

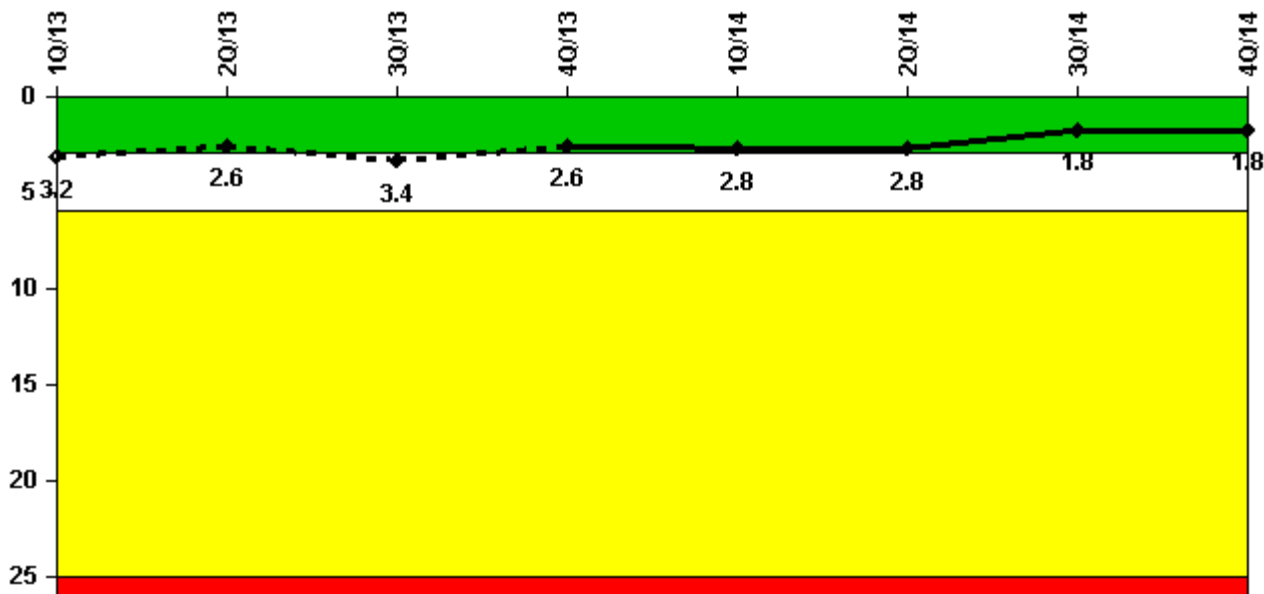
# Grand Gulf 1

## 4Q/2014 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

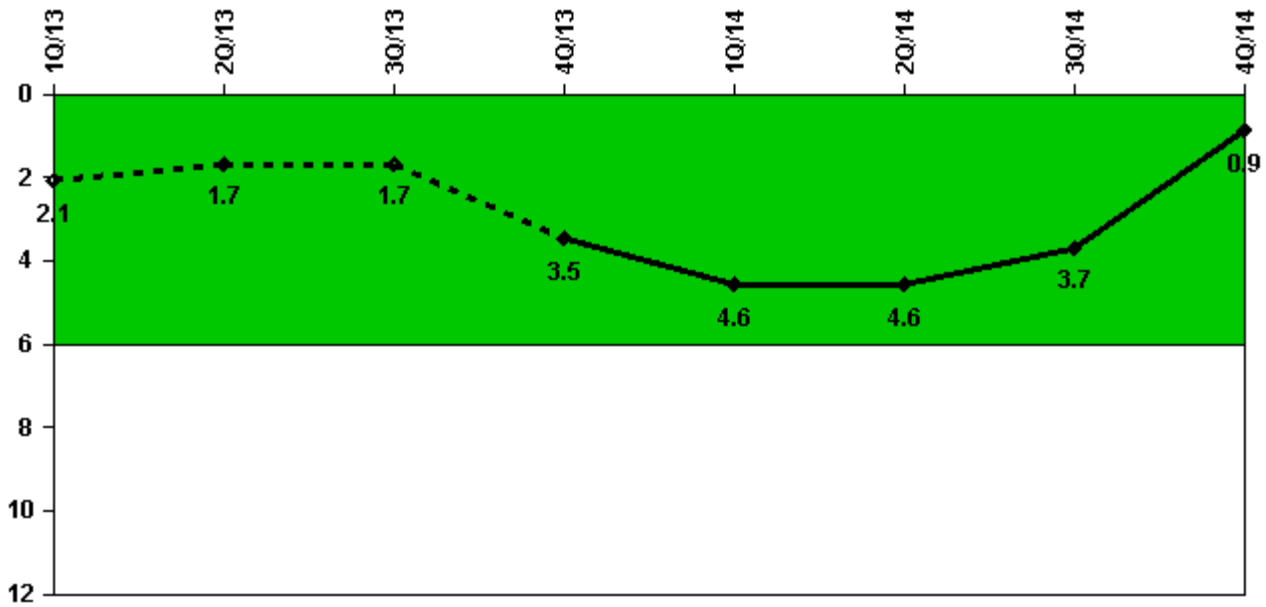
### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned scrams	2.0	0	1.0	0	2.0	0	0	0
Critical hours	1780.9	2184.0	2119.3	1994.1	1238.2	2184.0	2208.0	2209.0
<b>Indicator value</b>	<b>3.2</b>	<b>2.6</b>	<b>3.4</b>	<b>2.6</b>	<b>2.8</b>	<b>2.8</b>	<b>1.8</b>	<b>1.8</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

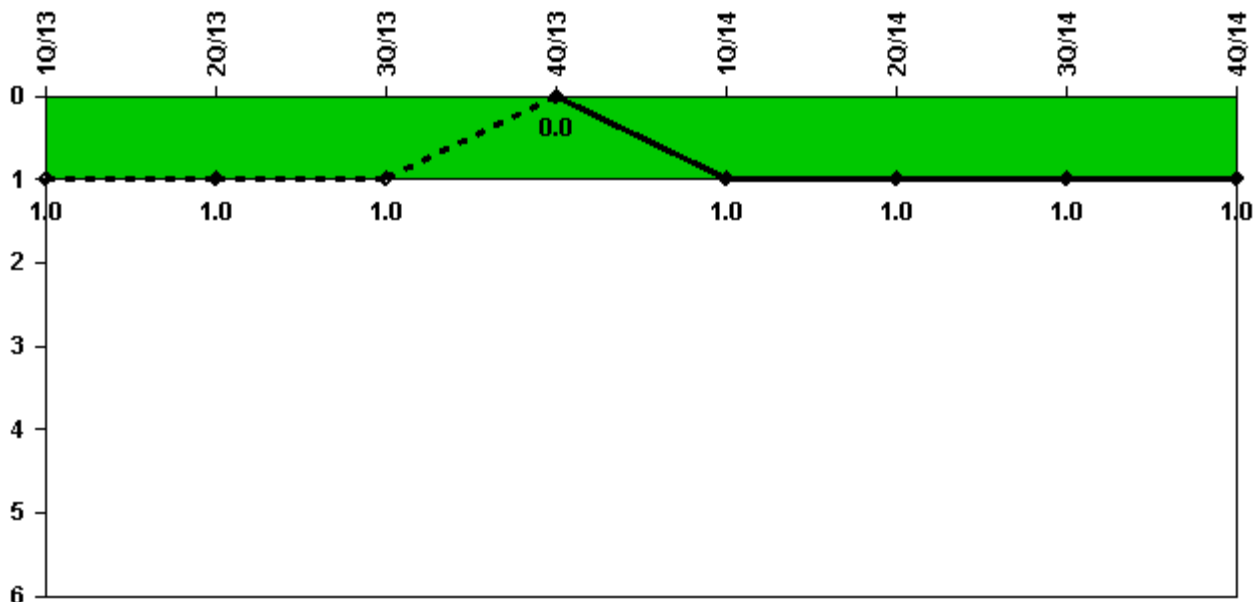
Unplanned Power Changes per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	0	0	1.0	3.0	1.0	0	0	0
Critical hours	1780.9	2184.0	2119.3	1994.1	1238.2	2184.0	2208.0	2209.0
<b>Indicator value</b>	<b>2.1</b>	<b>1.7</b>	<b>1.7</b>	<b>3.5</b>	<b>4.6</b>	<b>4.6</b>	<b>3.7</b>	<b>0.9</b>

Licensee Comments:

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.

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

### Unplanned Scrams with Complications



Thresholds: White > 1.0

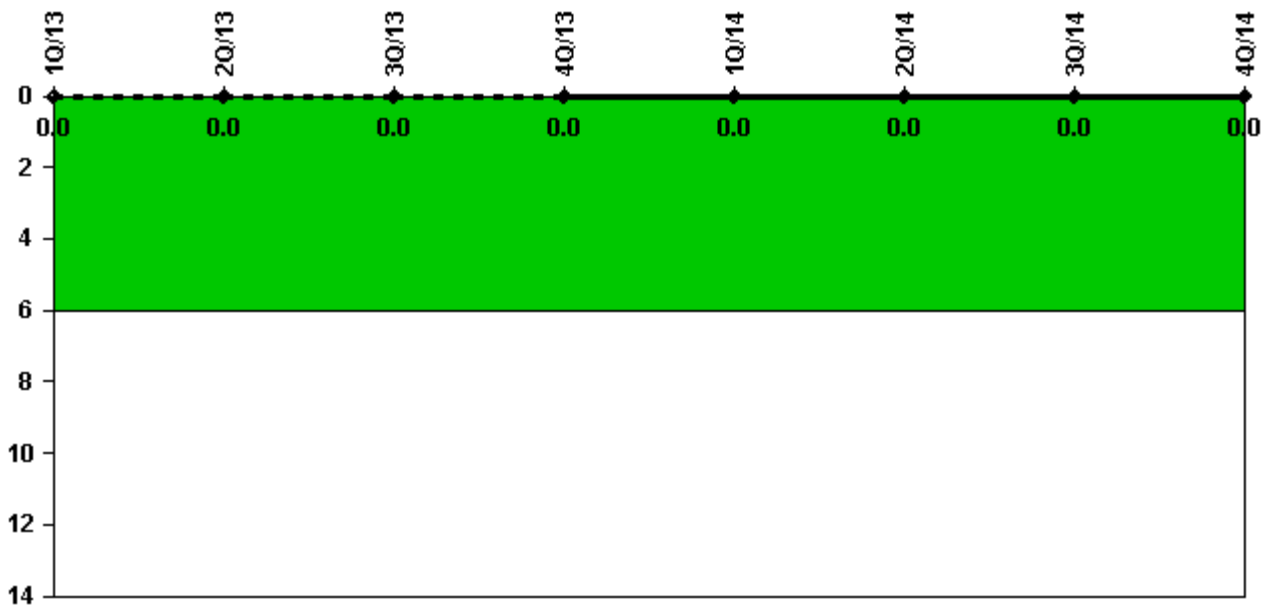
#### Notes

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

Licensee Comments:

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

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

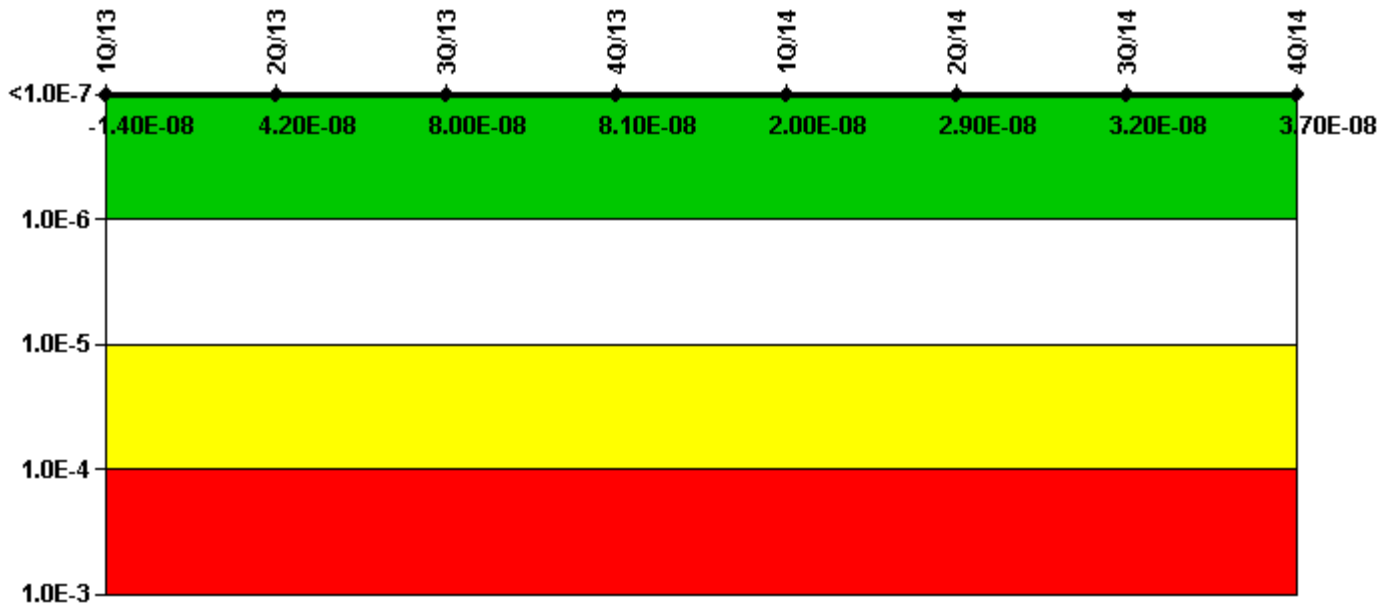
#### Notes

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



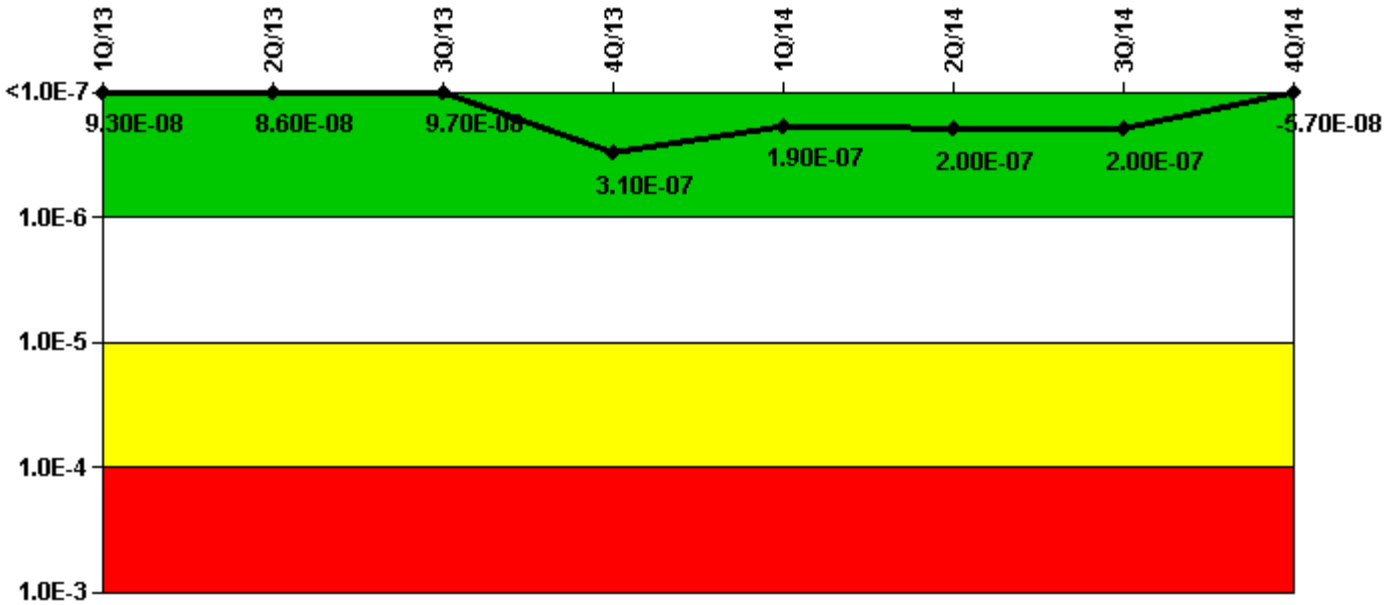
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI ( $\Delta$ CDF)	-8.84E-09	9.33E-09	1.26E-08	1.31E-08	2.39E-09	1.12E-08	1.42E-08	1.90E-08
URI ( $\Delta$ CDF)	-5.22E-09	3.25E-08	6.77E-08	6.77E-08	1.78E-08	1.81E-08	1.74E-08	1.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	4.20E-08	8.00E-08	8.10E-08	2.00E-08	2.90E-08	3.20E-08	3.70E-08

Licensee Comments: none

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



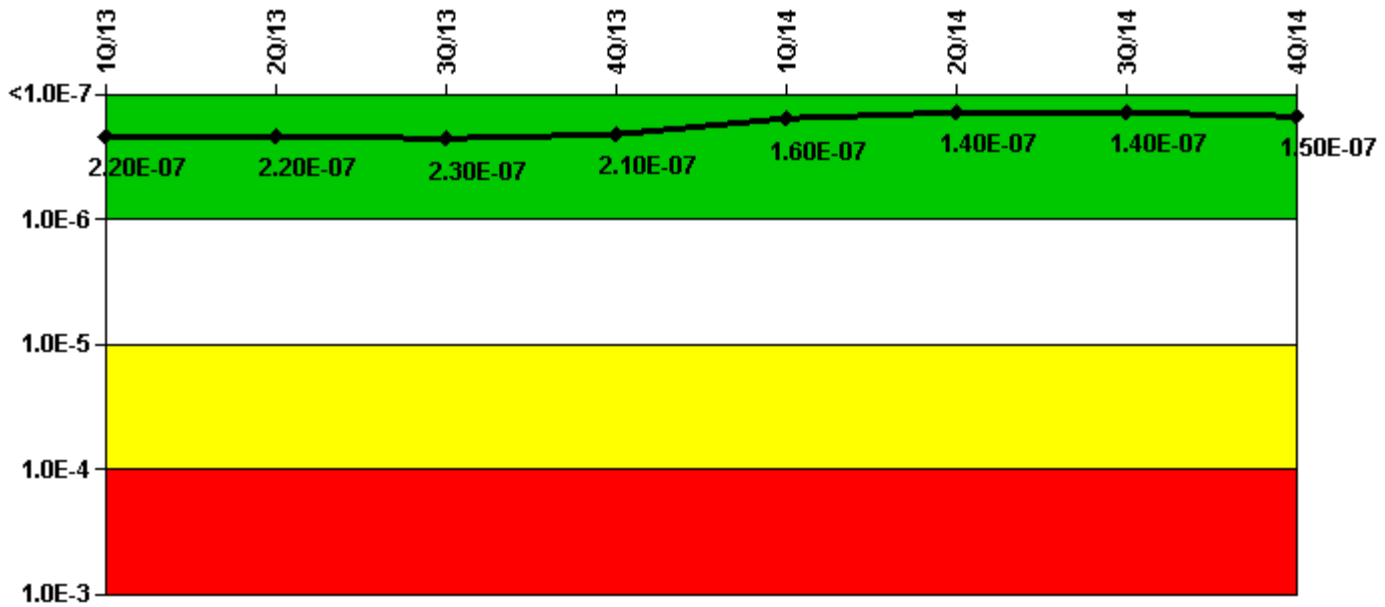
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI ( $\Delta$ CDF)	7.24E-08	6.35E-08	7.95E-08	2.93E-07	2.86E-07	2.85E-07	2.85E-07	2.16E-08
URI ( $\Delta$ CDF)	2.05E-08	2.25E-08	1.80E-08	1.60E-08	-9.12E-08	-8.76E-08	-8.56E-08	-7.83E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.30E-08	8.60E-08	9.70E-08	3.10E-07	1.90E-07	2.00E-07	2.00E-07	5.70E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



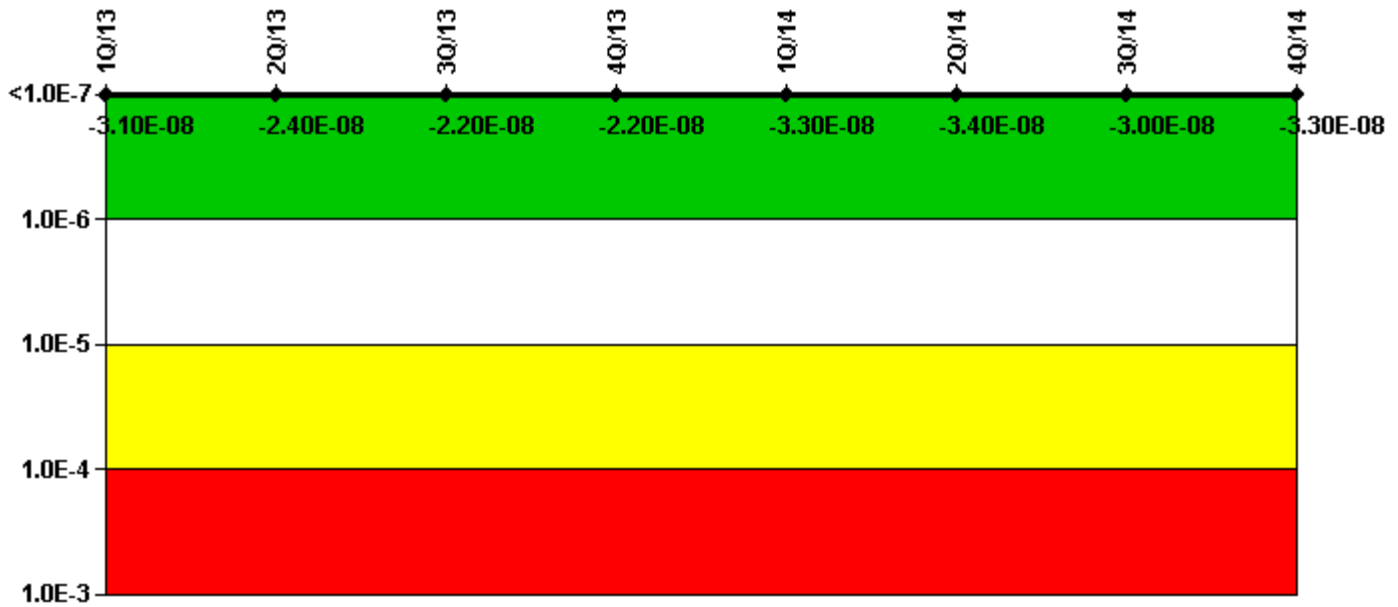
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI ( $\Delta$ CDF)	3.57E-09	1.65E-09	1.89E-09	2.81E-09	7.21E-09	7.21E-09	7.21E-09	2.43E-08
URI ( $\Delta$ CDF)	2.13E-07	2.14E-07	2.32E-07	2.05E-07	1.49E-07	1.28E-07	1.28E-07	1.28E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.20E-07	2.20E-07	2.30E-07	2.10E-07	1.60E-07	1.40E-07	1.40E-07	1.50E-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

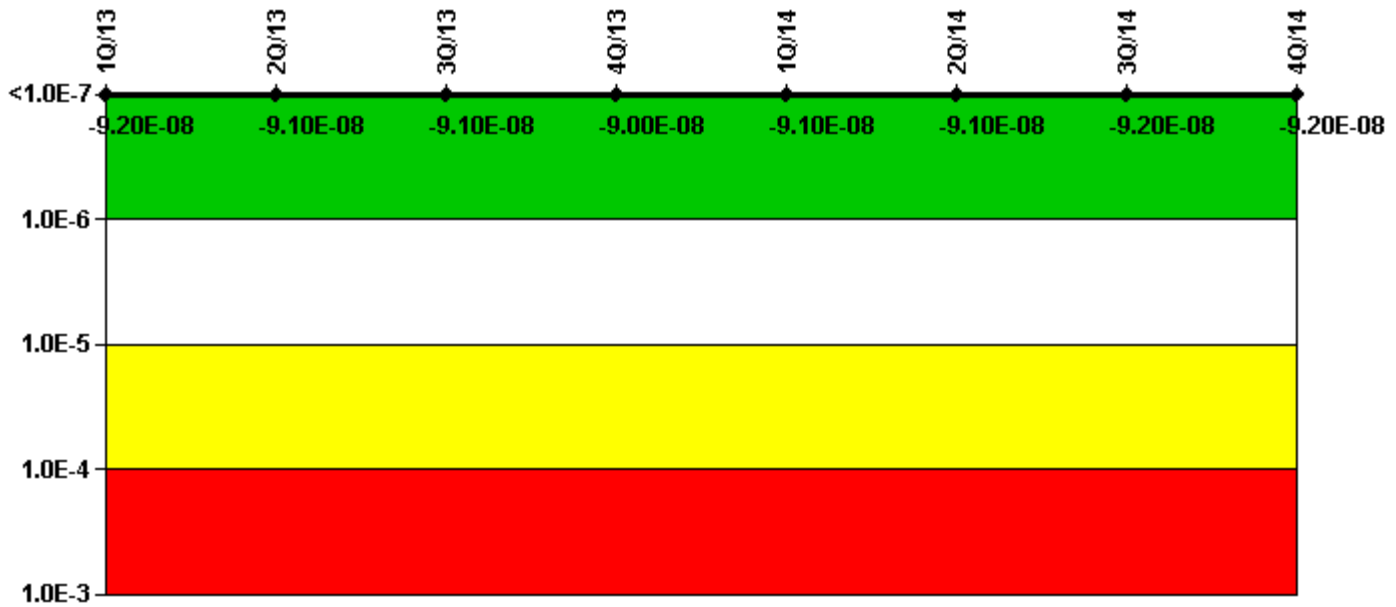
#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (ΔCDF)	-8.56E-09	-2.03E-09	-4.69E-10	3.02E-10	-8.56E-09	-8.56E-09	-3.39E-09	-6.21E-09
URI (ΔCDF)	-2.28E-08	-2.16E-08	-2.12E-08	-2.18E-08	-2.44E-08	-2.51E-08	-2.62E-08	-2.67E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	<b>-3.10E-08</b>	<b>-2.40E-08</b>	<b>-2.20E-08</b>	<b>-2.20E-08</b>	<b>-3.30E-08</b>	<b>-3.40E-08</b>	<b>-3.00E-08</b>	<b>-3.30E-08</b>

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



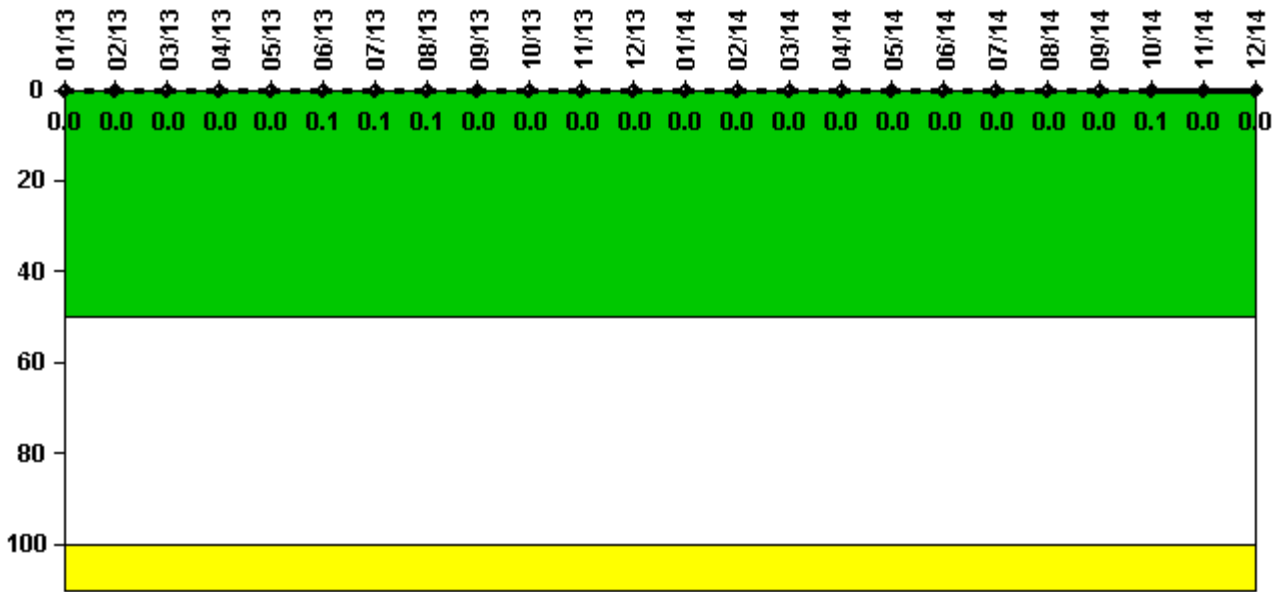
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.50E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.00E-08	-8.93E-08	-8.90E-08	-8.88E-08	-8.97E-08	-8.97E-08	-9.03E-08	-9.01E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.20E-08	-9.10E-08	-9.10E-08	-9.00E-08	-9.10E-08	-9.10E-08	-9.20E-08	-9.20E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

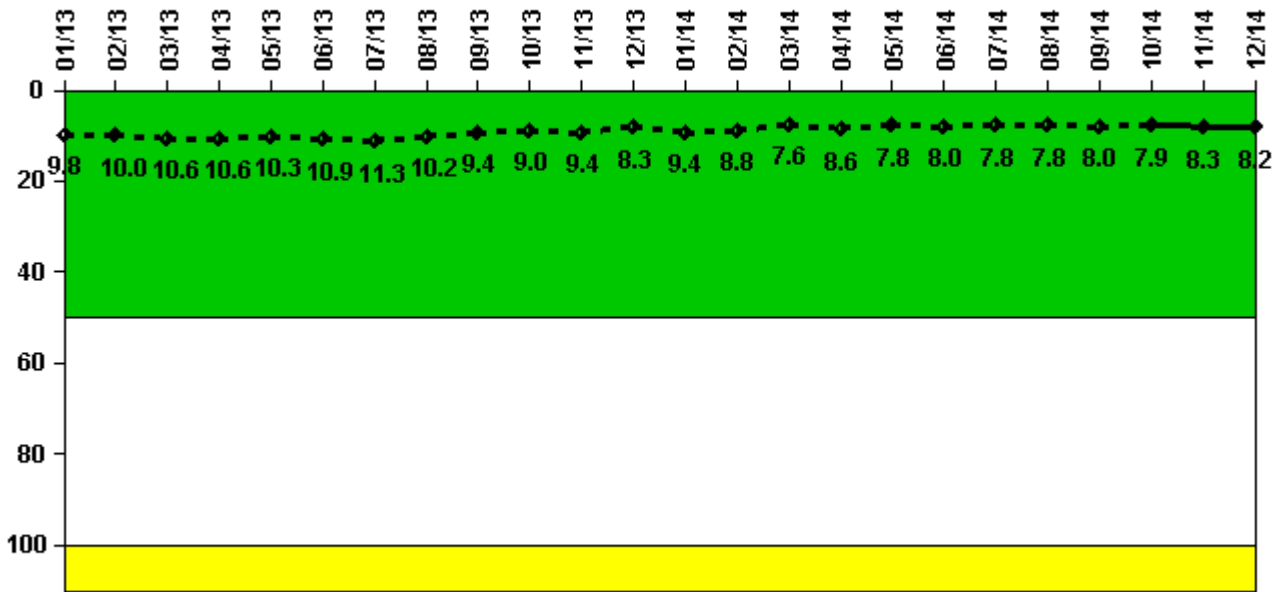
### Notes

Reactor Coolant System Activity	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum activity	0.000057	0.000048	0.000059	0.000090	0.000086	0.000105	0.000105	0.000101	0.000089	0.000092	0.000026	0.000049
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	0.1	0.1	0.1	0	0	0	0
Reactor Coolant System Activity	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum activity	0.000055	0.000055	0.000084	0.000070	0.000044	0.000034	0.000043	0.000065	0.000069	0.000107	0.000063	0.000038
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	0.1	0	0

Licensee Comments:

6/13: June only one Reactor Water Clean-Up (RWCU) Filter in-service.

### Reactor Coolant System Leakage



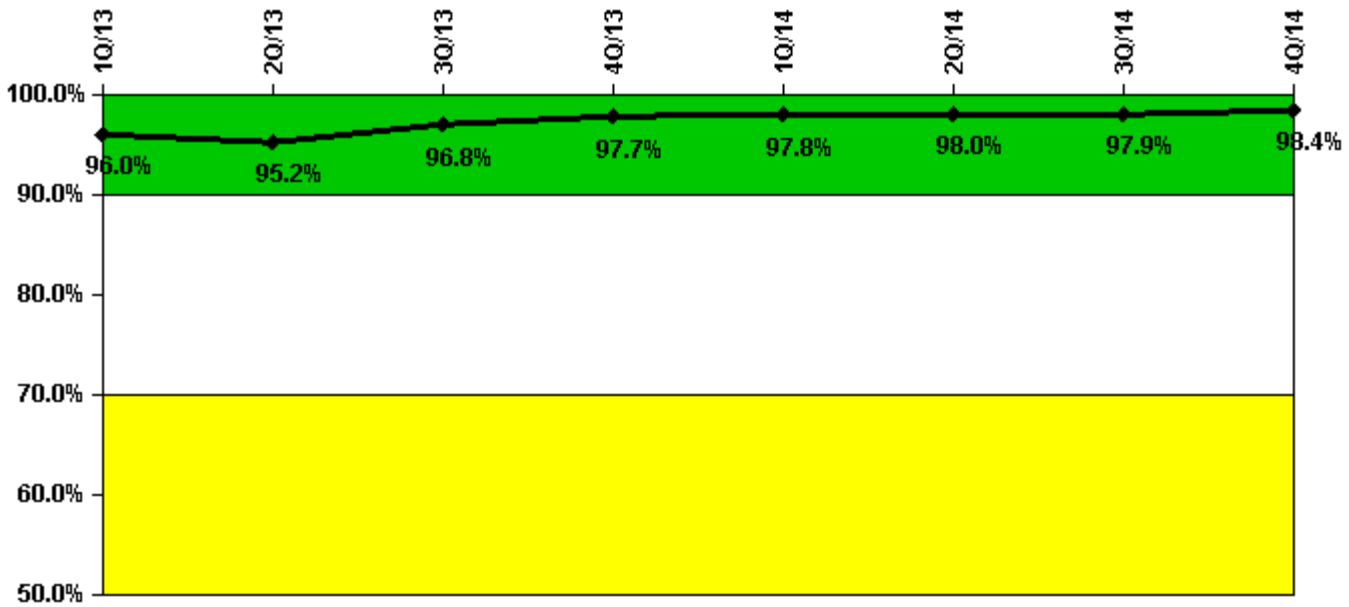
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum leakage	2.950	2.990	3.180	3.180	3.090	3.270	3.400	3.050	2.810	2.690	2.810	2.500
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
<b>Indicator value</b>	<b>9.8</b>	<b>10.0</b>	<b>10.6</b>	<b>10.6</b>	<b>10.3</b>	<b>10.9</b>	<b>11.3</b>	<b>10.2</b>	<b>9.4</b>	<b>9.0</b>	<b>9.4</b>	<b>8.3</b>
Reactor Coolant System Leakage	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum leakage	2.810	2.640	2.280	2.570	2.350	2.410	2.340	2.350	2.410	2.370	2.480	2.450
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
<b>Indicator value</b>	<b>9.4</b>	<b>8.8</b>	<b>7.6</b>	<b>8.6</b>	<b>7.8</b>	<b>8.0</b>	<b>7.8</b>	<b>7.8</b>	<b>8.0</b>	<b>7.9</b>	<b>8.3</b>	<b>8.2</b>

Licensee Comments: none

### Drill/Exercise Performance



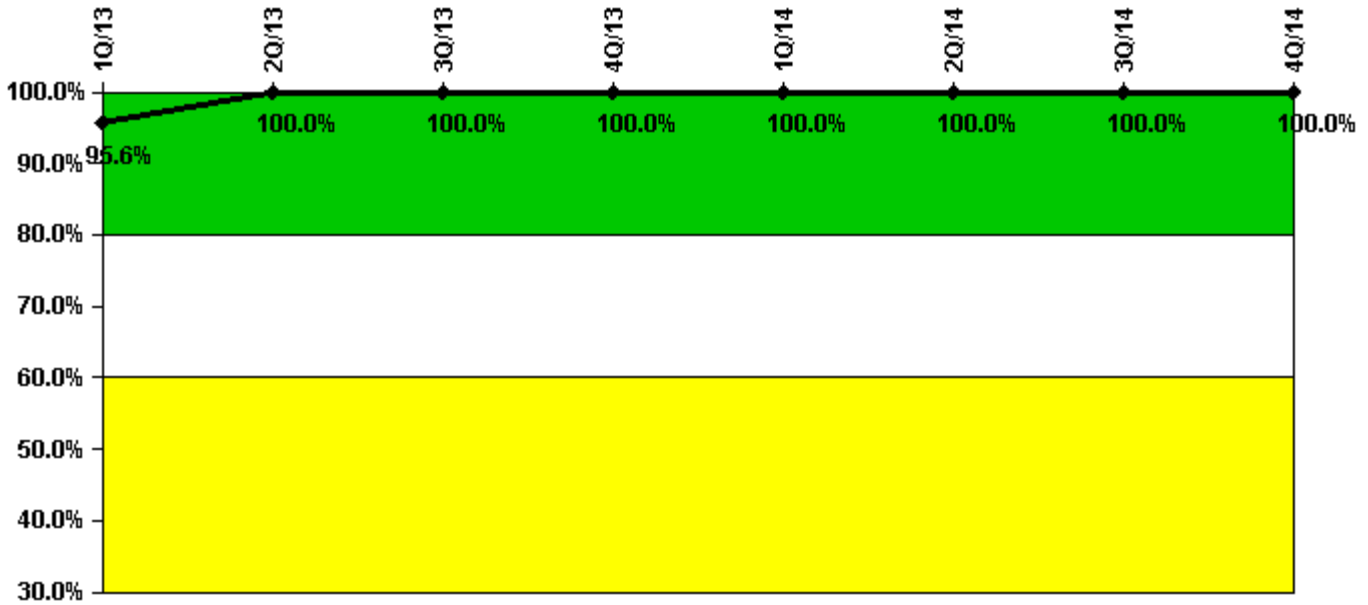
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful opportunities	9.0	17.0	23.0	66.0	10.0	24.0	52.0	50.0
Total opportunities	10.0	18.0	23.0	66.0	10.0	24.0	54.0	50.0
Indicator value	96.0%	95.2%	96.8%	97.7%	97.8%	98.0%	97.9%	98.4%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

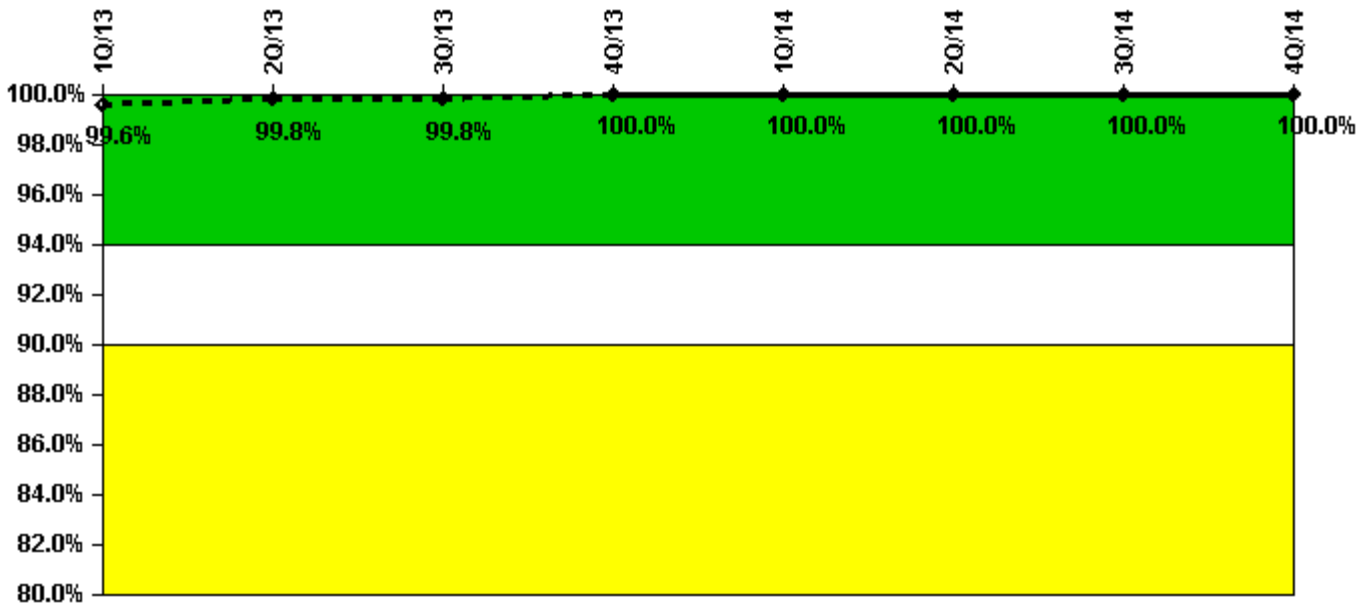
#### Notes

ERO Drill Participation	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Participating Key personnel	65.0	67.0	66.0	74.0	68.0	71.0	63.0	64.0
Total Key personnel	68.0	67.0	66.0	74.0	68.0	71.0	63.0	64.0
Indicator value	95.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/13: First Quarter 2013 revised do to a retirement in March 2013 and not noticed until July 203. CR-GGN-2013-4296 written to address issue. This change does not affect the color of the indicator (green).

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

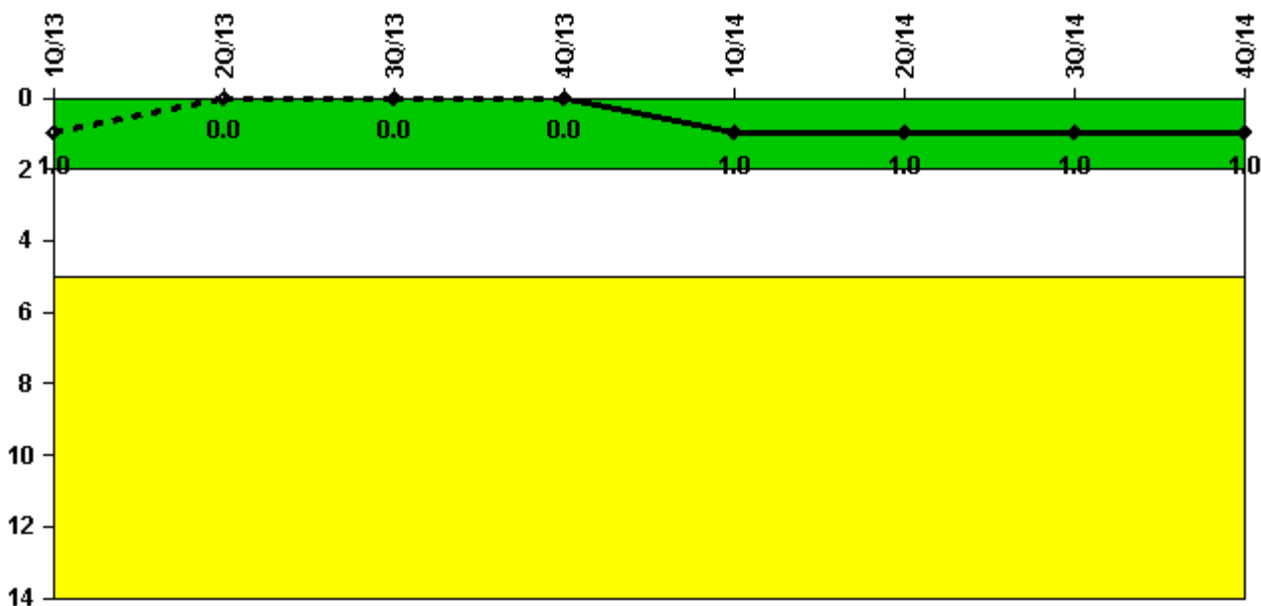
#### Notes

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

Licensee Comments:

2Q/13: In June, one siren is in an inaccessible area (area uninhabited due to river level) and is without AC power.

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

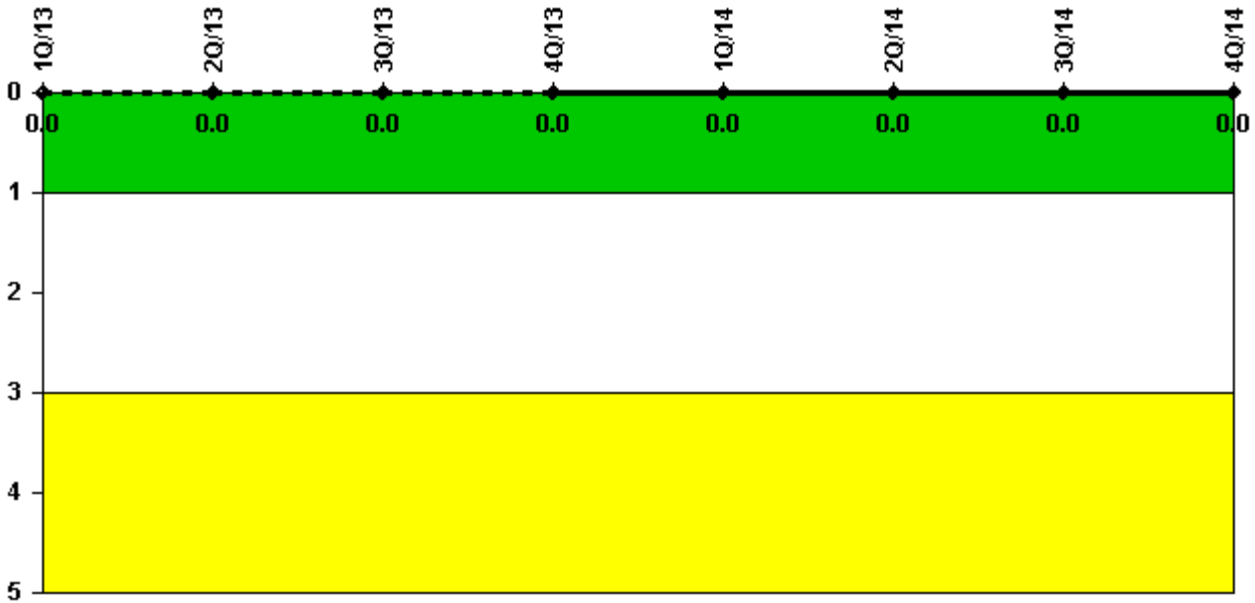
#### Notes

Occupational Exposure Control Effectiveness	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
High radiation area occurrences	0	0	0	0	1	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>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</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	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
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: February 3, 2015*