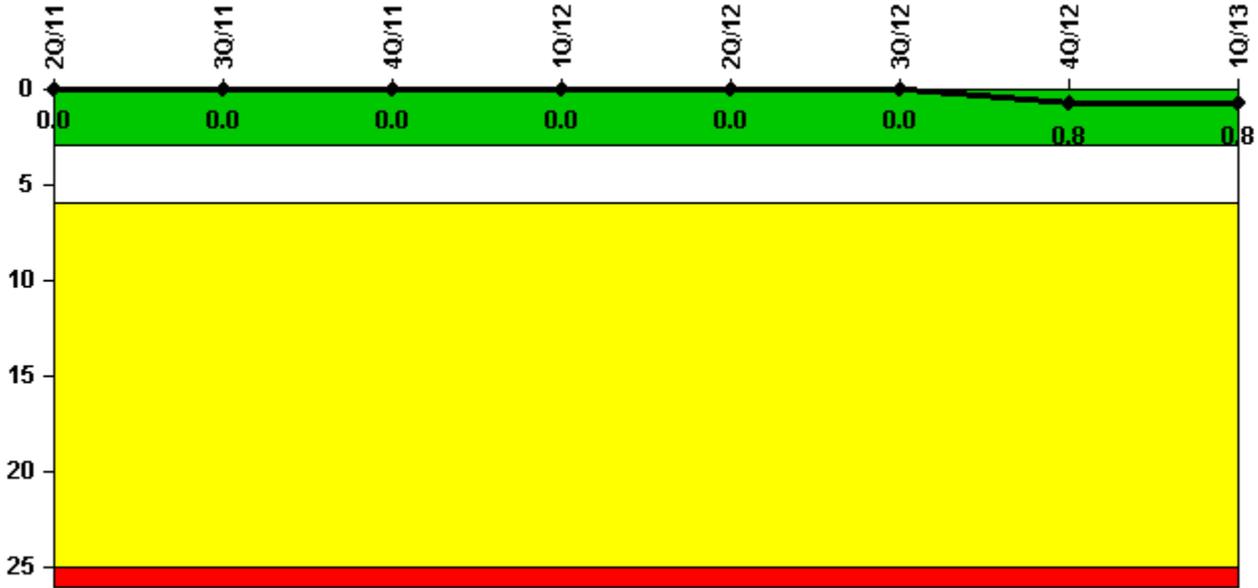


# Comanche Peak 1

## 1Q/2013 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



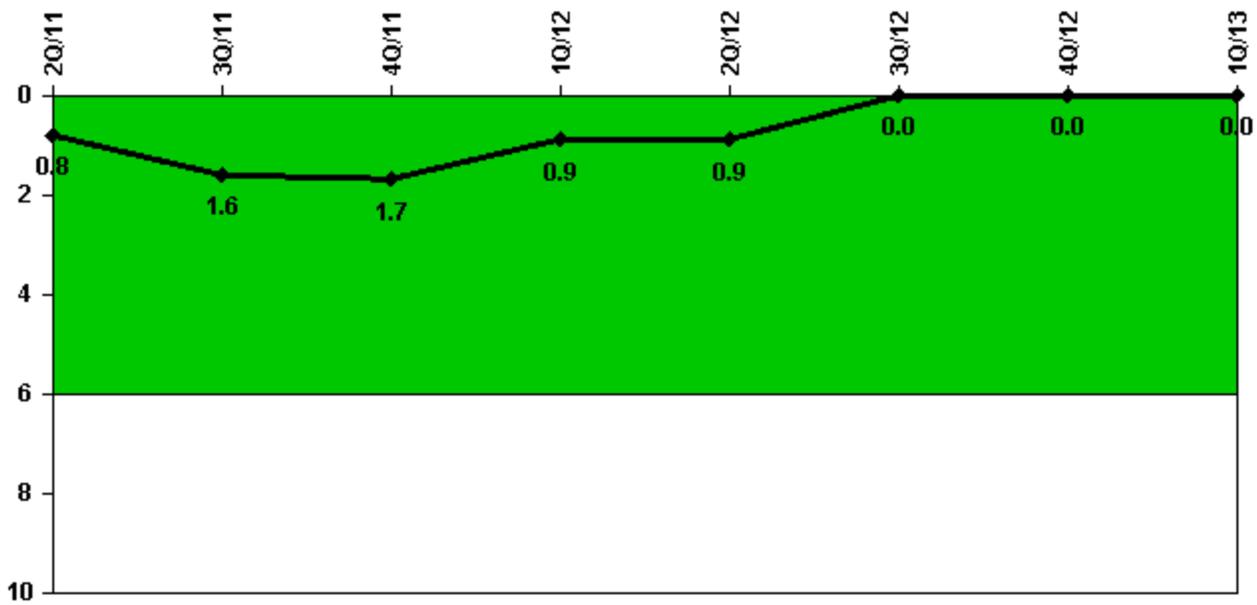
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2184.0	2038.6	1739.0	2183.0	2184.0	2195.7	1987.5	2123.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.8</b>	<b>0.8</b>

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



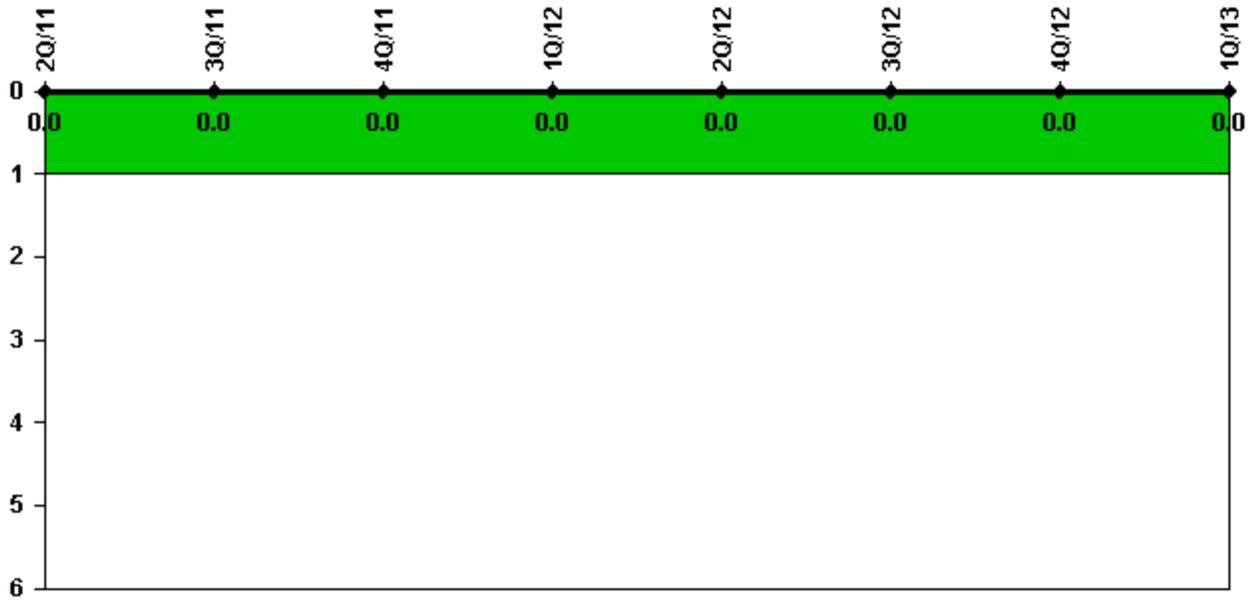
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2184.0	2038.6	1739.0	2183.0	2184.0	2195.7	1987.5	2123.0
<b>Indicator value</b>	<b>0.8</b>	<b>1.6</b>	<b>1.7</b>	<b>0.9</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Unplanned Scrams with Complications



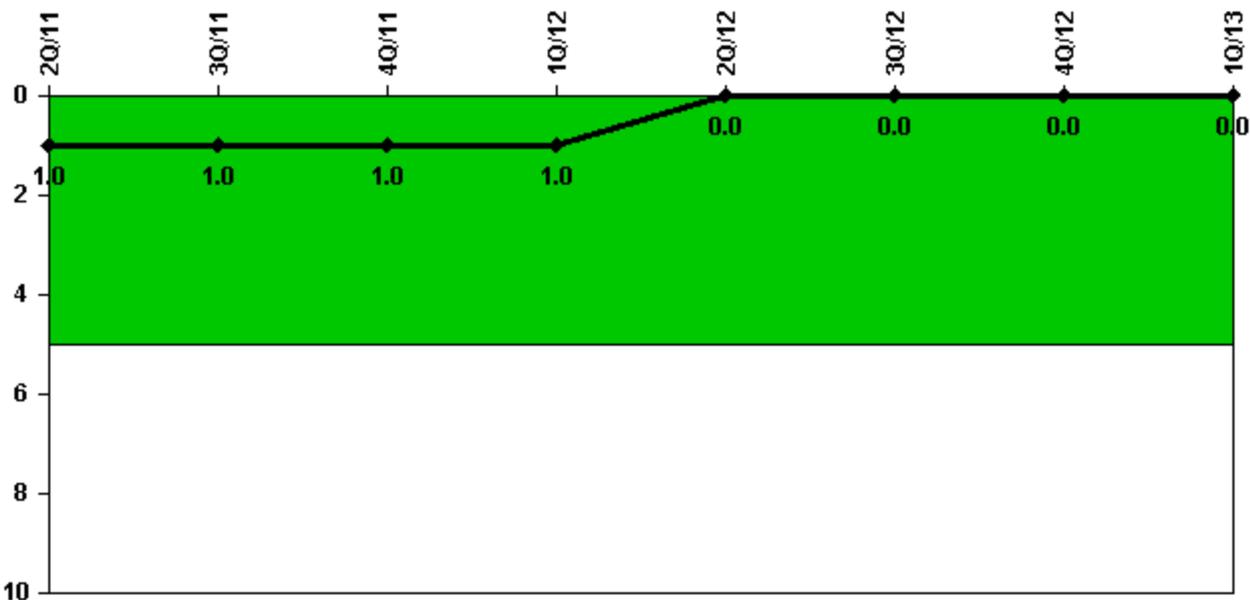
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0.0</b>							

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

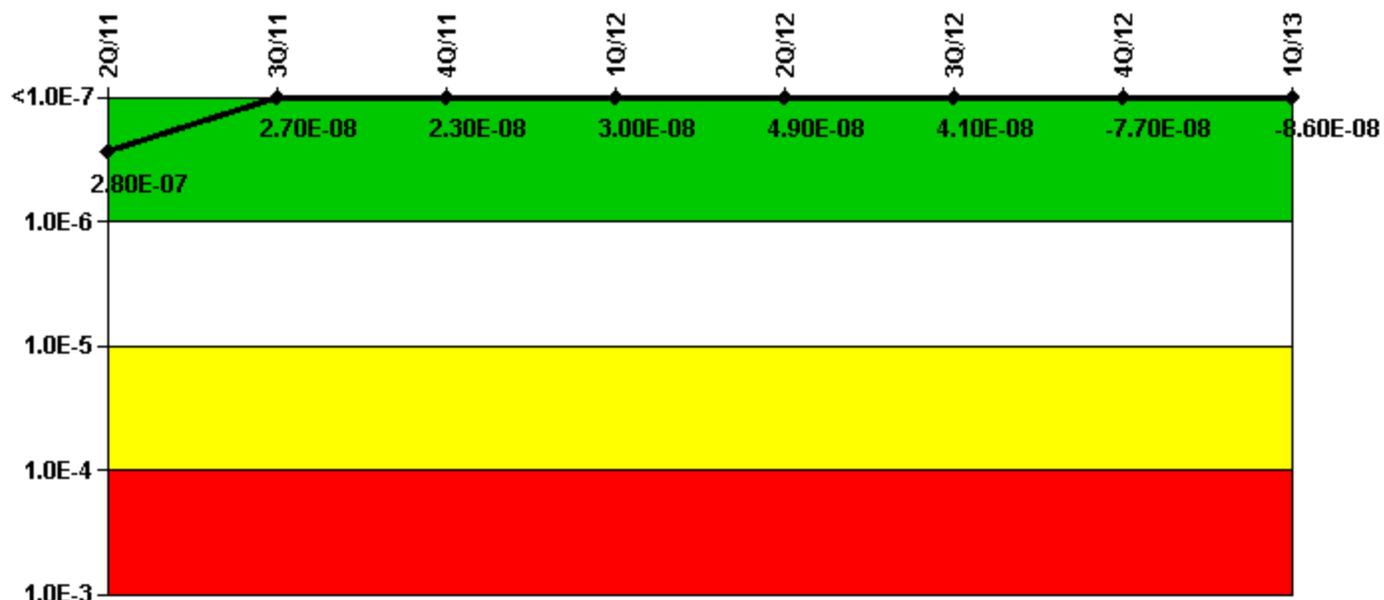
#### Notes

Safety System Functional Failures (PWR)	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	1	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments:

2Q/11: LER 445/11-001-00.

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



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

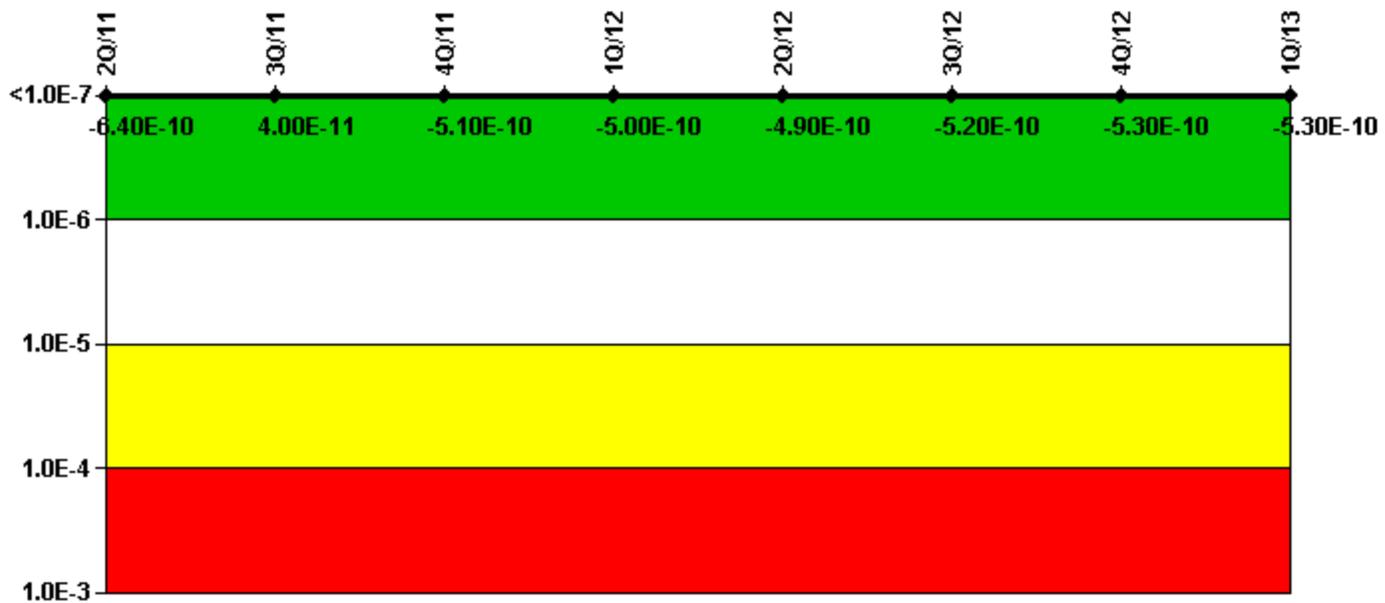
#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI ( $\Delta$ CDF)	-2.37E-08	-1.81E-08	-1.60E-08	-1.46E-08	7.60E-09	-4.40E-09	-2.85E-09	-1.60E-08
URI ( $\Delta$ CDF)	2.99E-07	4.53E-08	3.90E-08	4.45E-08	4.18E-08	4.55E-08	-7.38E-08	-6.95E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.80E-07	2.70E-08	2.30E-08	3.00E-08	4.90E-08	4.10E-08	-7.70E-08	-8.60E-08

Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

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



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

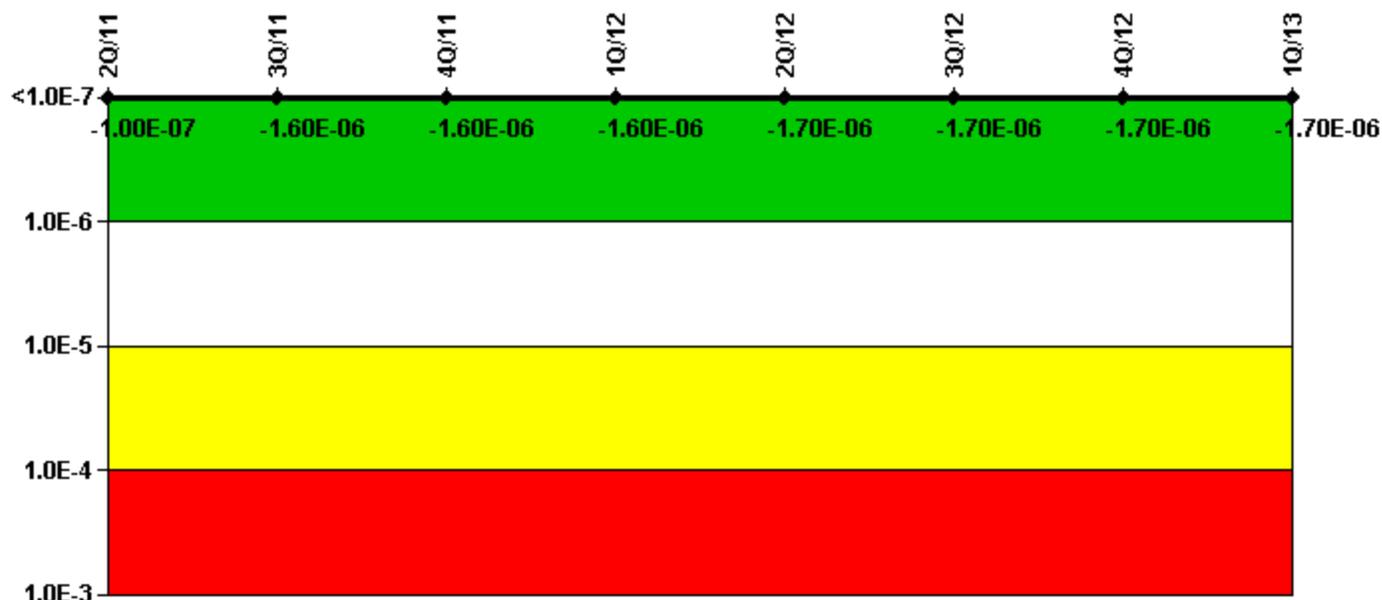
#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI ( $\Delta$ CDF)	-1.42E-08	-1.82E-10	-1.82E-10	-1.73E-10	-1.71E-10	-2.04E-10	-2.05E-10	-2.05E-10
URI ( $\Delta$ CDF)	1.35E-08	2.21E-10	-3.24E-10	-3.23E-10	-3.22E-10	-3.21E-10	-3.23E-10	-3.26E-10
PLE	NO							
Indicator value	-6.40E-10	4.00E-11	-5.10E-10	-5.00E-10	-4.90E-10	-5.20E-10	-5.30E-10	-5.30E-10

Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

### Mitigating Systems Performance Index, Heat Removal System



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

#### Notes

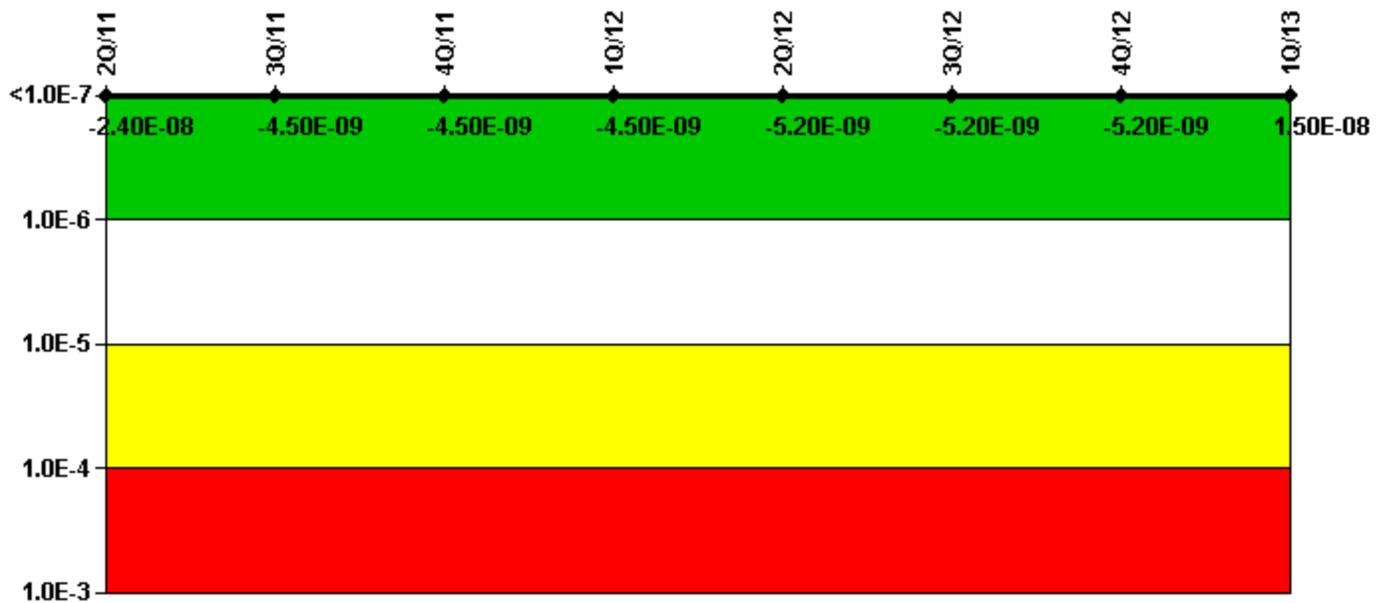
Mitigating Systems Performance Index, Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI ( $\Delta$ CDF)	-3.85E-08	-1.35E-06	-1.35E-06	-1.39E-06	-1.45E-06	-1.45E-06	-1.45E-06	-1.45E-06
URI ( $\Delta$ CDF)	-6.33E-08	-2.85E-07	-2.55E-07	-2.55E-07	-2.45E-07	-2.66E-07	-2.58E-07	-2.67E-07
PLE	NO							
Indicator value	-1.00E-07	-1.60E-06	-1.60E-06	-1.60E-06	-1.70E-06	-1.70E-06	-1.70E-06	-1.70E-06

#### Licensee Comments:

4Q/12: The Heat Removal System MS08 data for 4Q2012 has been corrected to include an additional failure (ICES 305334) that was not reported in the 4Q submittal. This data change did not result in a change to the indicator color.

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

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



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

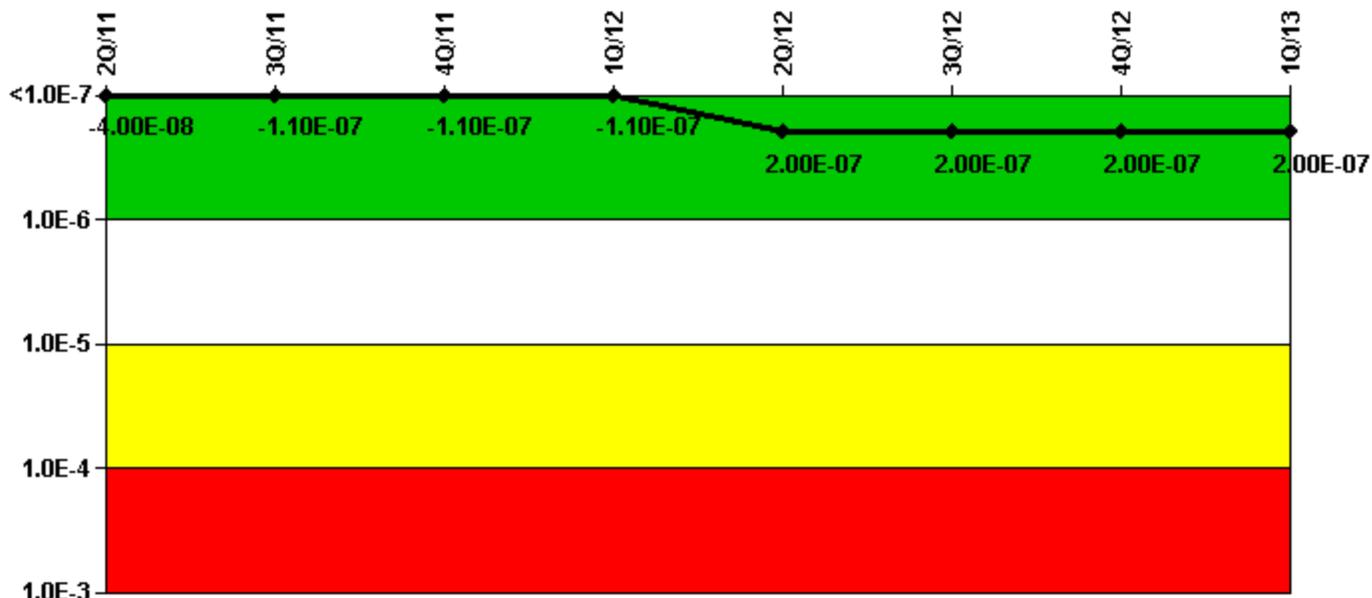
#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI ( $\Delta$ CDF)	-1.94E-09	-7.15E-10	-7.23E-10	-7.24E-10	-1.38E-09	-1.38E-09	-1.38E-09	-1.38E-09
URI ( $\Delta$ CDF)	-2.20E-08	-3.78E-09	-3.79E-09	-3.79E-09	-3.80E-09	-3.80E-09	-3.81E-09	1.68E-08
PLE	NO							
Indicator value	-2.40E-08	-4.50E-09	-4.50E-09	-4.50E-09	-5.20E-09	-5.20E-09	-5.20E-09	1.50E-08

Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

### Mitigating Systems Performance Index, Cooling Water Systems



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

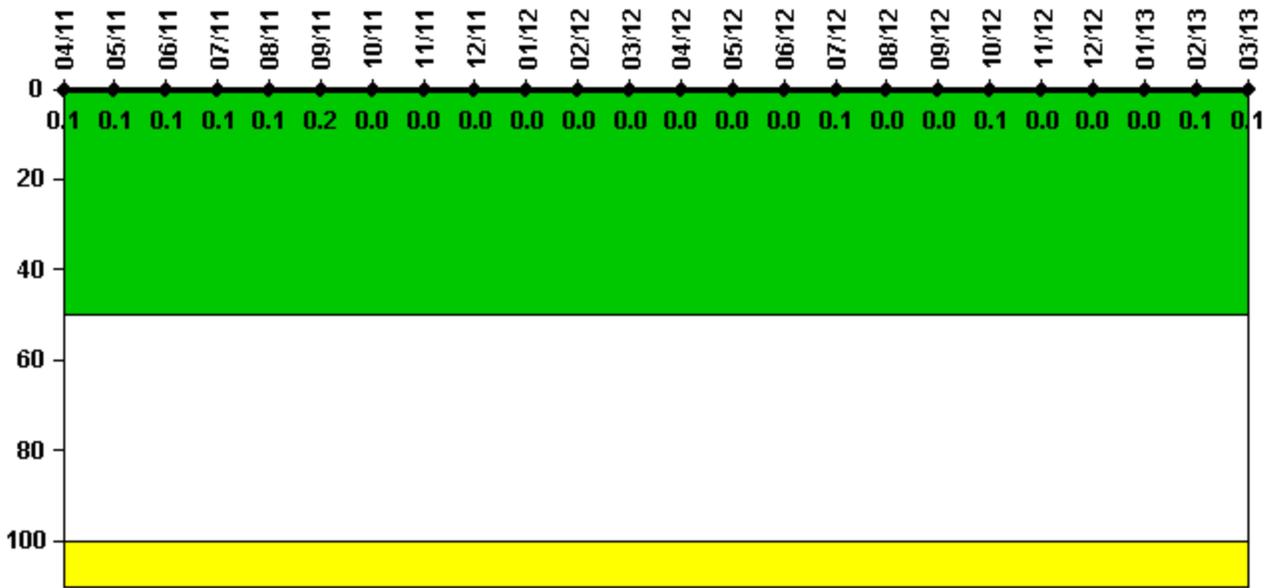
#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI ( $\Delta$ CDF)	4.37E-09	3.73E-09	1.21E-08	1.21E-08	2.21E-08	2.34E-08	2.36E-08	2.32E-08
URI ( $\Delta$ CDF)	-4.40E-08	-1.15E-07	-1.18E-07	-1.19E-07	1.76E-07	1.72E-07	1.71E-07	1.75E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.00E-08	-1.10E-07	-1.10E-07	-1.10E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07

Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

### Reactor Coolant System Activity



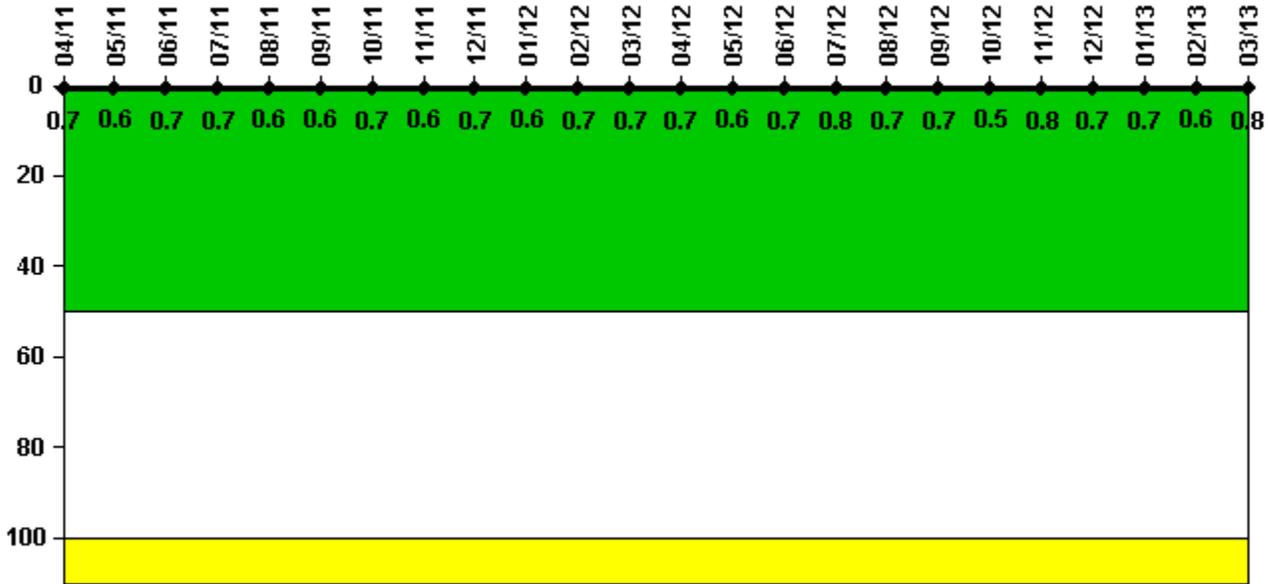
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000242	0.000250	0.000253	0.000255	0.000261	0.000796	0.000106	0.000124	0.000128	0.000133	0.000147	0.000138
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0.1	0.2	0	0	0	0	0	0
Reactor Coolant System Activity	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum activity	0.000145	0.000145	0.000136	0.000228	0.000146	0.000152	0.000255	0.000159	0.000170	0.000170	0.000249	0.000474
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0	0	0	0.1	0	0	0.1	0	0	0	0.1	0.1

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum leakage	0.067	0.057	0.065	0.066	0.058	0.060	0.071	0.061	0.066	0.064	0.067	0.068
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	<b>0.7</b>	<b>0.6</b>	<b>0.7</b>	<b>0.7</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.6</b>	<b>0.7</b>	<b>0.6</b>	<b>0.7</b>	<b>0.7</b>
Reactor Coolant System Leakage	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum leakage	0.069	0.056	0.069	0.080	0.066	0.072	0.050	0.084	0.066	0.067	0.063	0.078
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	<b>0.7</b>	<b>0.6</b>	<b>0.7</b>	<b>0.8</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.8</b>	<b>0.7</b>	<b>0.7</b>	<b>0.6</b>	<b>0.8</b>

Licensee Comments:

3/13: RCS total leakage is being reported as identified leakage.

12/12: RCS total leakage is being reported as identified leakage.

9/12: RCS total leakage is being reported as identified leakage.

6/12: RCS total leakage is being reported as identified leakage.

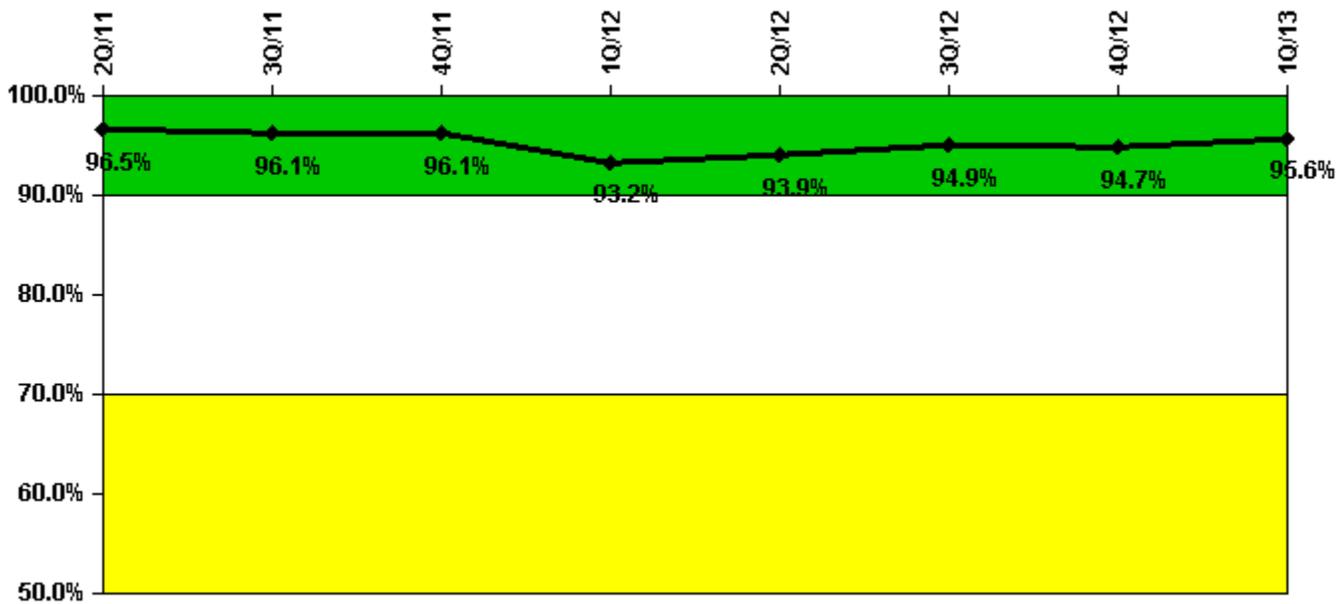
3/12: RCS total leakage is being reported as identified leakage.

12/11: RCS Total Leakage is being reported as Identified Leakage.

9/11: RCS Total Leakage is being reported as Identified Leakage.

6/11: RCS Total Leakage is being reported as Identified Leakage.

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful opportunities	23.0	35.0	6.0	7.0	24.0	26.0	2.0	30.0
Total opportunities	24.0	36.0	6.0	11.0	25.0	26.0	2.0	30.0
Indicator value	96.5%	96.1%	96.1%	93.2%	93.9%	94.9%	94.7%	95.6%

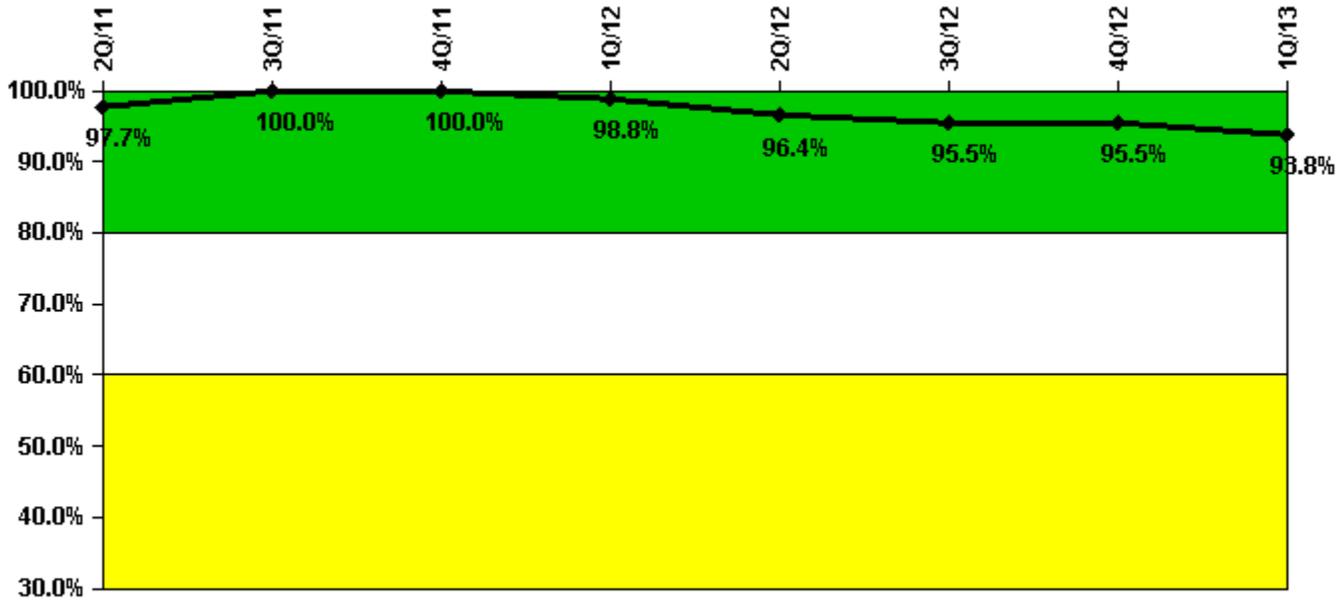
Licensee Comments:

3Q/11: Based on NRC feedback during an inspection, the Emergency Preparedness Drill and Exercise Performance data has been changed for 3Q 2011 to exclude one drill opportunity per the guidance of NEI 99-02. This data change did not result in a change to the indicator color.

3Q/11: Based on NRC feedback during an inspection, the Emergency Preparedness Drill and Exercise

Performance data has been changed for 3Q 2010 to include unexpected simulator drill opportunities that were not included in the original indicator data submission. This data change did not result in a change to the indicator color.

### ERO Drill Participation



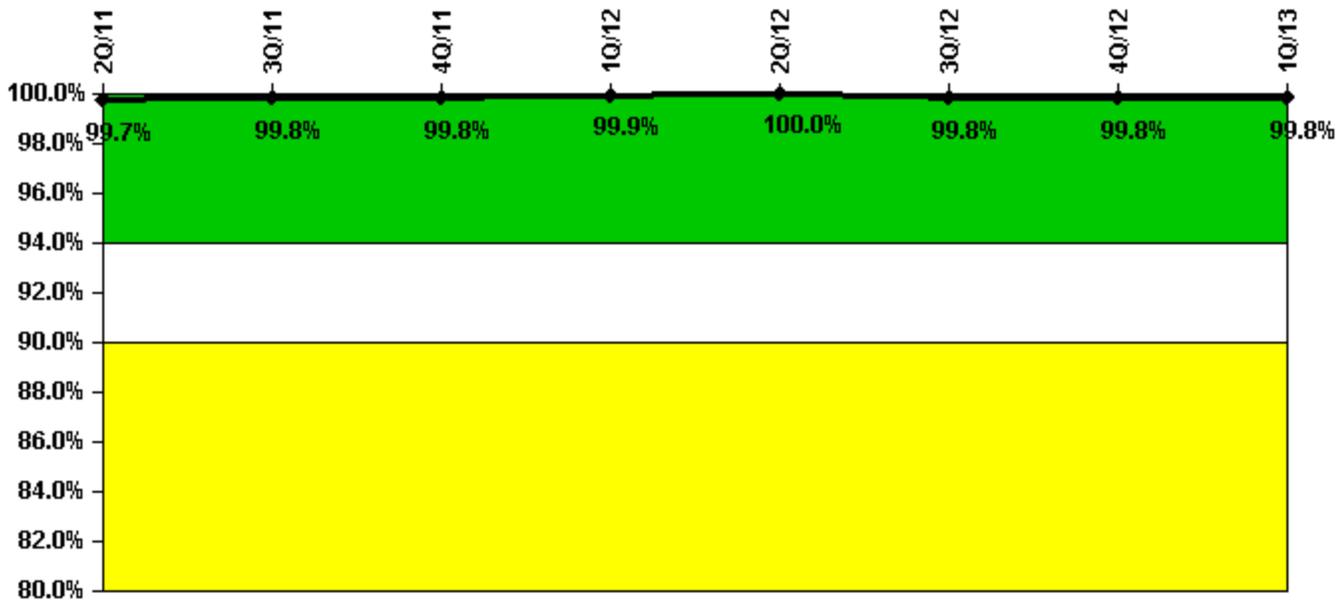
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Participating Key personnel	84.0	87.0	88.0	79.0	80.0	84.0	85.0	90.0
Total Key personnel	86.0	87.0	88.0	80.0	83.0	88.0	89.0	96.0
Indicator value	<b>97.7%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>98.8%</b>	<b>96.4%</b>	<b>95.5%</b>	<b>95.5%</b>	<b>93.8%</b>

Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

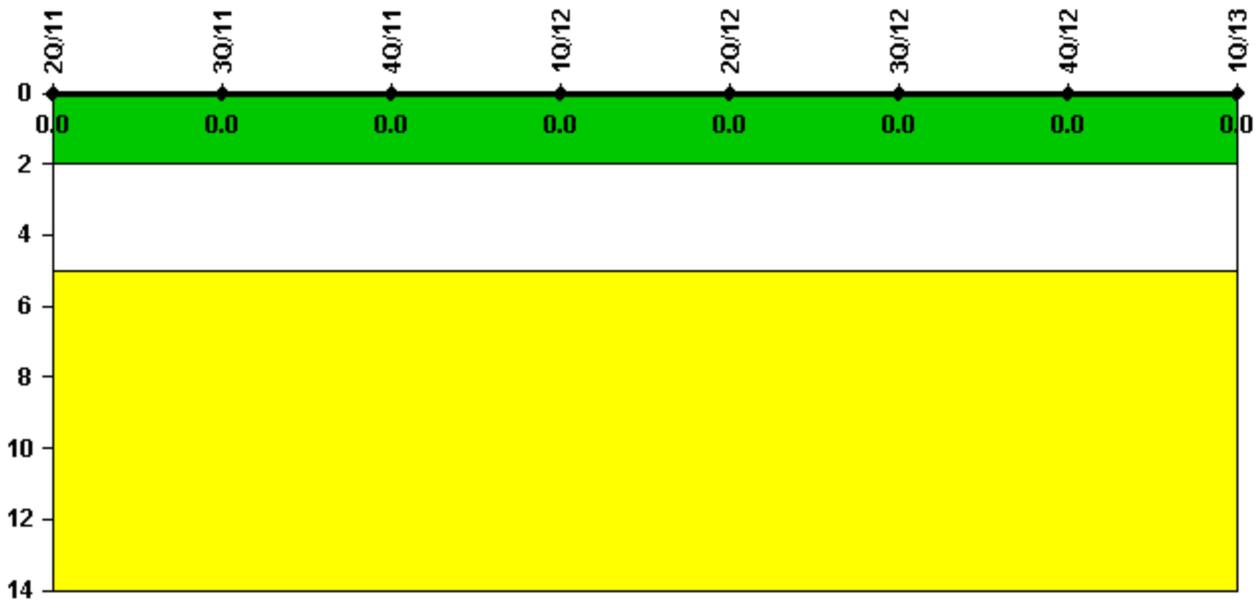
#### Notes

Alert & Notification System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful siren-tests	431	432	431	360	432	428	432	432
Total sirens-tests	432	432	431	360	432	432	432	432
Indicator value	99.7%	99.8%	99.8%	99.9%	100.0%	99.8%	99.8%	99.8%

Licensee Comments:

1Q/12: 1 missed siren test in March 2012 due to error by offsite authority.

### Occupational Exposure Control Effectiveness



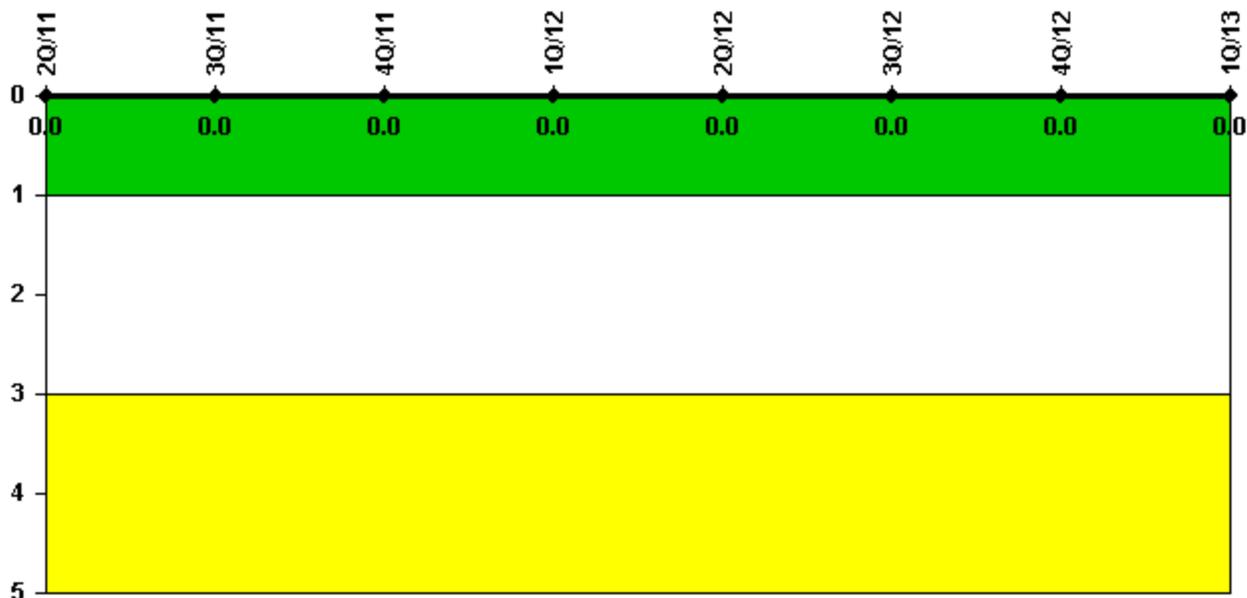
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
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>							

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
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: April 23, 2013*