

# Seabrook 1

## 3Q/2011 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

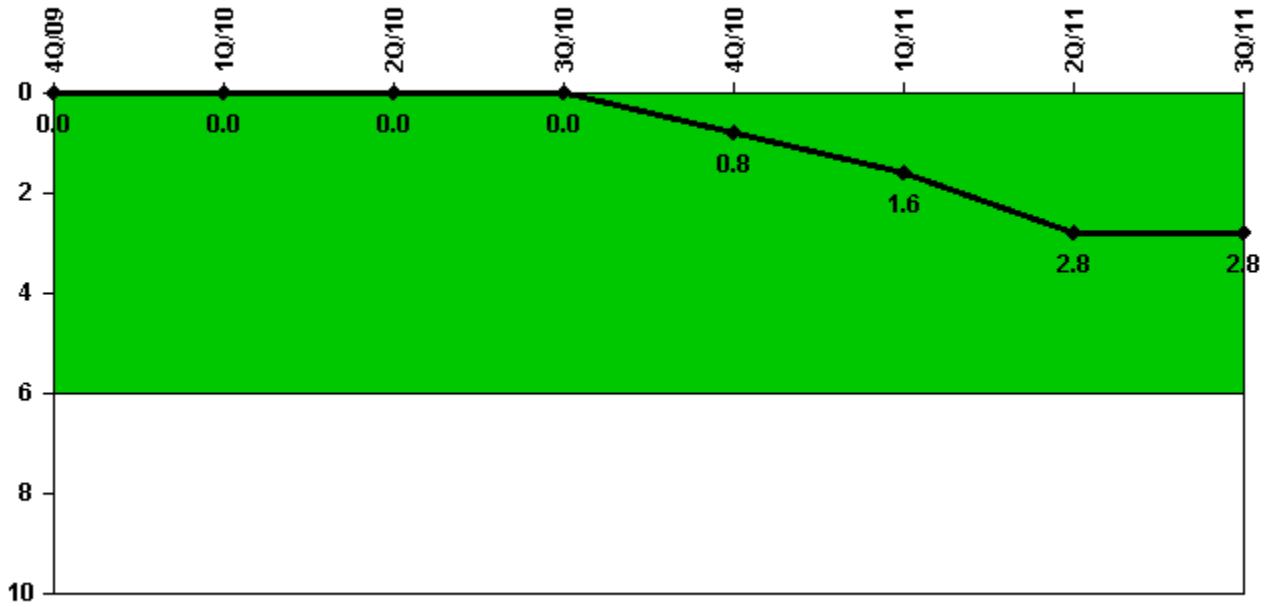
### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1028.9	2159.0	2184.0	2208.0	2209.0	2159.0	934.4	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	0	0	0	0	1.0	1.0	1.0	0
Critical hours	1028.9	2159.0	2184.0	2208.0	2209.0	2159.0	934.4	2208.0
Indicator value	0	0	0	0	0.8	1.6	2.8	2.8

Licensee Comments: none

# Unplanned Scrams with Complications



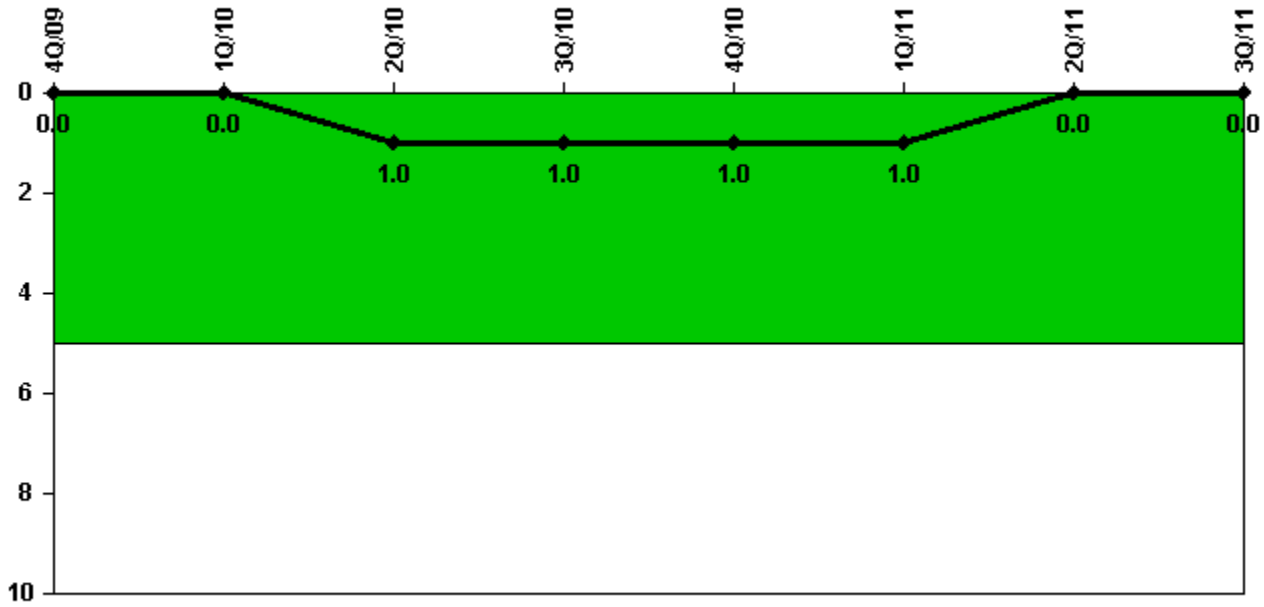
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
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 (PWR)



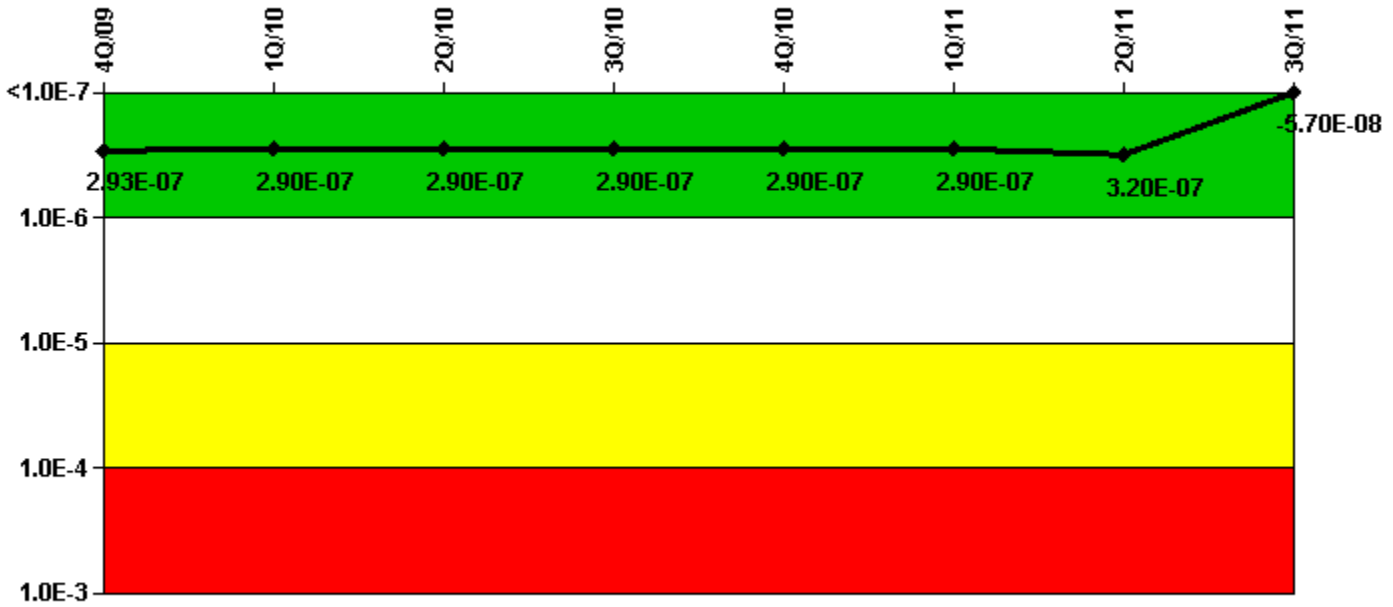
Thresholds: White > 5.0

### Notes

Safety System Functional Failures (PWR)	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Safety System Functional Failures	0	0	1	0	0	0	0	0
Indicator value	0	0	1	1	1	1	0	0

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



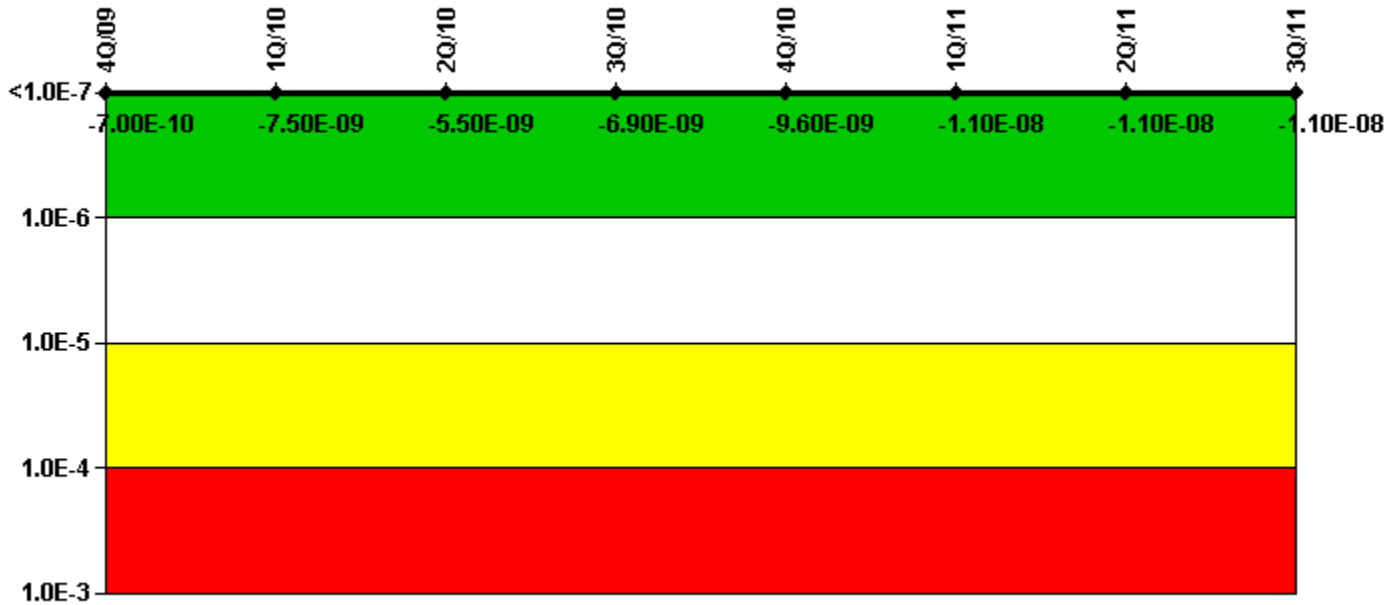
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	2.90E-09	2.89E-09	2.89E-09	2.89E-09	2.89E-09	2.47E-09	3.11E-09	-3.28E-09
URI ( $\Delta$ CDF)	2.90E-07	2.86E-07	2.87E-07	2.88E-07	2.87E-07	2.90E-07	3.21E-07	-5.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.93E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	3.20E-07	-5.70E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



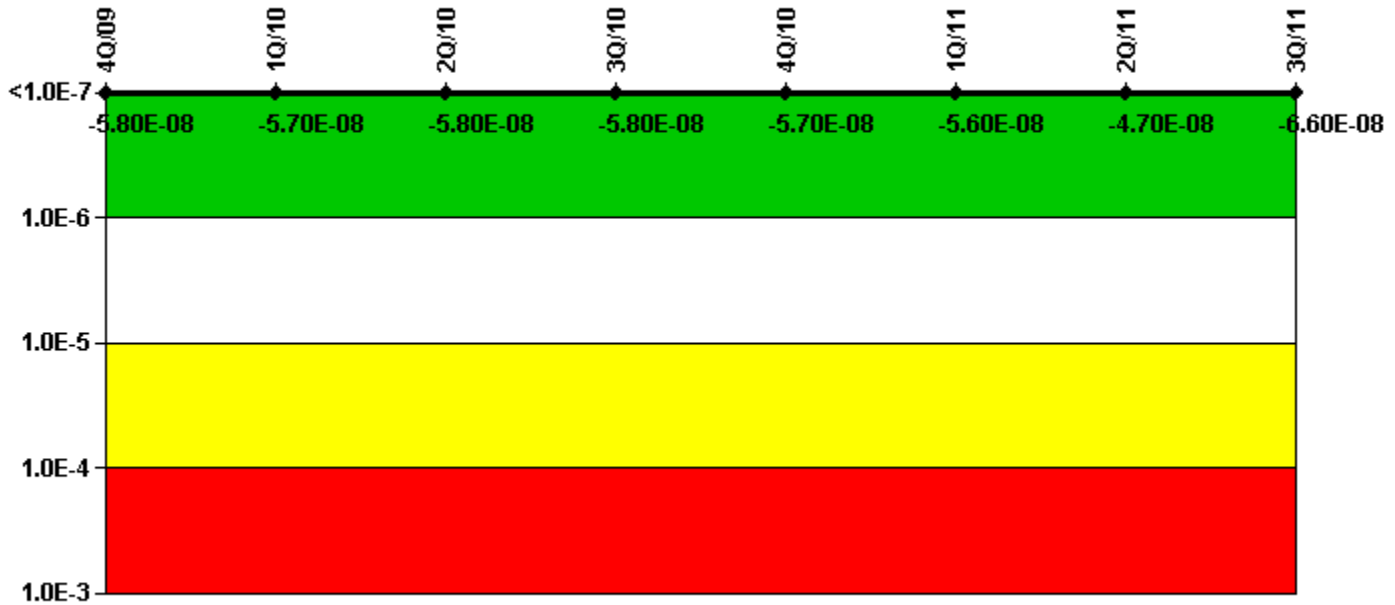
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	3.20E-09	-3.59E-09	-1.63E-09	-2.99E-09	-5.70E-09	-6.68E-09	-6.91E-09	-7.10E-09
URI ( $\Delta$ CDF)	-3.90E-09	-3.90E-09	-3.87E-09	-3.87E-09	-3.87E-09	-3.84E-09	-4.15E-09	-4.14E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.00E-10	-7.50E-09	-5.50E-09	-6.90E-09	-9.60E-09	-1.10E-08	-1.10E-08	-1.10E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



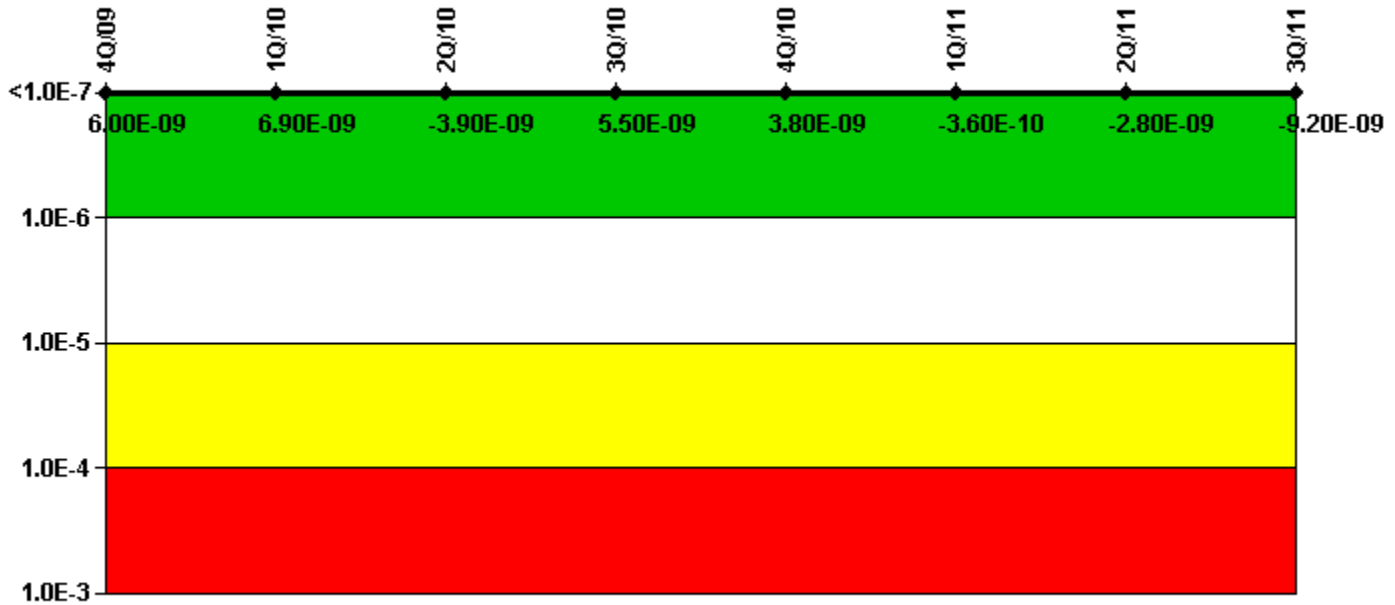
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	-1.10E-08	-1.01E-08	-1.12E-08	-1.11E-08	-1.06E-08	-1.05E-08	-3.73E-09	-2.24E-08
URI ( $\Delta$ CDF)	-4.70E-08	-4.71E-08	-4.70E-08	-4.70E-08	-4.68E-08	-4.53E-08	-4.33E-08	-4.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.80E-08	-5.70E-08	-5.80E-08	-5.80E-08	-5.70E-08	-5.60E-08	-4.70E-08	-6.60E-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

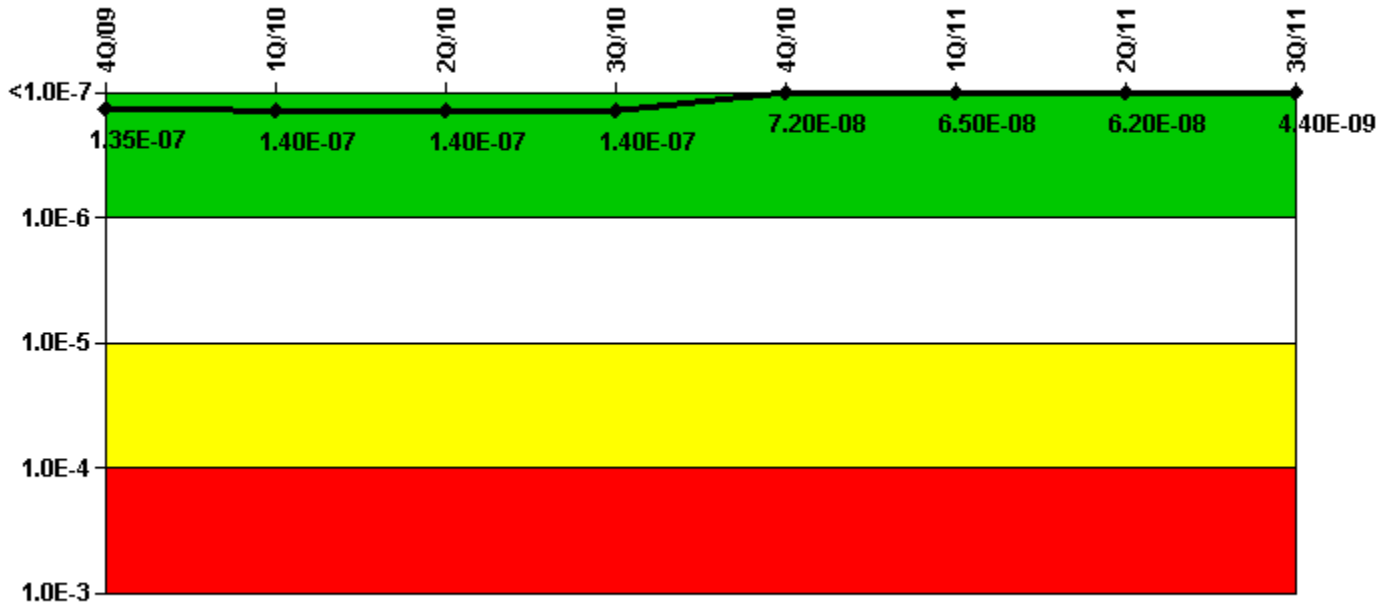
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	3.50E-08	3.61E-08	2.55E-08	3.50E-08	3.35E-08	2.83E-08	2.90E-08	2.27E-08
URI ( $\Delta$ CDF)	-2.90E-08	-2.92E-08	-2.94E-08	-2.96E-08	-2.97E-08	-2.86E-08	-3.17E-08	-3.19E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.00E-09	6.90E-09	-3.90E-09	5.50E-09	3.80E-09	-3.60E-10	-2.80E-09	-9.20E-09

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



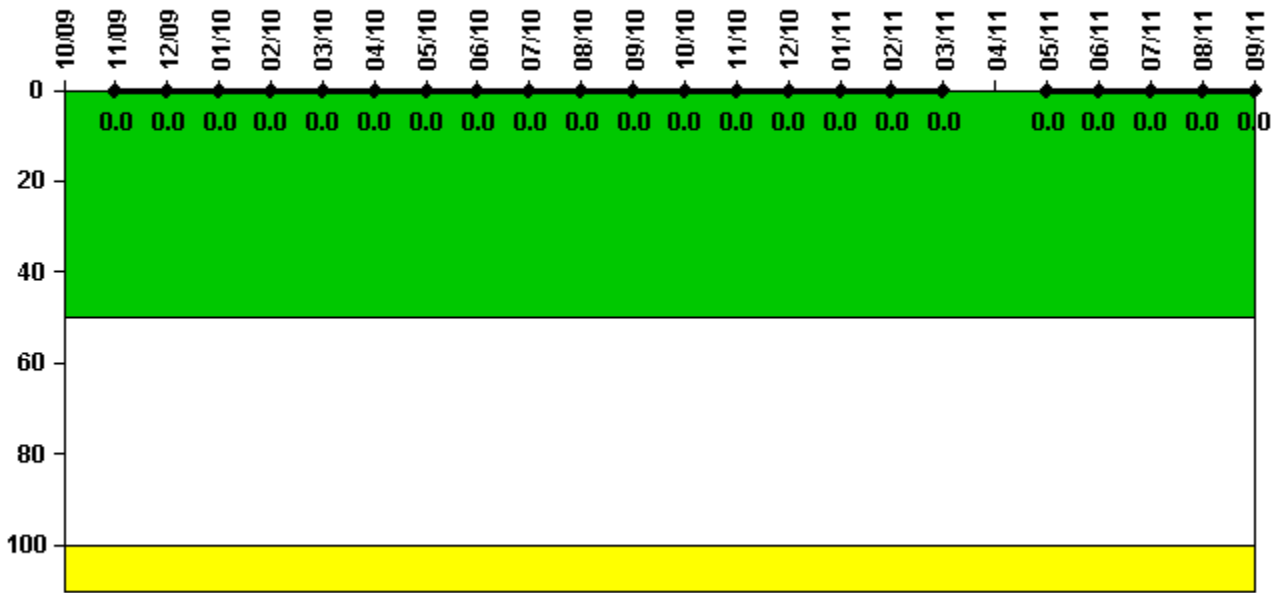
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	5.00E-09	5.46E-09	5.46E-09	5.46E-09	4.23E-10	4.19E-10	4.25E-10	4.25E-10
URI ( $\Delta$ CDF)	1.30E-07	1.31E-07	1.31E-07	1.31E-07	7.13E-08	6.48E-08	6.17E-08	3.95E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.35E-07	1.40E-07	1.40E-07	1.40E-07	7.20E-08	6.50E-08	6.20E-08	4.40E-09

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

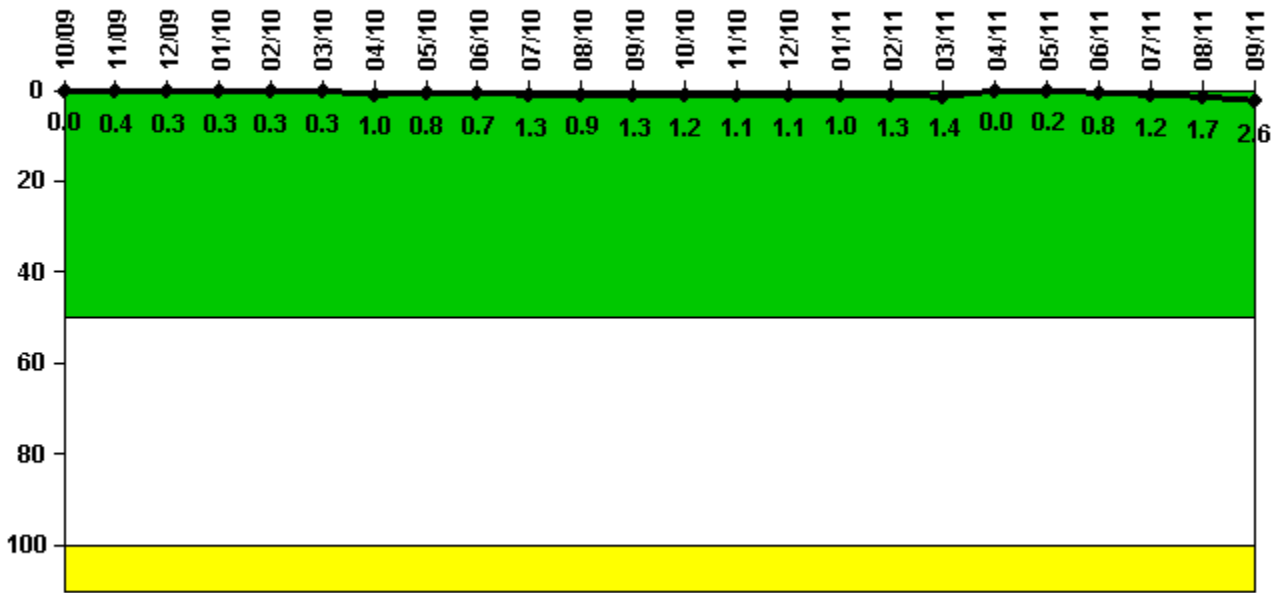
Reactor Coolant System Activity	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum activity	N/A	0.000023	0.000054	0.000053	0.000067	0.000068	0.000061	0.000068	0.000072	0.000086	0.000073	0.000082
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	0	0	0	0	0	0	0	0	0	0	0

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	0.000093	0.000096	0.000098	0.000093	0.000097	0.000106	N/A	0.000033	0.000065	0.000054	0.000067	0.000074
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	N/A	0	0	0	0	0

Licensee Comments: none

## Reactor Coolant System Leakage



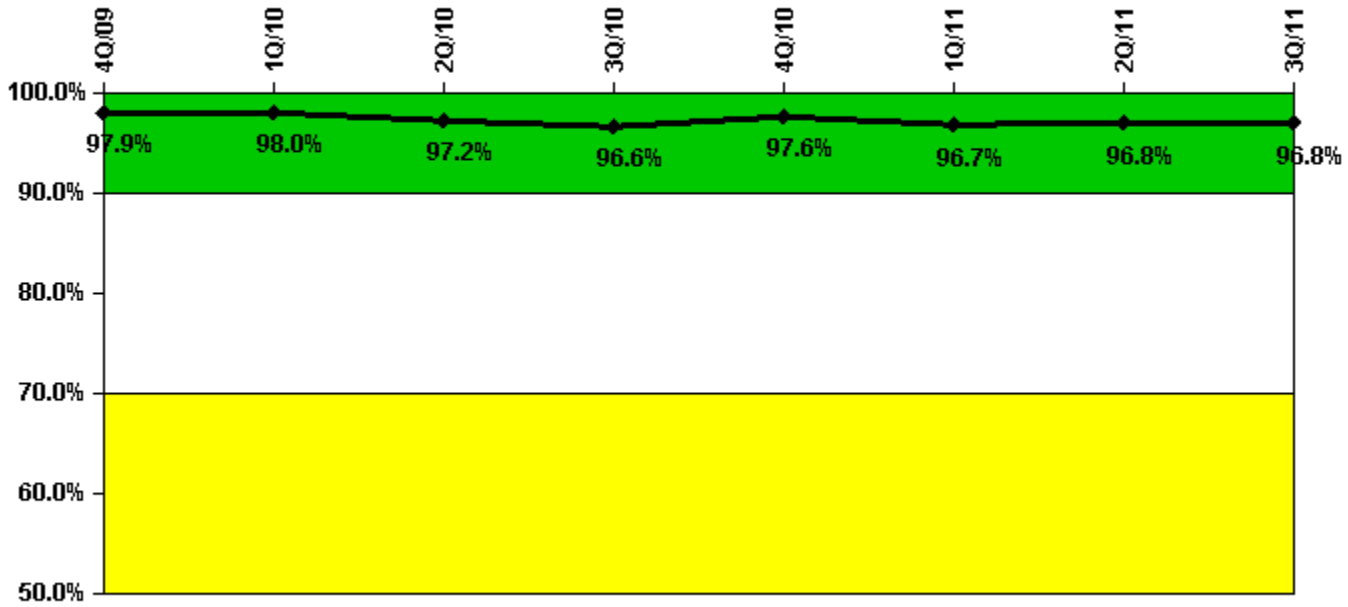
Thresholds: White > 50.0 Yellow > 100.0

### Notes

<b>Reactor Coolant System Leakage</b>	<b>10/09</b>	<b>11/09</b>	<b>12/09</b>	<b>1/10</b>	<b>2/10</b>	<b>3/10</b>	<b>4/10</b>	<b>5/10</b>	<b>6/10</b>	<b>7/10</b>	<b>8/10</b>	<b>9/10</b>
Maximum leakage	0	0.035	0.029	0.028	0.032	0.033	0.104	0.082	0.069	0.127	0.088	0.133
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	0.4	0.3	0.3	0.3	0.3	1.0	0.8	0.7	1.3	0.9	1.3
<b>Reactor Coolant System Leakage</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>	<b>7/11</b>	<b>8/11</b>	<b>9/11</b>
Maximum leakage	0.119	0.107	0.113	0.097	0.133	0.144	0	0.021	0.083	0.124	0.168	0.258
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	1.2	1.1	1.1	1.0	1.3	1.4	0	0.2	0.8	1.2	1.7	2.6

Licensee Comments: none

## Drill/Exercise Performance



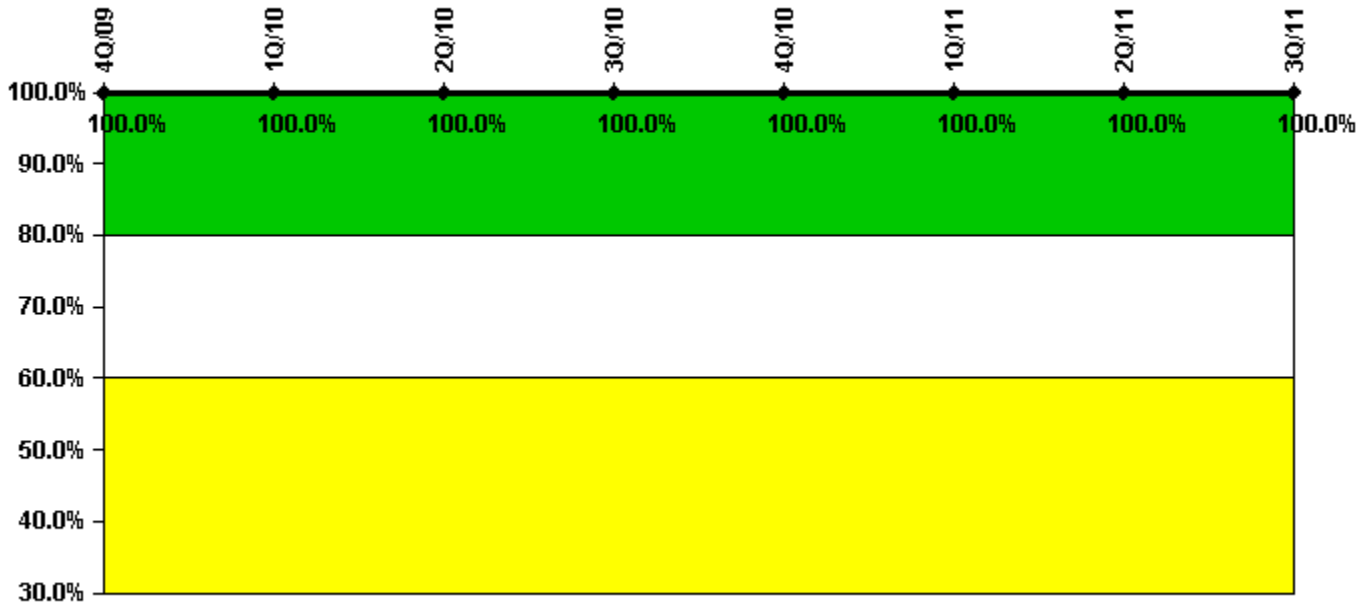
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful opportunities	26.0	28.0	30.0	33.0	21.0	55.0	21.0	26.0
Total opportunities	26.0	28.0	32.0	35.0	21.0	58.0	21.0	27.0
Indicator value	97.9%	98.0%	97.2%	96.6%	97.6%	96.7%	96.8%	96.8%

Licensee Comments: none

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

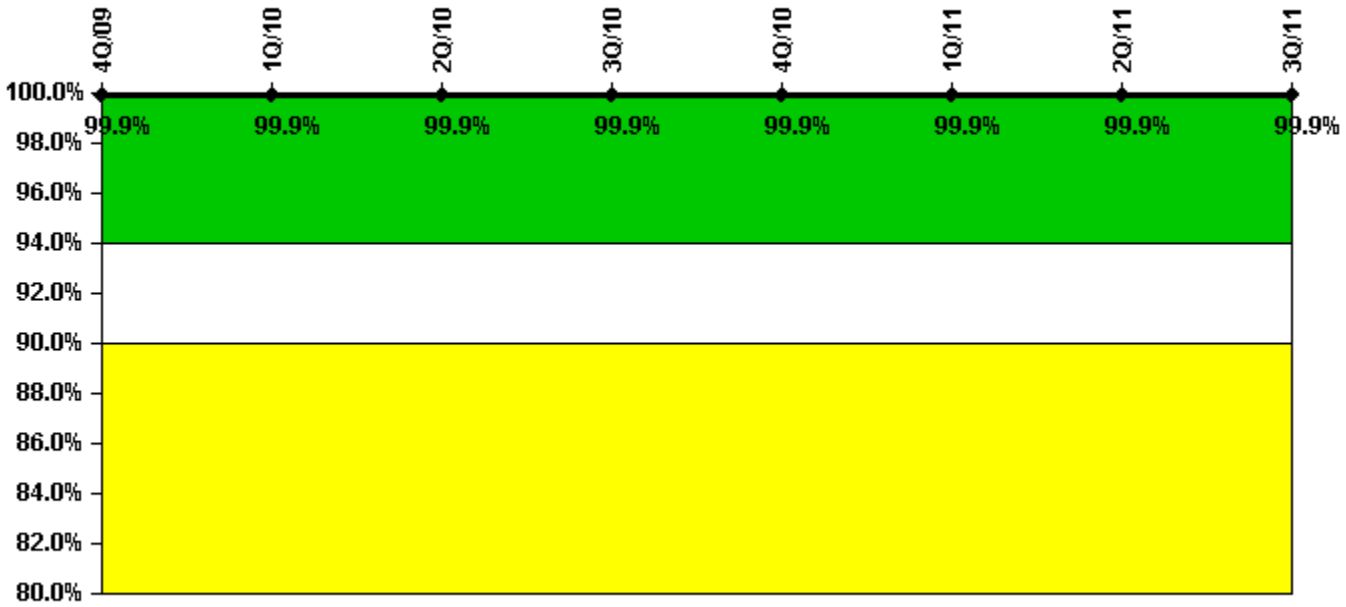
### Notes

ERO Drill Participation	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Participating Key personnel	82.0	84.0	85.0	86.0	85.0	86.0	89.0	89.0
Total Key personnel	82.0	84.0	85.0	86.0	85.0	86.0	89.0	89.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

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# Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	725	846	726	845	726	845	726	847
Total sirens-tests	726	847	726	847	726	847	726	847
Indicator value	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



**Thresholds: White > 2.0 Yellow > 5.0**

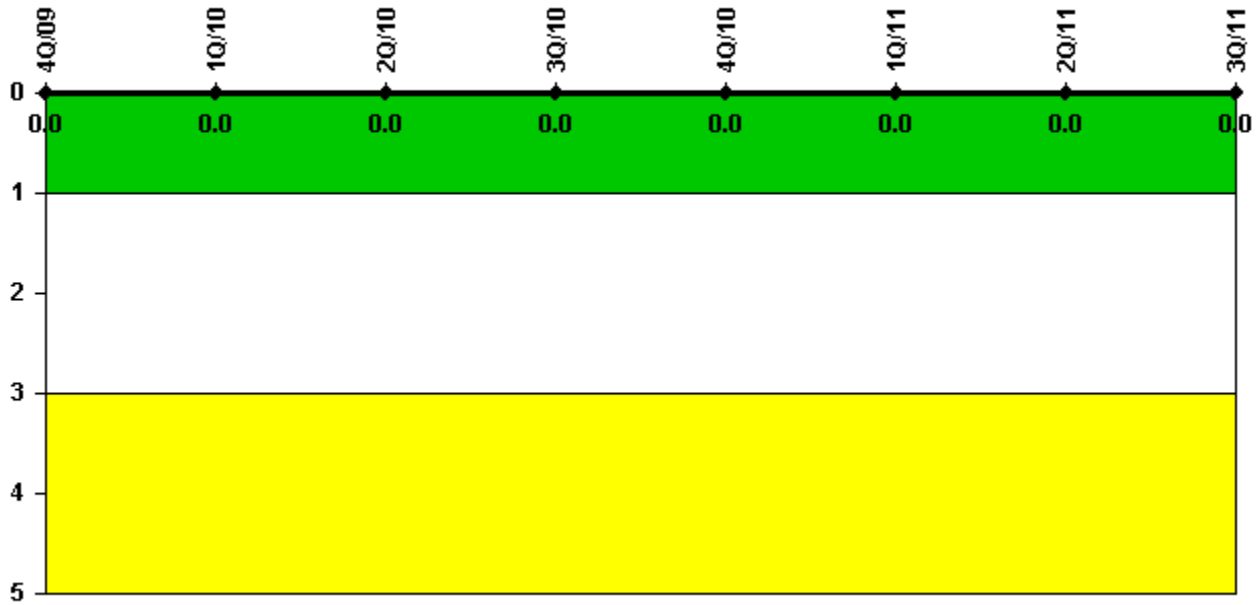
## Notes

Occupational Exposure Control Effectiveness	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
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

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# RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

## Notes

RETS/ODCM Radiological Effluent	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.