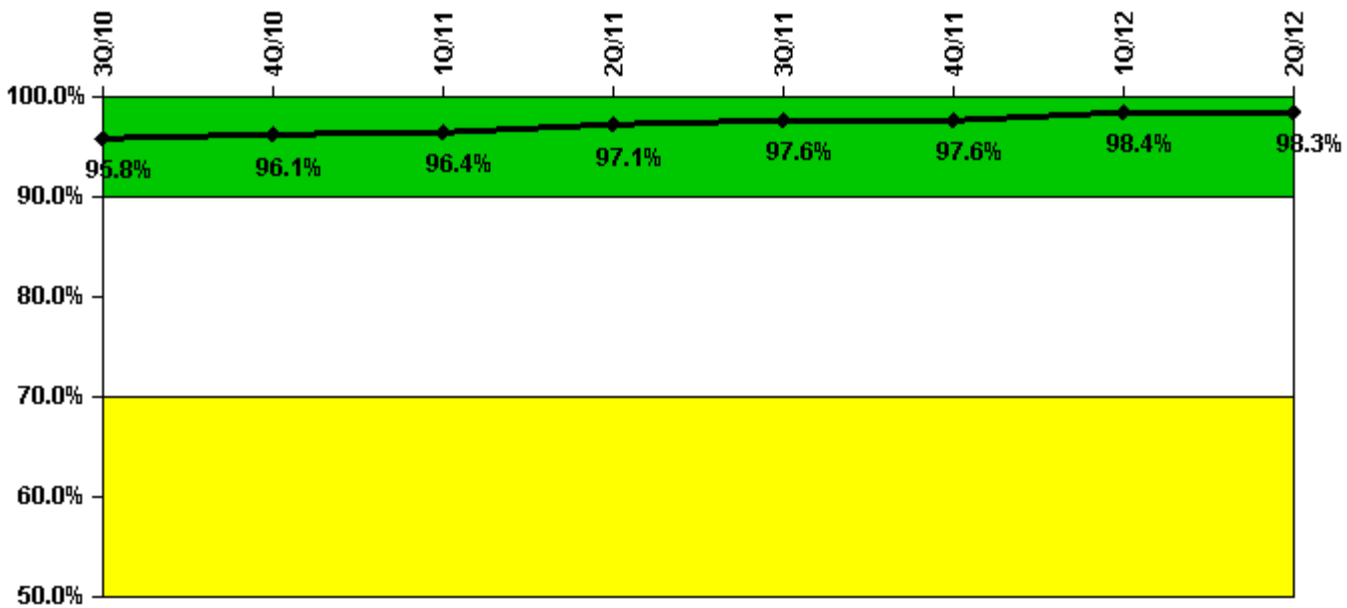
Thresholds: White > 50.0 Yellow > 100.0

### 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	0.080	0.140	0.270	0.440	0.090	0.080	0.090	0.070	0.090	0.100	0.043	0.090
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	0.8	1.4	2.7	4.4	0.9	0.8	0.9	0.7	0.9	1.0	0.4	0.9
<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	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	0.8	0.9	1.4	1.3	1.2	1.1	1.1	1.5	1.5	1.7	1.6	1.4

Licensee Comments: none

## Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

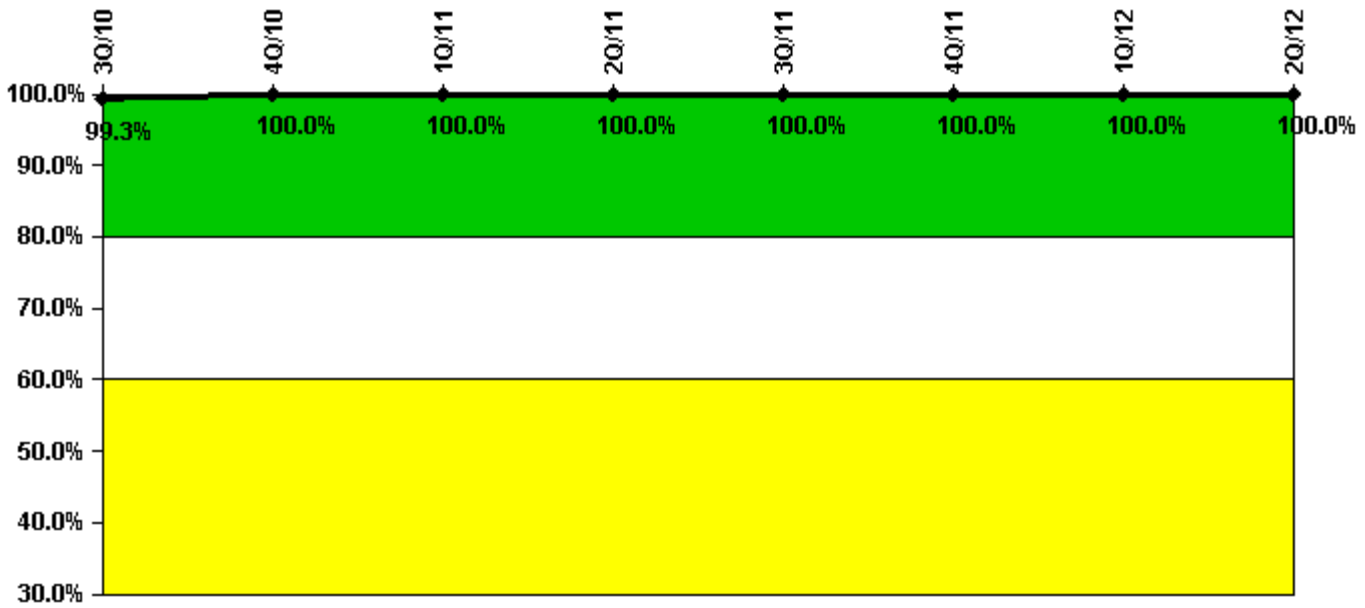
### Notes

Drill/Exercise Performance	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful opportunities	41.0	15.0	31.0	27.0	31.0	27.0	38.0	24.0
Total opportunities	41.0	15.0	32.0	28.0	31.0	27.0	38.0	26.0
Indicator value	95.8%	96.1%	96.4%	97.1%	97.6%	97.6%	98.4%	98.3%

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



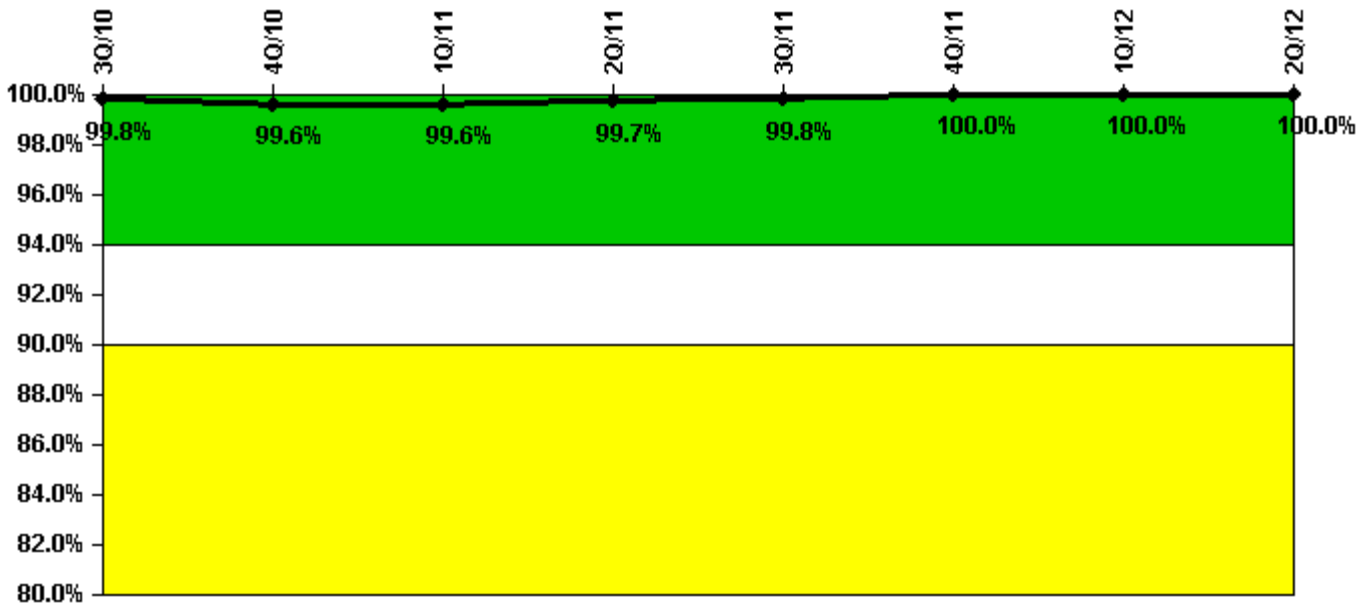
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Participating Key personnel	143.0	128.0	132.0	139.0	138.0	141.0	153.0	150.0
Total Key personnel	144.0	128.0	132.0	139.0	138.0	141.0	153.0	150.0
Indicator value	99.3%	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%**

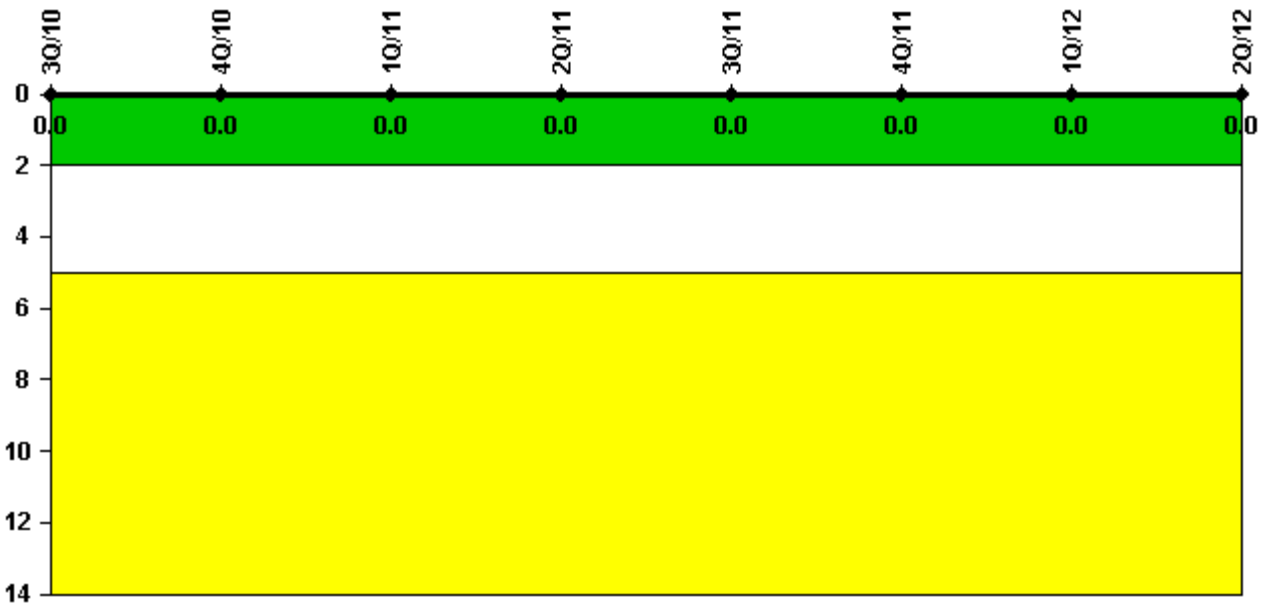
### Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	473	540	476	544	476	544	476	544
Total sirens-tests	476	544	476	544	476	544	476	544
Indicator value	99.8%	99.6%	99.6%	99.7%	99.8%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/11: A self-assessment identified a siren activation test was not counted in March 2011. Historical data was corrected with no change in color.

## Occupational Exposure Control Effectiveness



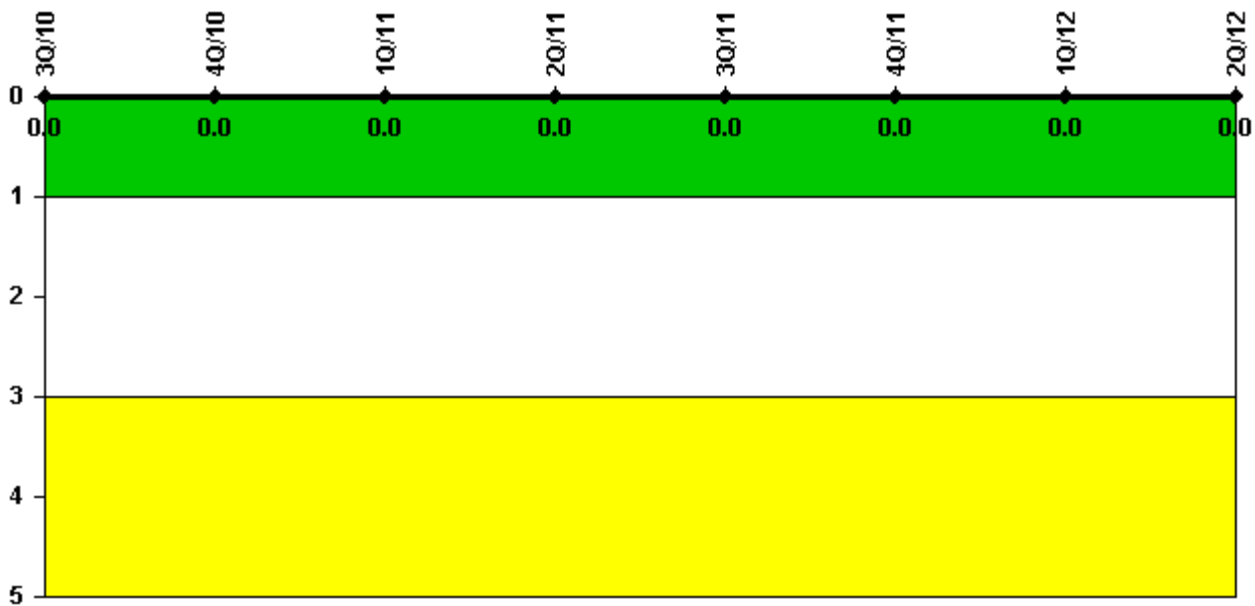
Thresholds: White > 2.0 Yellow > 5.0

### 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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