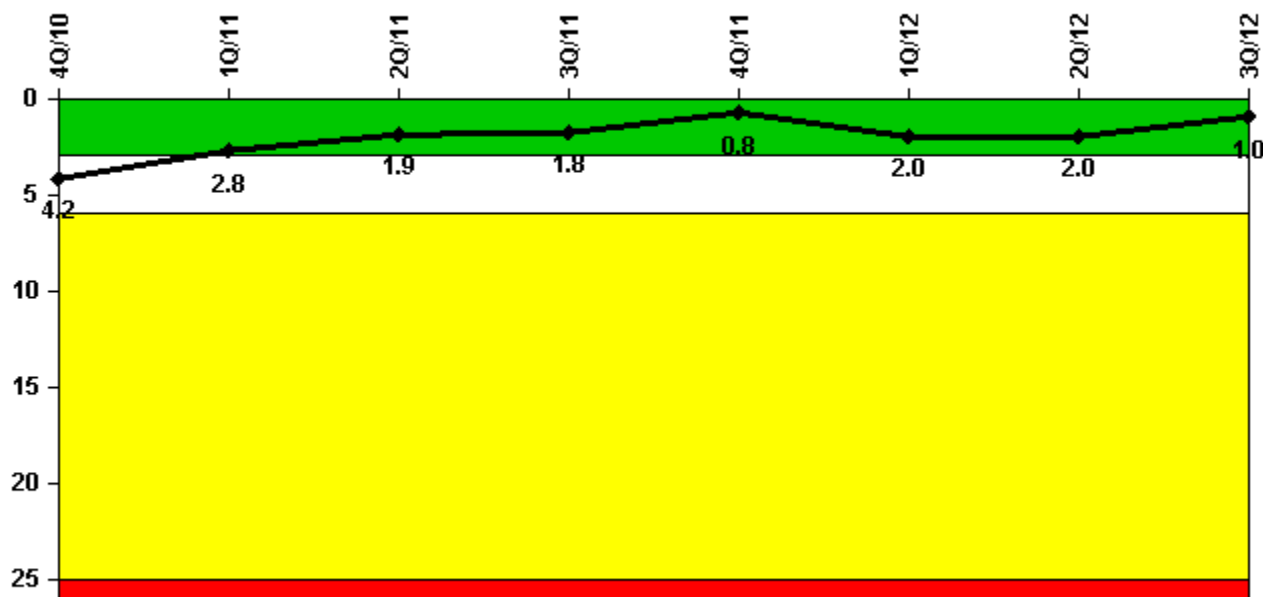


## Robinson 2

### 3Q/2012 Performance Indicators

Licensee's General Comments: March 2012, the "B" Emergency Diesel Generator had been reported with both an Actual ESF Start Demand and an Actual ESF Load/Run Demand. It should have only been reported with an Actual ESF Start Demand. The "B" EDG had failed to come up to voltage during a surveillance test which is reported as an Actual ESF Start Demand per NEI 99-02 Revision 6 Page F-26.

**Unplanned Scrams per 7000 Critical Hrs**



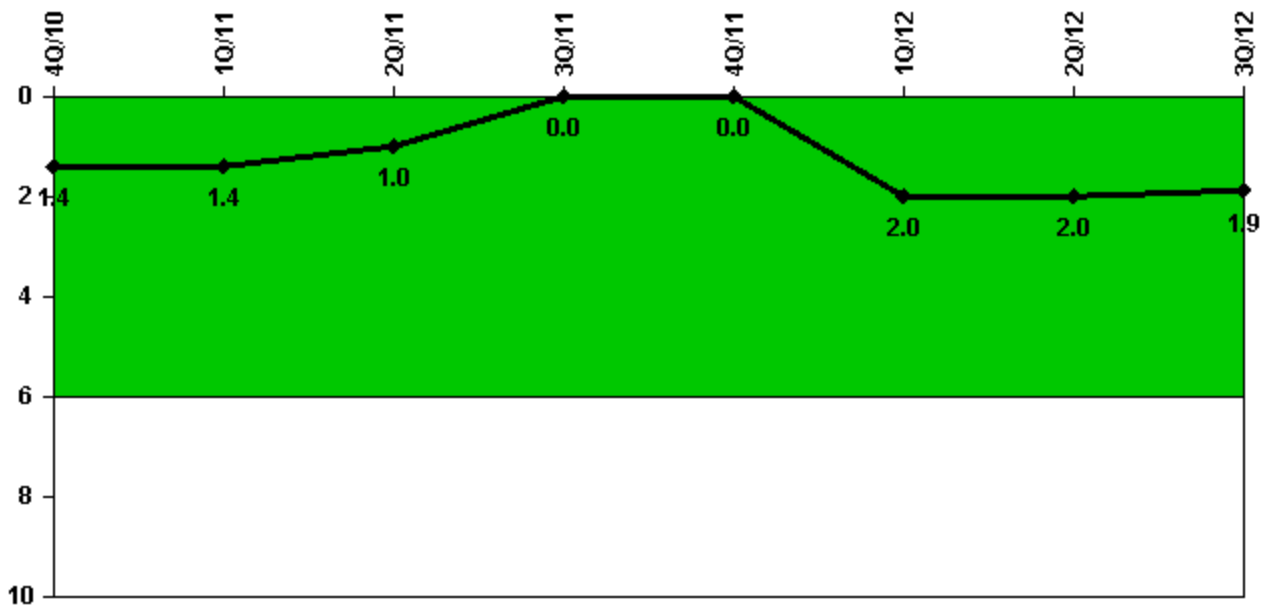
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

**Notes**

Unplanned Scrams per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned scrams	1.0	0	0	1.0	0	1.0	0	0
Critical hours	1230.7	2159.0	2184.0	2143.2	2209.0	622.9	2184.0	2208.0
<b>Indicator value</b>	<b>4.2</b>	<b>2.8</b>	<b>1.9</b>	<b>1.8</b>	<b>0.8</b>	<b>2.0</b>	<b>2.0</b>	<b>1.0</b>

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



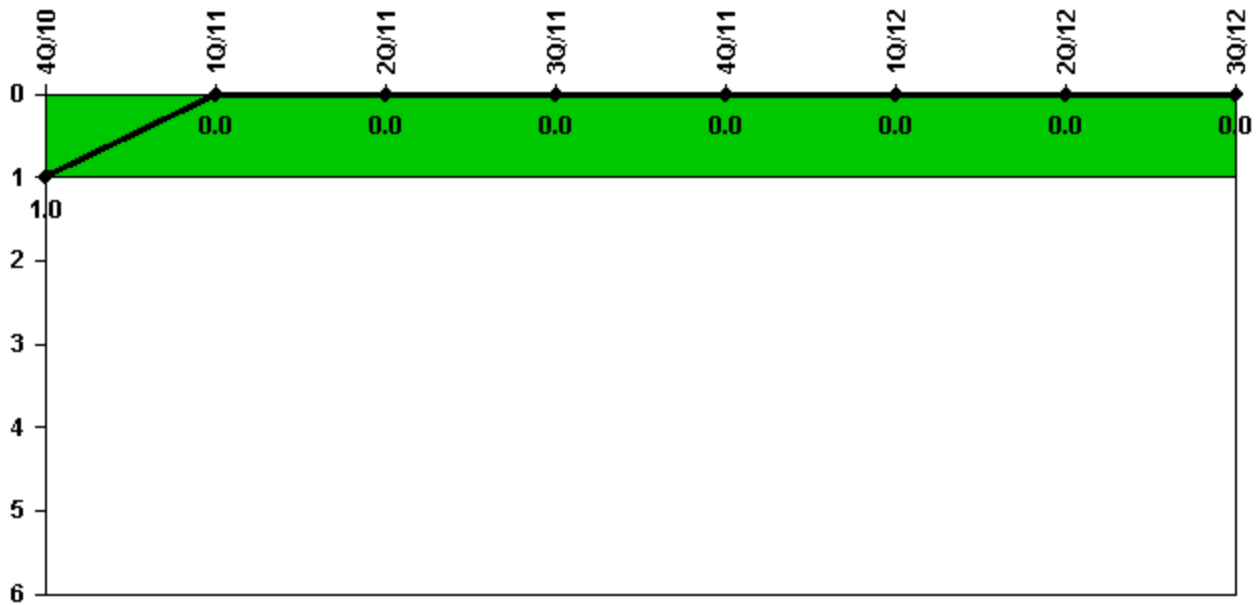
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	0	0	0	0	0	2.0	0	0
Critical hours	1230.7	2159.0	2184.0	2143.2	2209.0	622.9	2184.0	2208.0
<b>Indicator value</b>	<b>1.4</b>	<b>1.4</b>	<b>1.0</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>2.0</b>	<b>1.9</b>

Licensee Comments: none

### Unplanned Scrams with Complications



Thresholds: White > 1.0

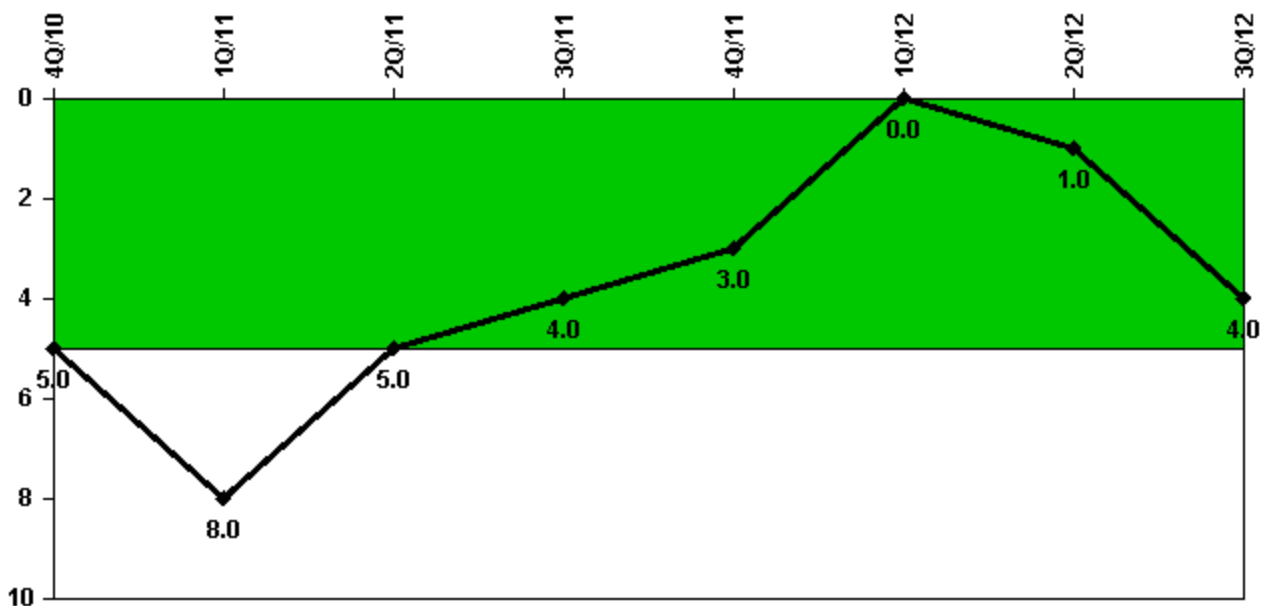
#### Notes

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

Licensee Comments:

4Q/10: FAQ 11-03 was submitted.

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

#### Notes

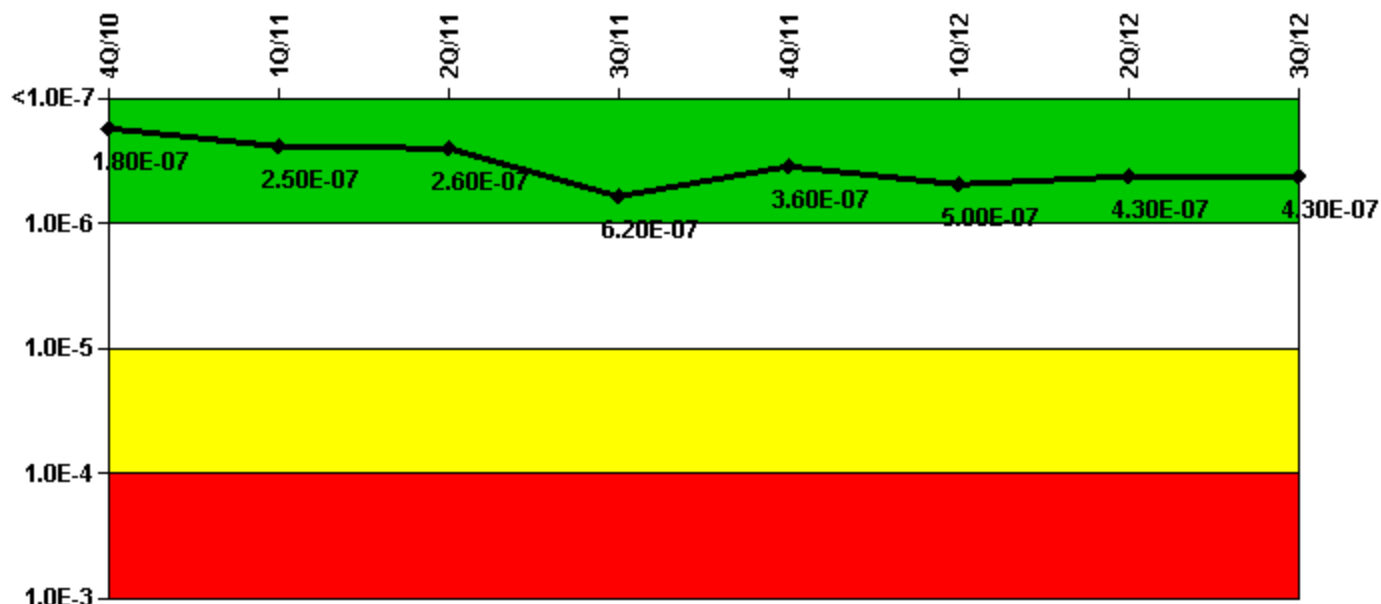
Safety System Functional Failures (PWR)	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Safety System Functional Failures	1	3	0	0	0	0	1	3
<b>Indicator value</b>	<b>5</b>	<b>8</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>4</b>

Licensee Comments:

2Q/12: Refueling Water Storage Tank Ailgned to Non-seismic Purification Loop. LER 2012-002

4Q/10: LER 2010-009-00, "Reactor Trip due to Motor Fault on the 'C' Reactor Coolant Pump, and Actuation of Auxiliary Feedwater Signal and Override of Feedwater Isolation Function due to Inadequate Post-trip Procedure Guidance."

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



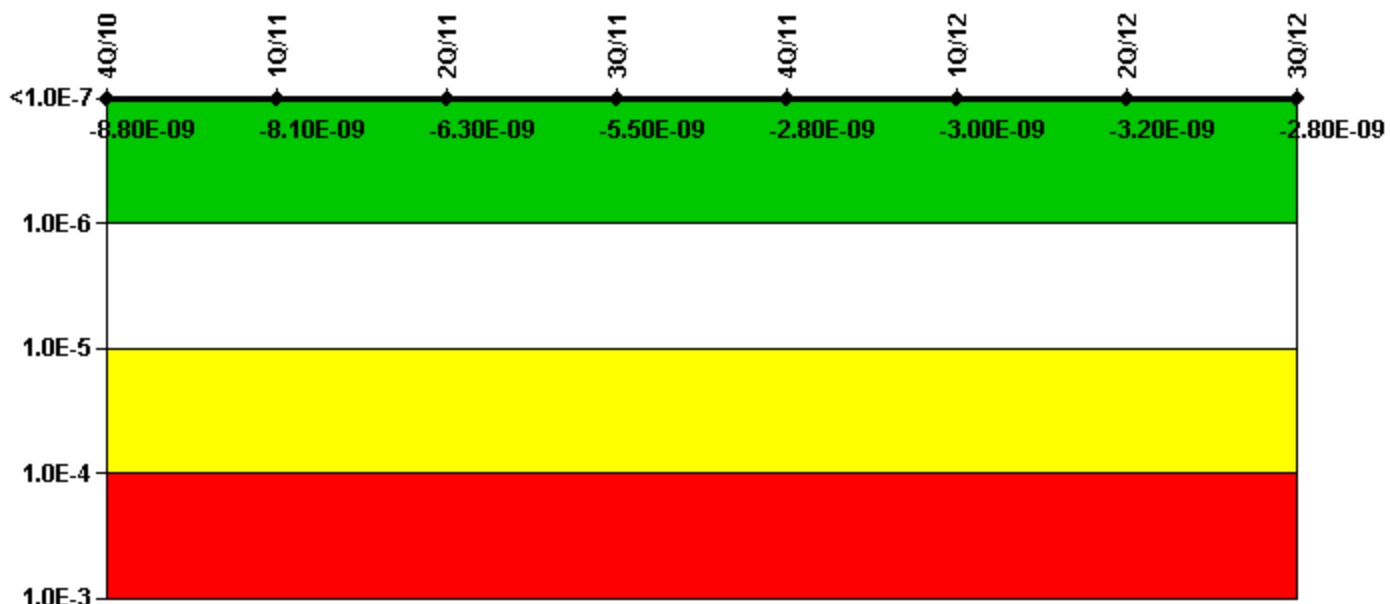
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	9.86E-08	1.66E-07	1.79E-07	1.41E-07	8.85E-08	8.37E-08	1.08E-07	1.02E-07
URI (ΔCDF)	8.47E-08	8.47E-08	8.47E-08	4.81E-07	2.69E-07	4.18E-07	3.20E-07	3.29E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.80E-07	2.50E-07	2.60E-07	6.20E-07	3.60E-07	5.00E-07	4.30E-07	4.30E-07

Licensee Comments: none

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



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

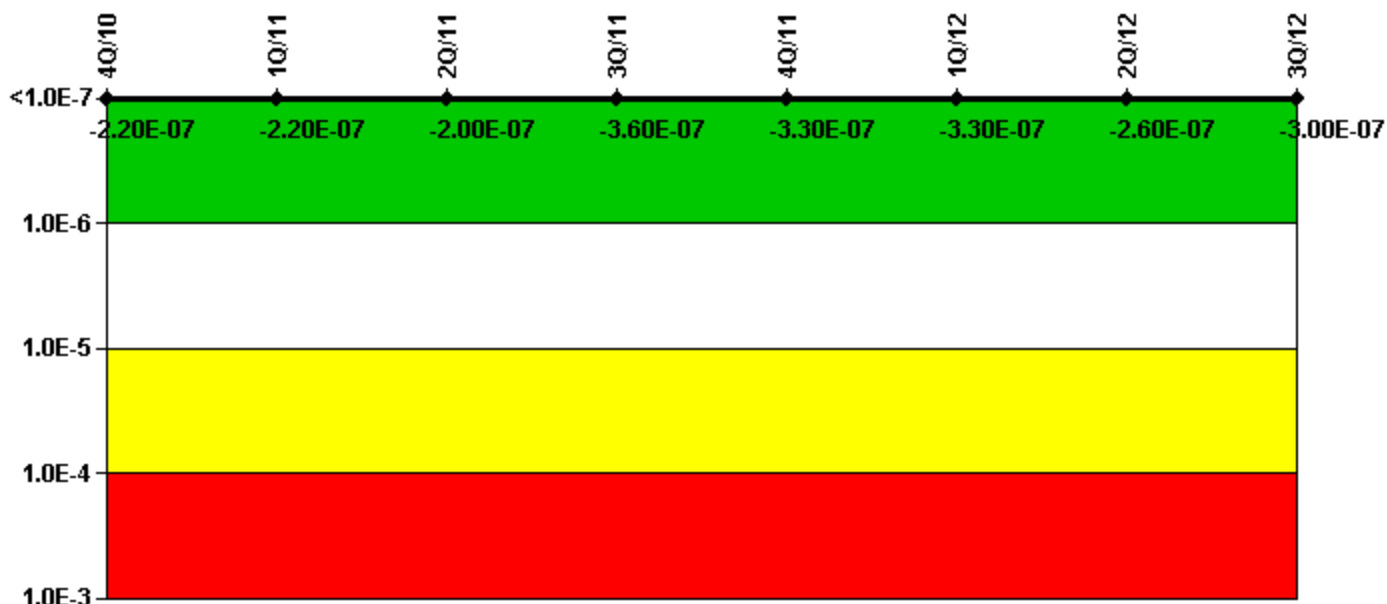
#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI ( $\Delta$ CDF)	-1.03E-09	-2.83E-10	1.53E-09	2.29E-09	2.32E-09	2.12E-09	2.00E-09	2.33E-09
URI ( $\Delta$ CDF)	-7.80E-09	-7.80E-09	-7.80E-09	-7.80E-09	-5.16E-09	-5.16E-09	-5.16E-09	-5.16E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.80E-09	-8.10E-09	-6.30E-09	-5.50E-09	-2.80E-09	-3.00E-09	-3.20E-09	-2.80E-09

Licensee Comments:

4Q/10: Changed PRA Parameter(s).

### Mitigating Systems Performance Index, Heat Removal System



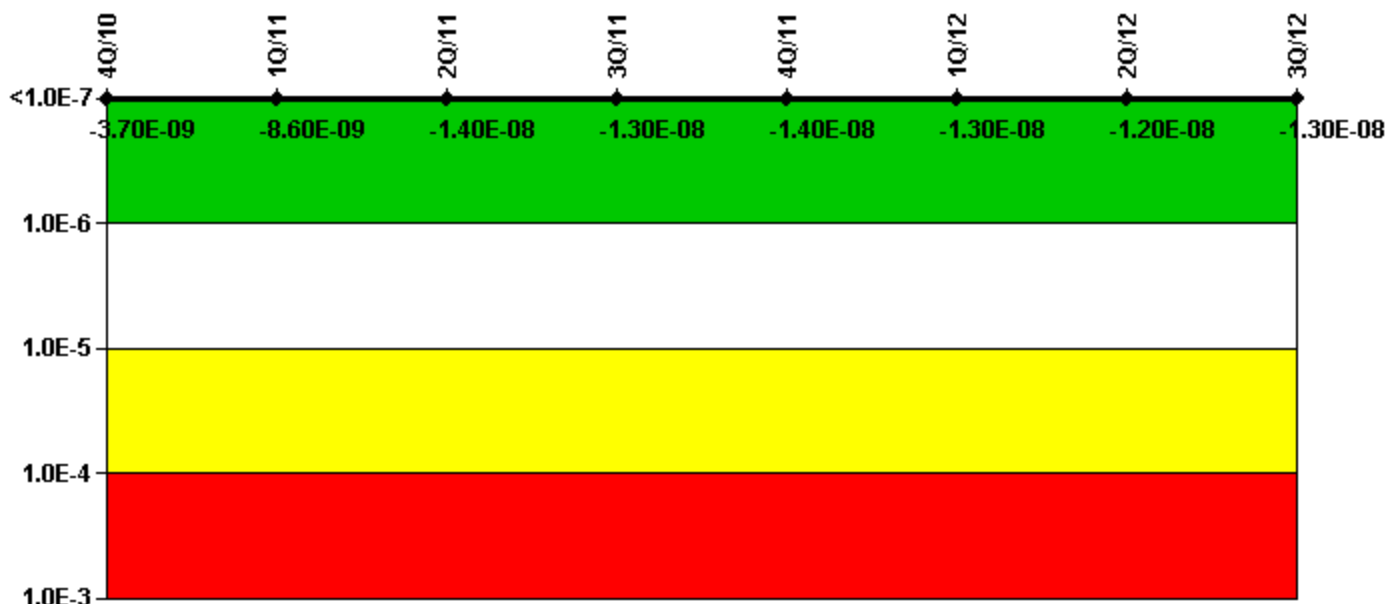
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI ( $\Delta$ CDF)	-3.10E-08	-2.97E-08	-1.40E-08	-2.33E-08	-5.51E-09	-8.10E-09	7.04E-08	2.89E-08
URI ( $\Delta$ CDF)	-1.89E-07	-1.89E-07	-1.89E-07	-3.32E-07	-3.23E-07	-3.25E-07	-3.25E-07	-3.25E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-07	-2.20E-07	-2.00E-07	-3.60E-07	-3.30E-07	-3.30E-07	-2.60E-07	-3.00E-07

Licensee Comments: none

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



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

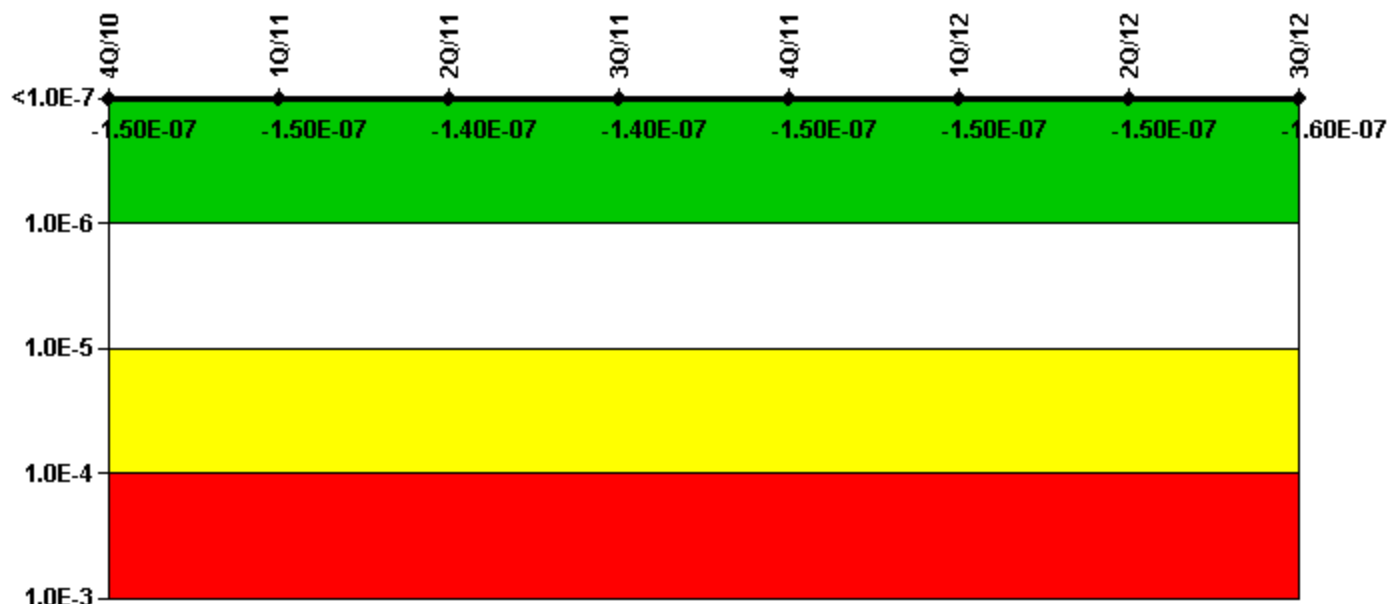
#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	1.49E-08	9.99E-09	4.18E-09	5.07E-09	5.02E-09	5.85E-09	6.19E-09	5.69E-09
URI (ΔCDF)	-1.85E-08	-1.85E-08	-1.85E-08	-1.85E-08	-1.86E-08	-1.86E-08	-1.86E-08	-1.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.70E-09	-8.60E-09	-1.40E-08	-1.30E-08	-1.40E-08	-1.30E-08	-1.20E-08	-1.30E-08

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



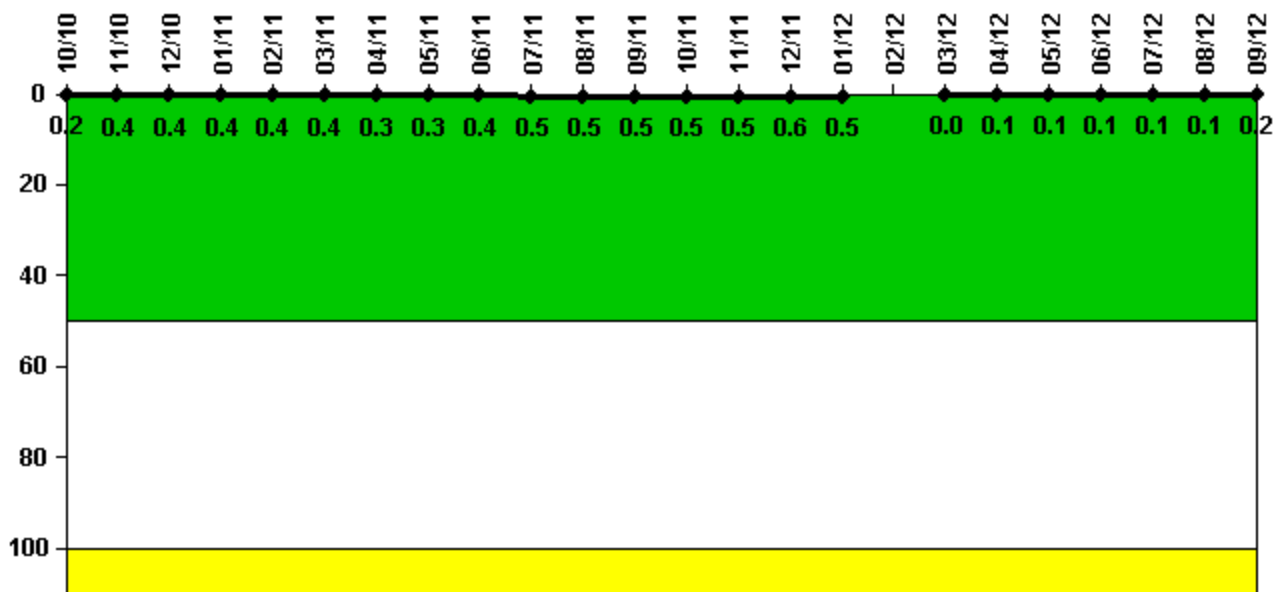
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI ( $\Delta$ CDF)	3.26E-08	3.77E-08	4.44E-08	4.42E-08	3.29E-08	3.29E-08	2.87E-08	2.33E-08
URI ( $\Delta$ CDF)	-1.84E-07	-1.84E-07	-1.84E-07	-1.84E-07	-1.82E-07	-1.82E-07	-1.82E-07	-1.82E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-07	-1.50E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.60E-07

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

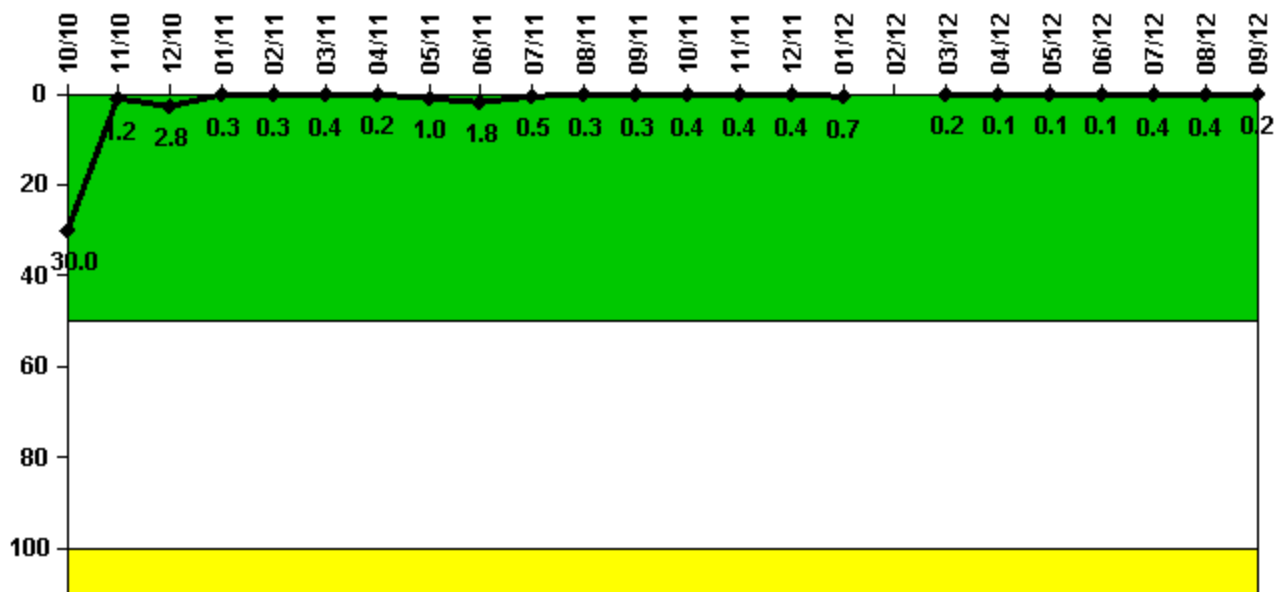
Reactor Coolant System Activity	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum activity	0.000610	0.000904	0.000981	0.000970	0.001024	0.000967	0.000771	0.000809	0.001113	0.001231	0.001181	0.001202
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	0.2	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5

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	0.001250	0.001262	0.001422	0.001257	N/A	0.000109	0.000328	0.000329	0.000343	0.000366	0.000373	0.000375
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	0.5	0.5	0.6	0.5	N/A	0	0.1	0.1	0.1	0.1	0.1	0.2

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

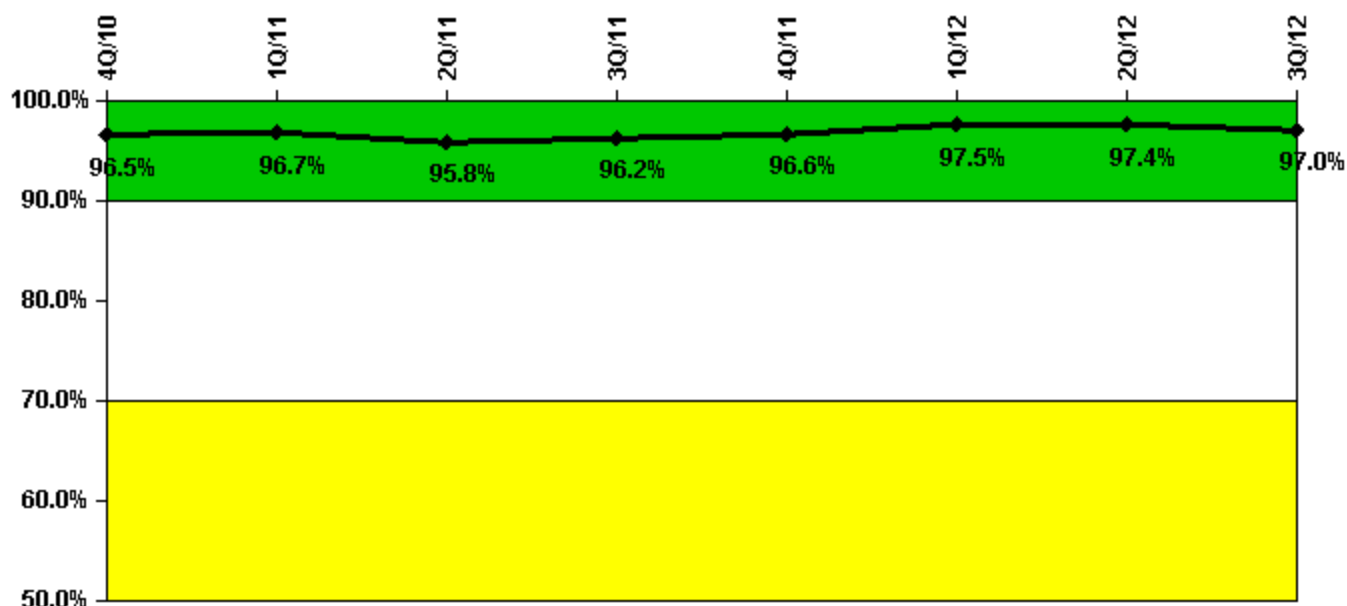
Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	3.000	0.120	0.280	0.030	0.030	0.040	0.020	0.101	0.180	0.050	0.030	0.030
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
<b>Indicator value</b>	<b>30.0</b>	<b>1.2</b>	<b>2.8</b>	<b>0.3</b>	<b>0.3</b>	<b>0.4</b>	<b>0.2</b>	<b>1.0</b>	<b>1.8</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>

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	0.040	0.040	0.040	0.070	N/A	0.020	0.010	0.010	0.010	0.040	0.040	0.020
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>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.7</b>	<b>N/A</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.4</b>	<b>0.4</b>	<b>0.2</b>

Licensee Comments: none

### Drill/Exercise Performance



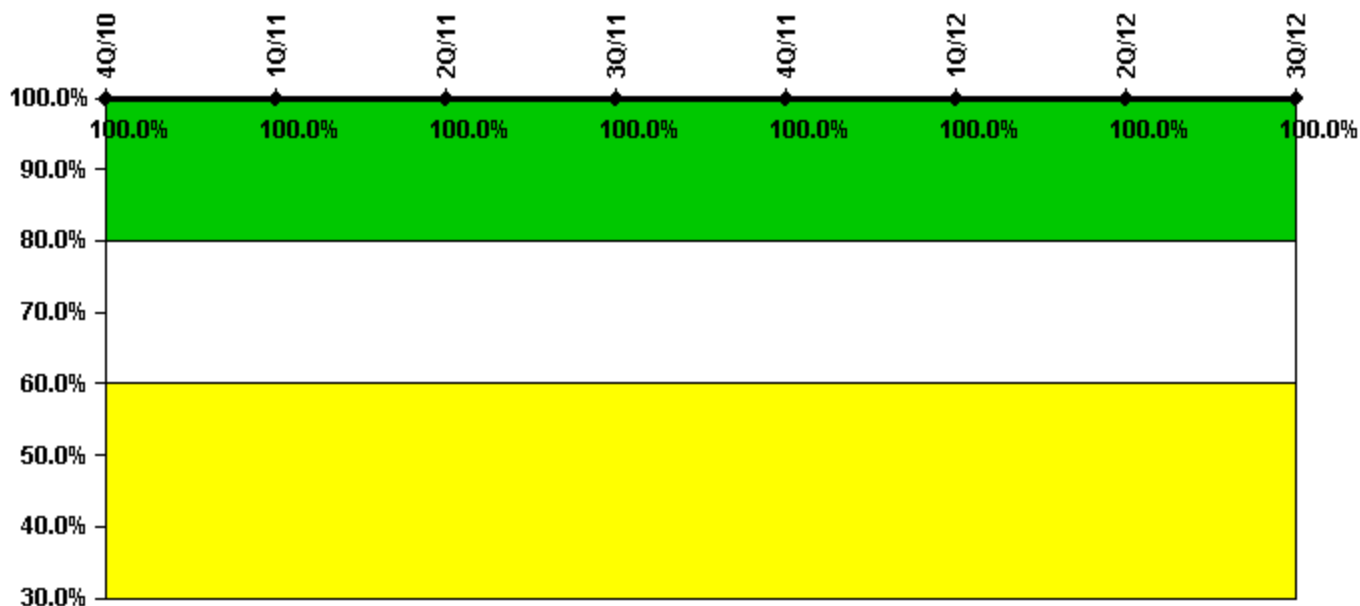
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	23.0	42.0	26.0	24.0	20.0	5.0	34.0	55.0
Total opportunities	24.0	43.0	28.0	24.0	20.0	5.0	35.0	57.0
Indicator value	96.5%	96.7%	95.8%	96.2%	96.6%	97.5%	97.4%	97.0%

Licensee Comments: none

### ERO Drill Participation



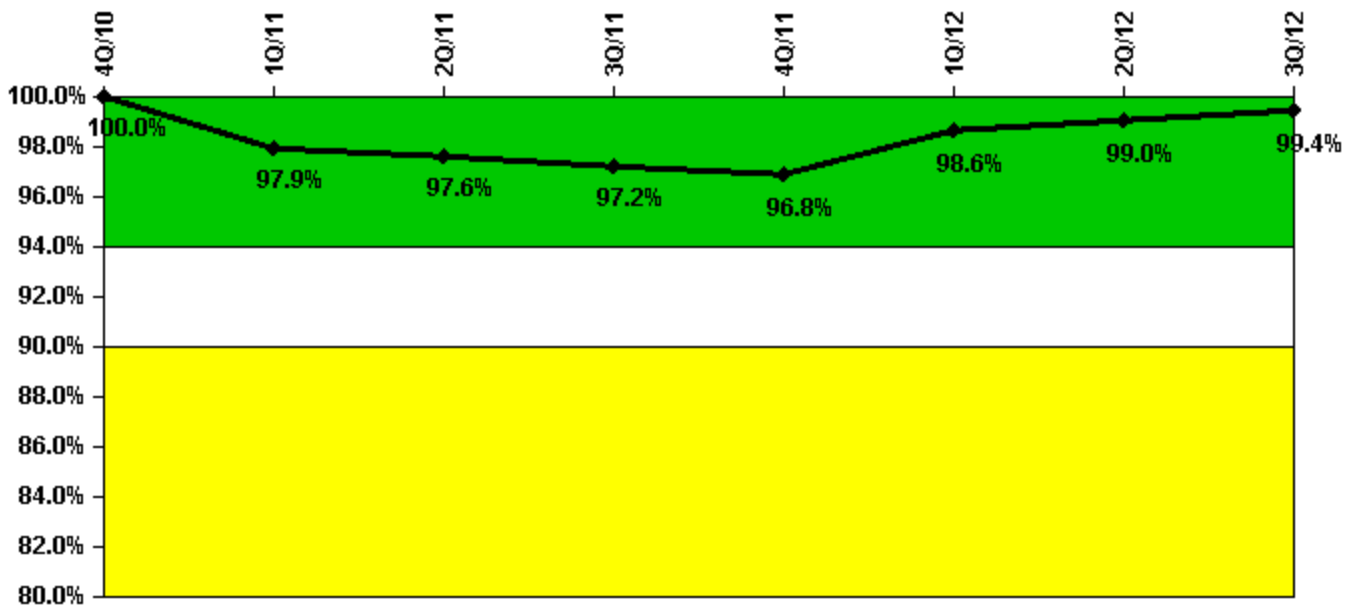
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Participating Key personnel	43.0	44.0	50.0	52.0	48.0	46.0	50.0	53.0
Total Key personnel	43.0	44.0	50.0	52.0	48.0	46.0	50.0	53.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



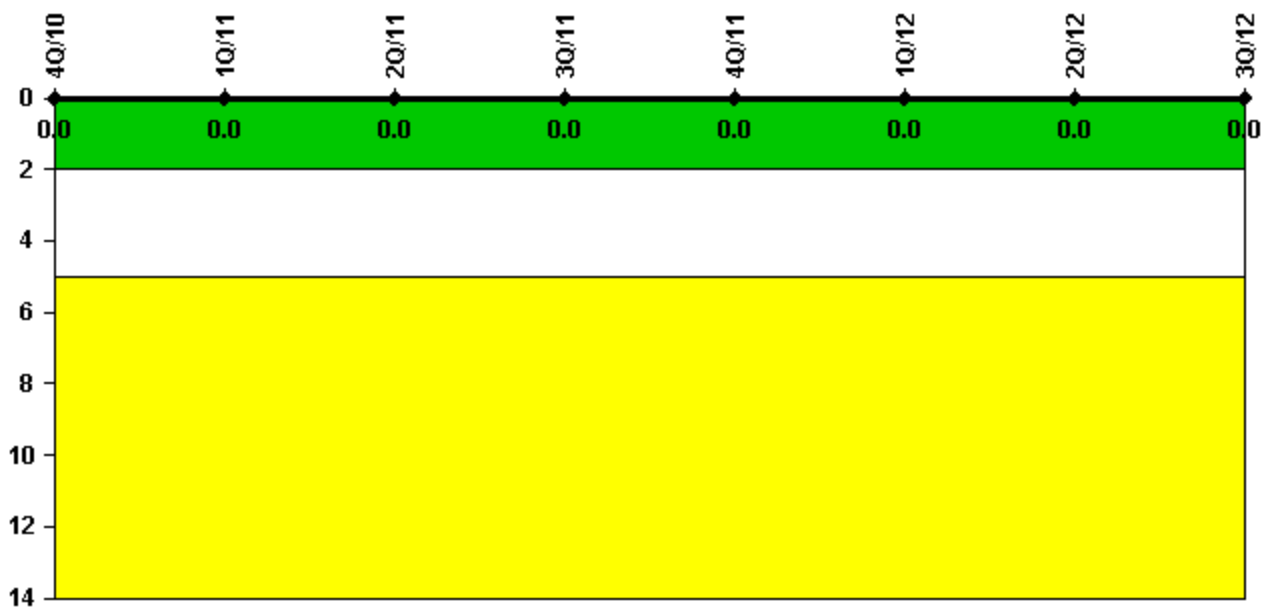
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	767	762	813	812	867	825	826	826
Total sirens-tests	767	826	826	826	885	826	826	826
Indicator value	100.0%	97.9%	97.6%	97.2%	96.8%	98.6%	99.0%	99.4%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



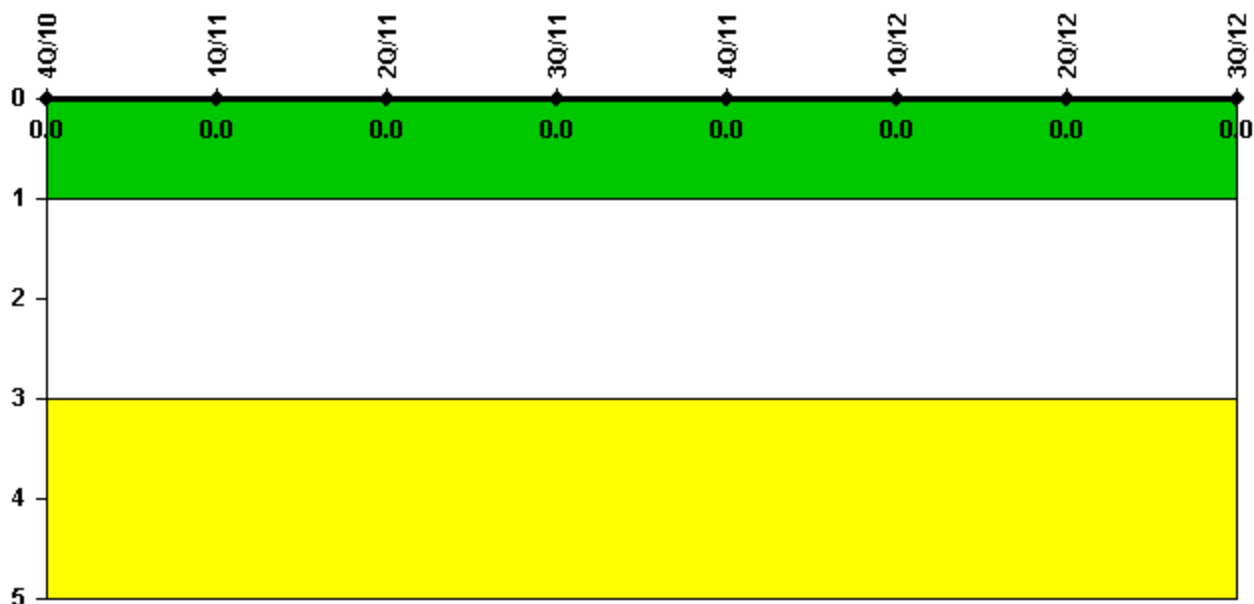
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

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

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 24, 2012*