

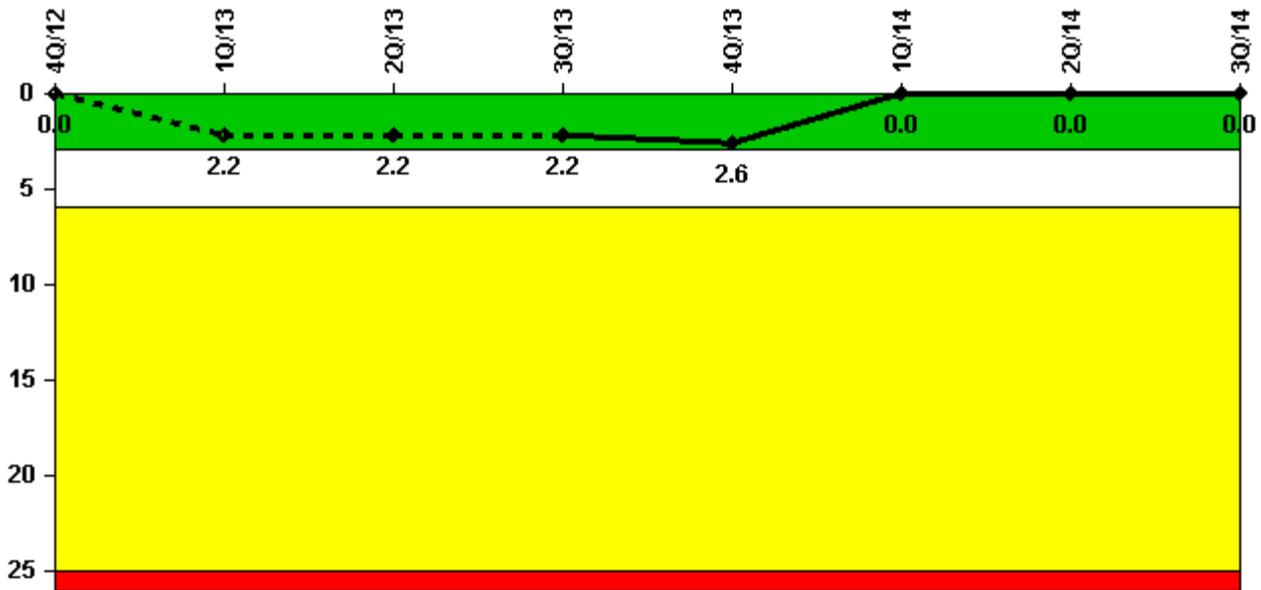
## South Texas 2

### 3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

#### Unplanned Scrams per 7000 Critical Hrs



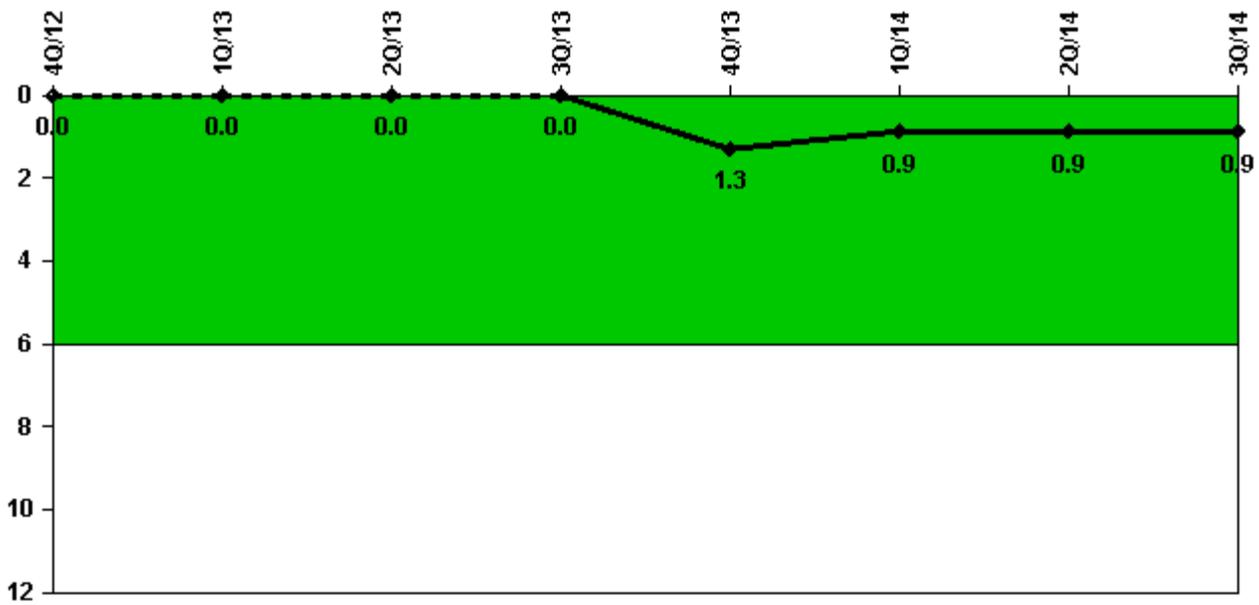
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

#### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned scrams	0	2.0	0	0	0	0	0	0
Critical hours	2209.0	124.8	1729.5	2208.0	1379.8	2159.0	2184.0	2208.0
<b>Indicator value</b>	<b>0</b>	<b>2.2</b>	<b>2.2</b>	<b>2.2</b>	<b>2.6</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



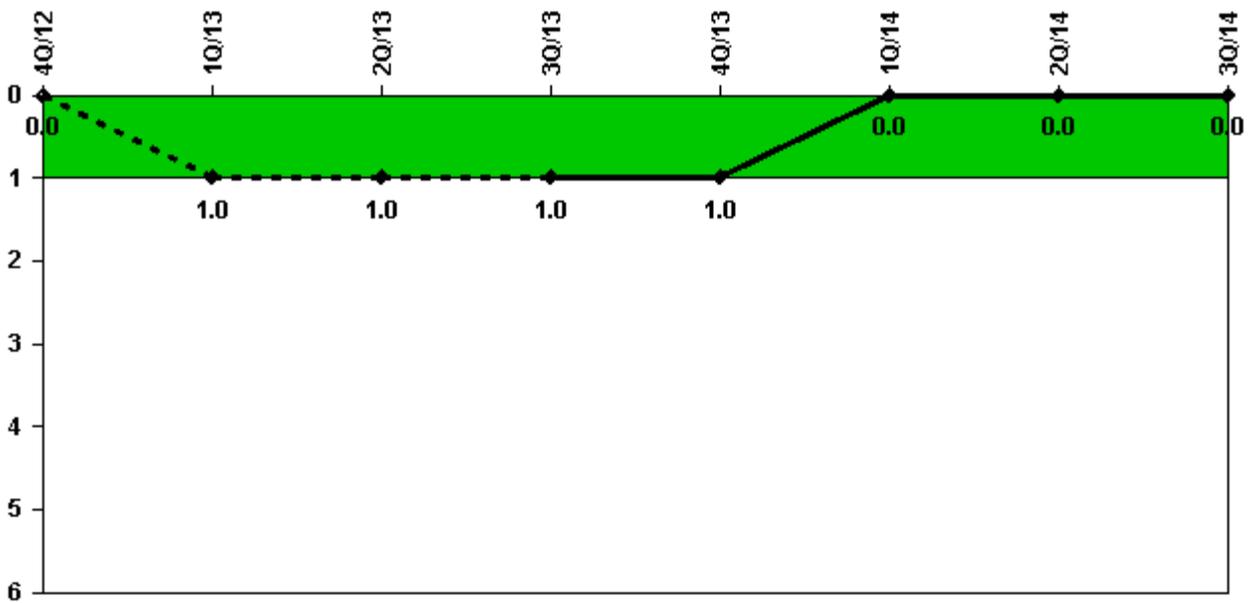
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	124.8	1729.5	2208.0	1379.8	2159.0	2184.0	2208.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.3</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>

Licensee Comments: none

### Unplanned Scrams with Complications



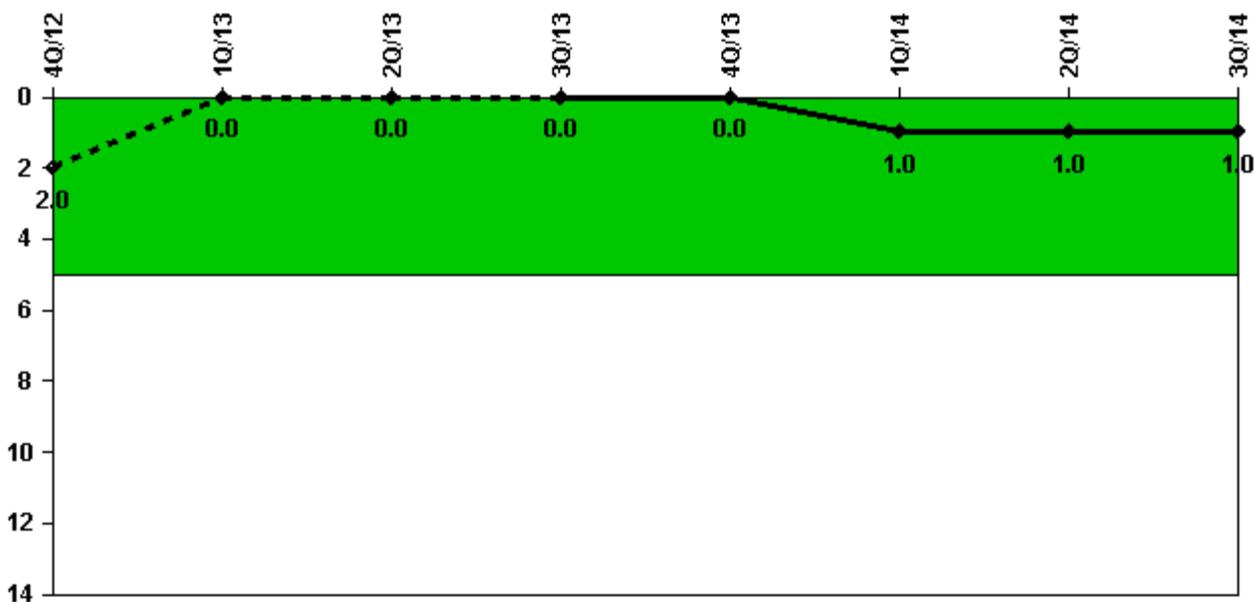
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Scrams with complications	0	1.0	0	0	0	0	0	0
Indicator value	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

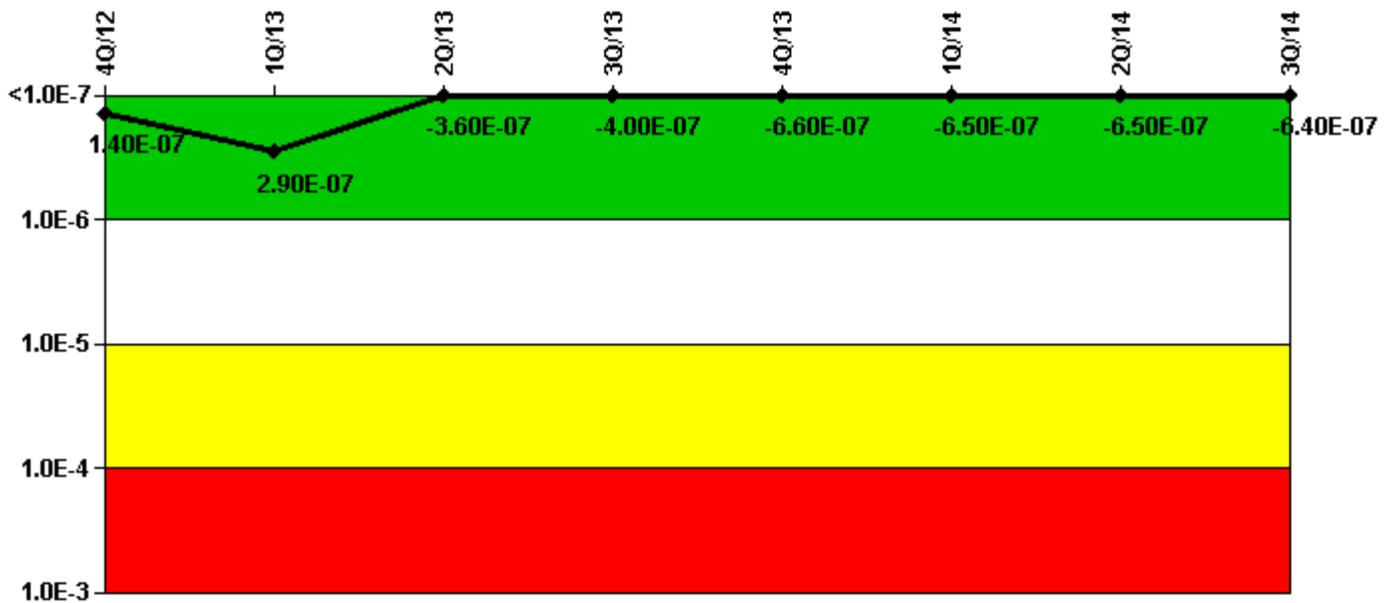
#### Notes

Safety System Functional Failures (PWR)	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Safety System Functional Failures	0	0	0	0	0	1	0	0
<b>Indicator value</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>

Licensee Comments:

1Q/14: LER Unit 2 2014-001-00, Standy Diesel 23 Cooling Water Leak

### 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/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI ( $\Delta$ CDF)	5.11E-07	6.55E-07	4.14E-07	3.68E-07	1.02E-07	1.02E-07	9.96E-08	9.82E-08
URI ( $\Delta$ CDF)	-3.67E-07	-3.66E-07	-7.72E-07	-7.67E-07	-7.59E-07	-7.53E-07	-7.47E-07	-7.42E-07
PLE	NO							
Indicator value	1.40E-07	2.90E-07	-3.60E-07	-4.00E-07	-6.60E-07	-6.50E-07	-6.50E-07	-6.40E-07

#### Licensee Comments:

3Q/14: Planned unavailable hours corrected for May 2014 for EDG 23. This did not change the color of the indicator. CR 14-16801

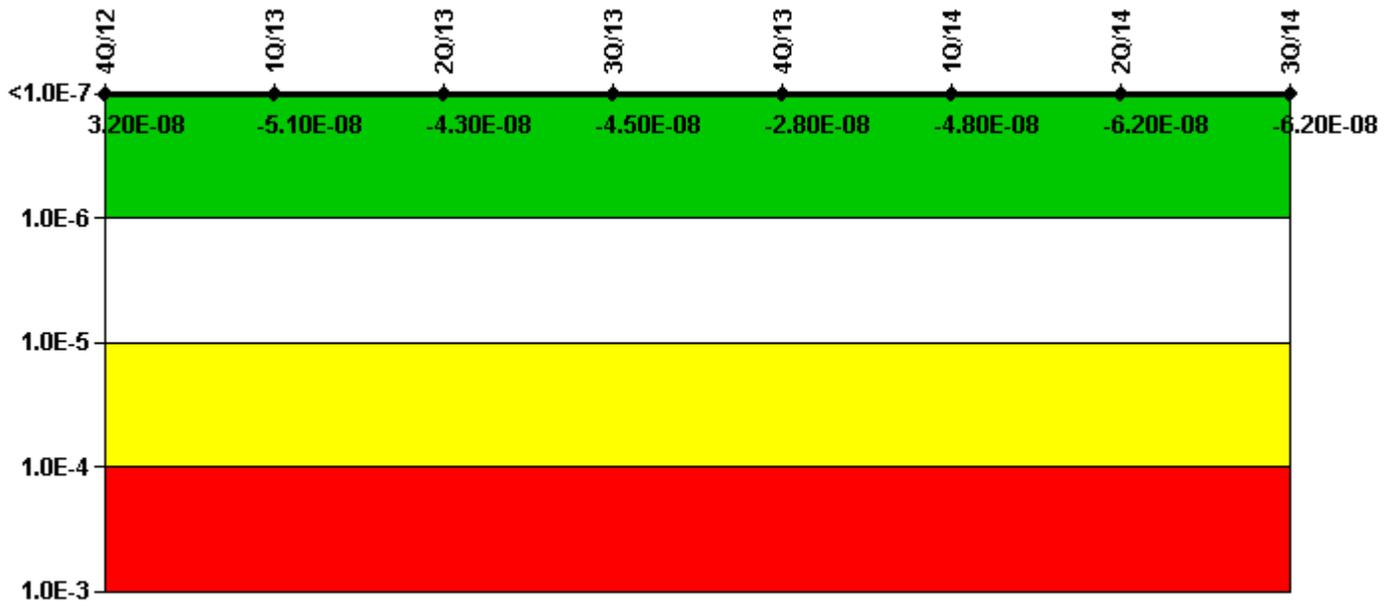
4Q/13: Changed PRA Parameter(s).

3Q/13: EAC FV values changed due to revision of PRA-12-012 Rev. 1. These will be effective 4Q13. (CR 13-10480)

2Q/13: Changed PRA Parameter(s). PRA co-efficients were revised due to PRA Model Revision 7.2 approved 1Q13.

1Q/13: The Planned UA Baseline coefficient for EDG A (DG 21 Unit 2) was updated to remove unavailable hours related to 5 year preventive maintenance. In addition, the MSPI bases document was revised to reflect this change. This change will be effective 2Q13. No UA reported in 1Q13 for Unit 2 MSPI systems due to reactor trip and forced outage starting in January 2013 and spanning 1Q13.

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



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

#### Notes

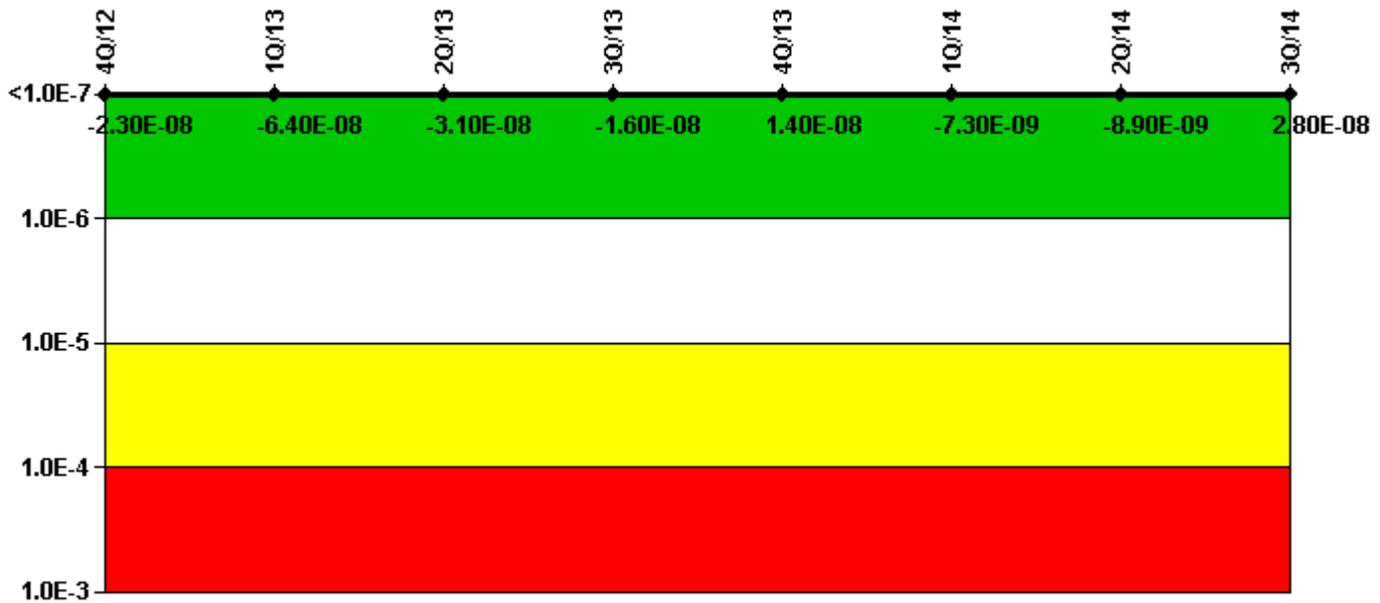
Mitigating Systems Performance Index, High Pressure Injection System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI ( $\Delta$ CDF)	4.36E-08	-3.97E-08	-1.75E-08	-1.92E-08	-2.76E-09	-2.25E-08	-3.65E-08	-3.65E-08
URI ( $\Delta$ CDF)	-1.16E-08	-1.16E-08	-2.53E-08	-2.53E-08	-2.53E-08	-2.53E-08	-2.53E-08	-2.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>3.20E-08</b>	<b>-5.10E-08</b>	<b>-4.30E-08</b>	<b>-4.50E-08</b>	<b>-2.80E-08</b>	<b>-4.80E-08</b>	<b>-6.20E-08</b>	<b>-6.20E-08</b>

#### Licensee Comments:

2Q/13: Changed PRA Parameter(s). PRA co-efficients were revised due to PRA Model Revision 7.2 approved 1Q13.

1Q/13: No UA reported in 1Q13 for Unit 2 MSPI systems due to reactor trip and forced outage starting in January 2013 and spanning 1Q13.

### 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/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI ( $\Delta$ CDF)	6.01E-08	2.03E-08	2.87E-08	4.35E-08	7.17E-08	5.07E-08	4.90E-08	8.61E-08
URI ( $\Delta$ CDF)	-8.31E-08	-8.40E-08	-5.92E-08	-5.92E-08	-5.79E-08	-5.79E-08	-5.79E-08	-5.79E-08
PLE	NO							
Indicator value	-2.30E-08	-6.40E-08	-3.10E-08	-1.60E-08	1.40E-08	-7.30E-09	-8.90E-09	2.80E-08

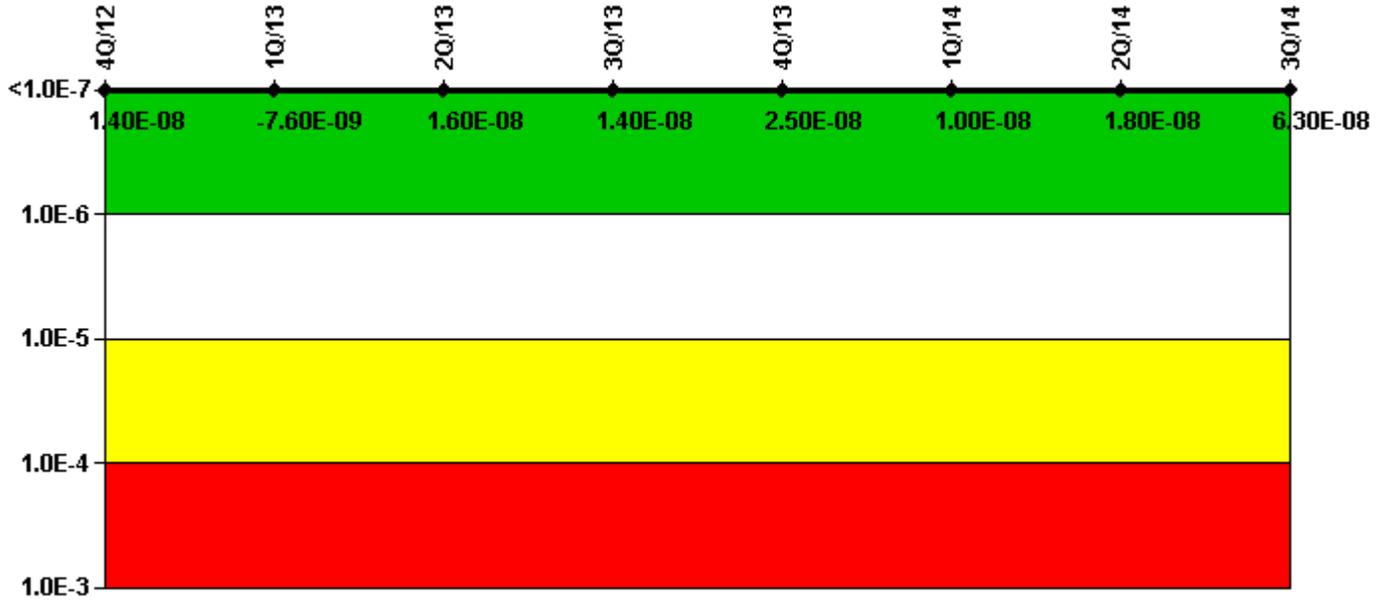
Licensee Comments:

2Q/13: Changed PRA Parameter(s). PRA co-efficients were revised due to PRA Model Revision 7.2 approved 1Q13.

1Q/13: Changed PRA Parameter(s). PRA URPCr coefficient for 3S142MPA04 (AFW 24) data error from 4Q09 was identified. Corrected parameter from 3.37E-02 to 3.37E-03 effective 1Q10. This error had no effect on the color of the indicator. Reference CR 13-623. No UA reported in 1Q13 for Unit 2 MSPI systems due to reactor trip and forced outage starting in January 2013 and spanning 1Q13.

4Q/12: Changed PRA Parameter(s).

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



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

#### Notes

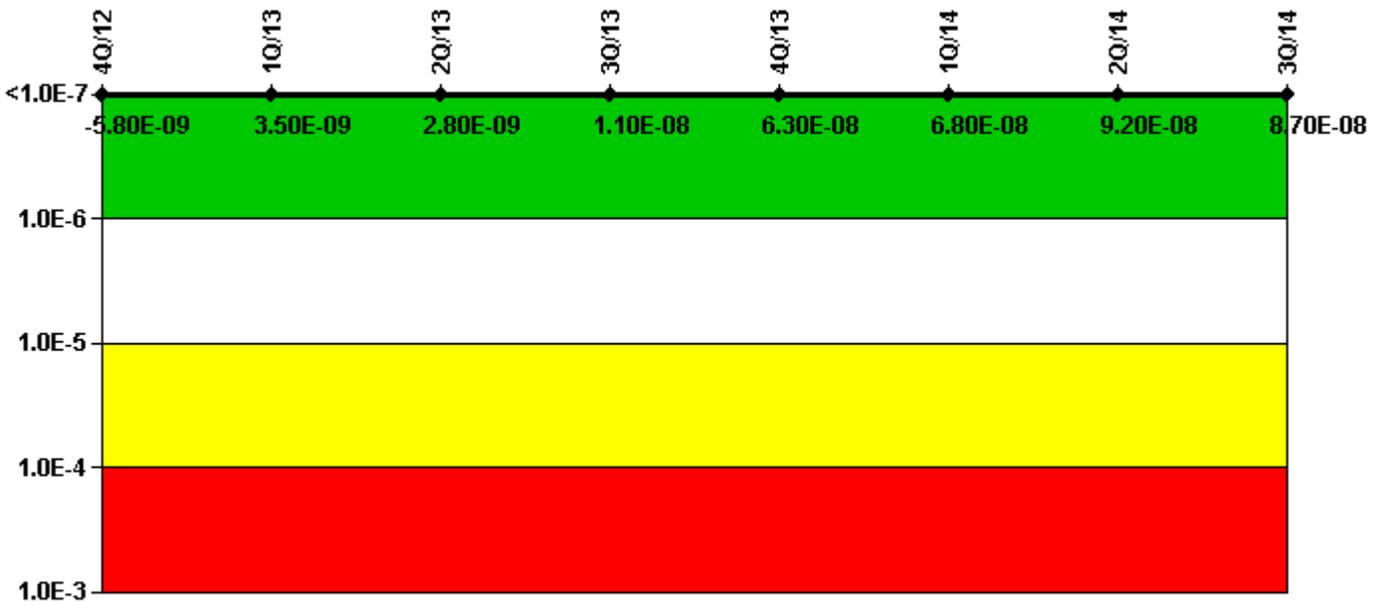
Mitigating Systems Performance Index, Residual Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI ( $\Delta$ CDF)	1.64E-08	-5.40E-09	2.75E-08	2.53E-08	3.60E-08	2.17E-08	2.95E-08	7.45E-08
URI ( $\Delta$ CDF)	-2.25E-09	-2.25E-09	-1.14E-08	-1.14E-08	-1.14E-08	-1.14E-08	-1.14E-08	-1.14E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>1.40E-08</b>	<b>-7.60E-09</b>	<b>1.60E-08</b>	<b>1.40E-08</b>	<b>2.50E-08</b>	<b>1.00E-08</b>	<b>1.80E-08</b>	<b>6.30E-08</b>

Licensee Comments:

2Q/13: Changed PRA Parameter(s). PRA co-efficients were revised due to PRA Model Revision 7.2 approved 1Q13.

1Q/13: No UA reported in 1Q13 for Unit 2 MSPI systems due to reactor trip and forced outage starting in January 2013 and spanning 1Q13.

### 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/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI ( $\Delta$ CDF)	3.38E-08	4.34E-08	4.13E-08	4.96E-08	1.01E-07	1.06E-07	1.30E-07	1.26E-07
URI ( $\Delta$ CDF)	-3.96E-08	-3.99E-08	-3.85E-08	-3.85E-08	-3.84E-08	-3.84E-08	-3.84E-08	-3.84E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-5.80E-09</b>	<b>3.50E-09</b>	<b>2.80E-09</b>	<b>1.10E-08</b>	<b>6.30E-08</b>	<b>6.80E-08</b>	<b>9.20E-08</b>	<b>8.70E-08</b>

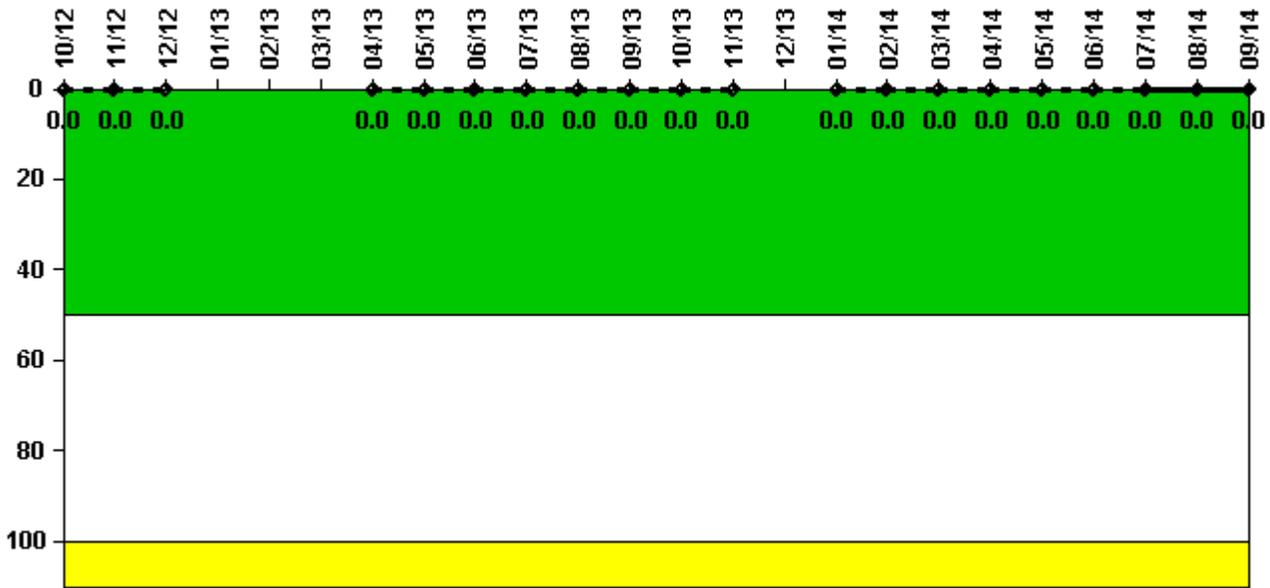
#### Licensee Comments:

2Q/14: Revision 17 MSPI Bases Document - Revised Cooling Water System diagram to reflect removal of lube water strainers and supply line to pump bearings (CR 12-91-32)

2Q/13: Changed PRA Parameter(s). PRA co-efficients were revised due to PRA Model Revision 7.2 approved 1Q13.

1Q/13: No UA reported in 1Q13 for Unit 2 MSPI systems due to reactor trip and forced outage starting in January 2013 and spanning 1Q13.

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum activity	0.000071	0.000073	0.000073	N/A	N/A	N/A	0.000064	0.000082	0.000076	0.000081	0.000094	0.000087
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	N/A	N/A	N/A	0	0	0	0	0	0

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	0.000096	0.000082	N/A	0.000041	0.000041	0.000038	0.000041	0.000044	0.000047	0.000041	0.000046	0.000052
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	N/A	0	0	0	0	0	0	0	0	0

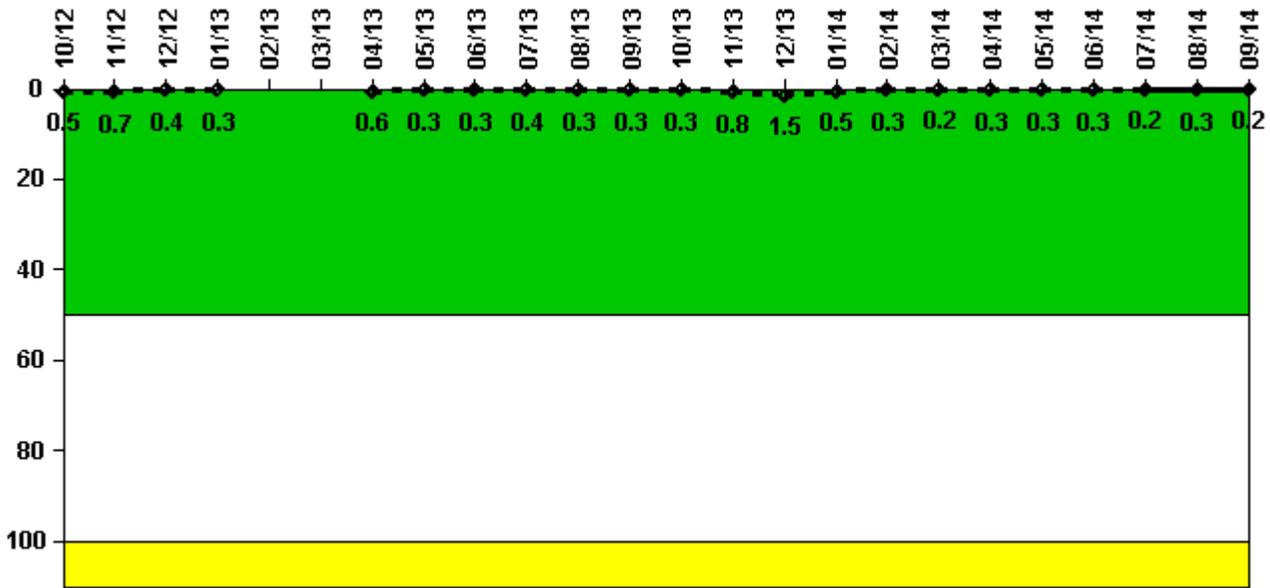
Licensee Comments:

12/13: December Unit 2 I-131 steady state data not available due to plant conditions.

3/13: No steady state values obtained due to two reactor trips in January 2013 that resulted in forced outage

spanning 1Q13.

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

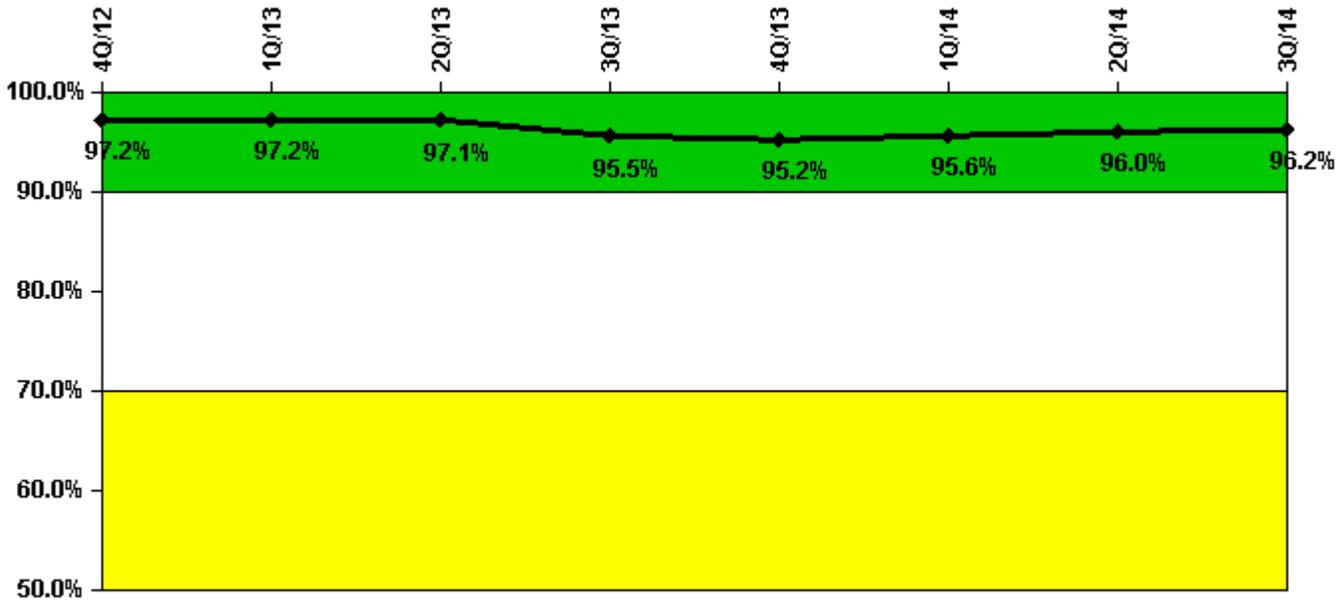
### Notes

Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	0.051	0.065	0.040	0.031	N/A	N/A	0.059	0.031	0.034	0.040	0.032	0.031
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>0.5</b>	<b>0.7</b>	<b>0.4</b>	<b>0.3</b>	<b>N/A</b>	<b>N/A</b>	<b>0.6</b>	<b>0.3</b>	<b>0.3</b>	<b>0.4</b>	<b>0.3</b>	<b>0.3</b>
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	0.030	0.075	0.154	0.050	0.026	0.018	0.034	0.027	0.025	0.023	0.026	0.023
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>0.3</b>	<b>0.8</b>	<b>1.5</b>	<b>0.5</b>	<b>0.3</b>	<b>0.2</b>	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<b>0.2</b>	<b>0.3</b>	<b>0.2</b>

Licensee Comments:

3/13: No values obtained for most of January and the remainder of 1Q13 due to two reactor trips in January 2013 that resulted in forced outage spanning 1Q13.

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful opportunities	28.0	6.0	3.0	77.0	7.0	37.0	177.0	69.0
Total opportunities	28.0	6.0	3.0	82.0	8.0	40.0	183.0	70.0
Indicator value	97.2%	97.2%	97.1%	95.5%	95.2%	95.6%	96.0%	96.2%

#### Licensee Comments:

3Q/14: Corrected data from 1Q14 from 38 to 37 successful drill, exercise and event opportunities. It was determined that a performance indicator for a drill classification was unsuccessful. CR 14-12671. This did not affect the color of the indicator.

1Q/14: Corrected 3Q13 DEP total opportunities from 86 to 82 and DEP total success from 81 to 77 due to a missed calculation of the Protective Action Recommendation opportunities/successes (CR 14-7530). This change did not affect the color of the indicator.

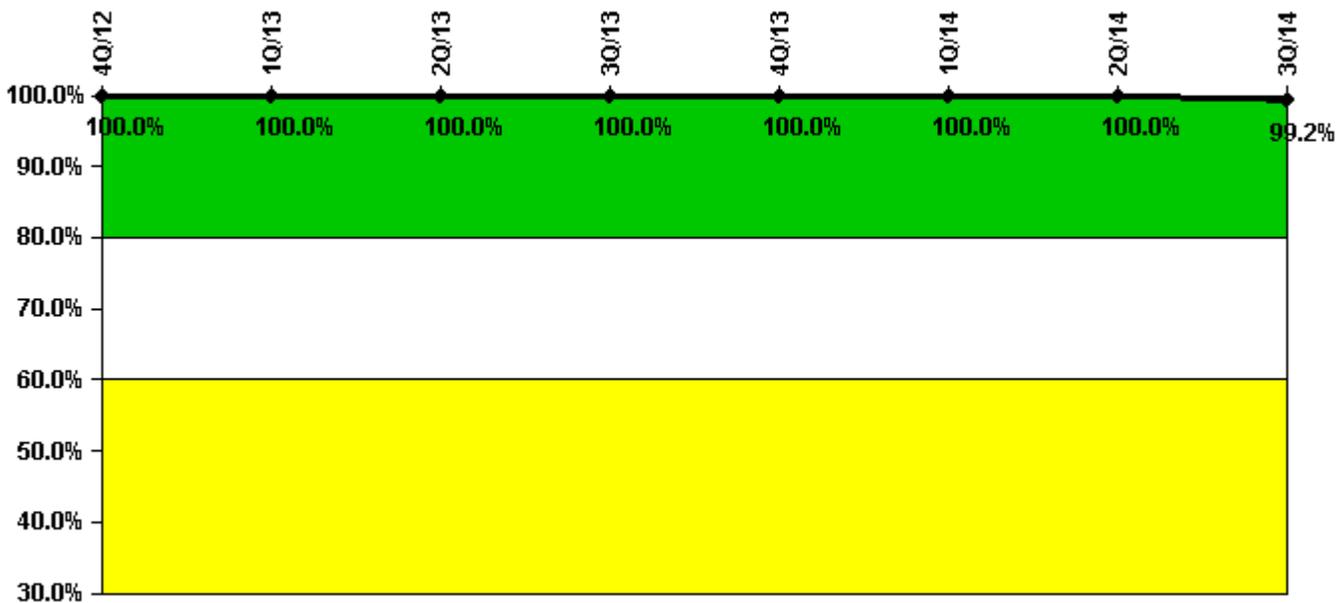
1Q/14: Corrected 3Q13 DEP total opportunities from 86 to 82 and DEP total success from 81 to 77 due to a missed calculation of the Protective Action Recommendation opportunities/successes (CR 14-7530). This change did not affect the color of the indicator.

3Q/13: Corrected 3Q13 DEP total opportunities from 86 to 82 and DEP total success from 81 to 77 due to a missed calculation of the Protective Action Recommendation opportunities/successes (CR 14-7530). This change

did not affect the color of the indicator.

4Q/12: Corrected Successful opportunities in Q3/2013 due to missed emergency classification in September 2012. (CR 13-650)

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Participating Key personnel	123.0	126.0	120.0	119.0	117.0	124.0	123.0	120.0
Total Key personnel	123.0	126.0	120.0	119.0	117.0	124.0	123.0	121.0
<b>Indicator value</b>	<b>100.0%</b>	<b>99.2%</b>						

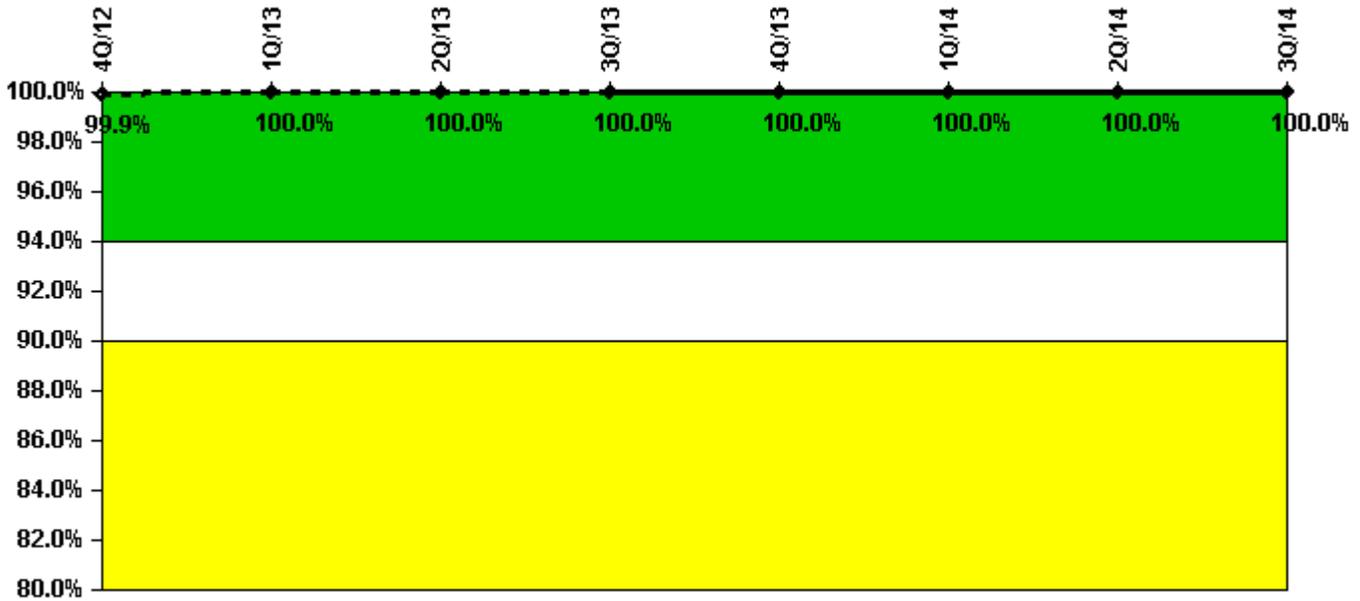
Licensee Comments:

2Q/13: Correction to Total counted and participated numbers for 1Q11, 2Q11, 3Q11, 4Q11, 1Q12, 2Q12, 3Q12, 4Q12. The changes did not affect the color of the indicator. CR 13-5434

4Q/12: Corrected total Participating key personnel in Q3/2012. Failed to account for Shift Communicator who missed a PI opportunity in the previous 8 quarters. (CR 13-650)

4Q/12: Corrected total Participating key personnel in Q3/2012. Failed to account for Shift Communicator who missed a PI opportunity in the previous 8 quarters. (CR 13-650)

### Alert & Notification System



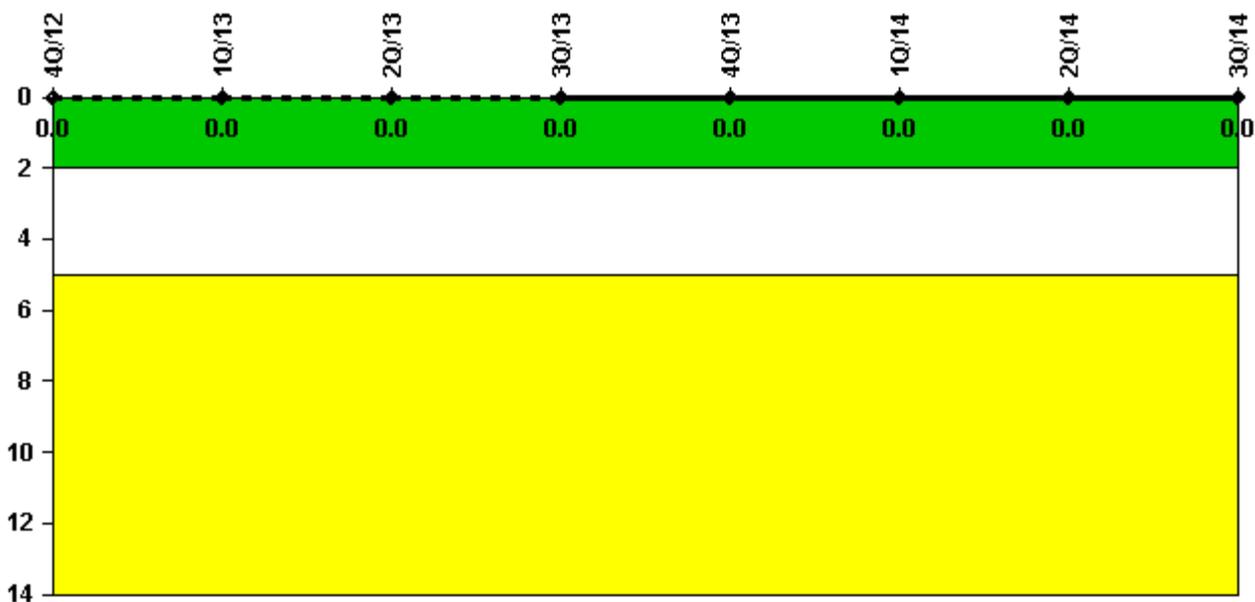
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful siren-tests	224	288	224	256	224	288	672	256
Total sirens-tests	224	288	224	256	224	288	672	256
<b>Indicator value</b>	<b>99.9%</b>	<b>100.0%</b>						

Licensee Comments: none

### Occupational Exposure Control Effectiveness



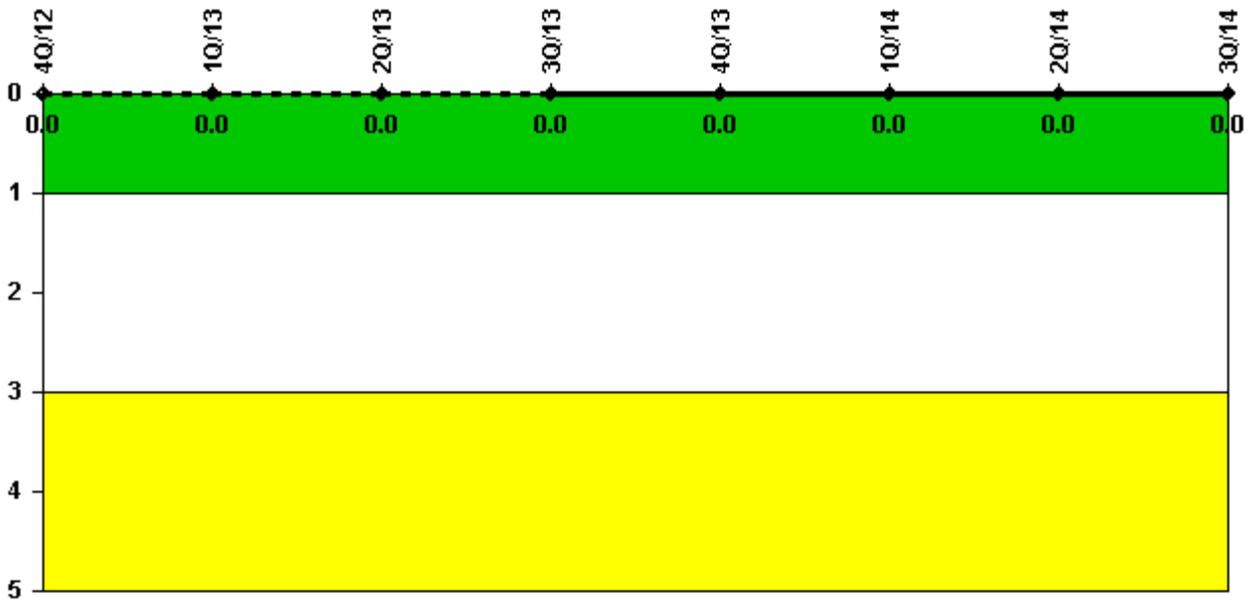
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
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	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
<b>Indicator value</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: November 3, 2014*