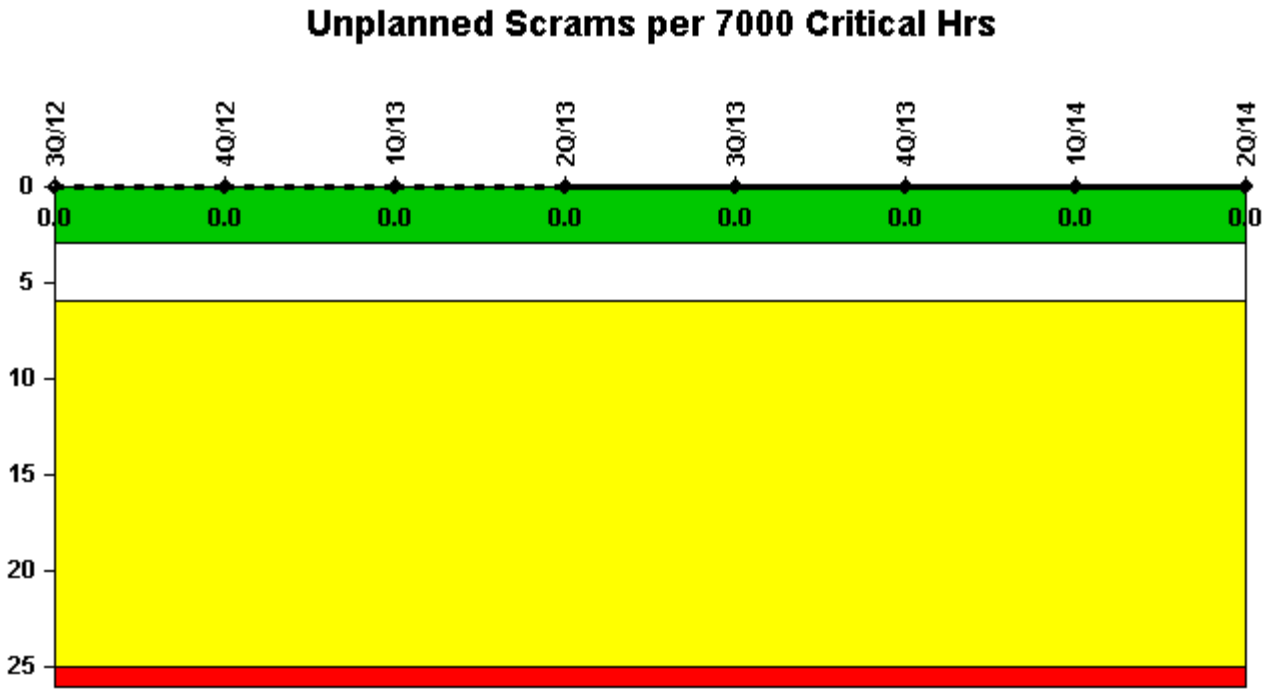
Surry 2

2Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

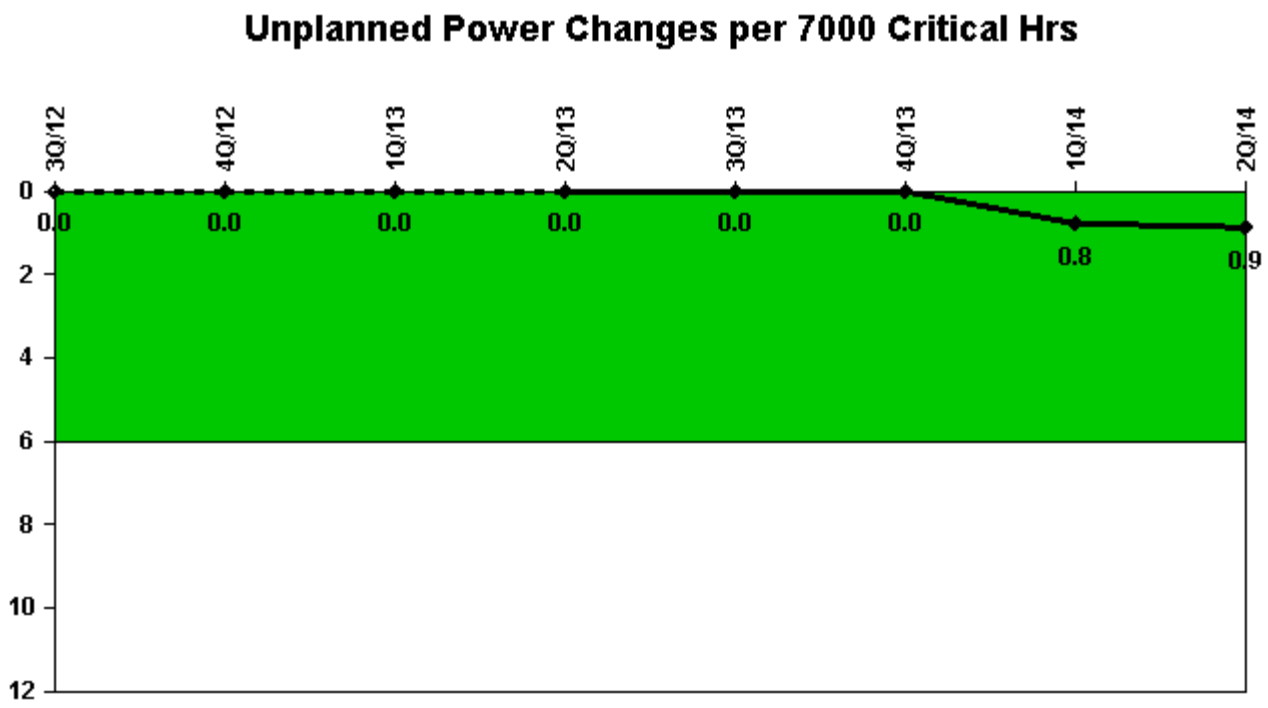


Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	1452.1	2159.0	2184.0	2208.0	2209.0	2107.4	1445.8
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

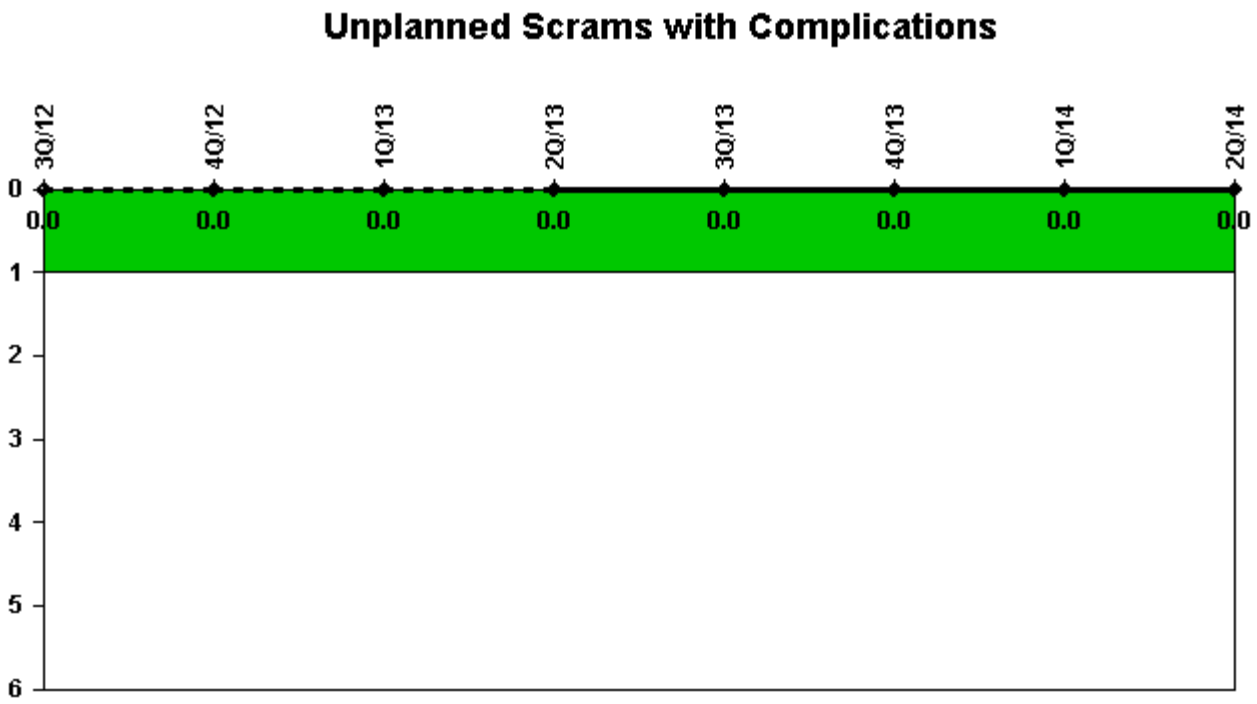


Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2208.0	1452.1	2159.0	2184.0	2208.0	2209.0	2107.4	1445.8
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.8**	**0.9**

Licensee Comments: none

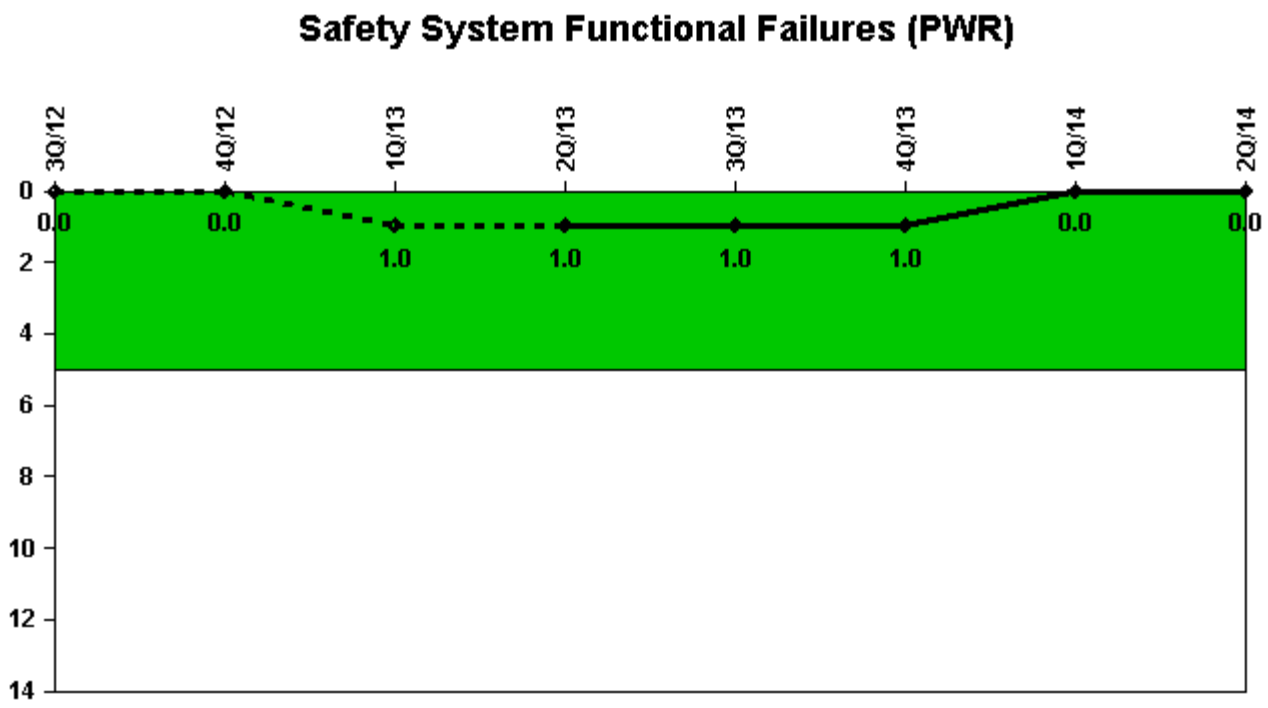


Thresholds: White > 1.0

Notes

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

Licensee Comments: none



Thresholds: White > 5.0

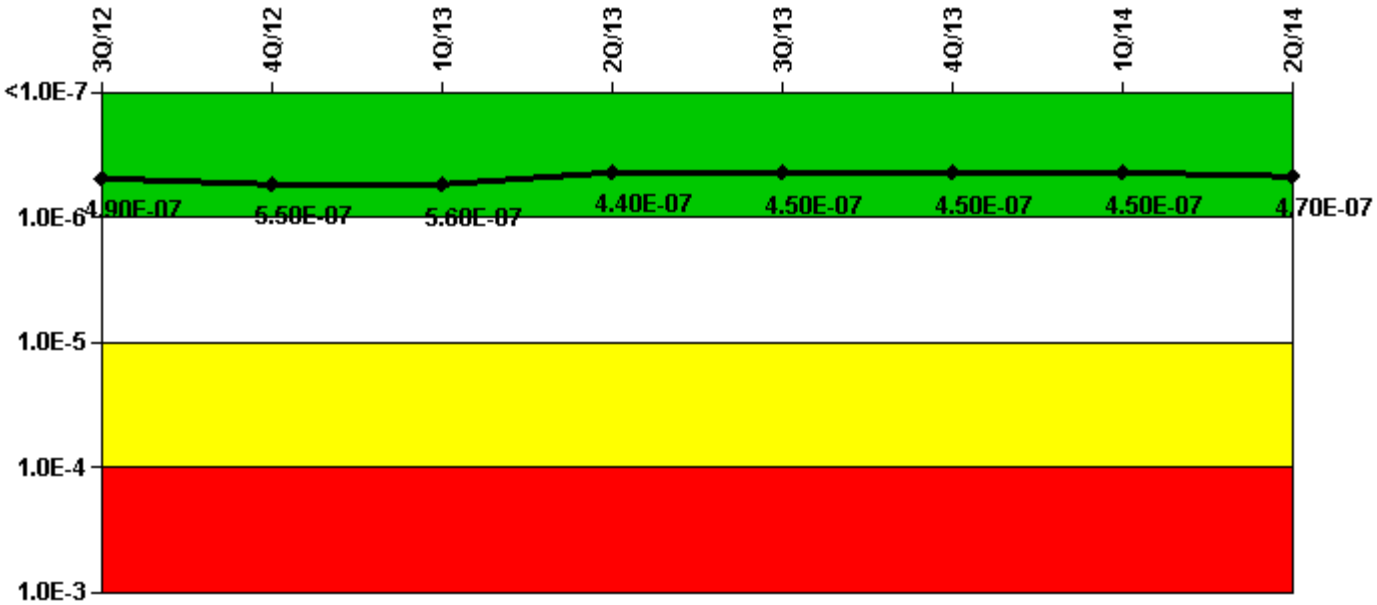
Notes

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

Licensee Comments:

1Q/13: See Surry LER S1-2013-001-00 dated January 30, 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	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	4.58E-08	2.92E-08	3.29E-08	8.40E-09	7.50E-09	6.96E-09	5.58E-09	8.52E-10
URI (ΔCDF)	4.44E-07	5.21E-07	5.27E-07	4.34E-07	4.39E-07	4.47E-07	4.49E-07	4.72E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.90E-07**	**5.50E-07**	**5.60E-07**	**4.40E-07**	**4.50E-07**	**4.50E-07**	**4.50E-07**	**4.70E-07**

Licensee Comments:

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked. An assessment determined unavailable hours for December 2012 were not correct. Historical data was corrected with no change in color.

4Q/13: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

4Q/12: Risk Cap Invoked. An evaluation for an August run failure of #2 emergency diesel was completed. Therefore historical data for August 2012 was changed with no change in color.

3Q/12: Risk Cap Invoked.

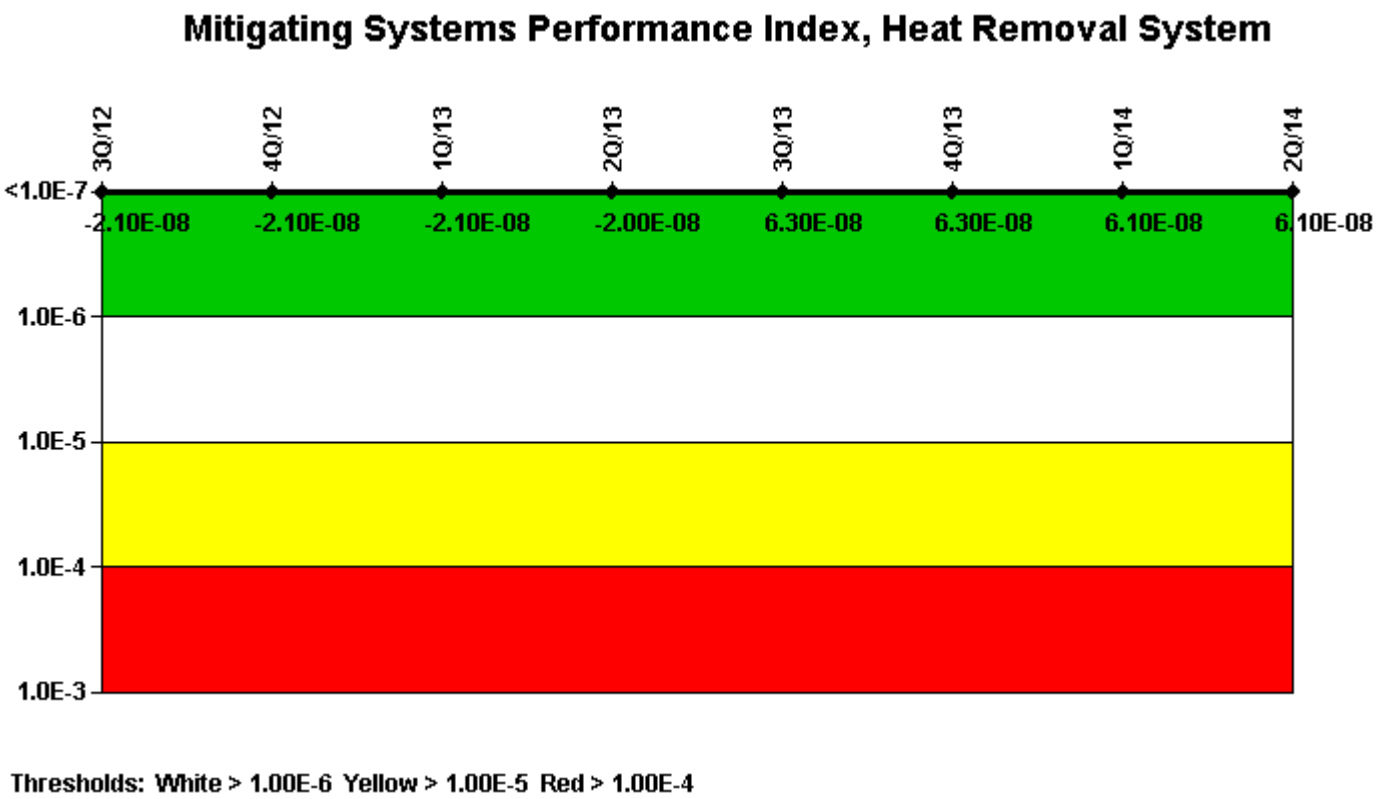
Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	1.32E-09	1.31E-09	-2.13E-10	2.17E-10	2.37E-10	1.39E-10	4.53E-10	3.75E-10
URI (ΔCDF)	-1.51E-08	-1.52E-08	-1.51E-08	-1.50E-08	-1.53E-08	-1.52E-08	-1.51E-08	-1.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.40E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**

Licensee Comments: none

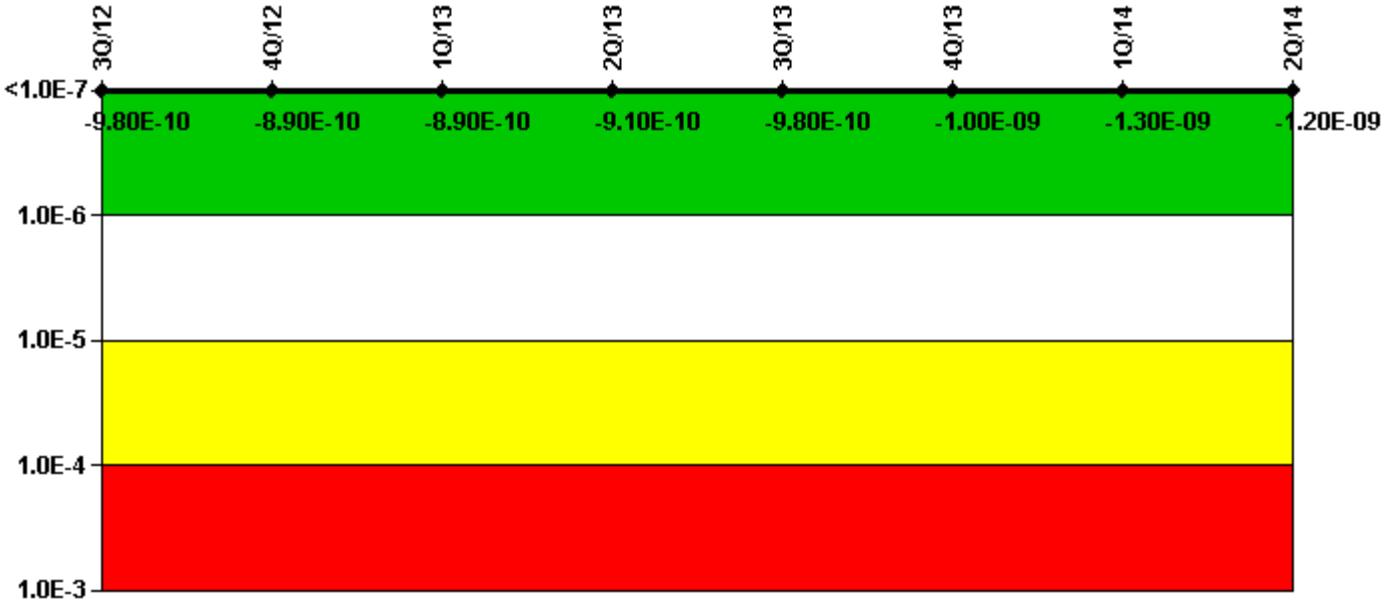


Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	-5.69E-09	-5.68E-09	-5.68E-09	-4.23E-09	-2.97E-09	-2.97E-09	-3.23E-09	-3.33E-09
URI (ΔCDF)	-1.49E-08	-1.54E-08	-1.54E-08	-1.60E-08	6.62E-08	6.62E-08	6.46E-08	6.47E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-08**	**-2.10E-08**	**-2.10E-08**	**-2.00E-08**	**6.30E-08**	**6.30E-08**	**6.10E-08**	**6.10E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



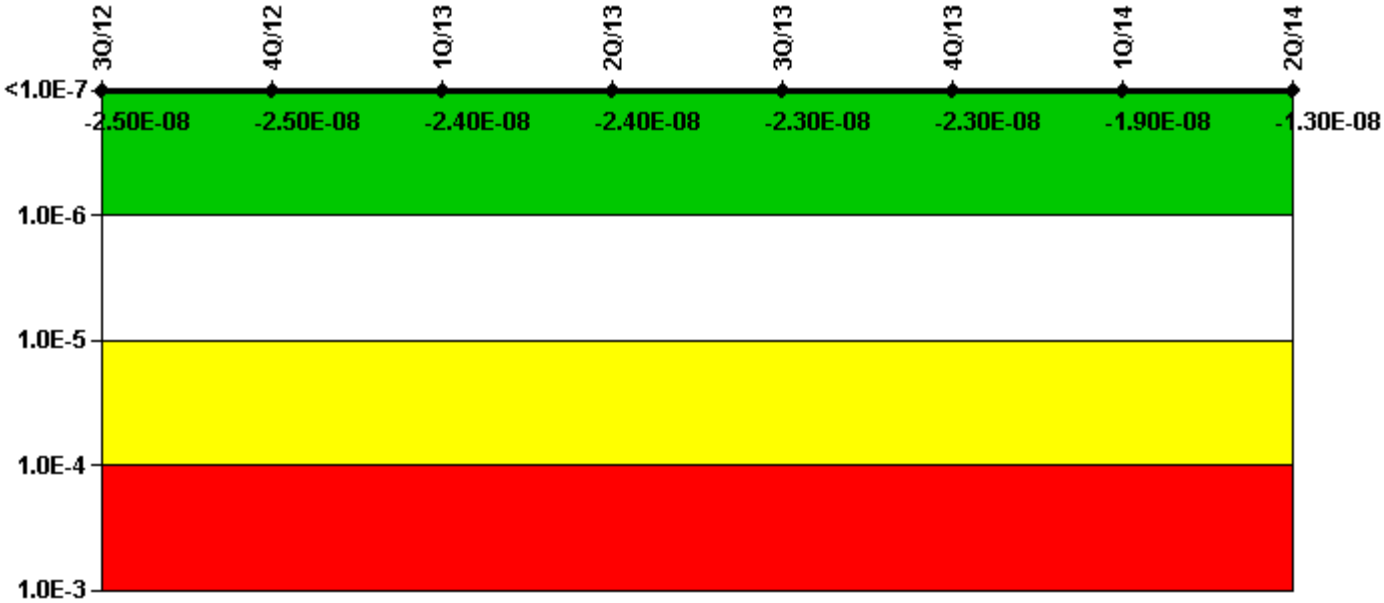
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	1.46E-10	1.47E-10	1.47E-10	1.41E-10	7.80E-11	6.15E-11	-2.25E-10	-2.26E-10
URI (ΔCDF)	-1.13E-09	-1.03E-09	-1.04E-09	-1.05E-09	-1.06E-09	-1.07E-09	-1.04E-09	-9.69E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.80E-10**	**-8.90E-10**	**-8.90E-10**	**-9.10E-10**	**-9.80E-10**	**-1.00E-09**	**-1.30E-09**	**-1.20E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

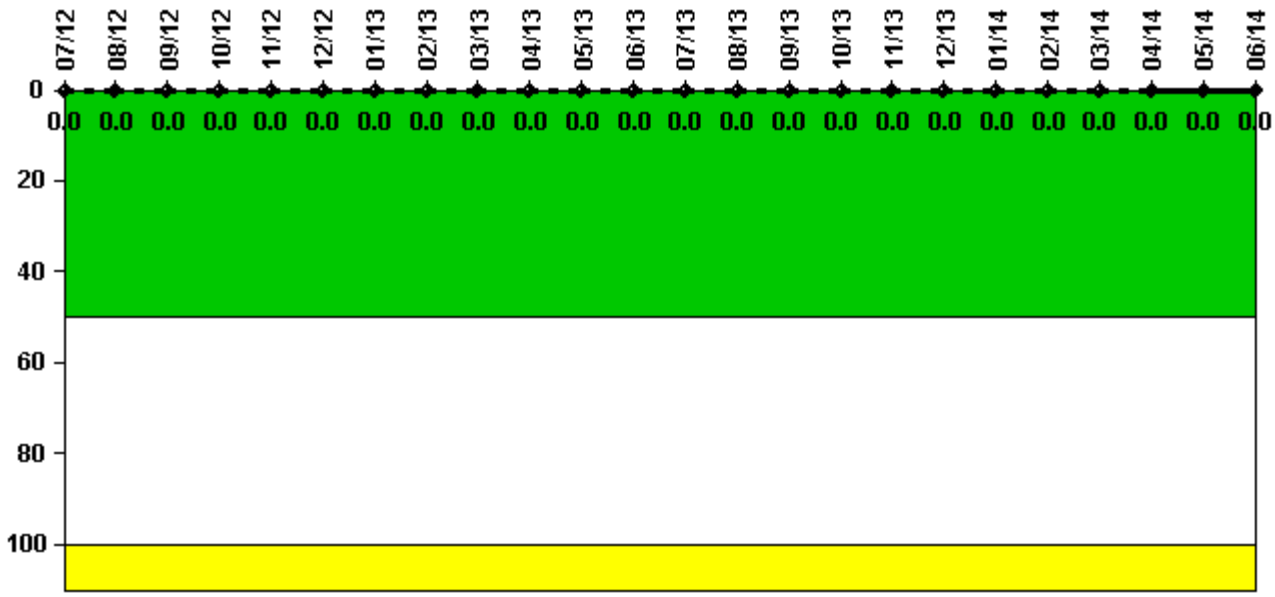
Notes

Mitigating Systems Performance Index, Cooling Water Systems	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	-1.53E-09	-1.34E-09	-1.11E-09	-1.11E-09	-9.85E-10	-1.55E-09	-1.53E-09	-1.39E-09
URI (ΔCDF)	-2.39E-08	-2.34E-08	-2.32E-08	-2.27E-08	-2.25E-08	-2.18E-08	-1.71E-08	-1.21E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.50E-08**	**-2.50E-08**	**-2.40E-08**	**-2.40E-08**	**-2.30E-08**	**-2.30E-08**	**-1.90E-08**	**-1.30E-08**

Licensee Comments:

2Q/14: Failure No. 311011 on March 29 was added which changed the first quarter indicator with no change in color. See LER report No. 50-280/2014-001-00.

Reactor Coolant System Activity

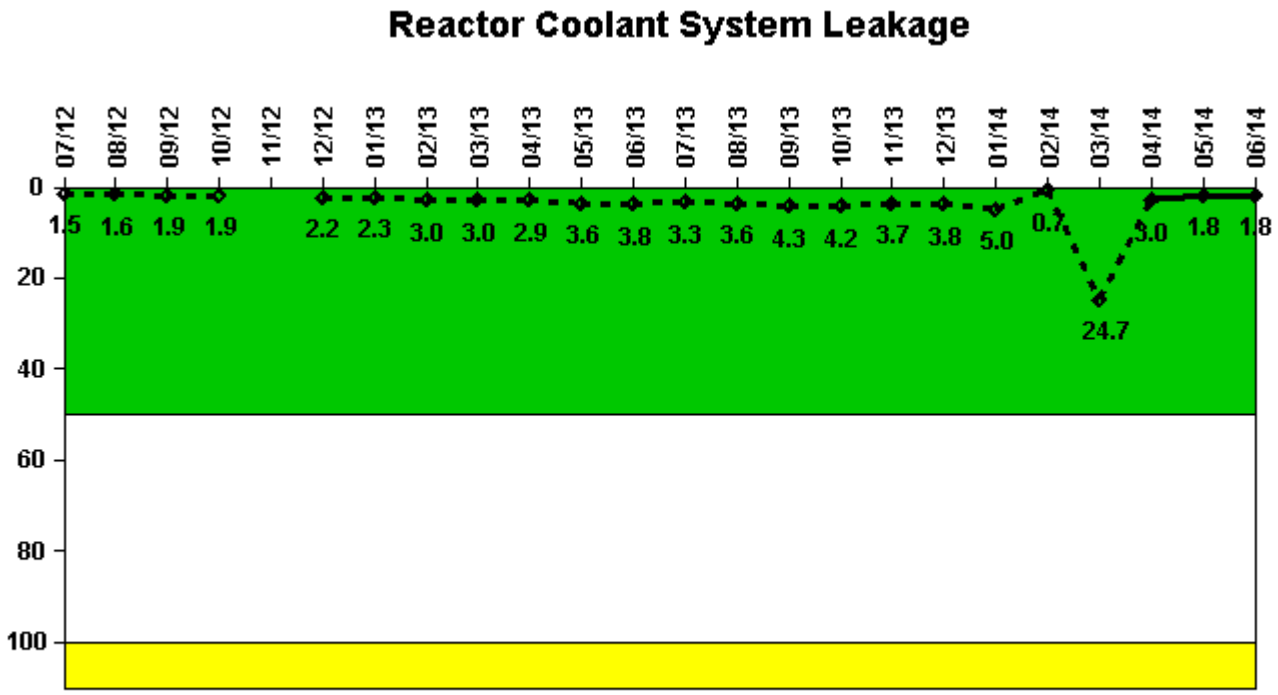


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**
Maximum activity	0.000174	0.000202	0.000224	0.000190	0.000180	0.000132	0.000100	0.000131	0.000105	0.000109	0.000120	0.000115
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	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**
Maximum activity	0.000116	0.000138	0.000130	0.000126	0.000230	0.000132	0.000145	0.000145	0.000236	0.000151	0.000439	0.000066
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



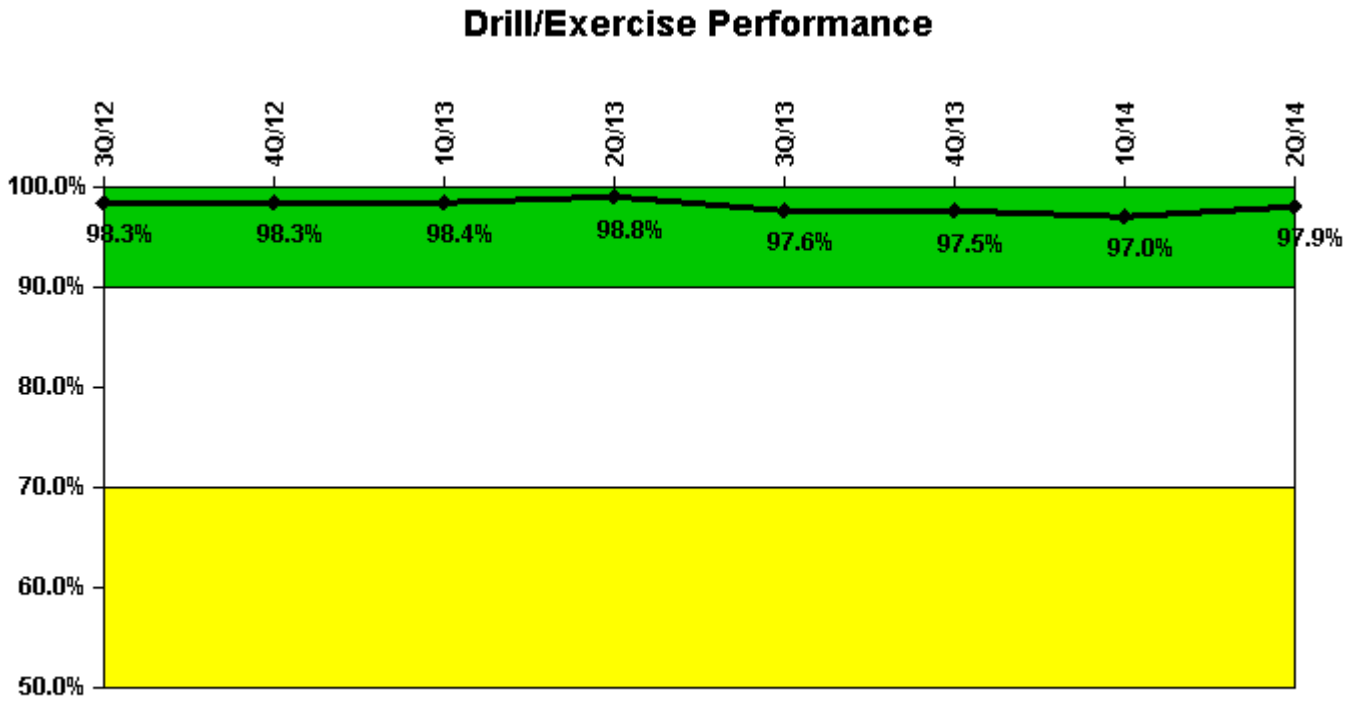
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum leakage	0.150	0.160	0.190	0.190	N/A	0.220	0.230	0.300	0.300	0.290	0.360	0.380
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	**1.5**	**1.6**	**1.9**	**1.9**	**N/A**	**2.2**	**2.3**	**3.0**	**3.0**	**2.9**	**3.6**	**3.8**
Reactor Coolant System Leakage	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**
Maximum leakage	0.330	0.360	0.430	0.420	0.370	0.380	0.500	0.070	2.470	0.300	0.180	0.180
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	**3.3**	**3.6**	**4.3**	**4.2**	**3.7**	**3.8**	**5.0**	**0.7**	**24.7**	**3.0**	**1.8**	**1.8**

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

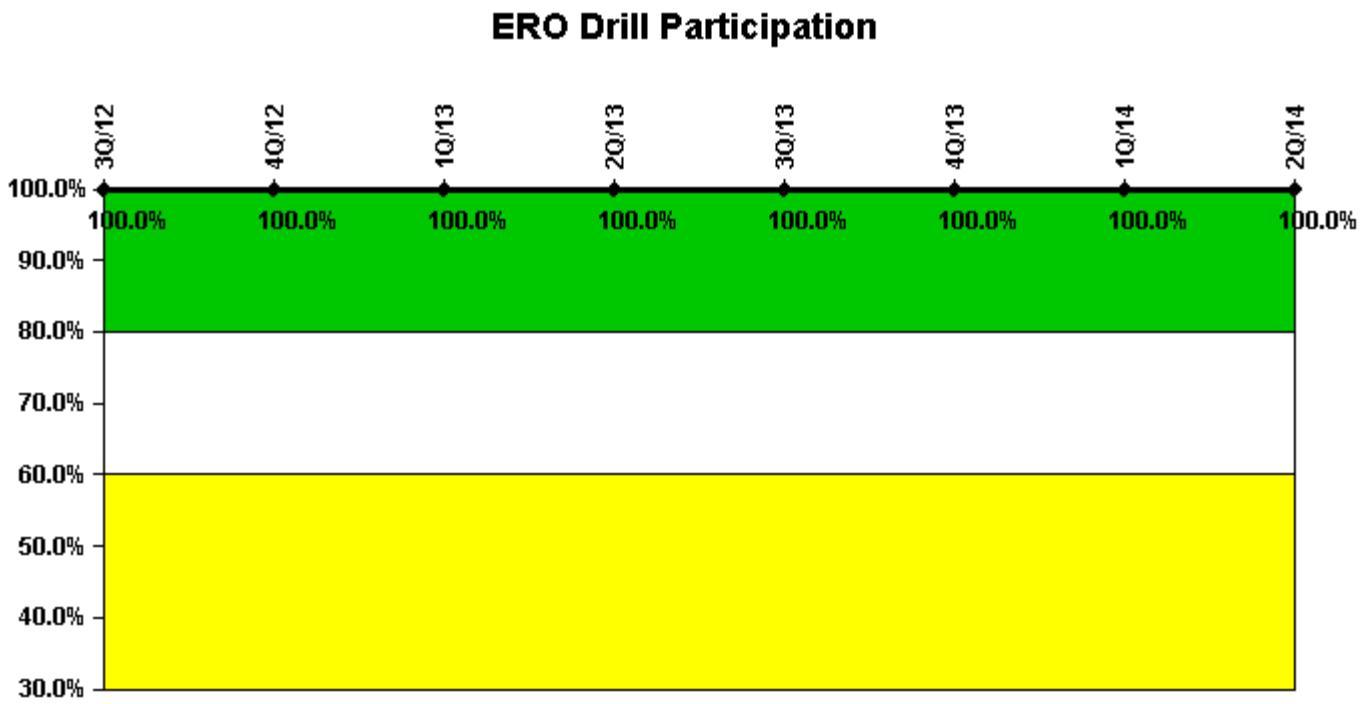


Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful opportunities	32.0	24.0	48.0	22.0	28.0	14.0	37.0	28.0
Total opportunities	32.0	24.0	49.0	22.0	31.0	14.0	38.0	28.0
Indicator value	**98.3%**	**98.3%**	**98.4%**	**98.8%**	**97.6%**	**97.5%**	**97.0%**	**97.9%**

Licensee Comments: none

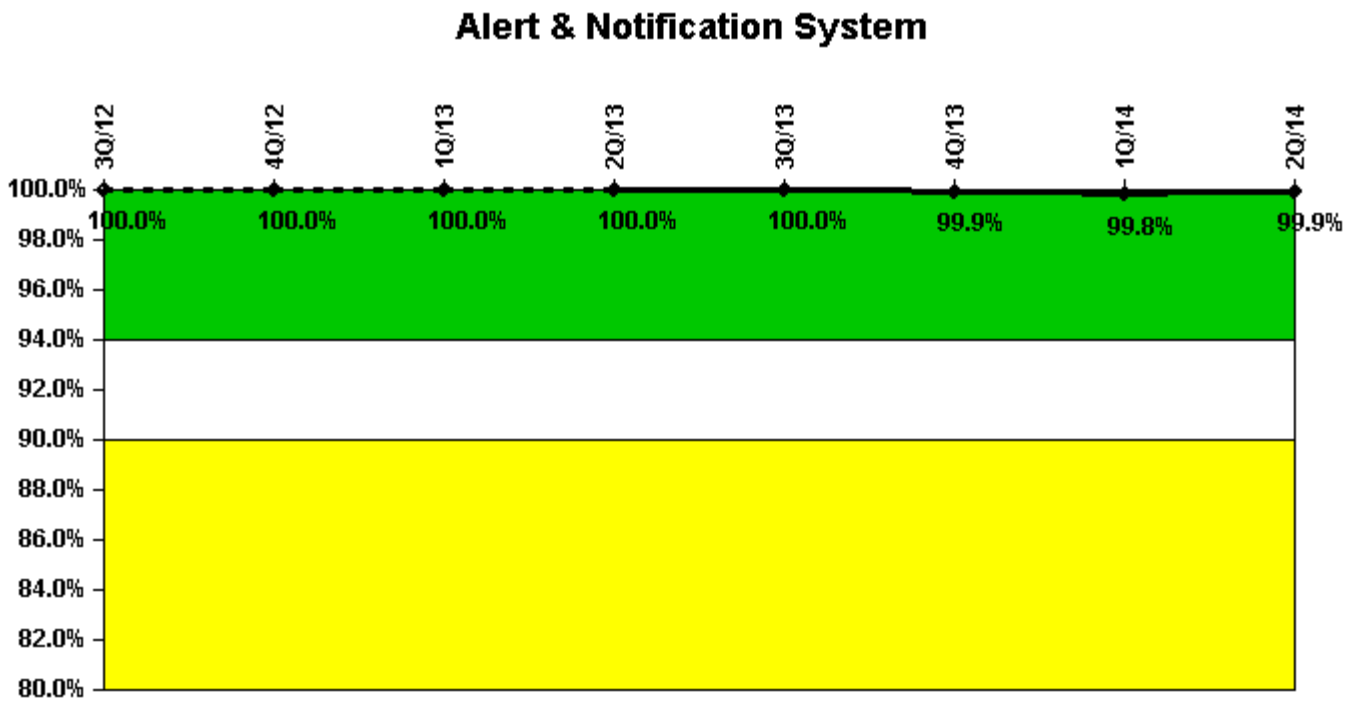


Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Participating Key personnel	151.0	155.0	165.0	161.0	160.0	159.0	158.0	154.0
Total Key personnel	151.0	155.0	165.0	161.0	160.0	159.0	158.0	154.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

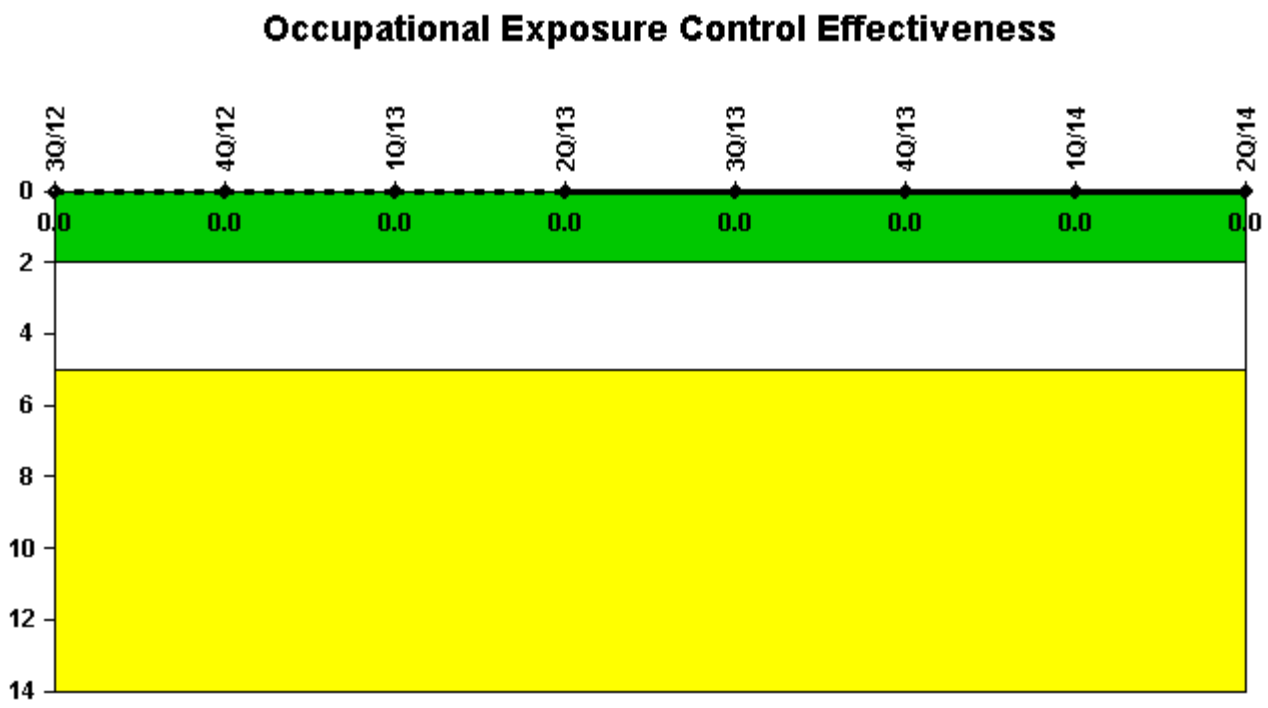


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful siren-tests	476	559	497	567	497	566	496	568
Total sirens-tests	476	559	497	568	497	568	497	568
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.8%**	**99.9%**

Licensee Comments: none

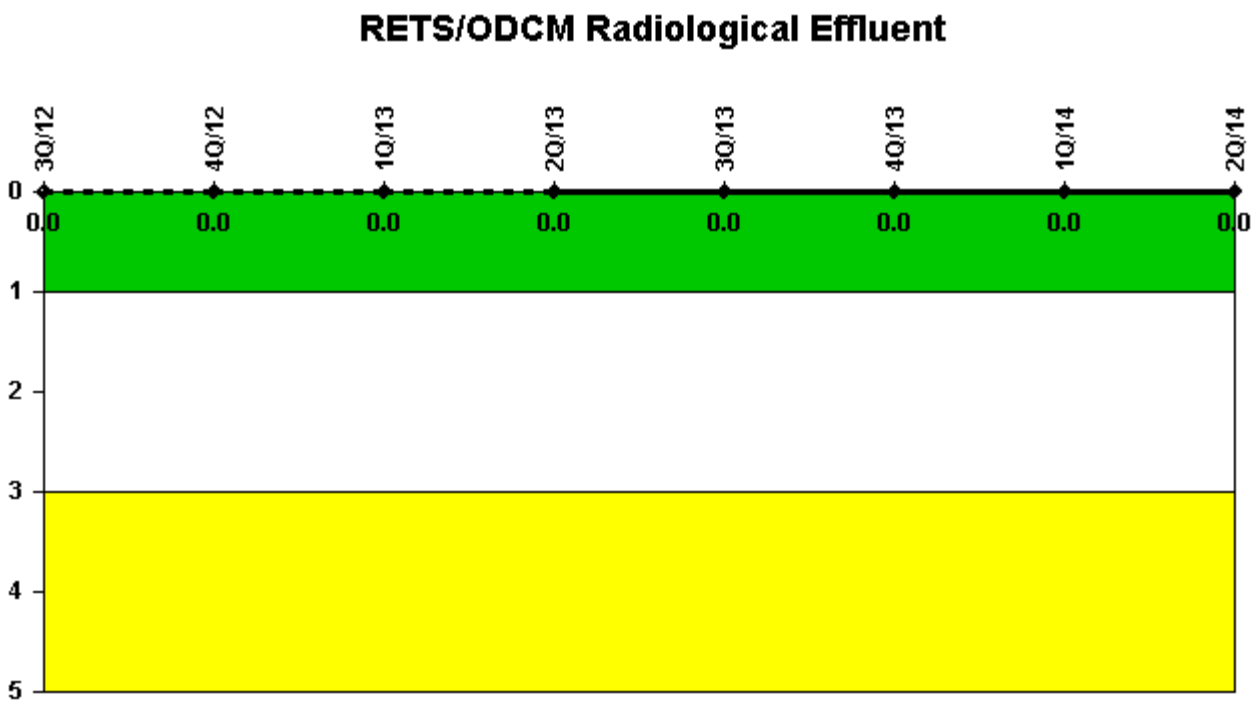


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
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: July 31, 2014