

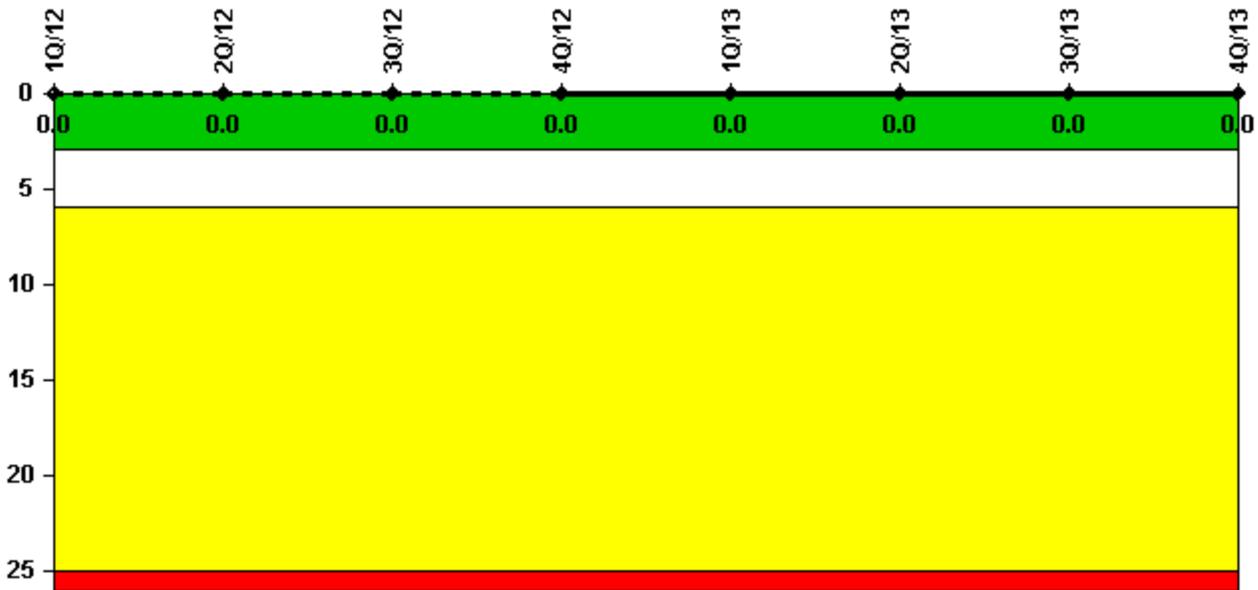
South Texas 1

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



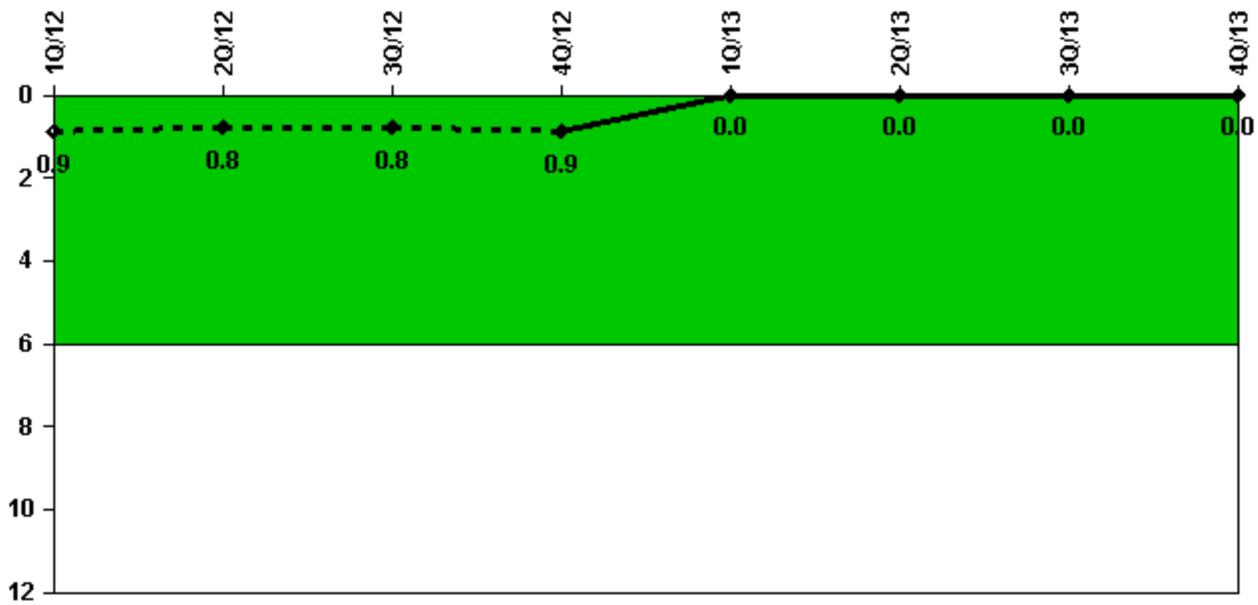
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	1336.1	2159.0	2078.8	2208.0	1853.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



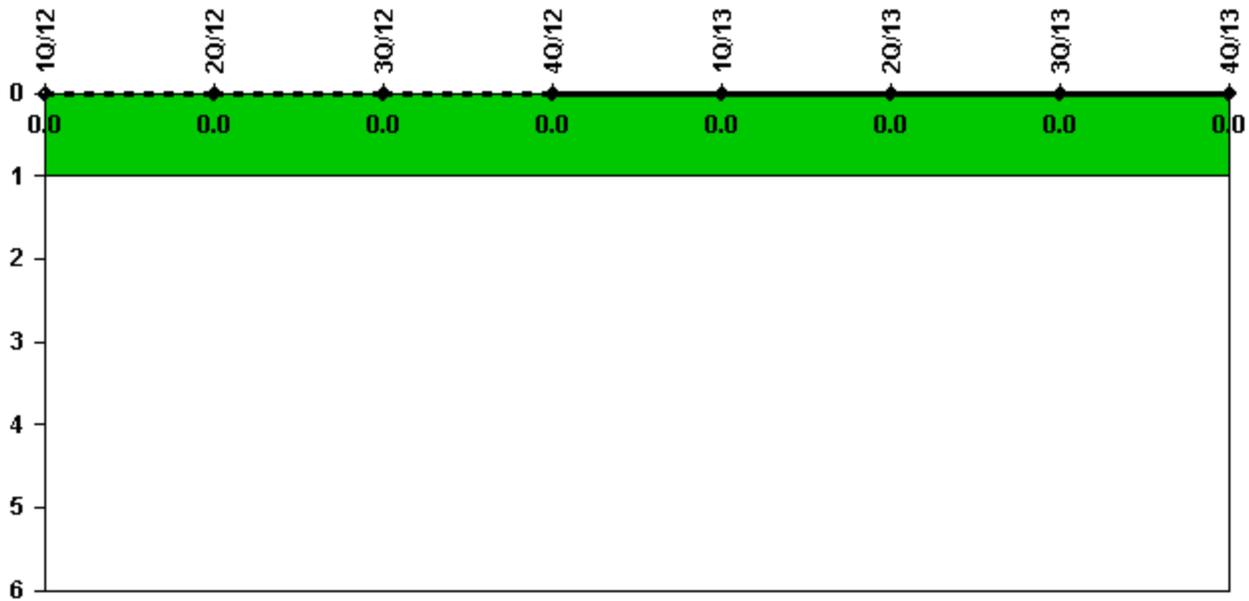
Thresholds: White > 6.0

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	1.0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	1336.1	2159.0	2078.8	2208.0	1853.0
Indicator value	0.9	0.8	0.8	0.9	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



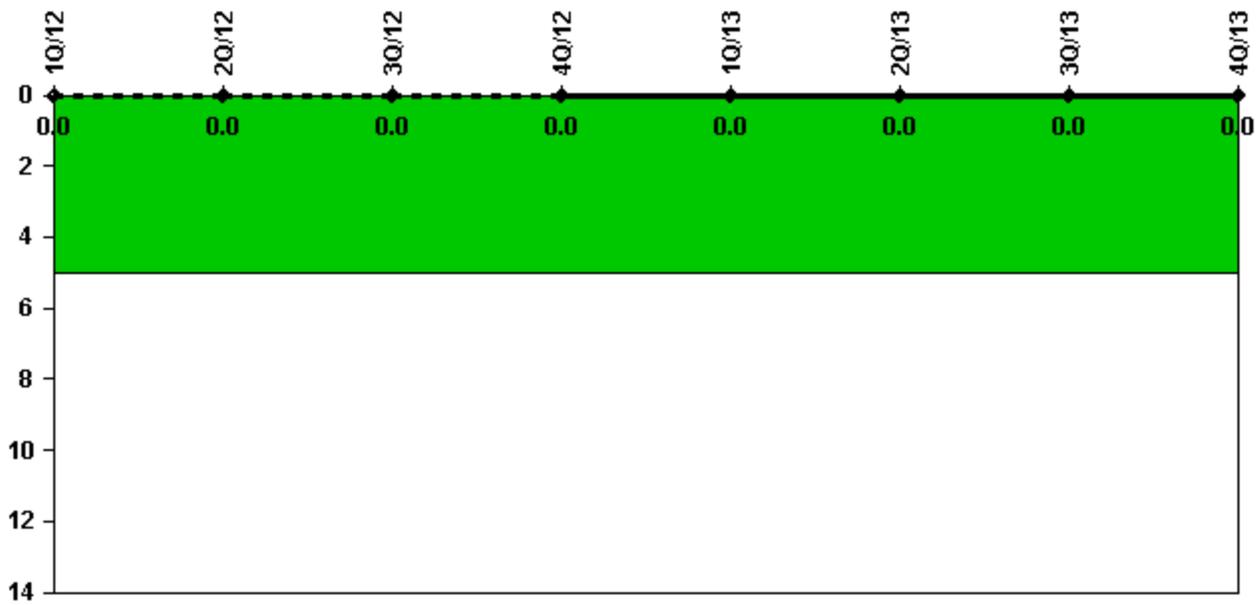
Thresholds: White > 1.0

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	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



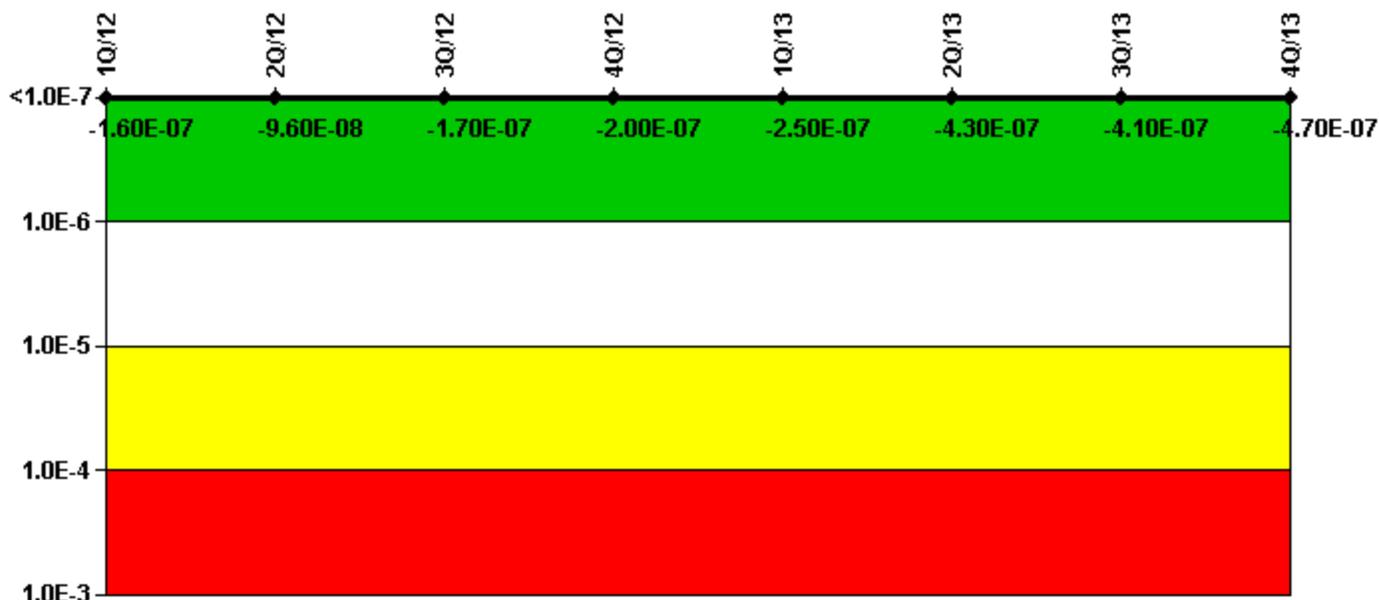
Thresholds: White > 5.0

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	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

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 (Δ CDF)	2.12E-07	2.72E-07	1.97E-07	1.61E-07	1.07E-07	9.14E-08	1.06E-07	3.74E-08
URI (Δ CDF)	-3.71E-07	-3.68E-07	-3.64E-07	-3.61E-07	-3.58E-07	-5.26E-07	-5.17E-07	-5.12E-07
PLE	NO							
Indicator value	-1.60E-07	-9.60E-08	-1.70E-07	-2.00E-07	-2.50E-07	-4.30E-07	-4.10E-07	-4.70E-07

Licensee Comments:

4Q/13: Changed PRA Parameter(s). The Planned UA Baseline coefficient for Unit 1 EDG A (DG 11) was revised to remove the planned UA baseline hours related to 5 year preventive maintenance from January 2011. This change will be effective 1Q14. The MSPI Bases Document was revised to reflect this change. (Reference CR 11-542-11)

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.

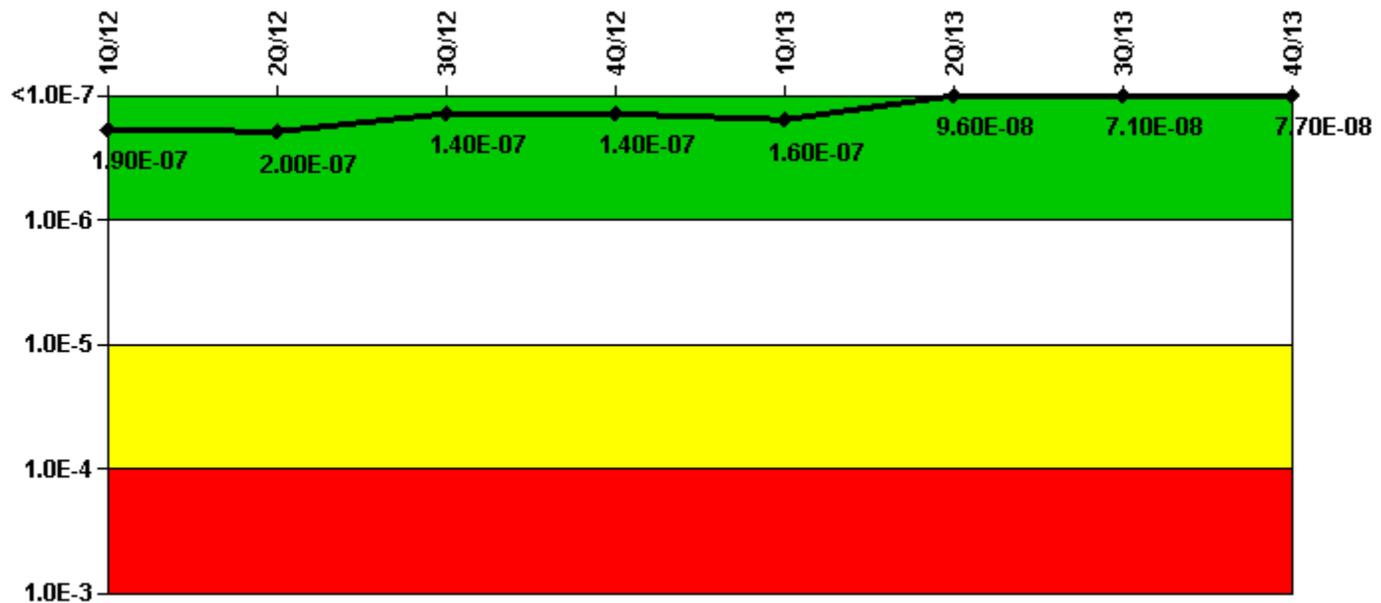
1Q/13: The Planned UA Baseline coefficient for EDG B (DG 12 Unit 1) was updated to remove unavailable hours related to 5 year preventive maintenance. At the same time, the Planned UA Baseline Coefficient for EDG B required the addition of unavailable hours related to a 15 year FOST. This resulted in no change to the coefficient. The MSPI bases document was revised to reflect these changes. This change will be effective 2Q13. NOTE: The change due to the 5 year preventive maintenance should have been made effective in 1Q13. This

error had no effect on the color of the indicator. CR 13-3083 was written.

3Q/12: The Planned UA Baseline coefficient for EDG C (DG 13 Unit 1) 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 4Q12.

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.

Mitigating Systems Performance Index, High Pressure Injection System



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

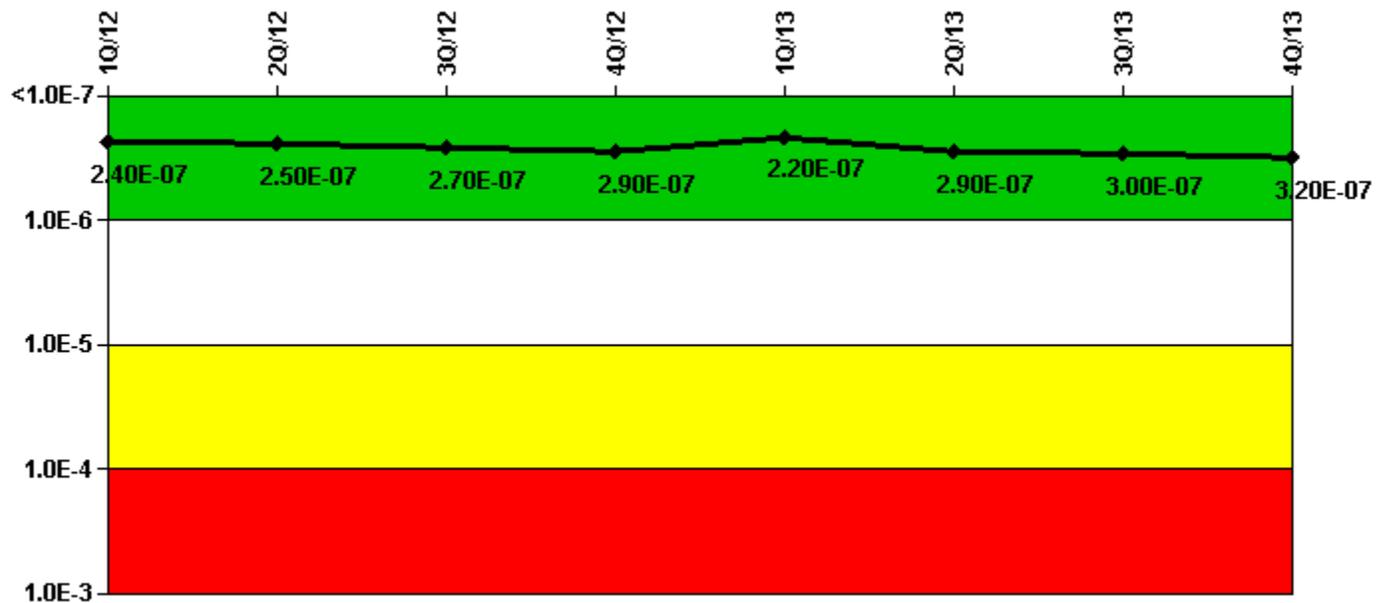
Notes

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)	1.97E-07	2.15E-07	1.54E-07	1.48E-07	1.70E-07	1.21E-07	9.67E-08	1.03E-07
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	1.90E-07	2.00E-07	1.40E-07	1.40E-07	1.60E-07	9.60E-08	7.10E-08	7.70E-08

Licensee Comments:

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

Mitigating Systems Performance Index, Heat Removal System



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

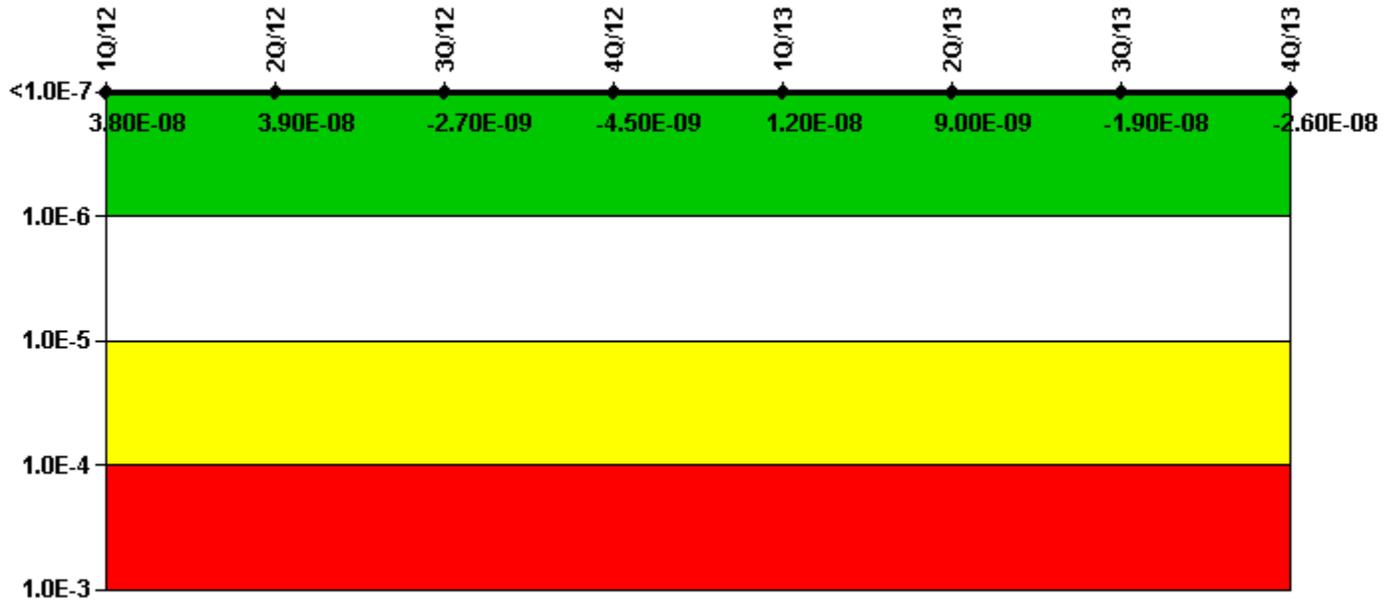
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	2.66E-07	2.80E-07	2.92E-07	3.11E-07	2.39E-07	2.87E-07	2.97E-07	3.15E-07
URI (ΔCDF)	-2.65E-08	-2.57E-08	-2.49E-08	-2.41E-08	-2.33E-08	4.80E-10	1.89E-09	1.89E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.40E-07	2.50E-07	2.70E-07	2.90E-07	2.20E-07	2.90E-07	3.00E-07	3.20E-07

Licensee Comments:

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

Mitigating Systems Performance Index, Residual Heat Removal System



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

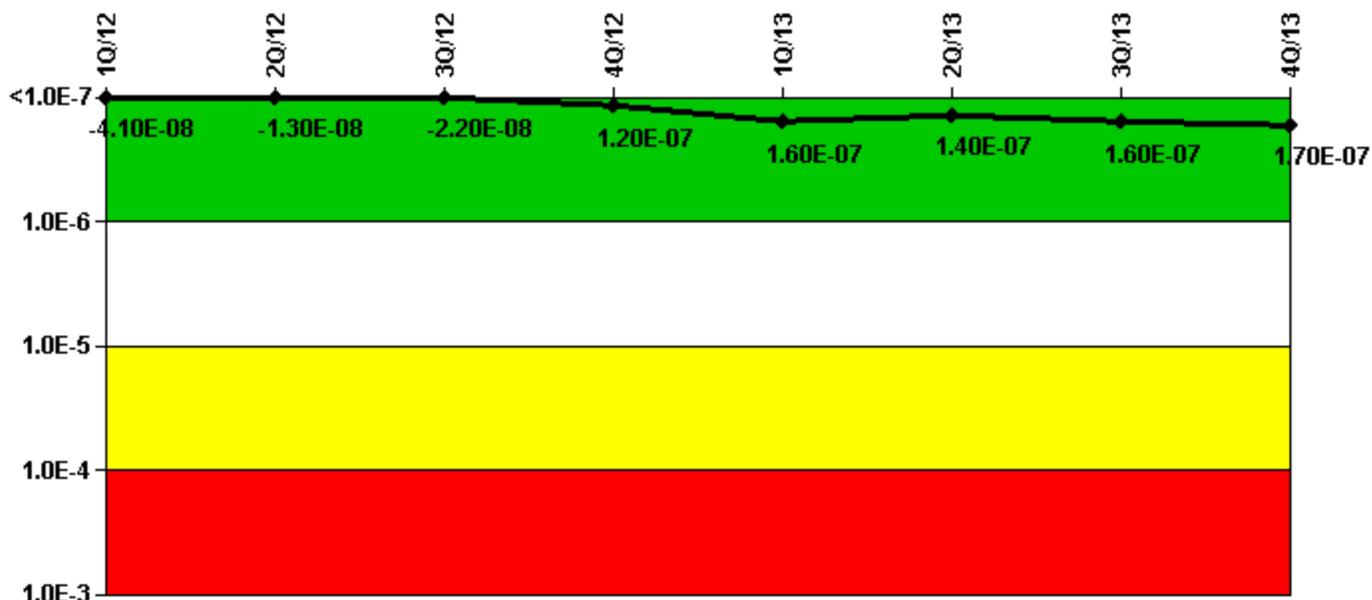
Notes

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 (Δ CDF)	3.99E-08	4.14E-08	-4.21E-10	-2.26E-09	1.44E-08	2.04E-08	-7.85E-09	-1.45E-08
URI (Δ CDF)	-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	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.80E-08	3.90E-08	-2.70E-09	-4.50E-09	1.20E-08	9.00E-09	-1.90E-08	-2.60E-08

Licensee Comments:

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

Mitigating Systems Performance Index, Cooling Water Systems



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

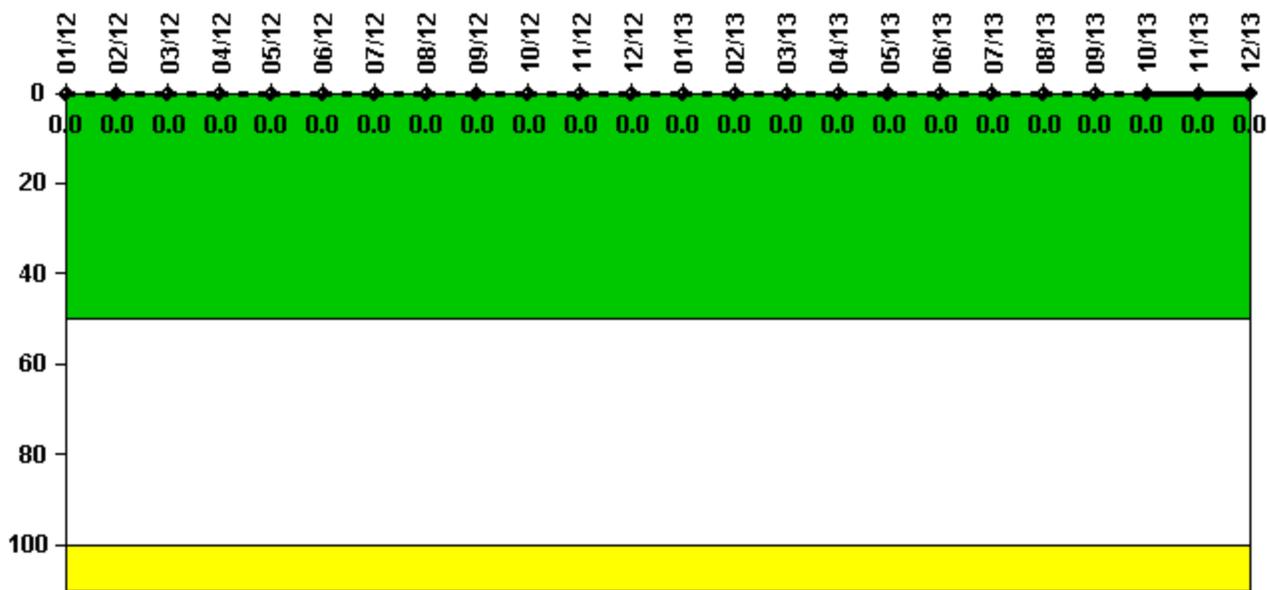
Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	-1.71E-09	2.63E-08	1.73E-08	-2.09E-09	3.86E-08	3.45E-08	5.43E-08	6.04E-08
URI (ΔCDF)	-3.96E-08	-3.96E-08	-3.96E-08	1.18E-07	1.18E-07	1.06E-07	1.06E-07	1.06E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.10E-08	-1.30E-08	-2.20E-08	1.20E-07	1.60E-07	1.40E-07	1.60E-07	1.70E-07

Licensee Comments:

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

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

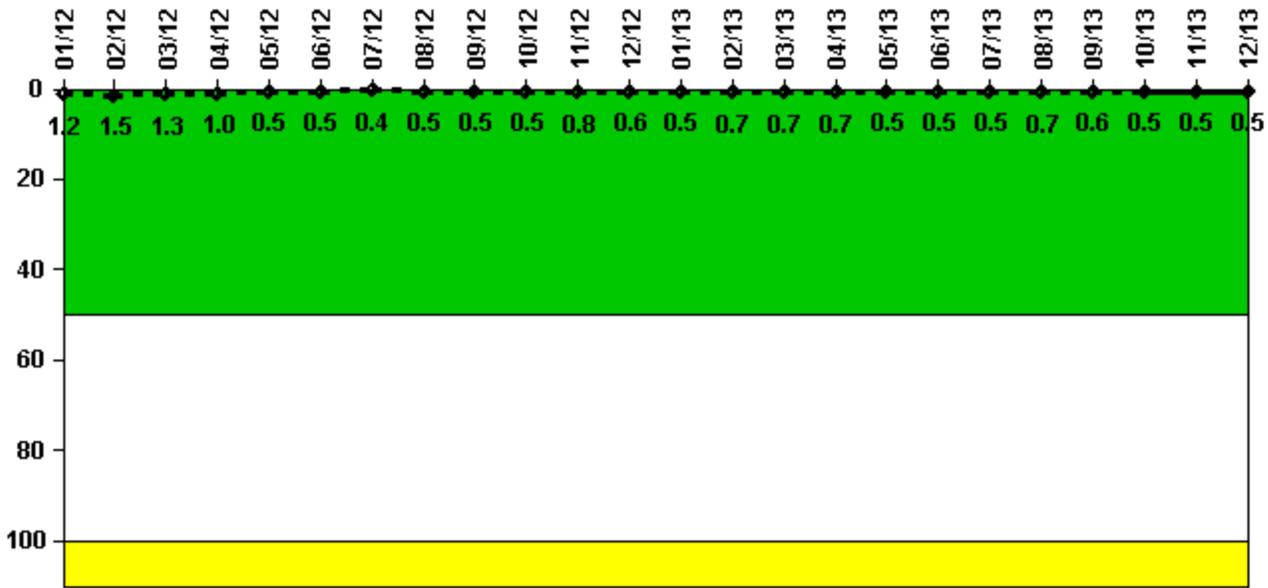
Notes

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	0.000057	0.000060	0.000057	0.000064	0.000065	0.000057	0.000061	0.000060	0.000065	0.000066	0	0.000025
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	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	0.000029	0.000033	0.000028	0.000038	0.000036	0.000034	0.000034	0.000034	0.000036	0.000035	0.000043	0.000039
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	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



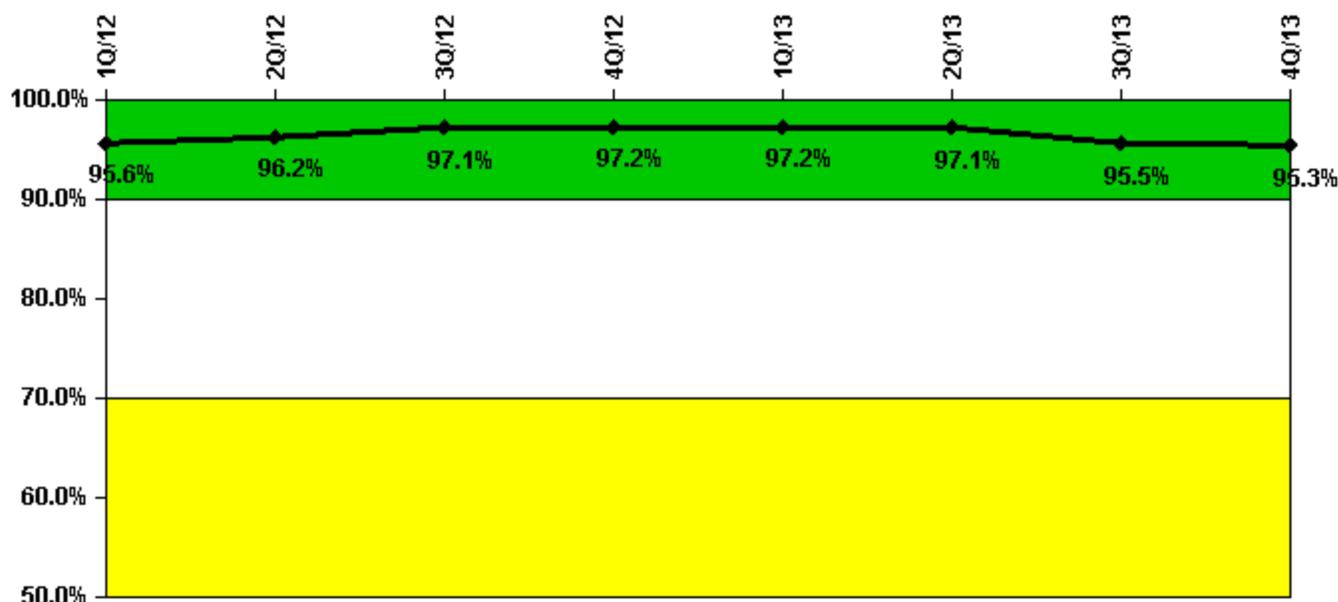
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.123	0.149	0.133	0.101	0.048	0.049	0.042	0.047	0.048	0.052	0.075	0.055
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	1.2	1.5	1.3	1.0	0.5	0.5	0.4	0.5	0.5	0.5	0.8	0.6
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	0.049	0.065	0.072	0.067	0.052	0.052	0.050	0.065	0.061	0.049	0.050	0.048
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	0.5	0.7	0.7	0.7	0.5	0.5	0.5	0.7	0.6	0.5	0.5	0.5

Licensee Comments: none

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
Indicator value	95.6%	96.2%	97.1%	97.2%	97.2%	97.1%	95.5%	95.3%

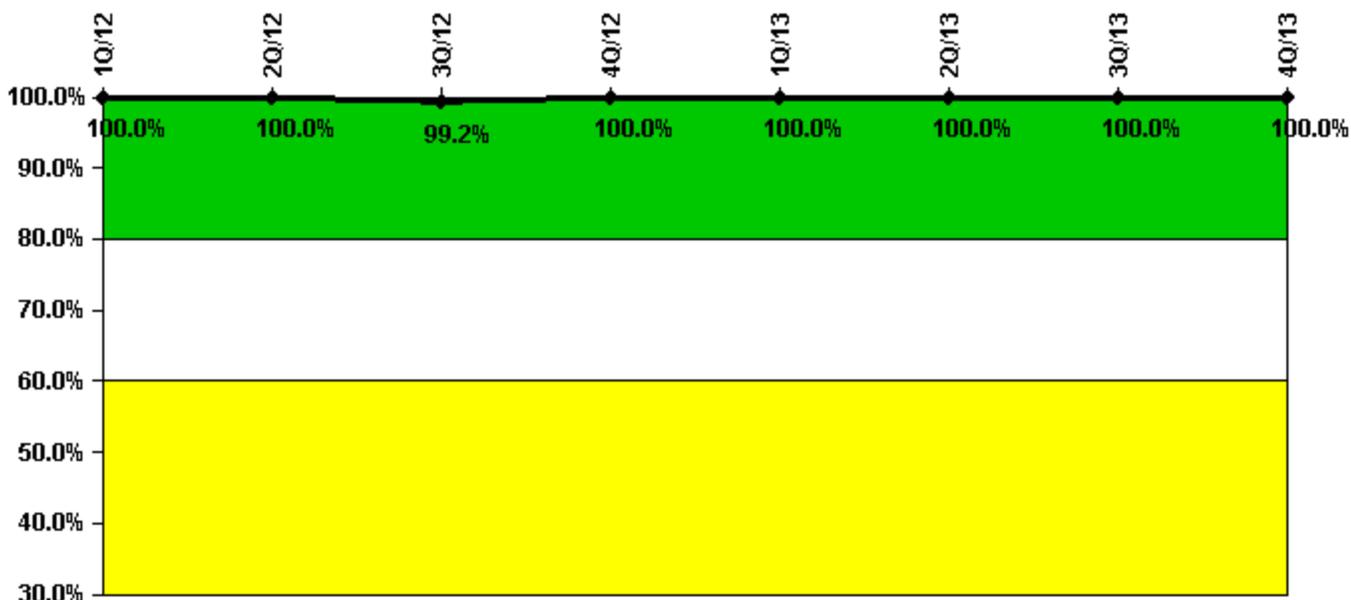
Licensee Comments:

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

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
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
Indicator value	100.0%	100.0%	99.2%	100.0%	100.0%	100.0%	100.0%	100.0%

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) Total counted and participated numbers changed. Percent did not change. CR 13-5434

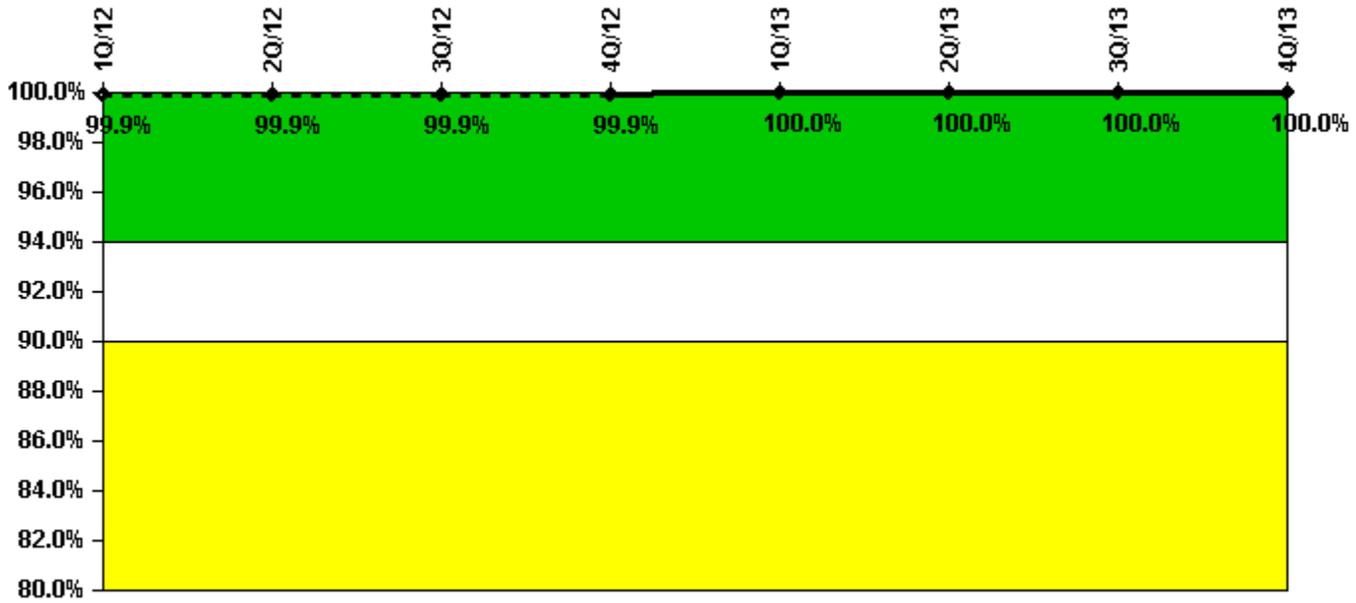
3Q/12: Corrected total participating key personnel in 3Q12. Failed to account for Shift Communicator who missed a PI opportunity in the previous 8 quarters. (CR 13-650). Total counted and participated numbers changed. Percent did not change. CR 13-5434

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).

2Q/12: Total counted and participated numbers changed. Percent did not change. CR 13-5434

1Q/12: Total counted and participated numbers changed. Percent did not change. CR 13-5434

Alert & Notification System



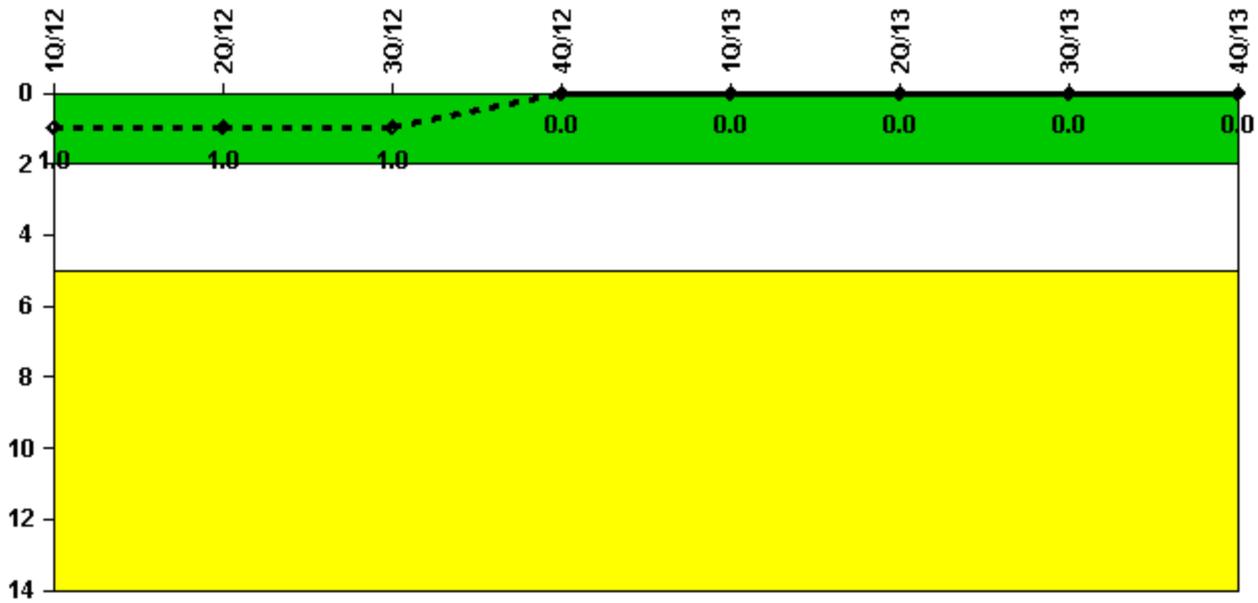
Thresholds: White < 94.0% Yellow < 90.0%

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
Indicator value	99.9%	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



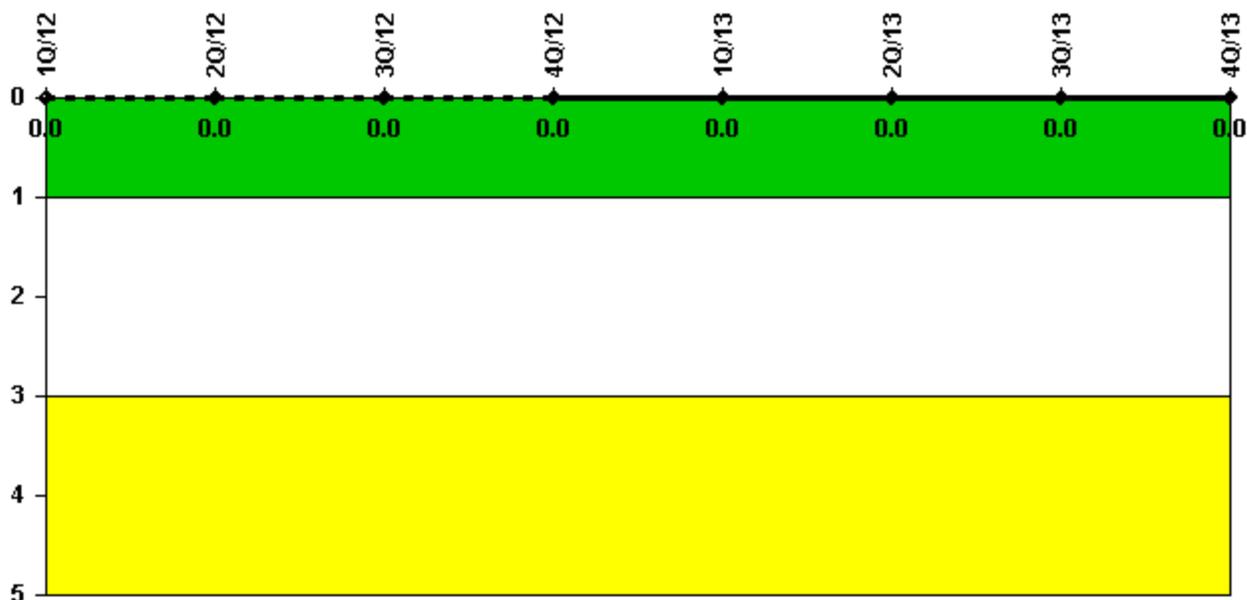
Thresholds: White > 2.0 Yellow > 5.0

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
Indicator value	1	1	1	0	0	0	0	0

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							

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