

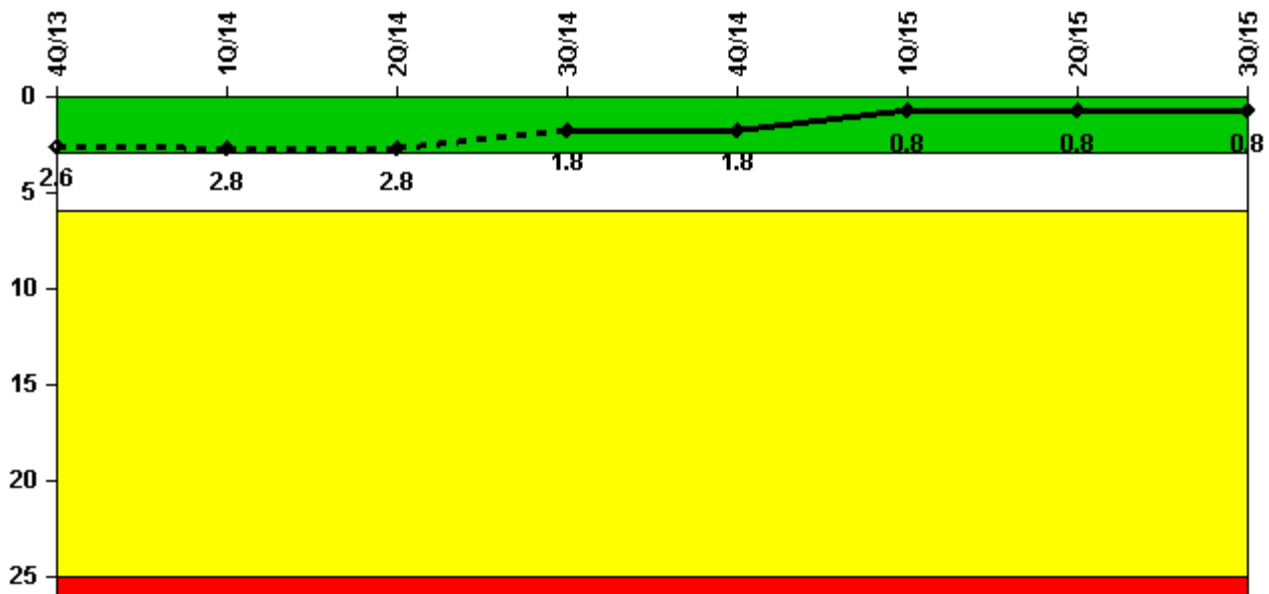
# Grand Gulf 1

## 3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

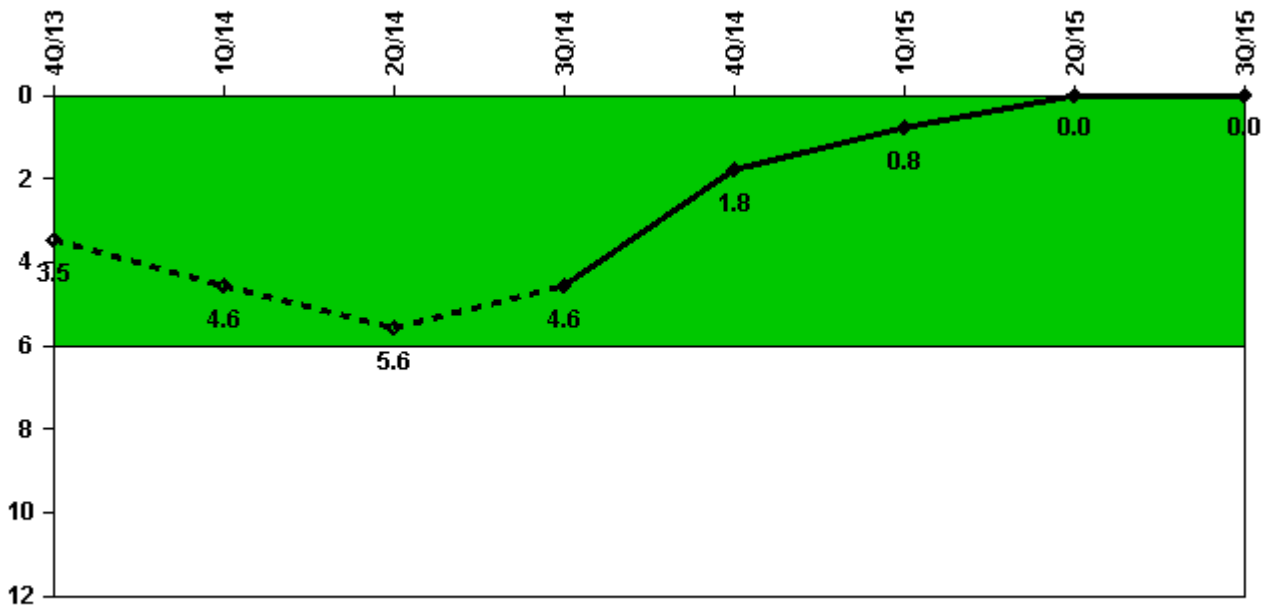
### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	2.0	0	0	0	1.0	0	0
Critical hours	1994.1	1238.2	2184.0	2208.0	2209.0	2005.0	2184.0	2208.0
<b>Indicator value</b>	<b>2.6</b>	<b>2.8</b>	<b>2.8</b>	<b>1.8</b>	<b>1.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 and 3/29/14 included in March data.

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	3.0	1.0	1.0	0	0	0	0	0
Critical hours	1994.1	1238.2	2184.0	2208.0	2209.0	2005.0	2184.0	2208.0
<b>Indicator value</b>	<b>3.5</b>	<b>4.6</b>	<b>5.6</b>	<b>4.6</b>	<b>1.8</b>	<b>0.8</b>	<b>0</b>	<b>0</b>

#### Licensee Comments:

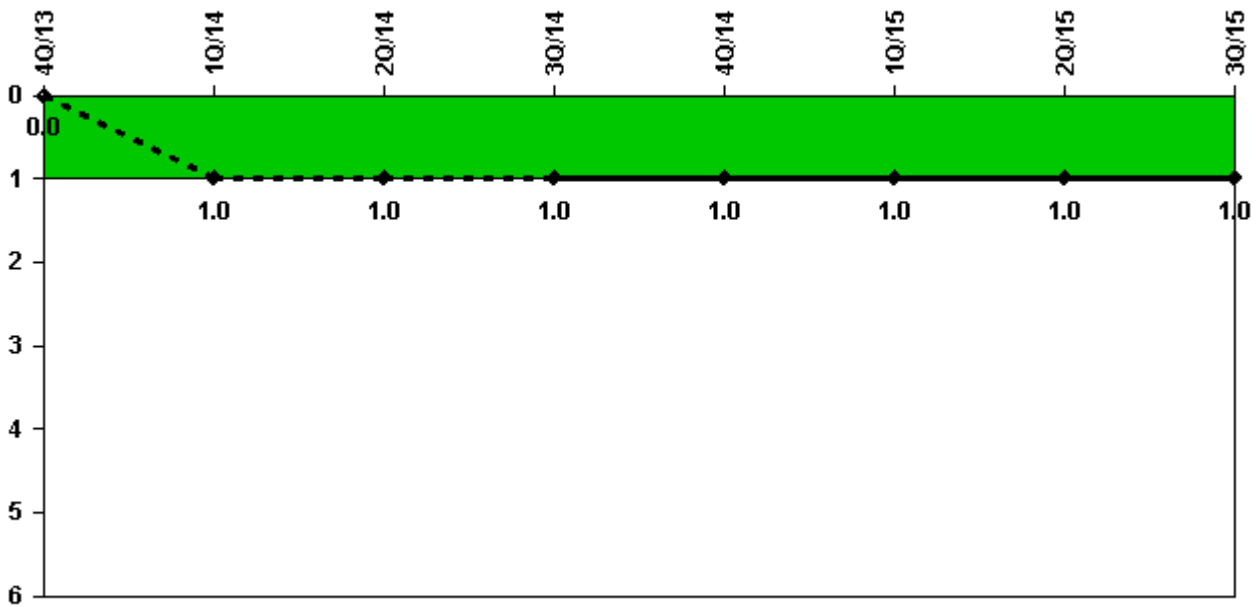
1Q/15: Grand Gulf has added one unplanned power change to 2Q2014. This event was incorrectly counted due to human error and has been added to the corrective action program.

4Q/14: Plant power was reduced by greater than 20% on November 23, 2014 at the direction of the grid dispatcher due to grid instability. This down power was outside of management control.

2Q/14: Grand Gulf added one unplanned power change to 2Q2014. This event was excluded in error and has been entered into the corrective action program.

1Q/14: Unplanned power change for TVR issue included in March data.

### Unplanned Scrams with Complications



Thresholds: White > 1.0

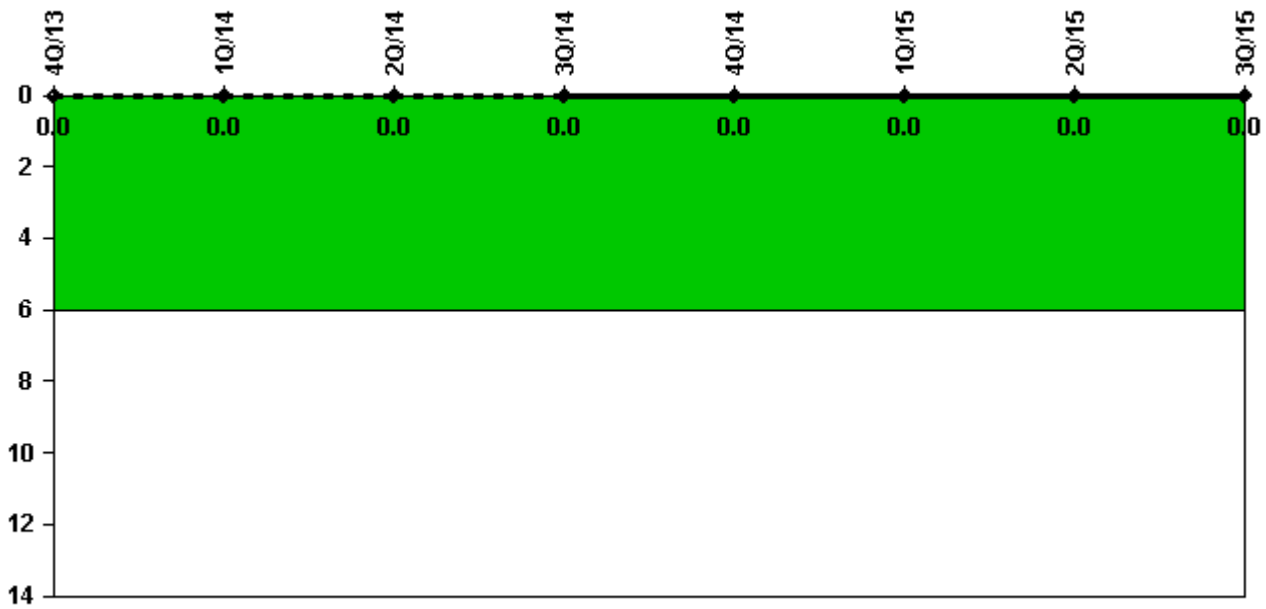
#### Notes

Unplanned Scrams with Complications	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Scrams with complications	0	1.0	0	0	0	1.0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 with Complications included in March data.

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

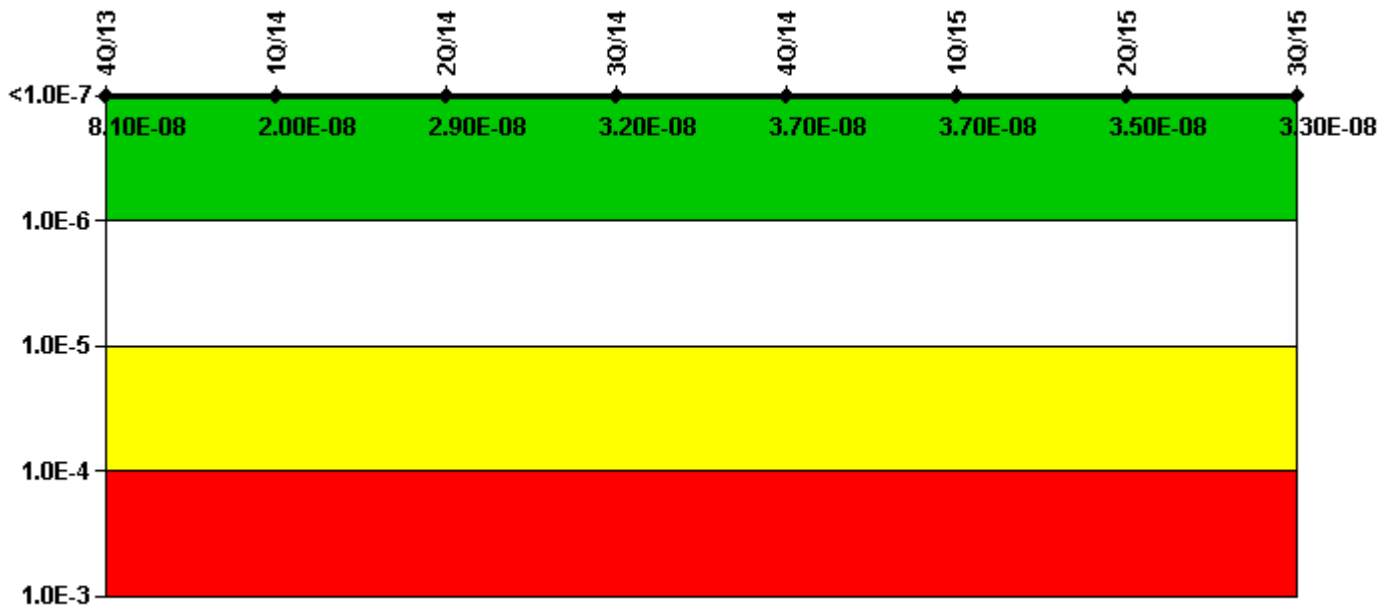
#### Notes

Safety System Functional Failures (BWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	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:

4Q/13: No LERs for November 2013

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



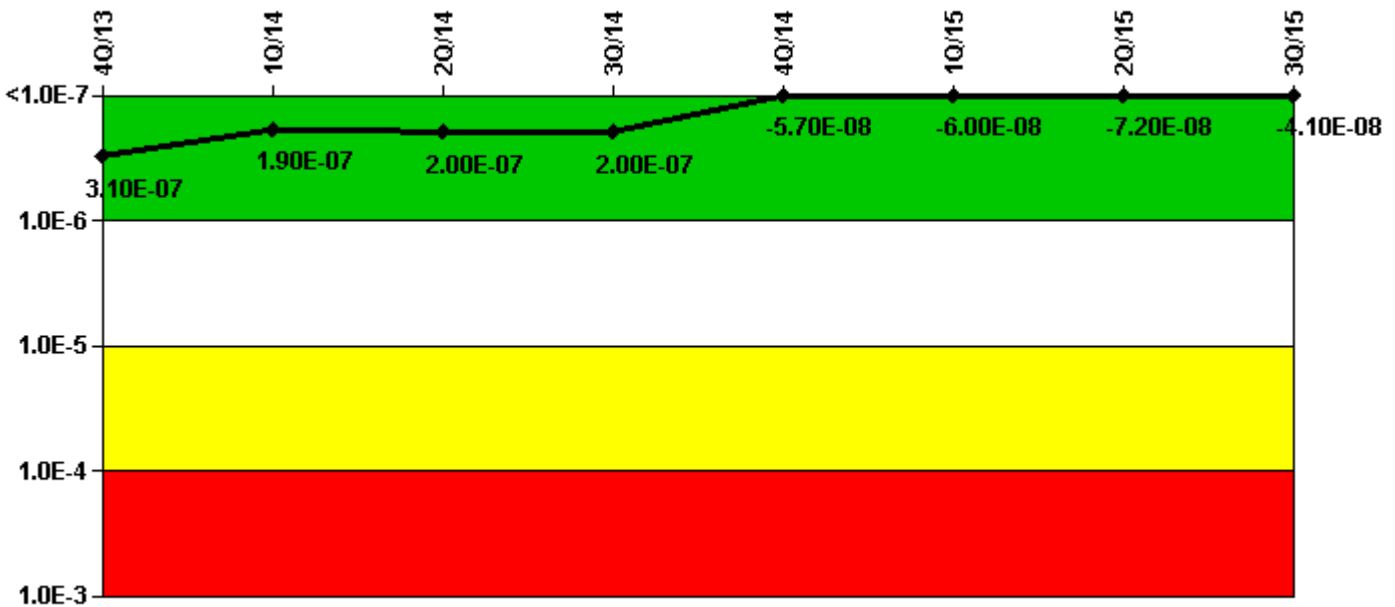
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI ( $\Delta$ CDF)	1.31E-08	2.39E-09	1.12E-08	1.42E-08	1.90E-08	1.61E-08	1.41E-08	1.33E-08
URI ( $\Delta$ CDF)	6.77E-08	1.78E-08	1.81E-08	1.74E-08	1.78E-08	2.13E-08	2.07E-08	1.94E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.10E-08	2.00E-08	2.90E-08	3.20E-08	3.70E-08	3.70E-08	3.50E-08	3.30E-08

Licensee Comments: none

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



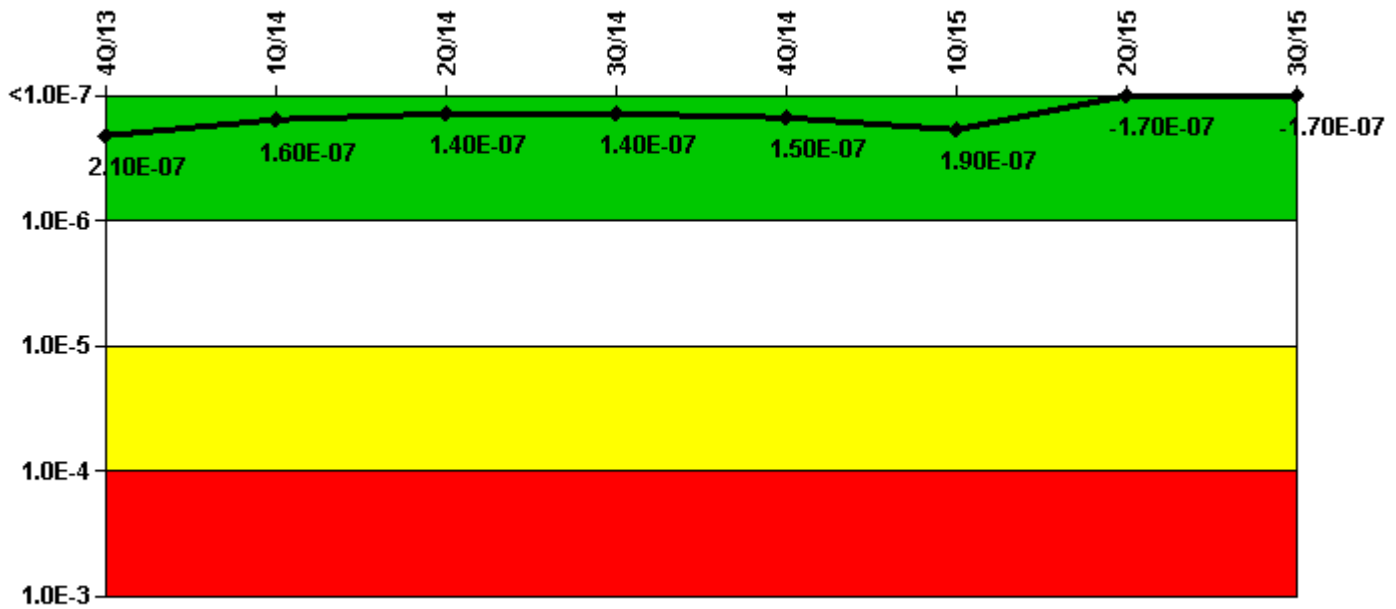
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI ( $\Delta$ CDF)	2.93E-07	2.86E-07	2.85E-07	2.85E-07	2.16E-08	1.80E-08	3.12E-08	3.69E-08
URI ( $\Delta$ CDF)	1.60E-08	-9.12E-08	-8.76E-08	-8.56E-08	-7.83E-08	-7.75E-08	-1.03E-07	-7.84E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.10E-07	1.90E-07	2.00E-07	2.00E-07	-5.70E-08	-6.00E-08	-7.20E-08	-4.10E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



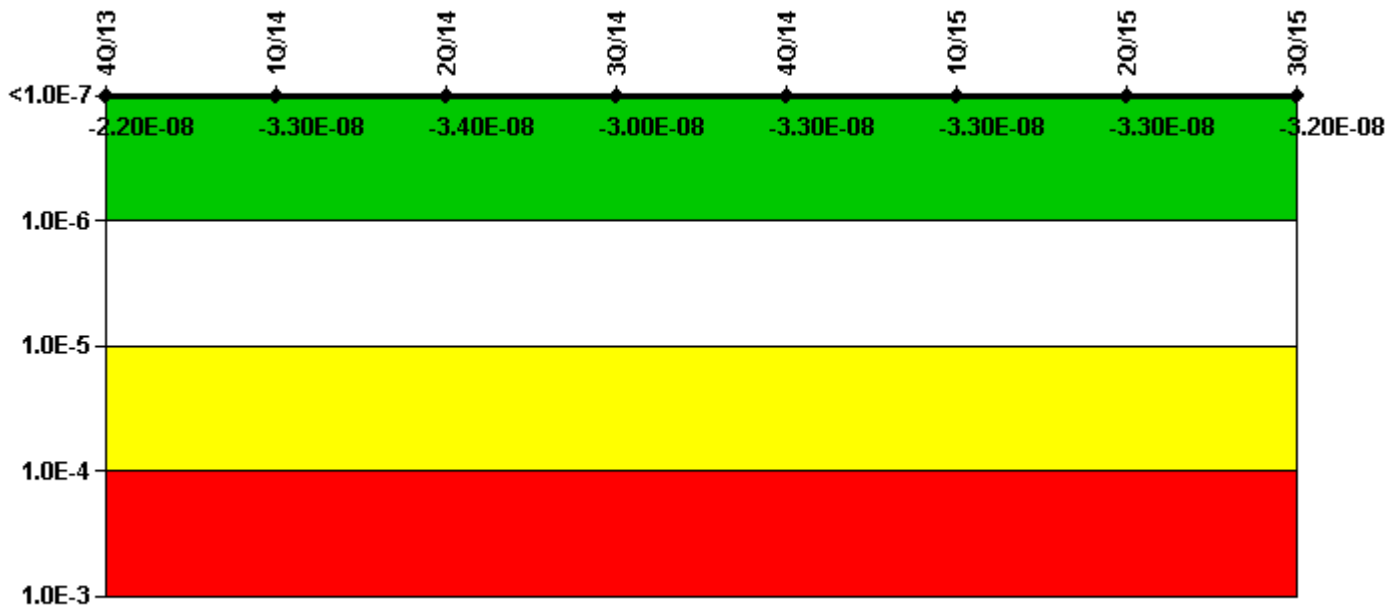
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI ( $\Delta$ CDF)	2.81E-09	7.21E-09	7.21E-09	7.21E-09	2.43E-08	5.30E-08	2.80E-08	2.80E-08
URI ( $\Delta$ CDF)	2.05E-07	1.49E-07	1.28E-07	1.28E-07	1.28E-07	1.35E-07	-1.99E-07	-1.96E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.10E-07	1.60E-07	1.40E-07	1.40E-07	1.50E-07	1.90E-07	-1.70E-07	-1.70E-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

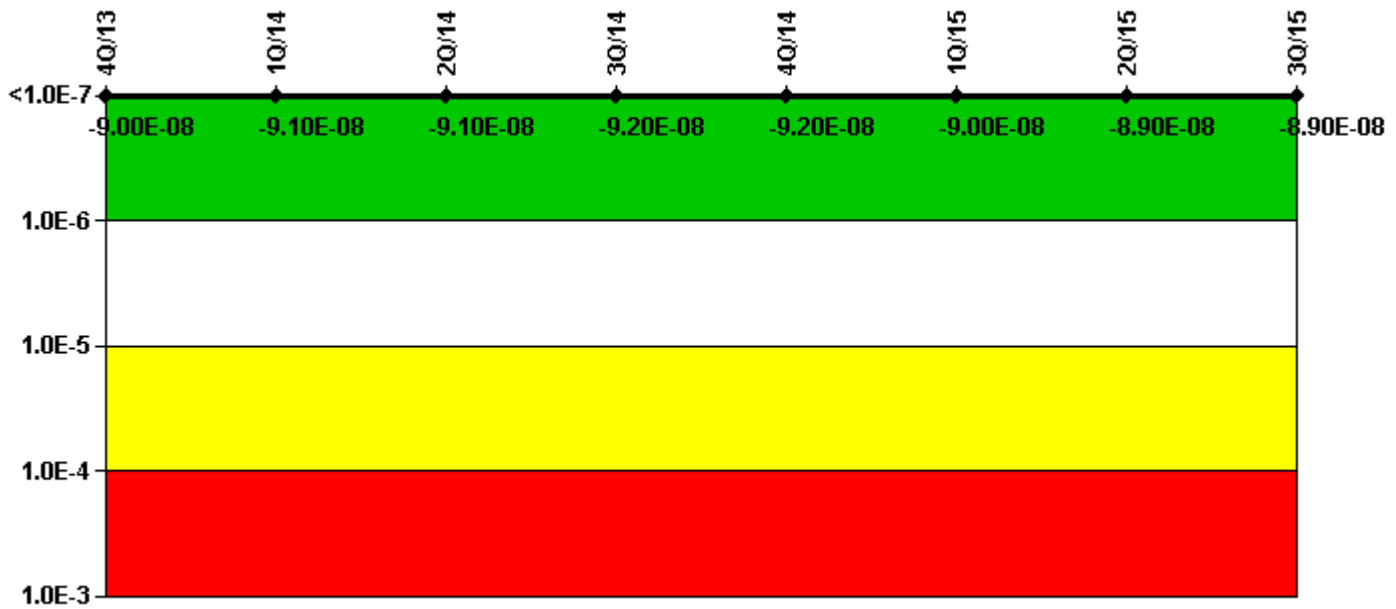
#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI ( $\Delta$ CDF)	3.02E-10	-8.56E-09	-8.56E-09	-3.39E-09	-6.21E-09	-7.80E-09	-8.56E-09	-7.32E-09
URI ( $\Delta$ CDF)	-2.18E-08	-2.44E-08	-2.51E-08	-2.62E-08	-2.67E-08	-2.56E-08	-2.41E-08	-2.44E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-3.30E-08	-3.40E-08	-3.00E-08	-3.30E-08	-3.30E-08	-3.30E-08	-3.20E-08

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



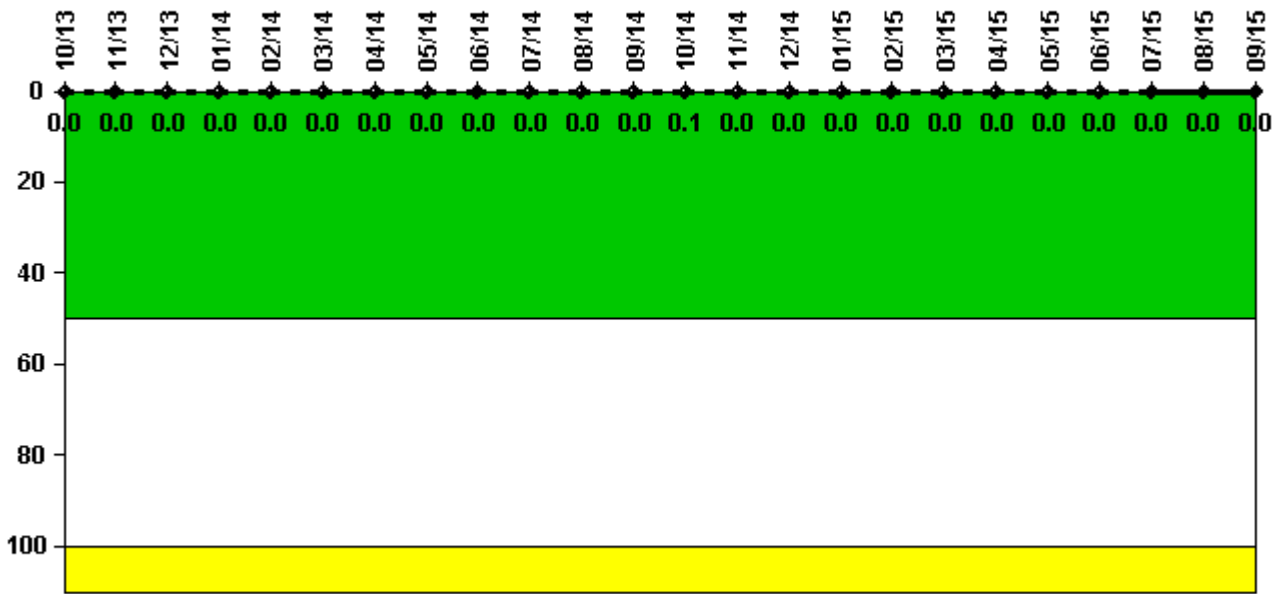
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI ( $\Delta$ CDF)	-1.50E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-8.88E-08	-8.97E-08	-8.97E-08	-9.03E-08	-9.01E-08	-8.87E-08	-8.77E-08	-8.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.00E-08	-9.10E-08	-9.10E-08	-9.20E-08	-9.20E-08	-9.00E-08	-8.90E-08	-8.90E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum activity	0.000092	0.000026	0.000049	0.000055	0.000055	0.000084	0.000070	0.000044	0.000034	0.000043	0.000065	0.000069
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
Reactor Coolant System Activity	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum activity	0.000107	0.000063	0.000038	0.000021	0.000008	0.000093	0.000036	0.000037	0.000039	0.000063	0.000079	0.000092
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	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

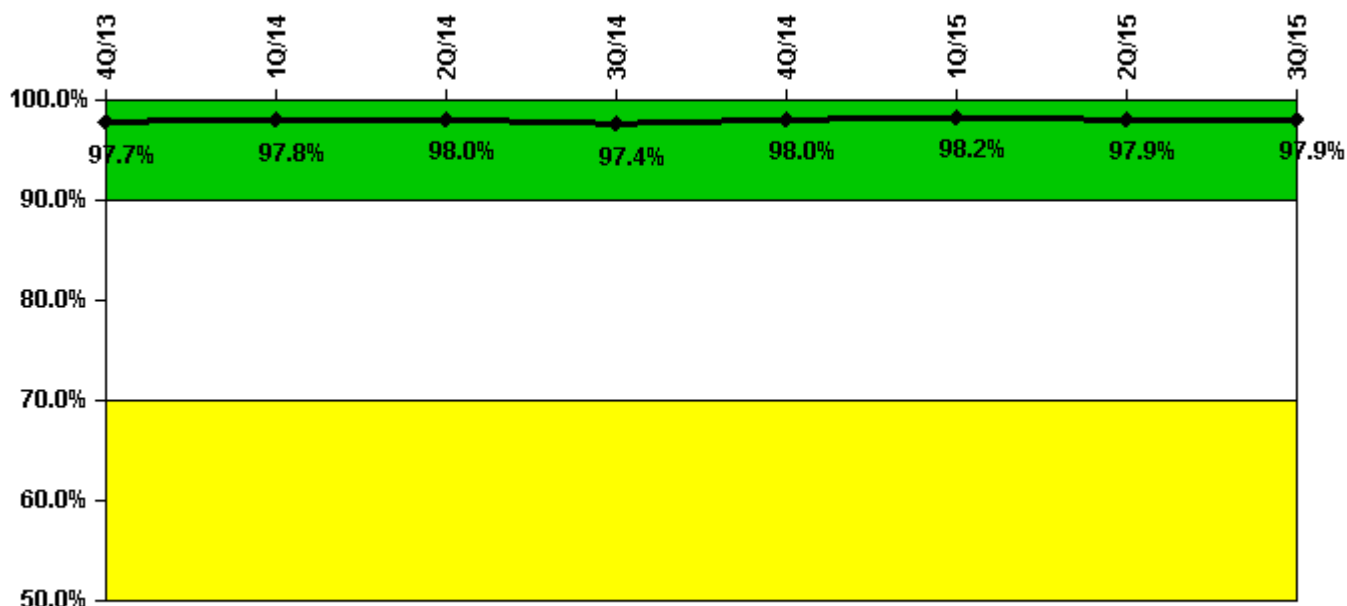
Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	2.690	2.810	2.500	2.810	2.640	2.280	2.570	2.350	2.410	2.340	2.350	2.410
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	9.0	9.4	8.3	9.4	8.8	7.6	8.6	7.8	8.0	7.8	7.8	8.0

Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	2.370	2.480	2.450	2.460	2.330	2.600	2.350	2.400	2.580	2.440	2.630	2.370
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.9	8.3	8.2	8.2	7.8	8.7	7.8	8.0	8.6	8.1	8.8	7.9

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

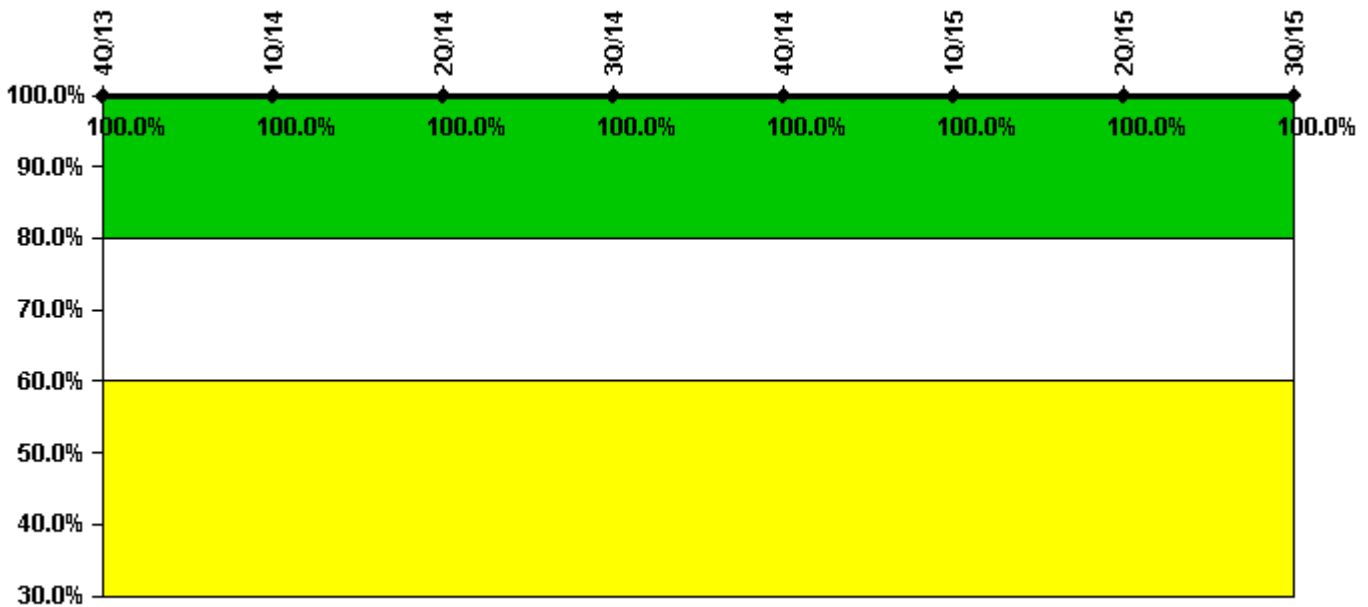
Drill/Exercise Performance	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful opportunities	66.0	10.0	24.0	51.0	50.0	25.0	31.0	17.0
Total opportunities	66.0	10.0	24.0	54.0	50.0	26.0	33.0	17.0
Indicator value	97.7%	97.8%	98.0%	97.4%	98.0%	98.2%	97.9%	97.9%

Licensee Comments:

1Q/15: Performed data update for the data reported in January 2015 (RAM 7-3-15)

3Q/14: Performed update to the data reported in August 2014 (RAM 7-3-2015)

### ERO Drill Participation



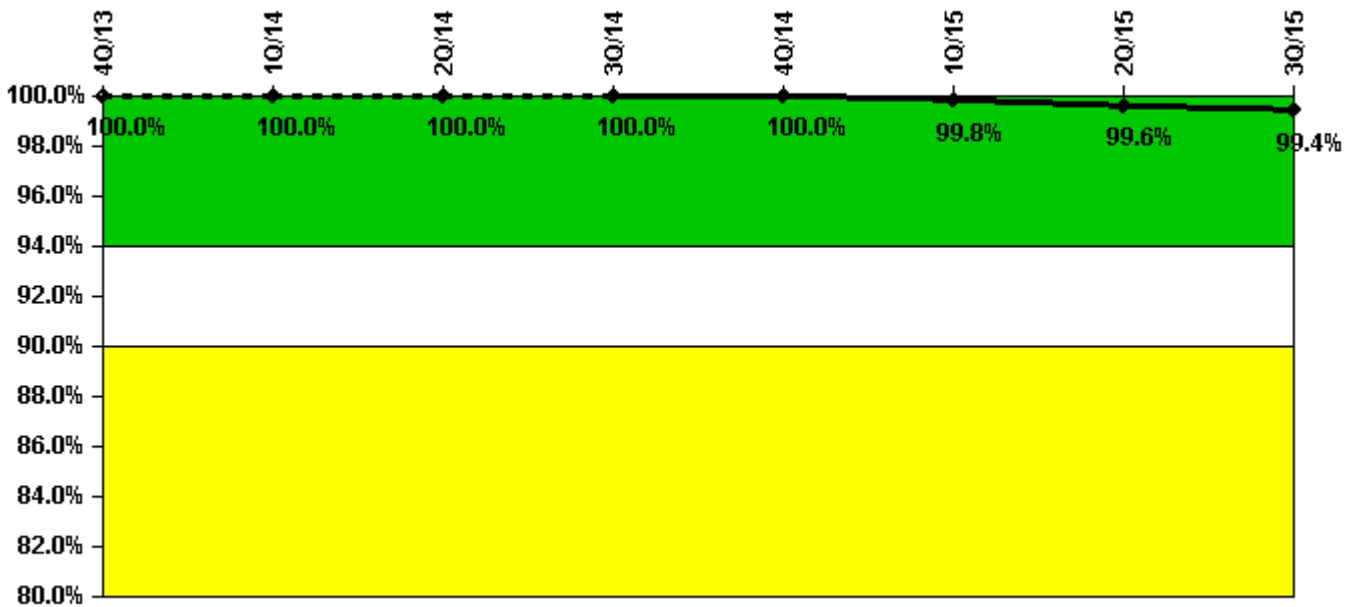
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	74.0	68.0	71.0	63.0	64.0	62.0	65.0	64.0
Total Key personnel	74.0	68.0	71.0	63.0	64.0	62.0	65.0	64.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



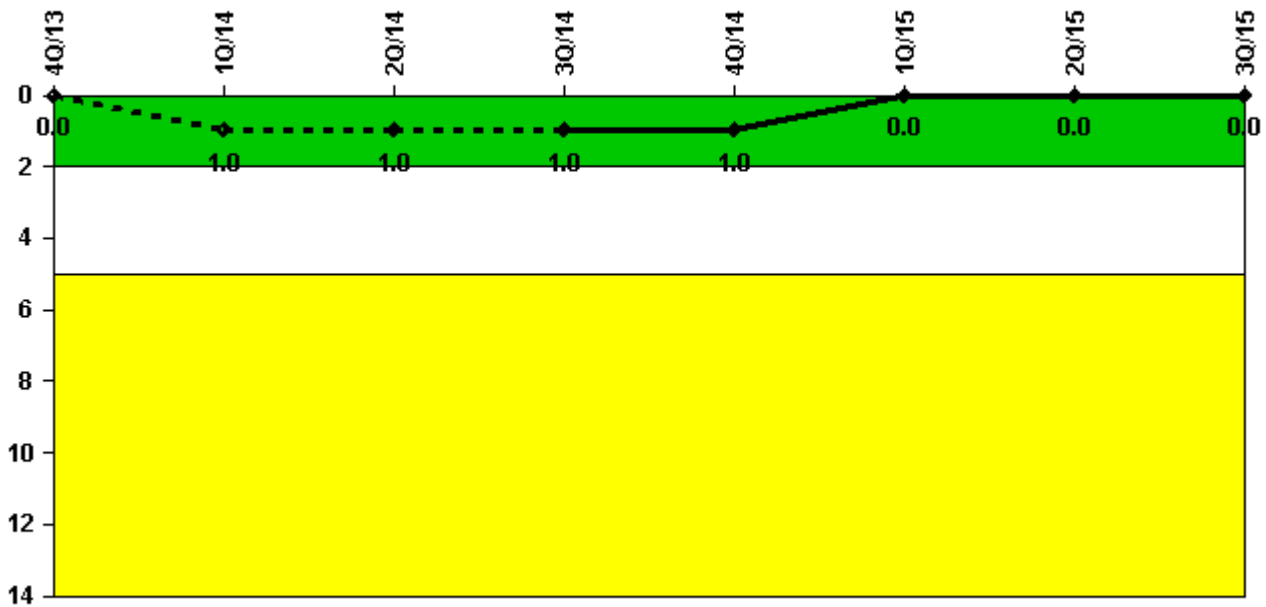
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	129	129	129	129	129	128	126	126
Total sirens-tests	129	129	129	129	129	129	127	127
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%	99.6%	99.4%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

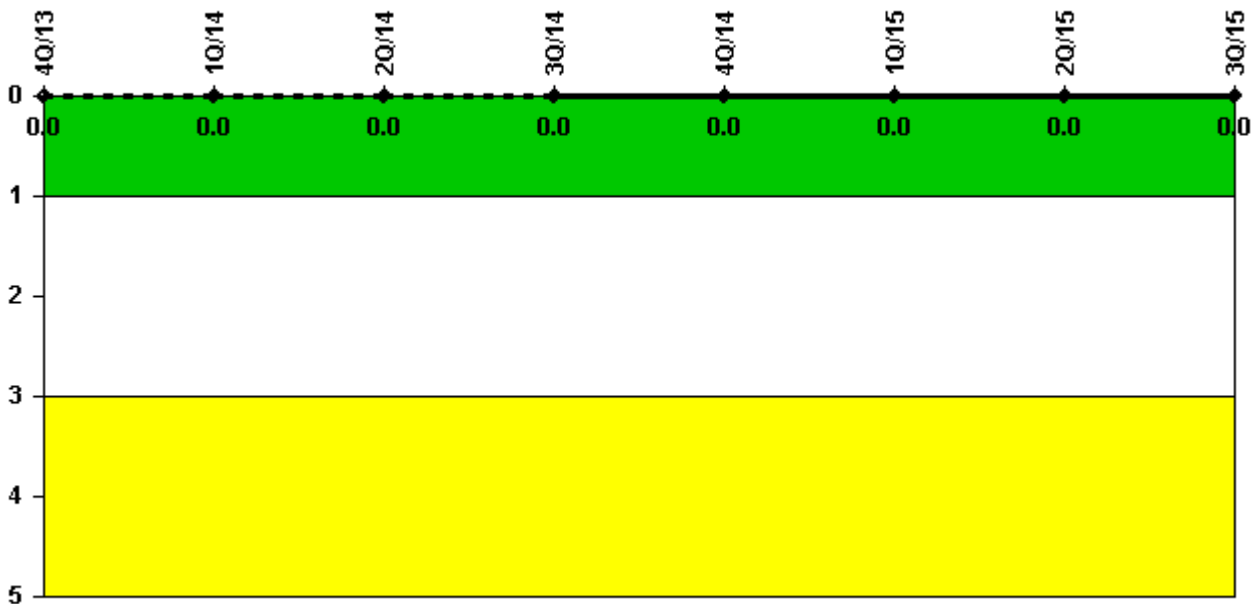
#### Notes

Occupational Exposure Control Effectiveness	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
High radiation area occurrences	0	1	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>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments:

1Q/14: March data includes event for a bucket containing irradiated components being lifted without proper controls being in place.

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
RETS/ODCM 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

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: December 15, 2015*