

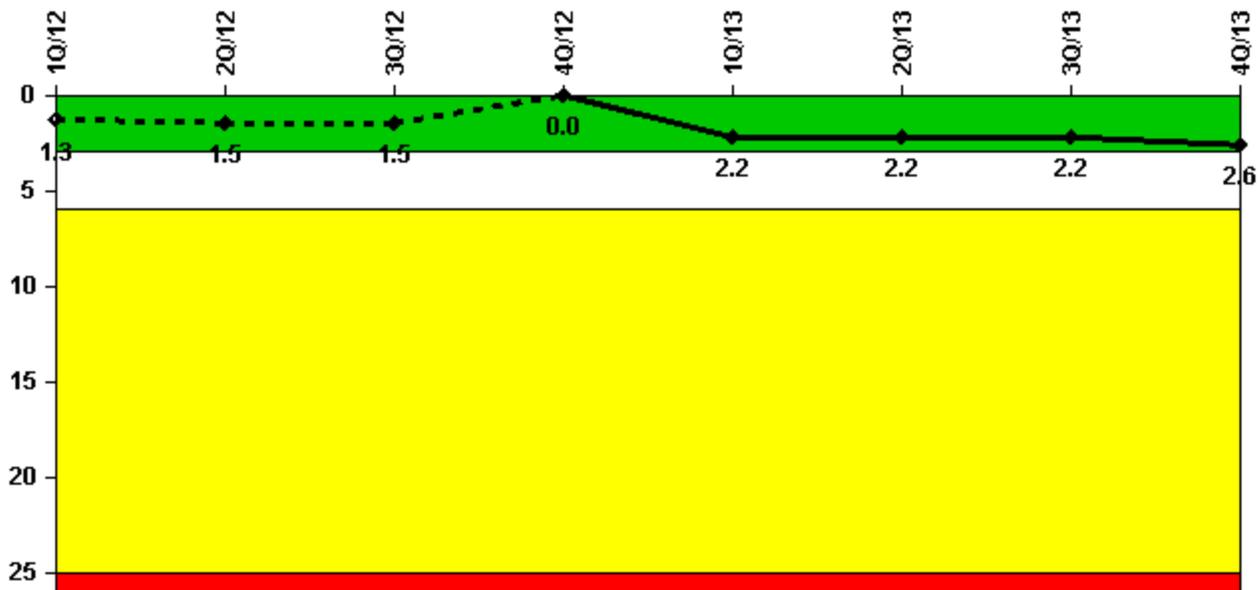
## South Texas 2

### 4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

#### Unplanned Scrams per 7000 Critical Hrs



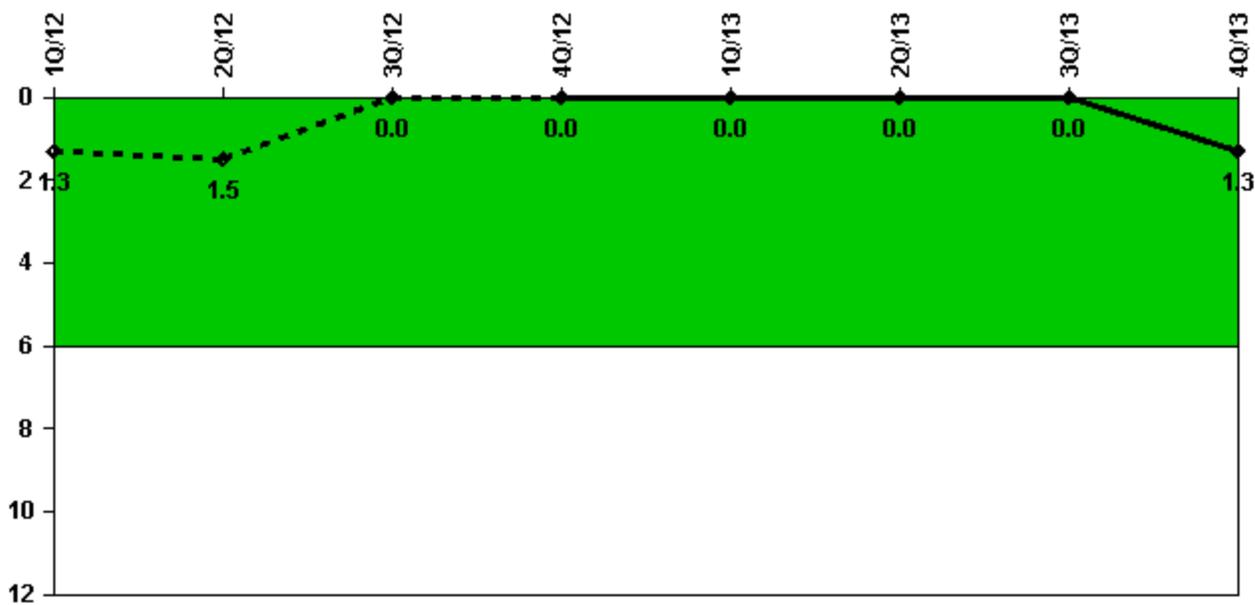
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

#### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned scrams	0	0	0	0	2.0	0	0	0
Critical hours	0	1693.6	2208.0	2209.0	124.8	1729.5	2208.0	1379.8
<b>Indicator value</b>	<b>1.3</b>	<b>1.5</b>	<b>1.5</b>	<b>0</b>	<b>2.2</b>	<b>2.2</b>	<b>2.2</b>	<b>2.6</b>

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



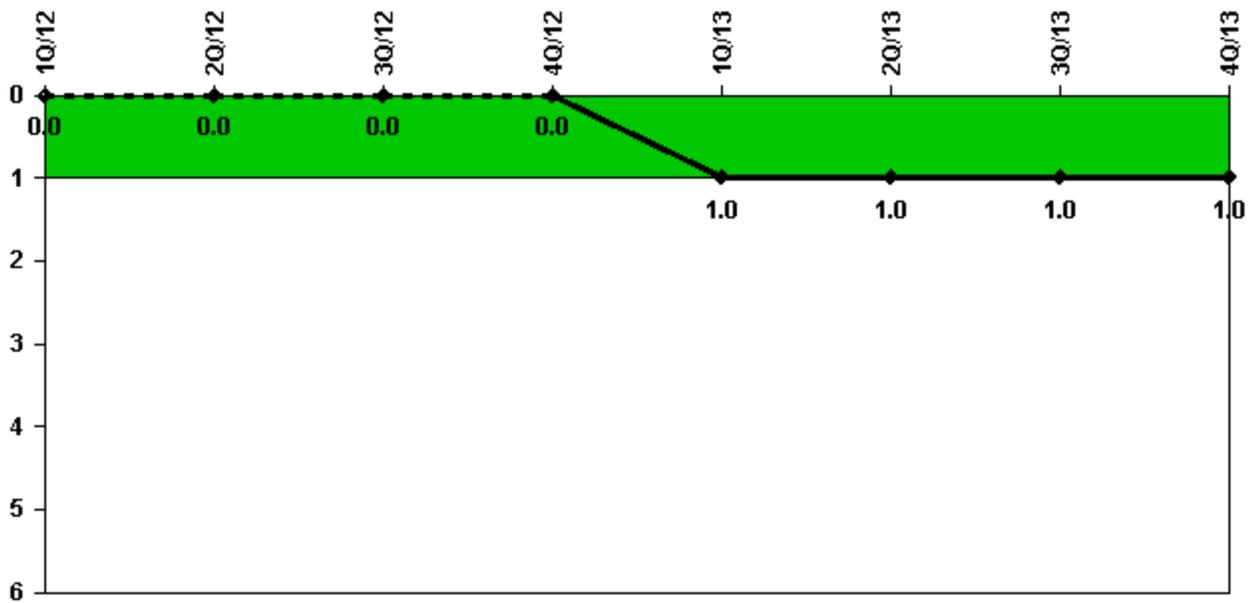
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	0	1693.6	2208.0	2209.0	124.8	1729.5	2208.0	1379.8
<b>Indicator value</b>	<b>1.3</b>	<b>1.5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.3</b>

Licensee Comments: none

### Unplanned Scrams with Complications



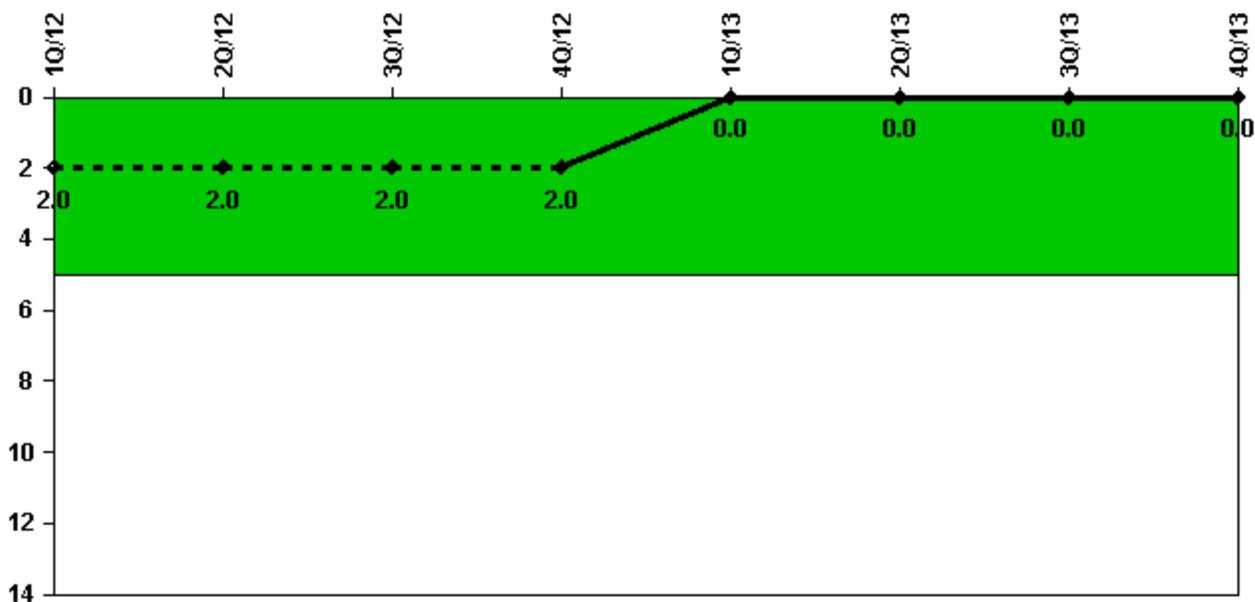
Thresholds: White > 1.0

#### Notes

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

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

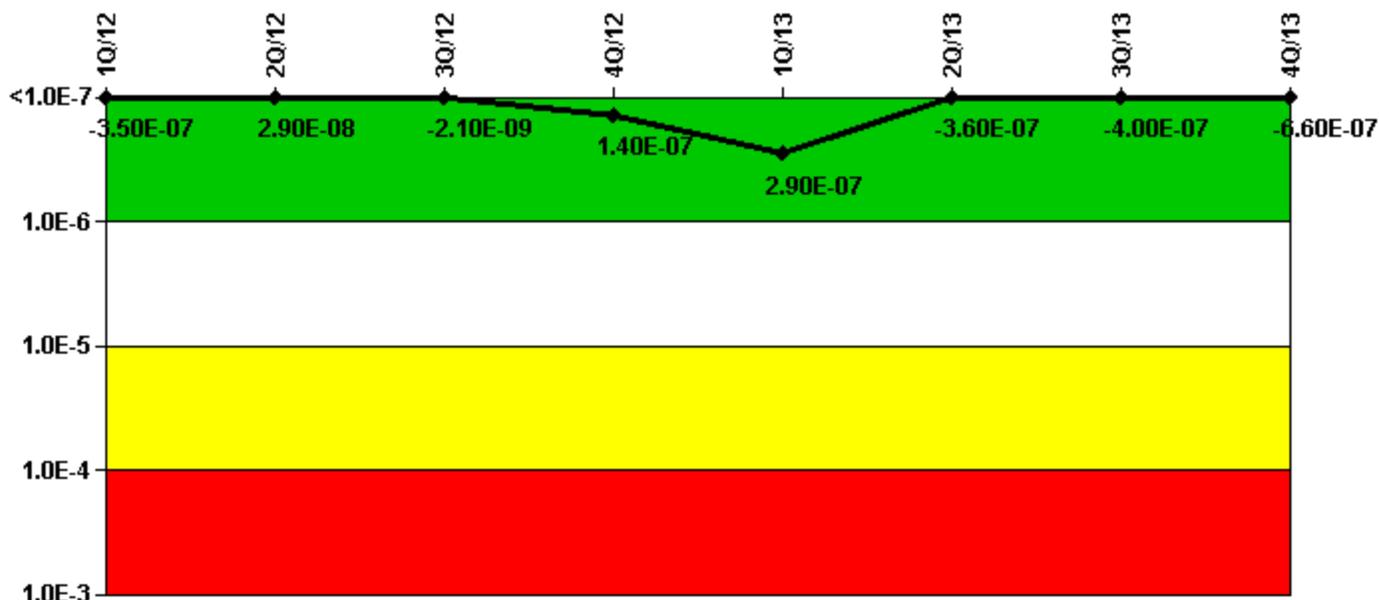
#### Notes

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

Licensee Comments:

1Q/12: Investigation determined in Nov 2011 (2RE15) and also April 2010 (2RE14) U2 transitioned from Mode 4 to Mode 3 with both channels of SSPS generated turbine trip signals defeated. Reported in LER-2-2011-3 - U2 mode change with turbine trip disabled.

### 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/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	2.53E-08	4.03E-07	3.69E-07	5.11E-07	6.55E-07	4.14E-07	3.68E-07	1.02E-07
URI (ΔCDF)	-3.77E-07	-3.74E-07	-3.71E-07	-3.67E-07	-3.66E-07	-7.72E-07	-7.67E-07	-7.59E-07
PLE	NO							
Indicator value	-3.50E-07	2.90E-08	-2.10E-09	1.40E-07	2.90E-07	-3.60E-07	-4.00E-07	-6.60E-07

Licensee Comments:

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)

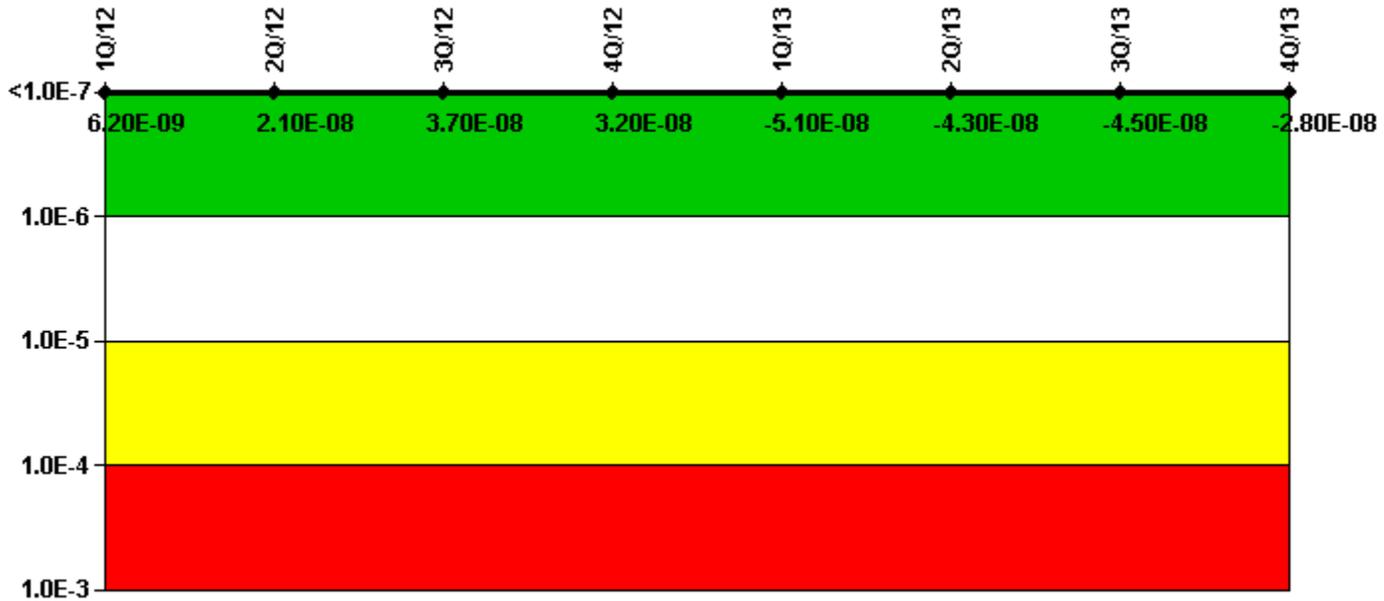
2Q/13: Changed PRA Parameter(s). PRA co-efficients were revised due to PRA Model Revision 7.2 approved 1Q13.

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.

1Q/12: 1Q12: Changes to the MSPI Bases Document for MSPI coefficients should have been made during 4Q11 in accordance with FAQ 480. CR 12-404 was written to ensure that FAQ 480 was implemented. The EDG estimated

run hours were updated for U1 & U2 EDGs as required by FAQ and the MSPI Bases Document has now been updated. 1Q12 - Unit 2 was in a Forced Outage (F1102) January - March 2012.

### 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/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	1.78E-08	3.31E-08	4.88E-08	4.36E-08	-3.97E-08	-1.75E-08	-1.92E-08	-2.76E-09
URI (ΔCDF)	-1.16E-08	-1.16E-08	-1.16E-08	-1.16E-08	-1.16E-08	-2.53E-08	-2.53E-08	-2.53E-08
PLE	NO							
Indicator value	6.20E-09	2.10E-08	3.70E-08	3.20E-08	-5.10E-08	-4.30E-08	-4.50E-08	-2.80E-08

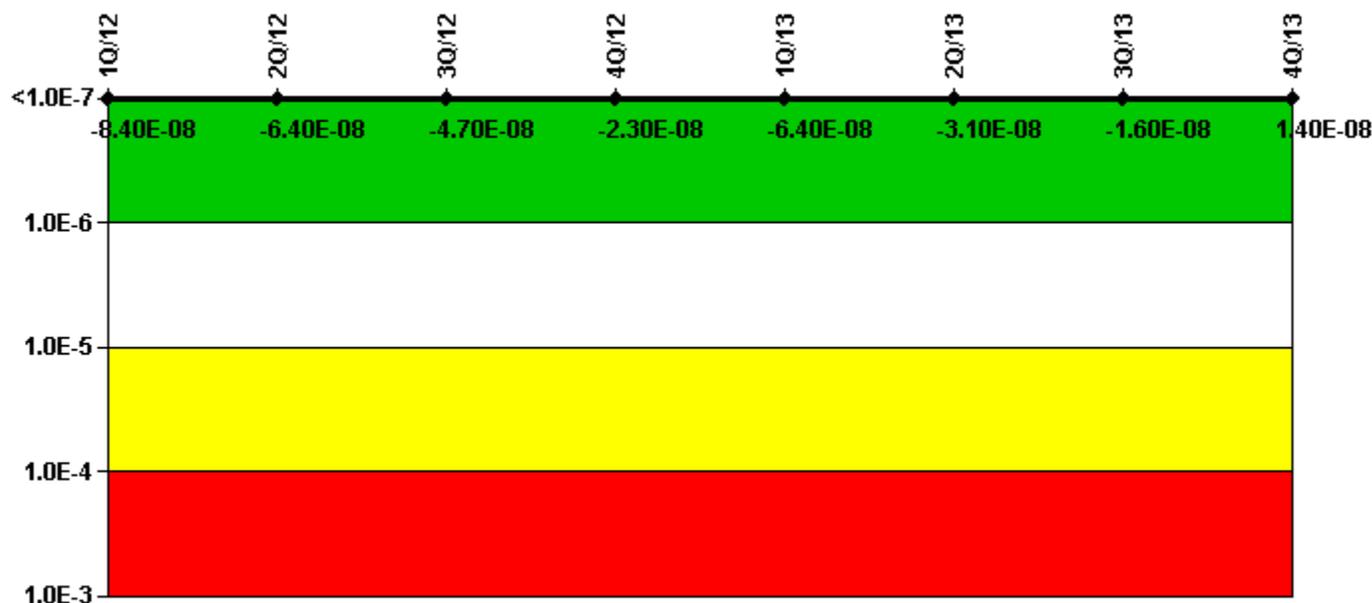
Licensee Comments:

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

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

1Q/12: 1Q12 - Unit 2 was in a Forced Outage (F1102) January - March 2012.

### 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/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI ( $\Delta$ CDF)	1.62E-09	2.08E-08	3.66E-08	6.01E-08	2.03E-08	2.87E-08	4.35E-08	7.17E-08
URI ( $\Delta$ CDF)	-8.54E-08	-8.47E-08	-8.39E-08	-8.31E-08	-8.40E-08	-5.92E-08	-5.92E-08	-5.79E-08
PLE	NO							
Indicator value	-8.40E-08	-6.40E-08	-4.70E-08	-2.30E-08	-6.40E-08	-3.10E-08	-1.60E-08	1.40E-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).

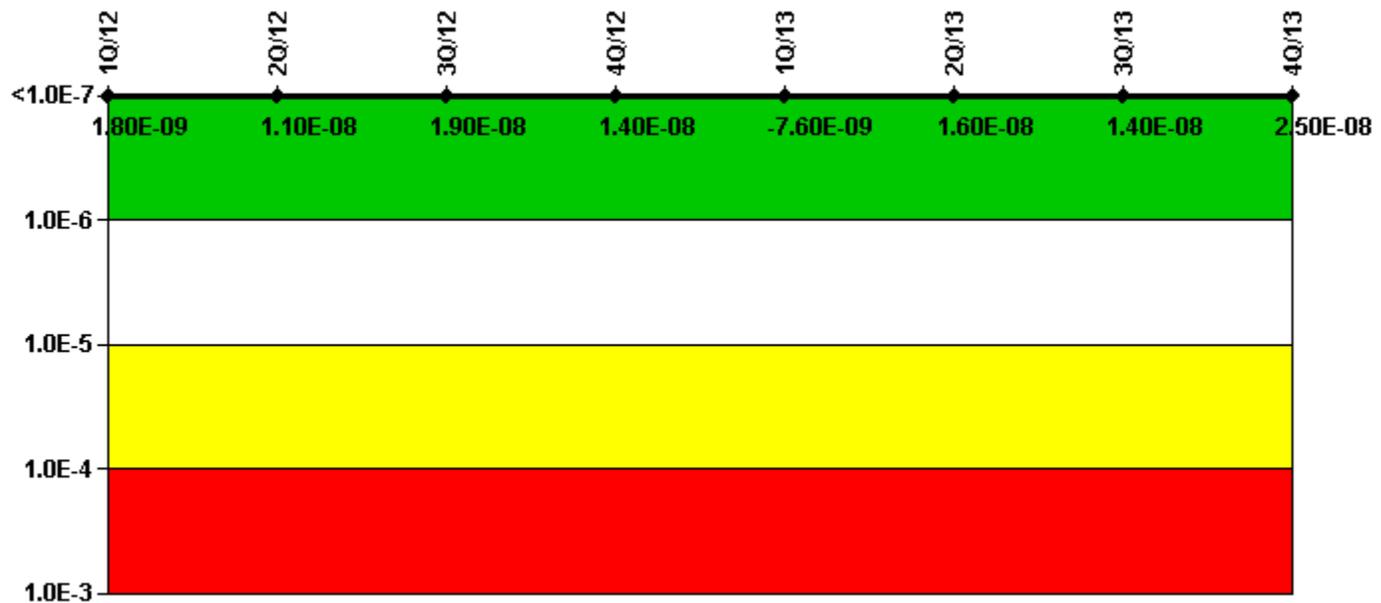
3Q/12: Changed PRA Parameter(s).

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s). 1Q12 - Unit 2 was in a Forced Outage (F1102) January - March 2012.

1Q/12: 1Q12 - Unit 2 was in a Forced Outage (F1102) January - March 2012.

### 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/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	4.04E-09	1.35E-08	2.11E-08	1.64E-08	-5.40E-09	2.75E-08	2.53E-08	3.60E-08
URI (ΔCDF)	-2.25E-09	-2.25E-09	-2.25E-09	-2.25E-09	-2.25E-09	-1.14E-08	-1.14E-08	-1.14E-08
PLE	NO							
Indicator value	1.80E-09	1.10E-08	1.90E-08	1.40E-08	-7.60E-09	1.60E-08	1.40E-08	2.50E-08

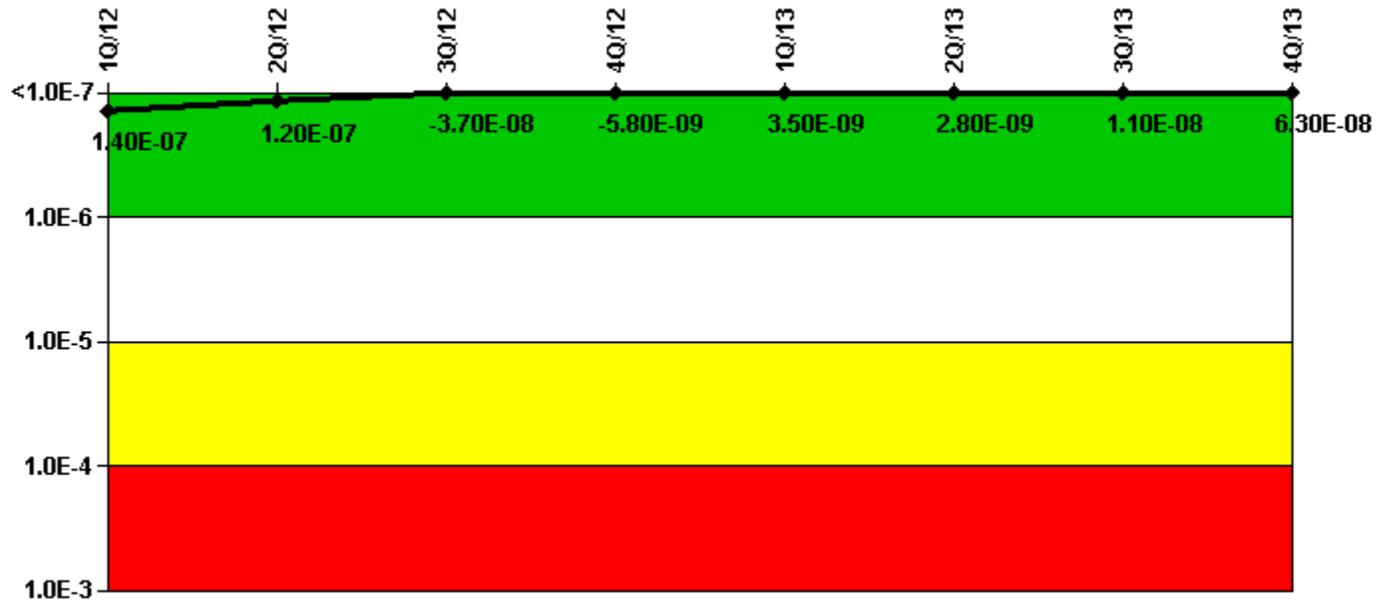
Licensee Comments:

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

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

1Q/12: 1Q12 - Unit 2 was in a Forced Outage (F1102) January - March 2012.

### 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/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	2.66E-08	6.66E-09	2.51E-09	3.38E-08	4.34E-08	4.13E-08	4.96E-08	1.01E-07
URI (ΔCDF)	1.18E-07	1.18E-07	-3.96E-08	-3.96E-08	-3.99E-08	-3.85E-08	-3.85E-08	-3.84E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.40E-07	1.20E-07	-3.70E-08	-5.80E-09	3.50E-09	2.80E-09	1.10E-08	6.30E-08

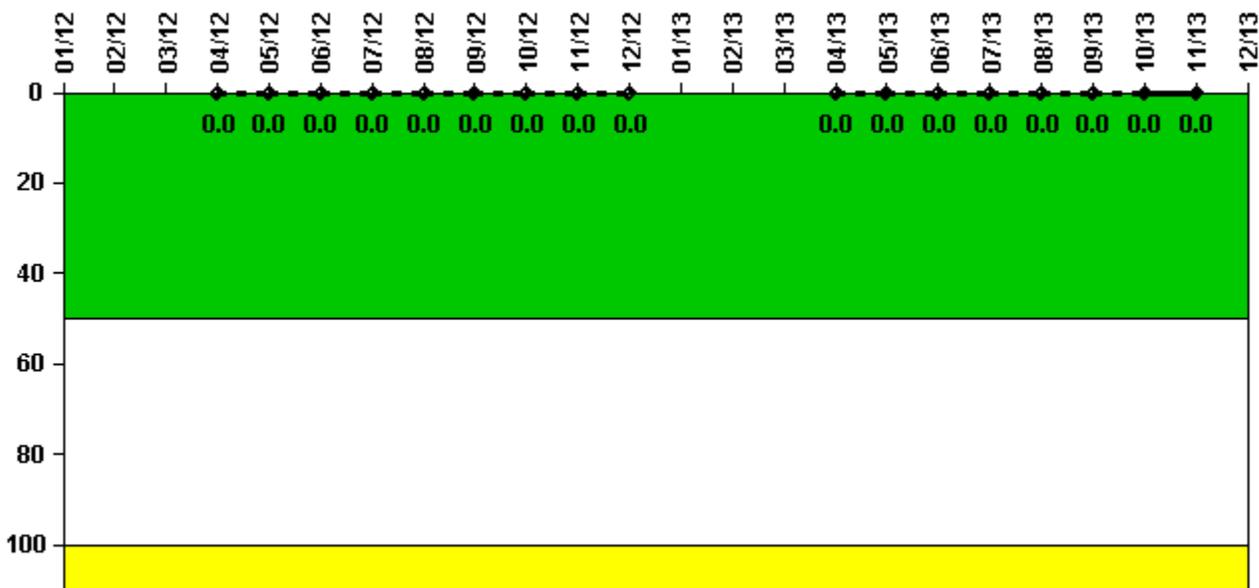
Licensee Comments:

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

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

1Q/12: 1Q12 - Unit 2 was in a Forced Outage (F1102) January - March 2012.

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	N/A	N/A	N/A	0.000041	0.000053	0.000060	0.000054	0.000063	0.000062	0.000071	0.000073	0.000073
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	N/A	N/A	0	0	0	0	0	0	0	0	0

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	N/A	N/A	N/A	0.000064	0.000082	0.000076	0.000081	0.000094	0.000087	0.000096	0.000082	N/A
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	N/A	N/A	0	0	0	0	0	0	0	0	0	N/A
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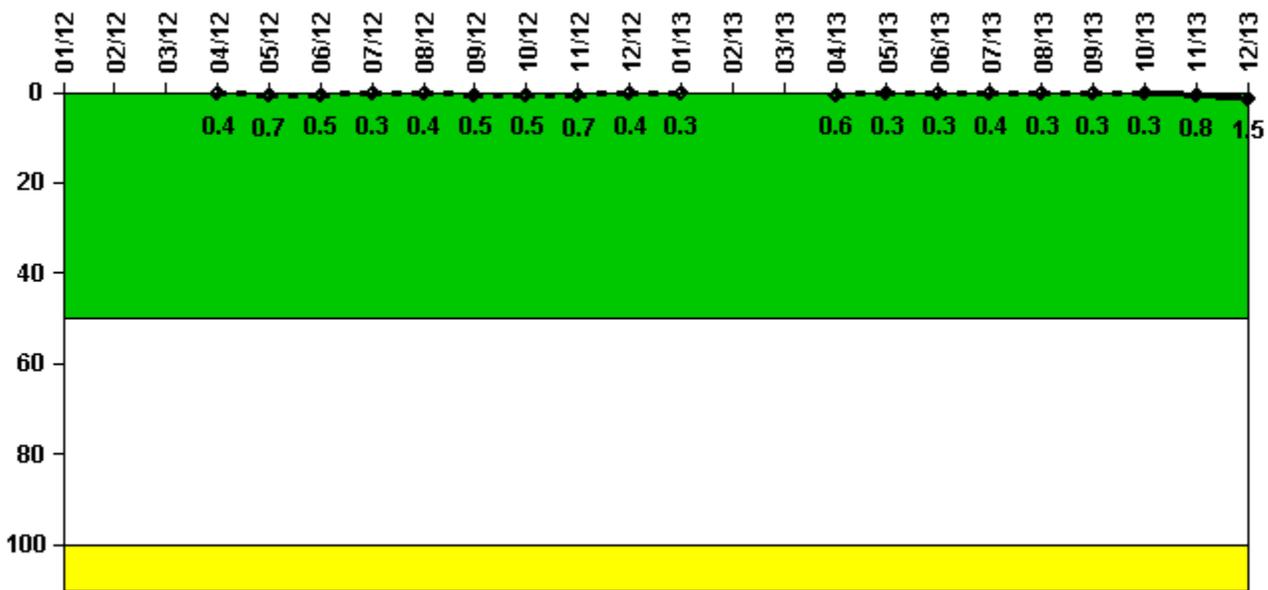
Licensee Comments:

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.

3/12: U2 Rx trip on 11/29/11 due to Main Generator fault CR 11-28753, LER 2-11-002. U2 entered Mode 5 on 11/30/11. U2 remained in Mode 5 in a Forced Outage (F1102) through March 2012, therefore, the RCS Max I-131 Activity surveillance was not required to be performed. Inadvertently placed 0 in the field in December instead of not entering a value. Corrected the data field and status field to reflect NA-Final NA. as specified in NEI 99-02.

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum leakage	N/A	N/A	N/A	0.036	0.071	0.046	0.025	0.036	0.045	0.051	0.065	0.040
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	N/A	N/A	N/A	0.4	0.7	0.5	0.3	0.4	0.5	0.5	0.7	0.4

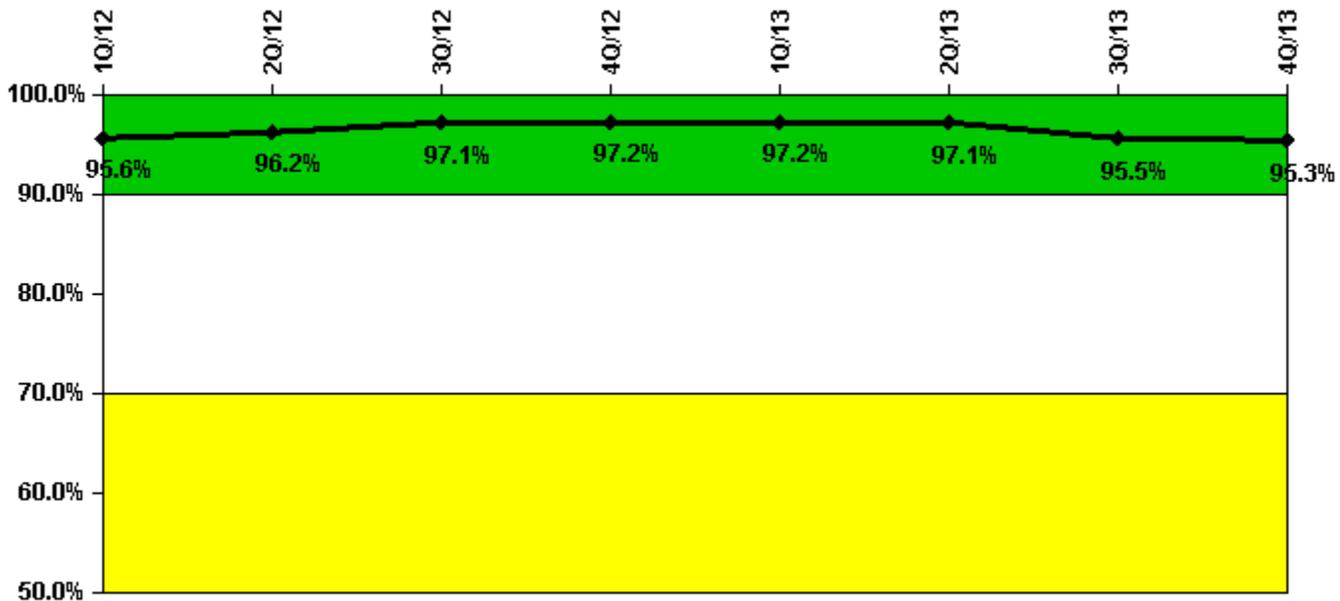
Reactor Coolant System Leakage	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum leakage	0.031	N/A	N/A	0.059	0.031	0.034	0.040	0.032	0.031	0.030	0.075	0.154
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	N/A	N/A	0.6	0.3	0.3	0.4	0.3	0.3	0.3	0.8	1.5

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.

3/12: U2 Rx trip on 11/29/11 due to Main Generator fault CR 11-28753, LER 2-11-002. U2 entered Mode 5 on 11/30/11. U2 remained in Mode 5 in a Forced Outage (F1102) through March 2012, therefore, the RCS Leakage surveillance was not required to be performed. Inadvertently placed 0 in the field in December instead of not entering a value. Corrected the data field and status field to reflect NA-Final NA. as specified in NEI 99-02.

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	16.0	12.0	68.0	28.0	6.0	3.0	81.0	7.0
Total opportunities	19.0	12.0	70.0	28.0	6.0	3.0	86.0	8.0

<b>Indicator value</b>	<b>95.6%</b>	<b>96.2%</b>	<b>97.1%</b>	<b>97.2%</b>	<b>97.2%</b>	<b>97.1%</b>	<b>95.5%</b>	<b>95.3%</b>
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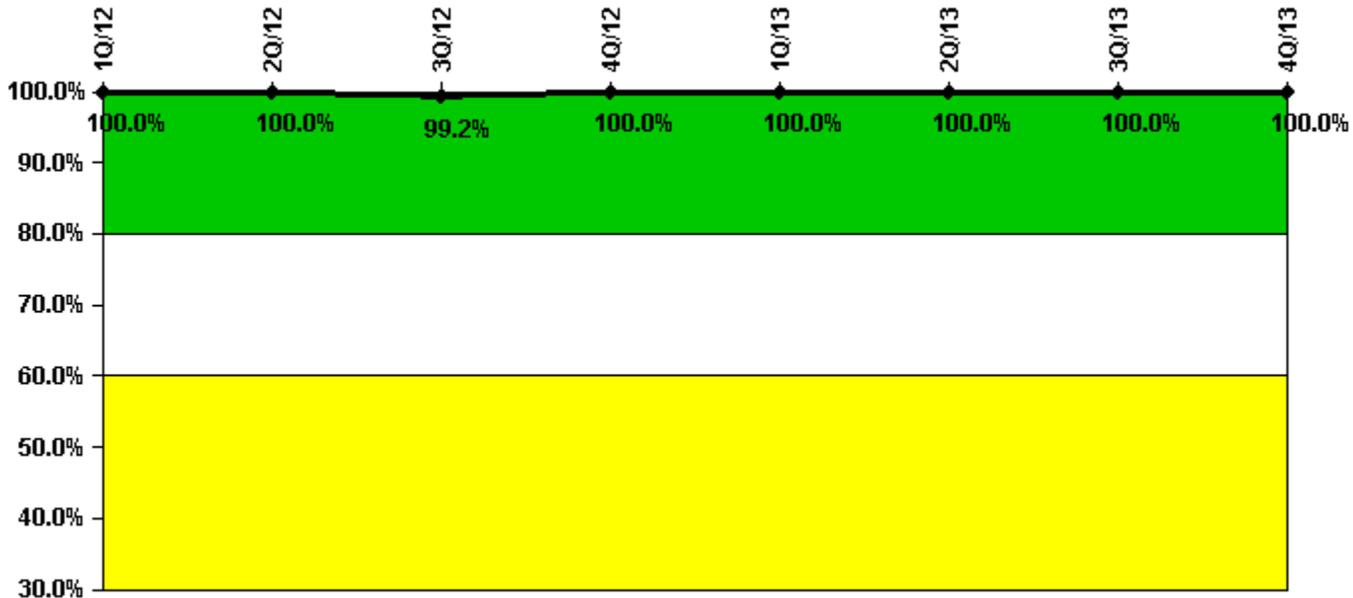
Licensee Comments:

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

3Q/12: Corrected Successful opportunities in 3Q12 due to missed emergency classification in September 2012. (CR 13-650)

2Q/12: Revised 3Q11 DEP after NRC Inspection of raw data, removed 1 PAR & 2 Classification Opportunities. Previous DEP reported as 102 successes of 104 opportunities. (CR 12-21362). This did not affect the color of the indicator.

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

<b>ERO Drill Participation</b>	<b>1Q/12</b>	<b>2Q/12</b>	<b>3Q/12</b>	<b>4Q/12</b>	<b>1Q/13</b>	<b>2Q/13</b>	<b>3Q/13</b>	<b>4Q/13</b>
Participating Key personnel	122.0	123.0	122.0	123.0	126.0	120.0	119.0	117.0
Total Key personnel	122.0	123.0	123.0	123.0	126.0	120.0	119.0	117.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>99.2%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</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

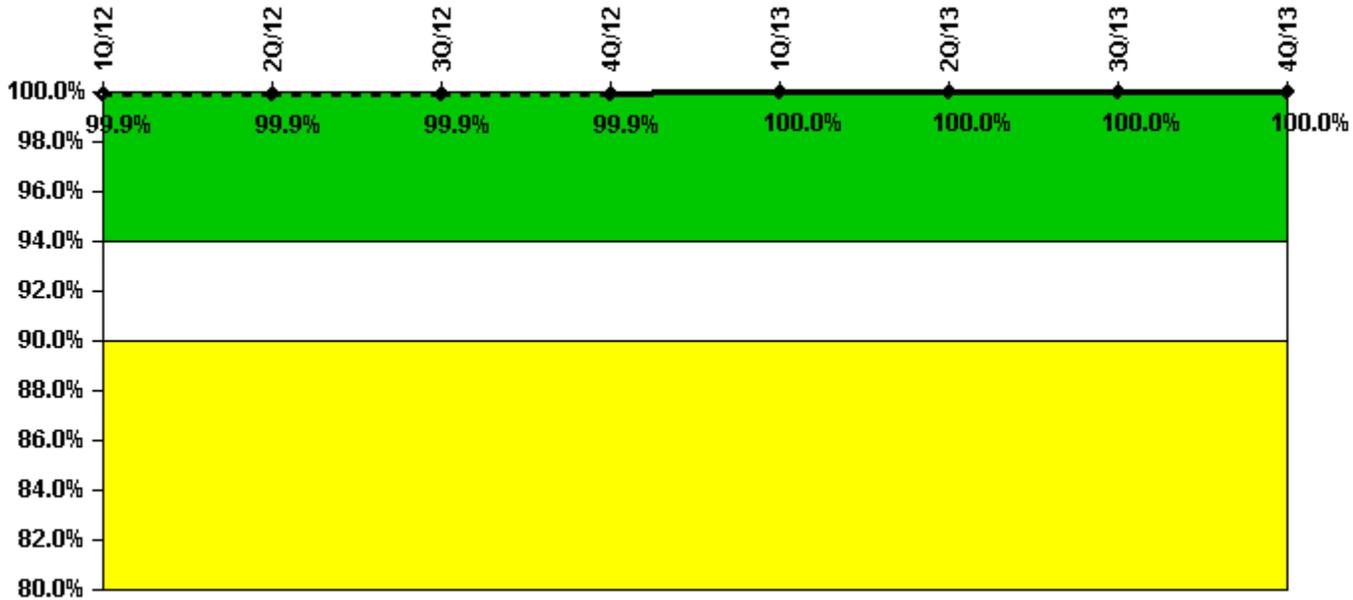
4Q/12: Corrected total Participating key personnel in Q3/2012. Failed to account for Shift Communicator who missed a PI opportunity in the previous 8 quarters. (CR 13-650)

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)

3Q/12: Corrected total participating key personnel in 3Q12. Failed to account for Shift Communicator who missed a PI opportunity in the previous 8 quarters. (CR 13-650).

3Q/12: Corrected total participating key personnel in 3Q12. 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%

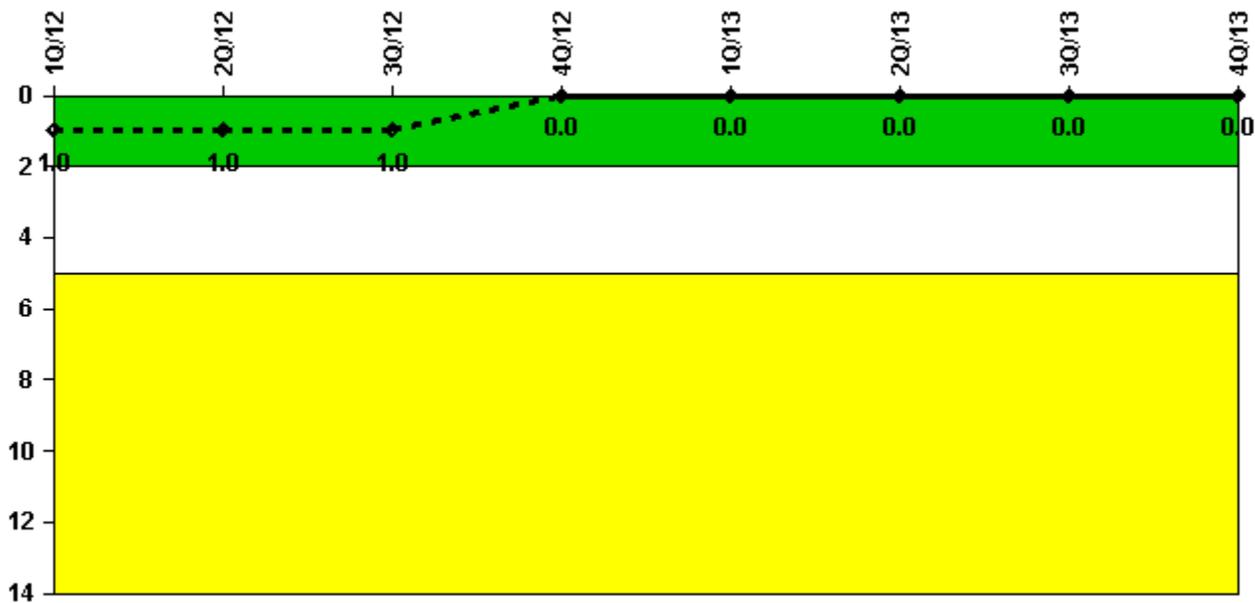
Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	255	256	256	224	288	224	256	224
Total sirens-tests	256	256	256	224	288	224	256	224

<b>Indicator value</b>	99.9%	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%
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Licensee Comments: none

### Occupational Exposure Control Effectiveness



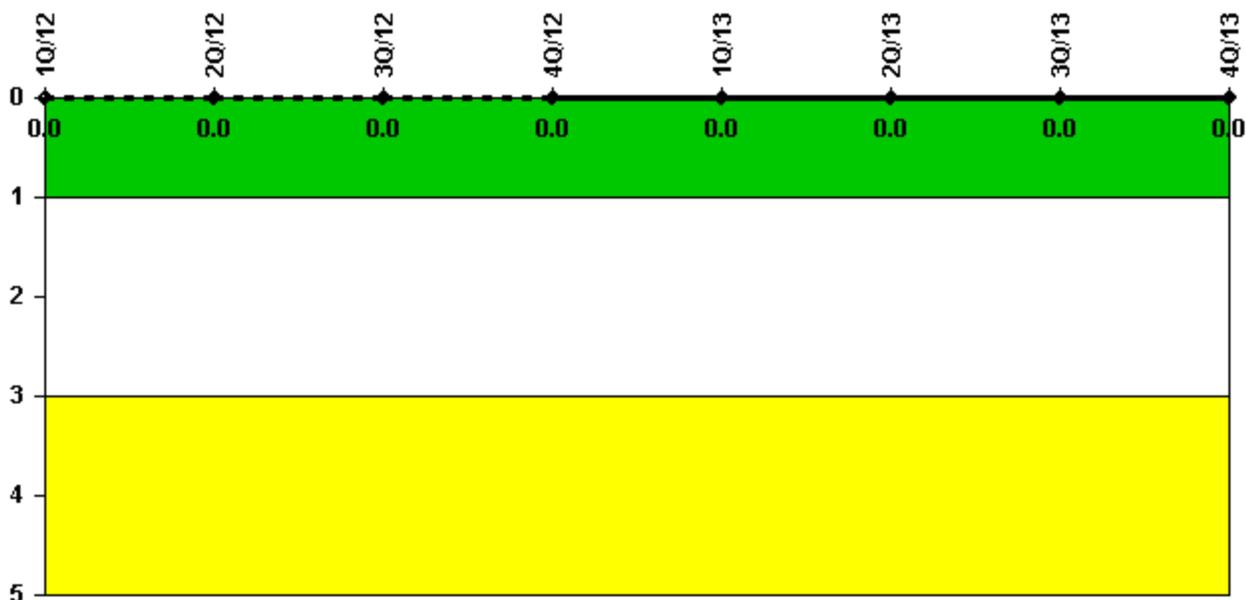
Thresholds: White > 2.0 Yellow > 5.0

### Notes

Occupational Exposure Control Effectiveness	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/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>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/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: January 22, 2014*