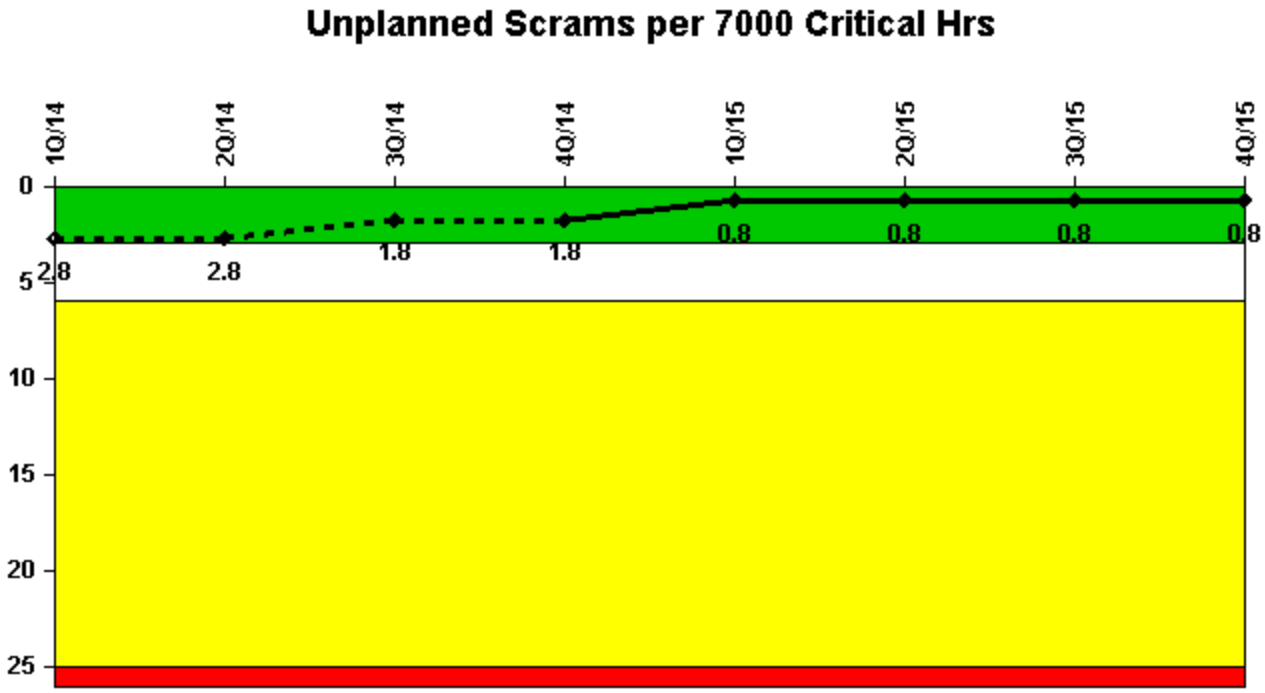
Grand Gulf 1

4Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none



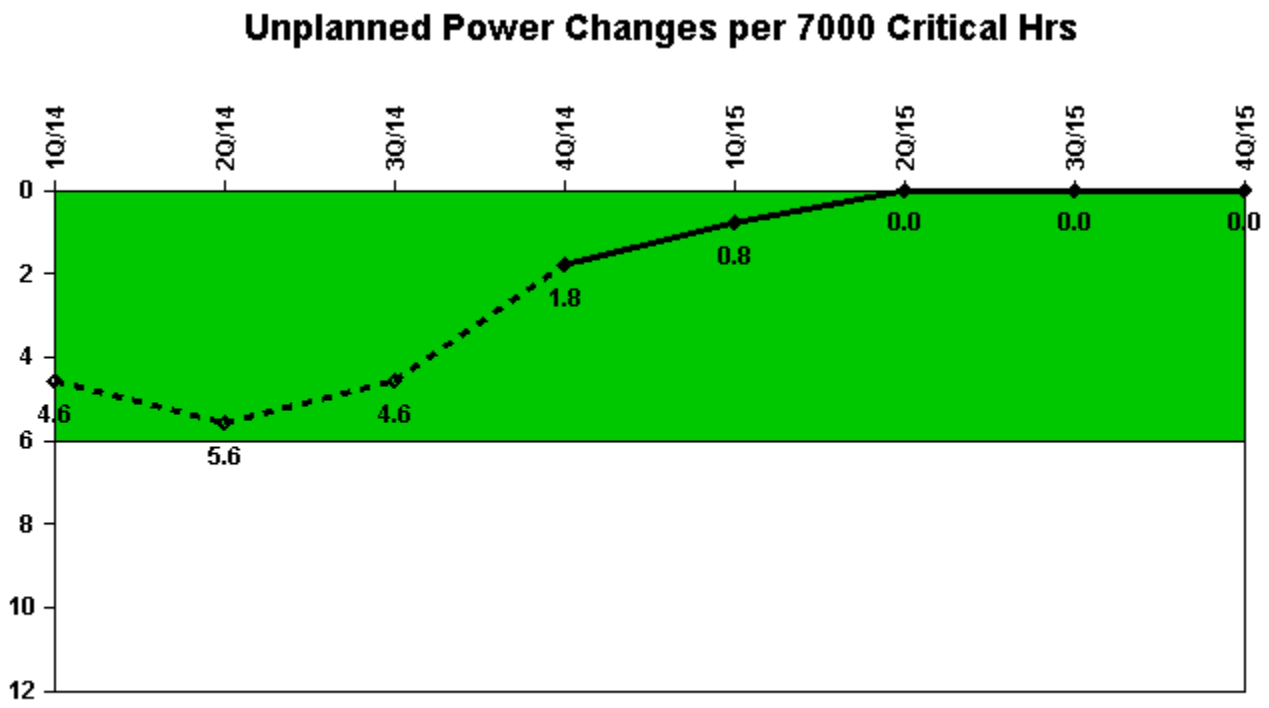
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned scrams	2.0	0	0	0	1.0	0	0	0
Critical hours	1238.2	2184.0	2208.0	2209.0	2005.0	2184.0	2208.0	2209.0
Indicator value	**2.8**	**2.8**	**1.8**	**1.8**	**0.8**	**0.8**	**0.8**	**0.8**

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 and 3/29/14 included in March data.



Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned power changes	1.0	1.0	0	0	0	0	0	0
Critical hours	1238.2	2184.0	2208.0	2209.0	2005.0	2184.0	2208.0	2209.0
Indicator value	**4.6**	**5.6**	**4.6**	**1.8**	**0.8**	**0**	**0**	**0**

Licensee Comments:

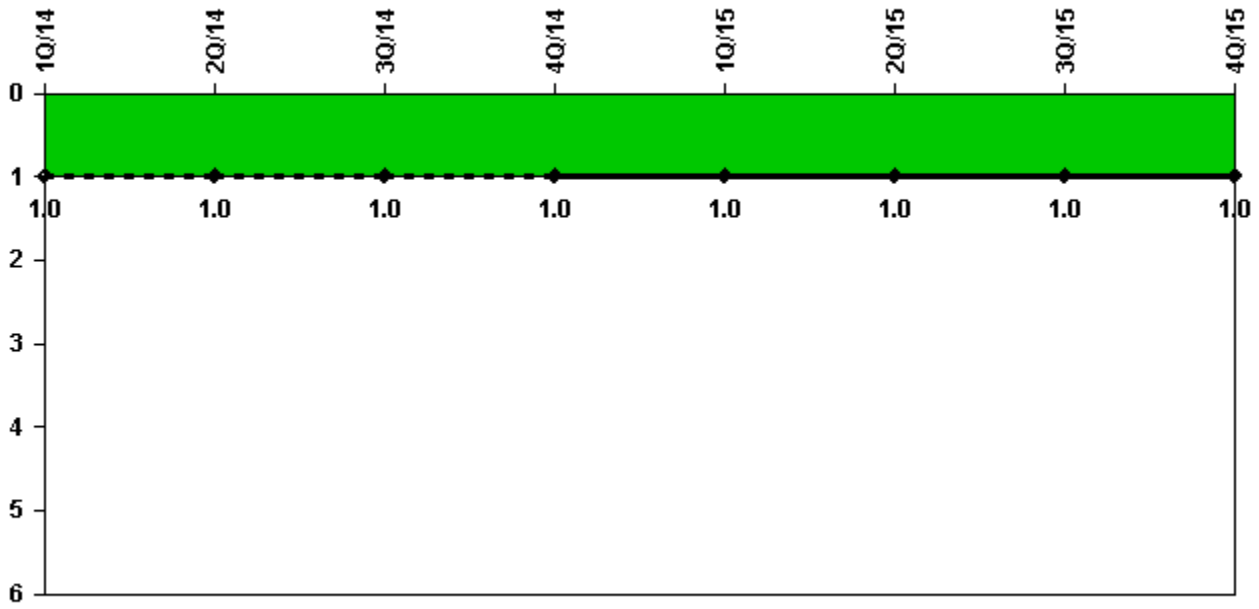
1Q/15: Grand Gulf has added one unplanned power change to 2Q2014. This event was incorrectly counted due to human error and has been added to the corrective action program.

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.

2Q/14: Grand Gulf added one unplanned power change to 2Q2014. This event was excluded in error and has been entered into the corrective action program.

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

Unplanned Scrams with Complications



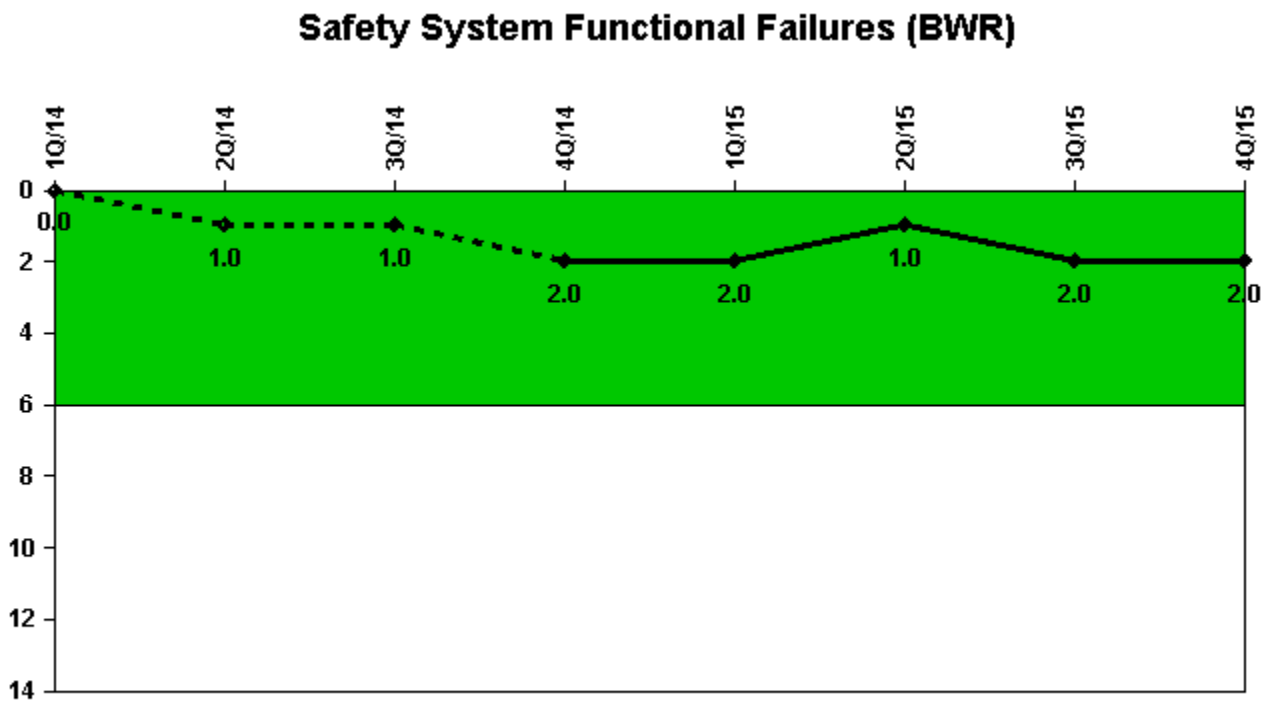
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Scrams with complications	1.0	0	0	0	1.0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

Licensee Comments:

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



Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Safety System Functional Failures	0	1	0	1	0	0	1	1
Indicator value	**0**	**1**	**1**	**2**	**2**	**1**	**2**	**2**

Licensee Comments:

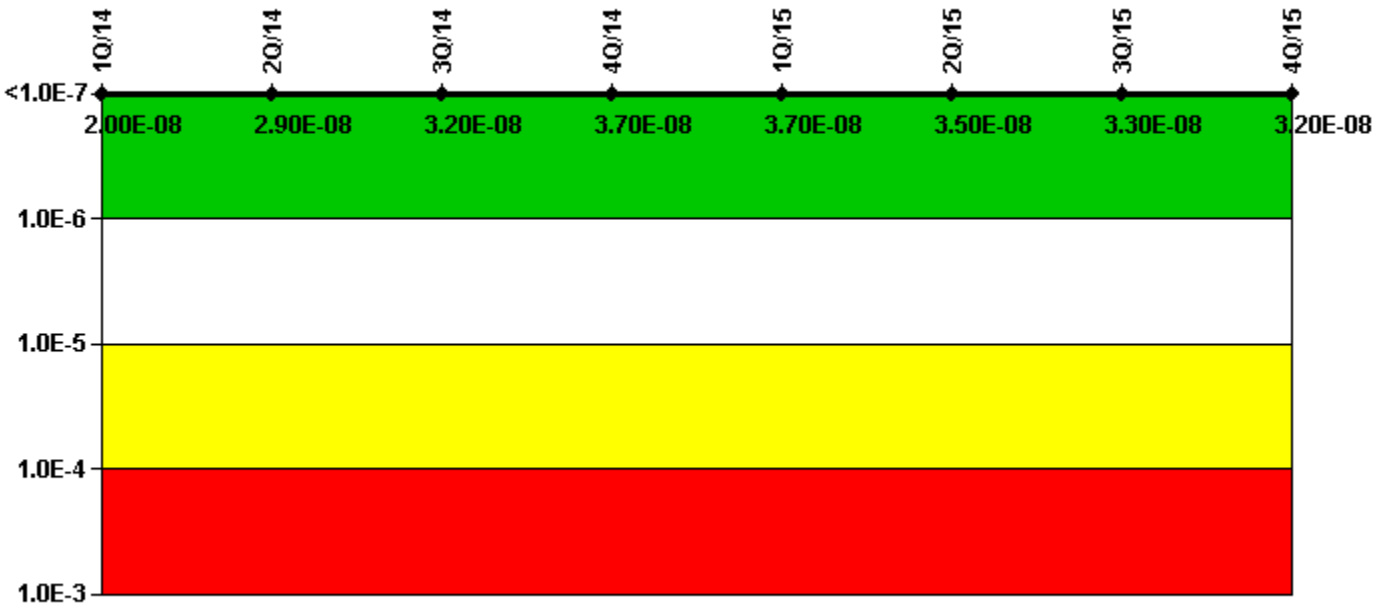
4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q14 and one in 4Q14

3Q/15: LER 2015-002-00 Documents one safety system functional failure in August 2015.

4Q/14: LER 2015-002-00 Documents one safety system functional failure in October 2014.

2Q/14: LER 2015-002-00 Documents one safety system functional failure in June 2014.

Mitigating Systems Performance Index, Emergency AC Power System



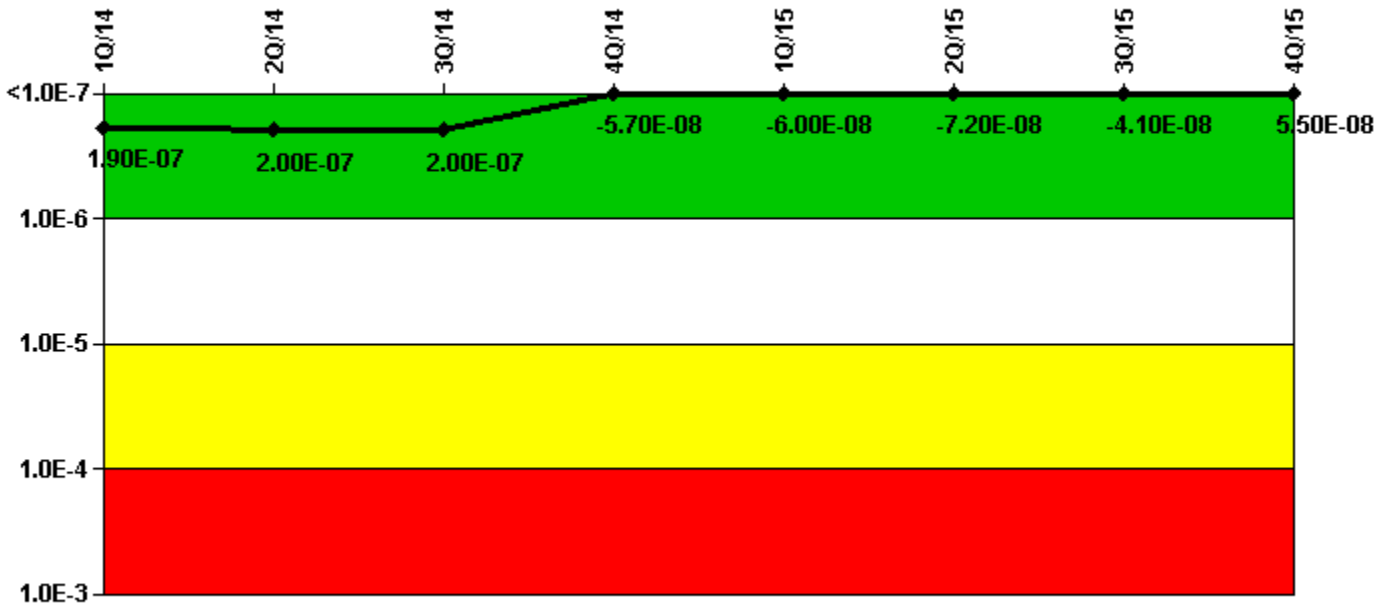
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	2.39E-09	1.12E-08	1.42E-08	1.90E-08	1.61E-08	1.41E-08	1.33E-08	1.31E-08
URI (ΔCDF)	1.78E-08	1.81E-08	1.74E-08	1.78E-08	2.13E-08	2.07E-08	1.94E-08	1.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.00E-08**	**2.90E-08**	**3.20E-08**	**3.70E-08**	**3.70E-08**	**3.50E-08**	**3.30E-08**	**3.20E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



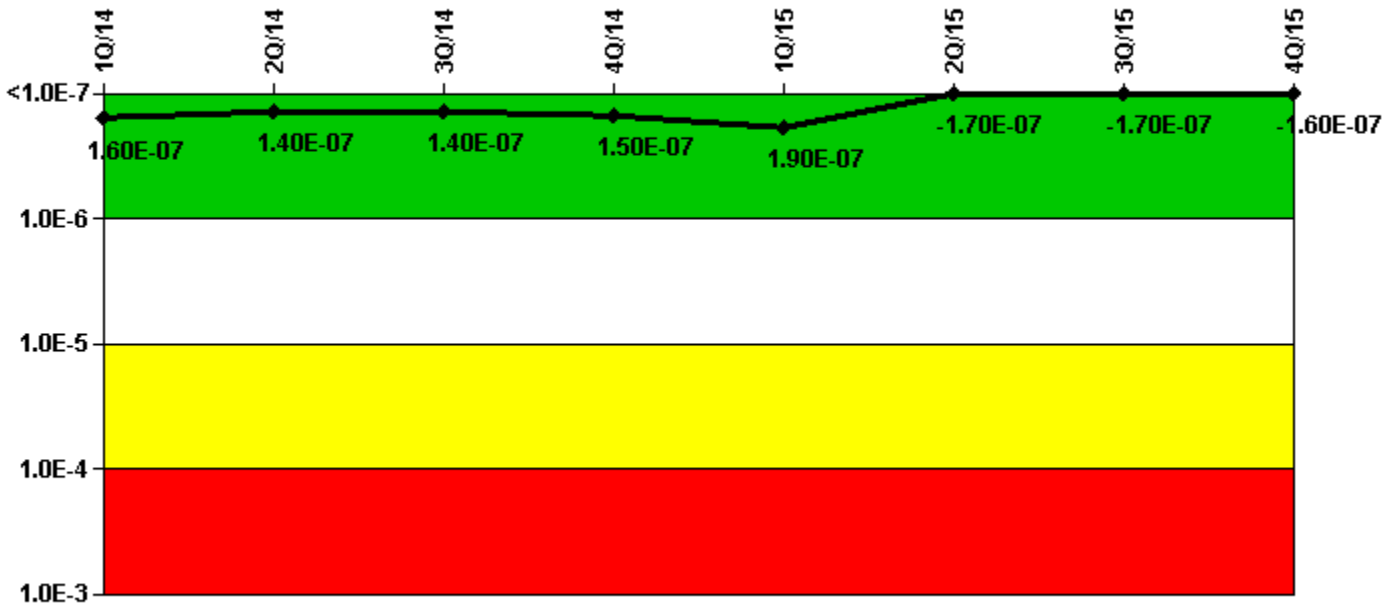
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	2.86E-07	2.85E-07	2.85E-07	2.16E-08	1.80E-08	3.12E-08	3.69E-08	1.36E-07
URI (ΔCDF)	-9.12E-08	-8.76E-08	-8.56E-08	-7.83E-08	-7.75E-08	-1.03E-07	-7.84E-08	-8.09E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.90E-07**	**2.00E-07**	**2.00E-07**	**-5.70E-08**	**-6.00E-08**	**-7.20E-08**	**-4.10E-08**	**5.50E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



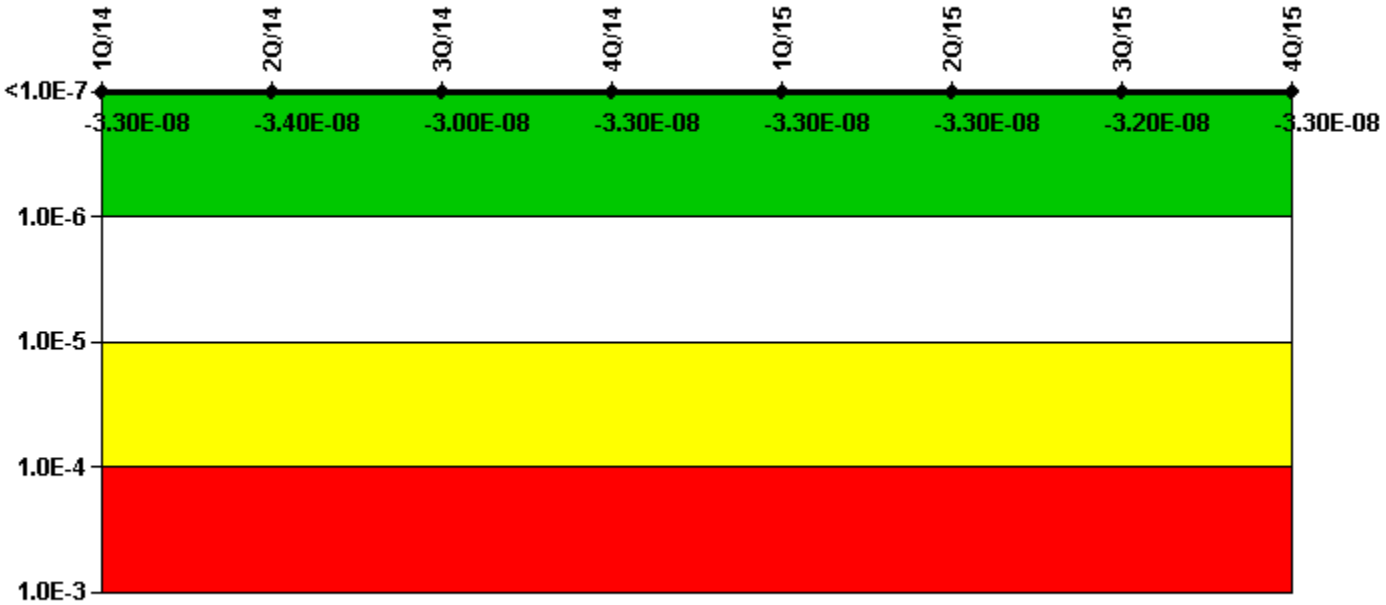
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (ΔCDF)	7.21E-09	7.21E-09	7.21E-09	2.43E-08	5.30E-08	2.80E-08	2.80E-08	2.73E-08
URI (ΔCDF)	1.49E-07	1.28E-07	1.28E-07	1.28E-07	1.35E-07	-1.99E-07	-1.96E-07	-1.90E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.60E-07**	**1.40E-07**	**1.40E-07**	**1.50E-07**	**1.90E-07**	**-1.70E-07**	**-1.70E-07**	**-1.60E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



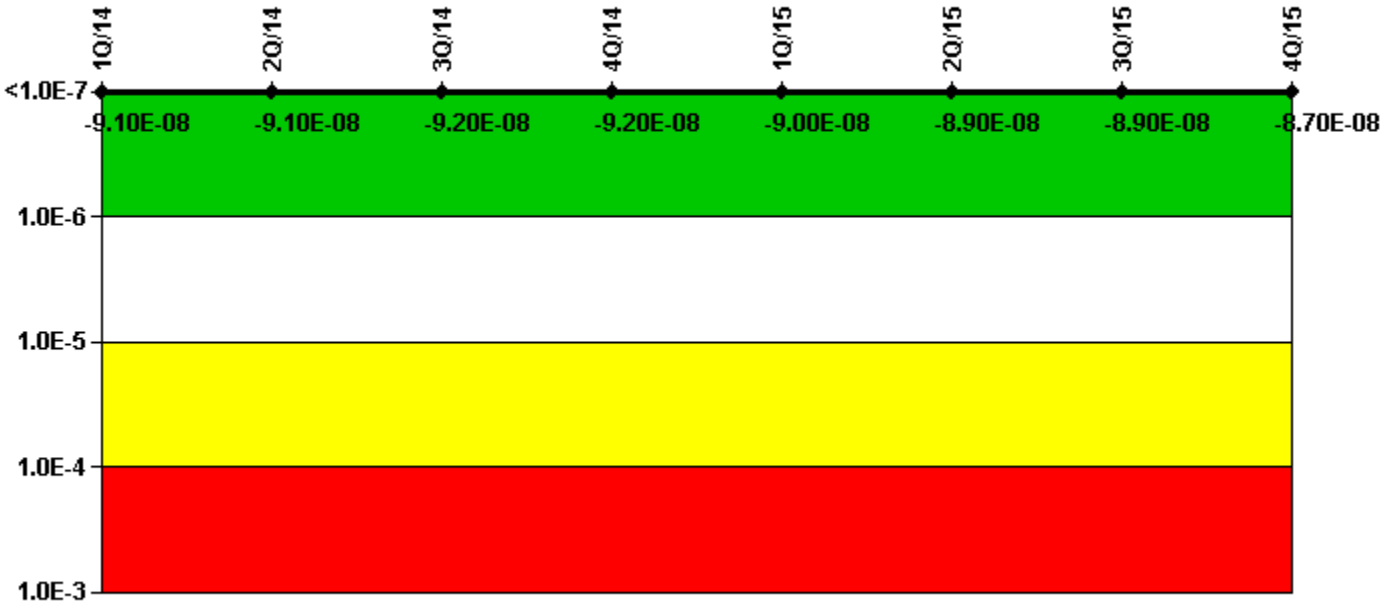
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	-8.56E-09	-8.56E-09	-3.39E-09	-6.21E-09	-7.80E-09	-8.56E-09	-7.32E-09	-8.56E-09
URI (ΔCDF)	-2.44E-08	-2.51E-08	-2.62E-08	-2.67E-08	-2.56E-08	-2.41E-08	-2.44E-08	-2.42E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.30E-08**	**-3.40E-08**	**-3.00E-08**	**-3.30E-08**	**-3.30E-08**	**-3.30E-08**	**-3.20E-08**	**-3.30E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



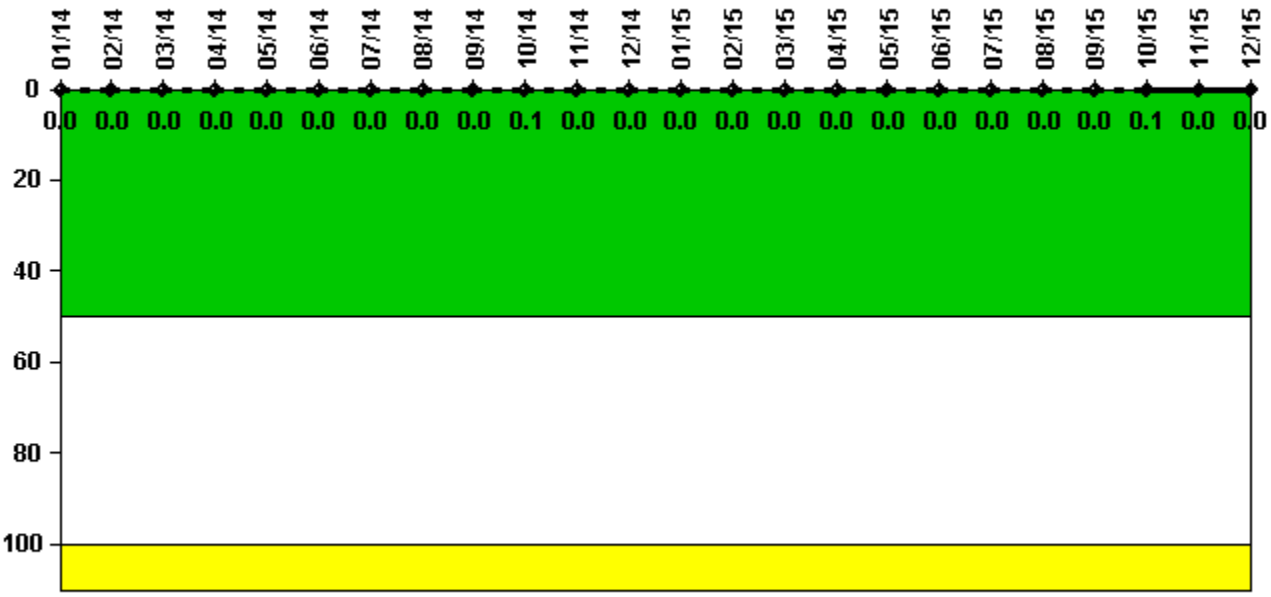
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI (ΔCDF)	-8.97E-08	-8.97E-08	-9.03E-08	-9.01E-08	-8.87E-08	-8.77E-08	-8.70E-08	-8.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.10E-08**	**-9.10E-08**	**-9.20E-08**	**-9.20E-08**	**-9.00E-08**	**-8.90E-08**	**-8.90E-08**	**-8.70E-08**

Licensee Comments: none

Reactor Coolant System Activity

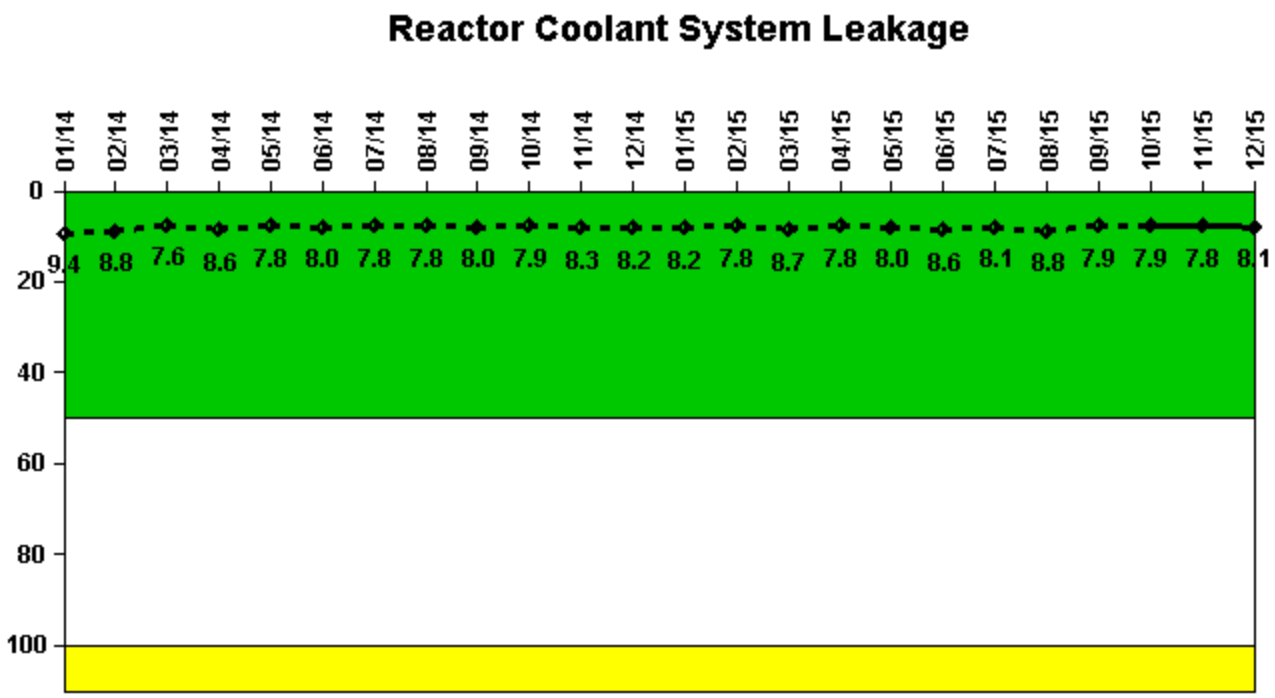


Thresholds: White > 50.0 Yellow > 100.0

Notes

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**
Reactor Coolant System Activity	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**
Maximum activity	0.000021	0.000008	0.000093	0.000036	0.000037	0.000039	0.000063	0.000079	0.000092	0.000116	0.000033	0.000053
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: none

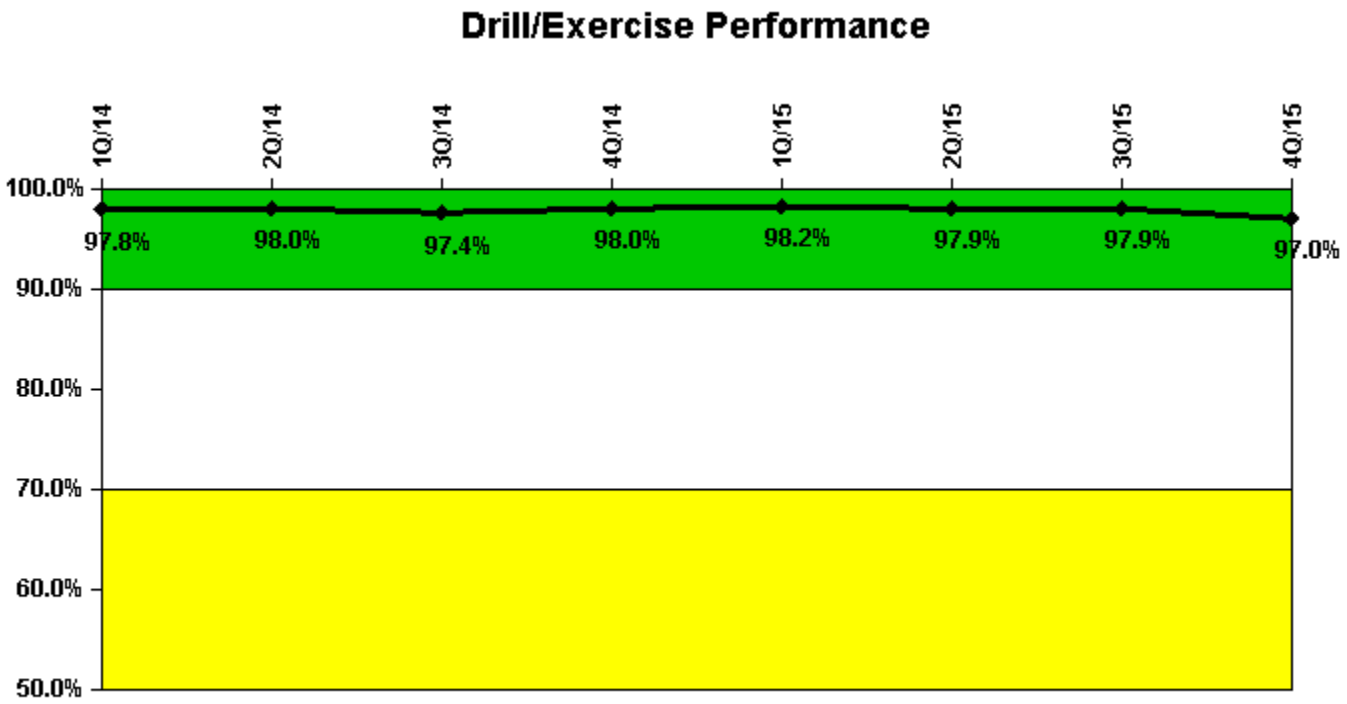


Thresholds: White > 50.0 Yellow > 100.0

Notes

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
Indicator value	**9.4**	**8.8**	**7.6**	**8.6**	**7.8**	**8.0**	**7.8**	**7.8**	**8.0**	**7.9**	**8.3**	**8.2**
Reactor Coolant System Leakage	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**
Maximum leakage	2.460	2.330	2.600	2.350	2.400	2.580	2.440	2.630	2.370	2.370	2.350	2.430
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
Indicator value	**8.2**	**7.8**	**8.7**	**7.8**	**8.0**	**8.6**	**8.1**	**8.8**	**7.9**	**7.9**	**7.8**	**8.1**

Licensee Comments: none



Thresholds: White < 90.0% Yellow < 70.0%

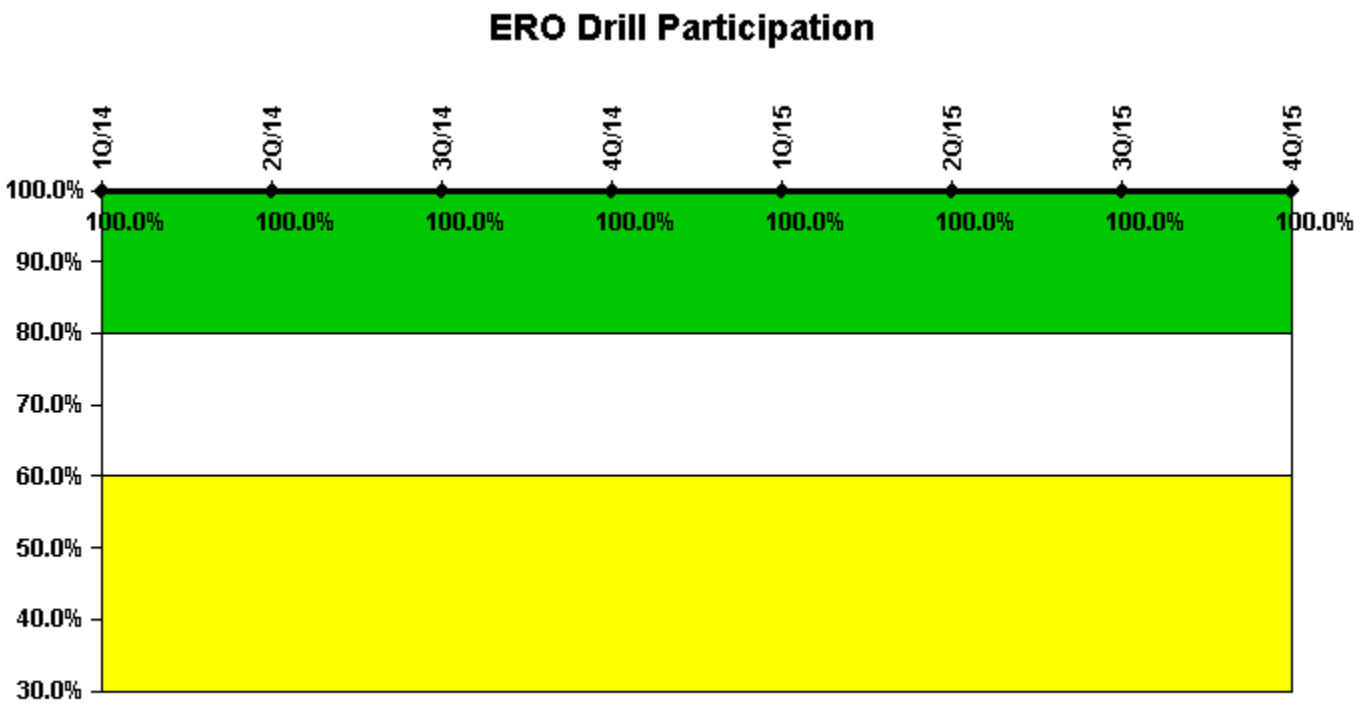
Notes

Drill/Exercise Performance	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful opportunities	10.0	24.0	51.0	50.0	25.0	31.0	17.0	51.0
Total opportunities	10.0	24.0	54.0	50.0	26.0	33.0	17.0	53.0
Indicator value	**97.8%**	**98.0%**	**97.4%**	**98.0%**	**98.2%**	**97.9%**	**97.9%**	**97.0%**

Licensee Comments:

1Q/15: Performed data update for the data reported in January 2015 (RAM 7-3-15)

3Q/14: Performed update to the data reported in August 2014 (RAM 7-3-2015)

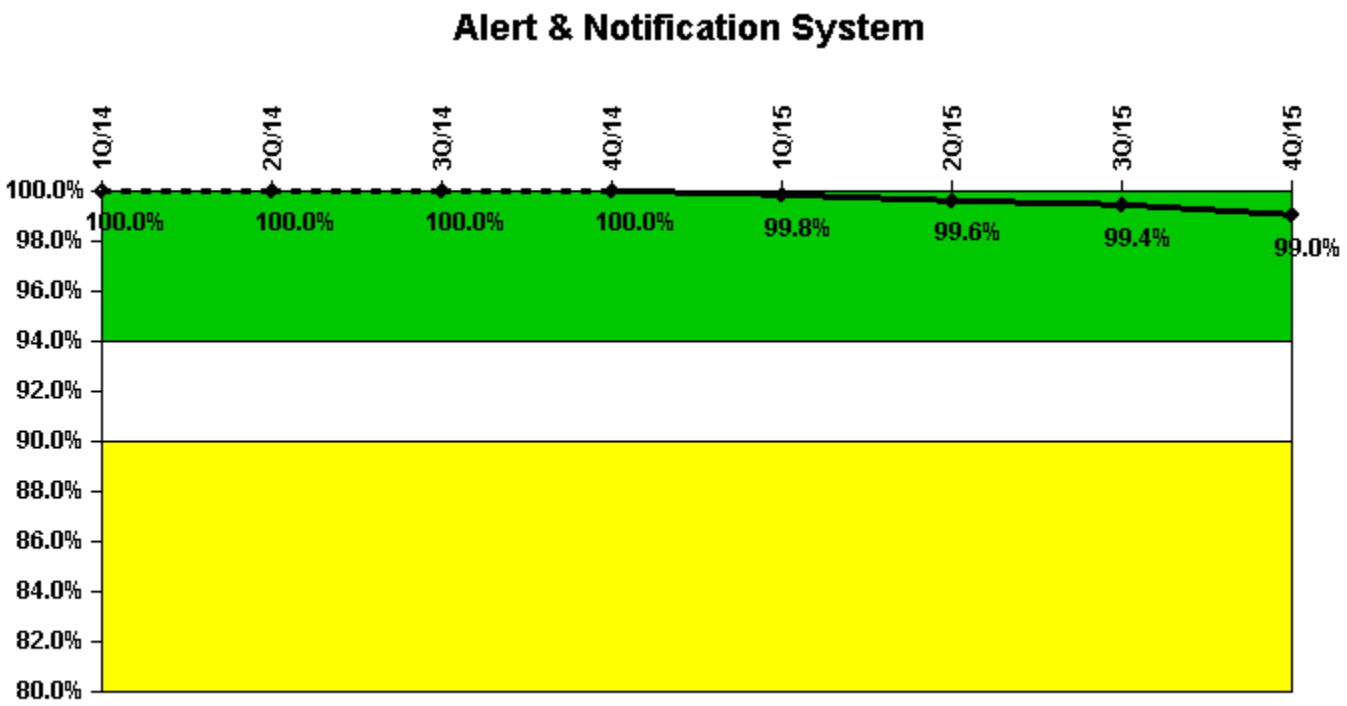


Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Participating Key personnel	68.0	71.0	63.0	64.0	62.0	65.0	64.0	66.0
Total Key personnel	68.0	71.0	63.0	64.0	62.0	65.0	64.0	66.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

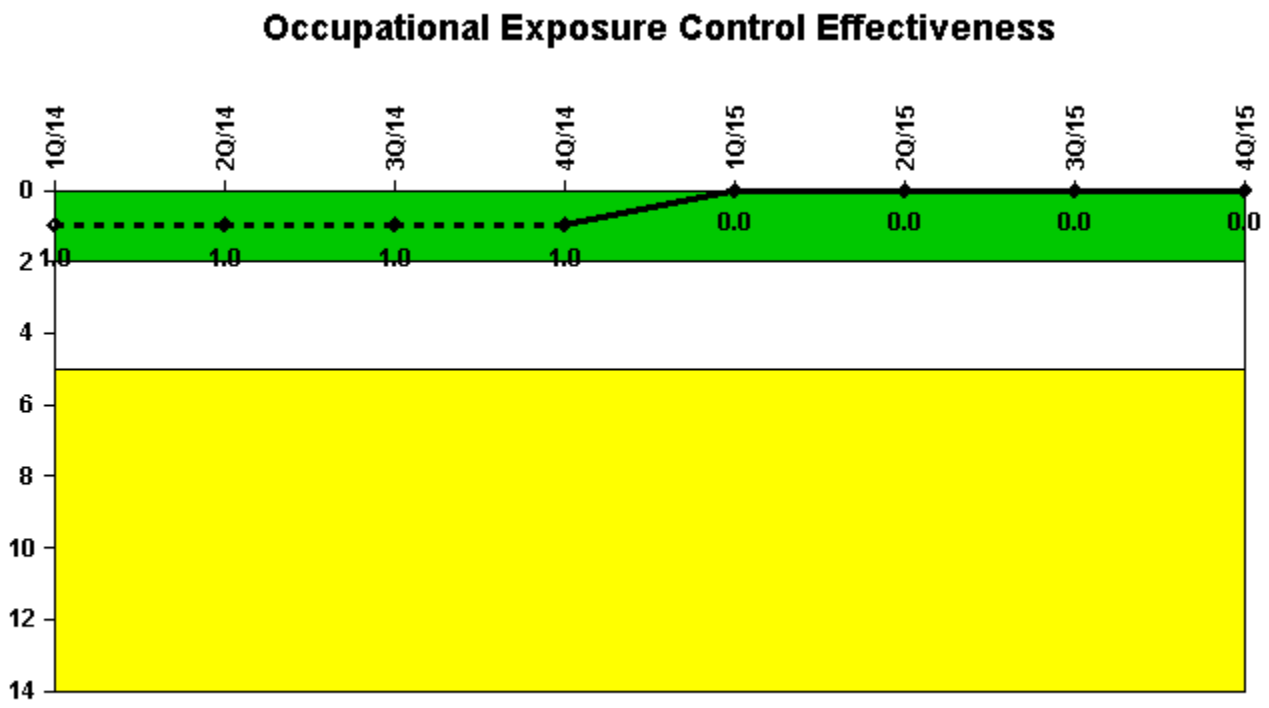


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful siren-tests	129	129	129	129	128	126	126	127
Total sirens-tests	129	129	129	129	129	127	127	129
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.8%**	**99.6%**	**99.4%**	**99.0%**

Licensee Comments: none



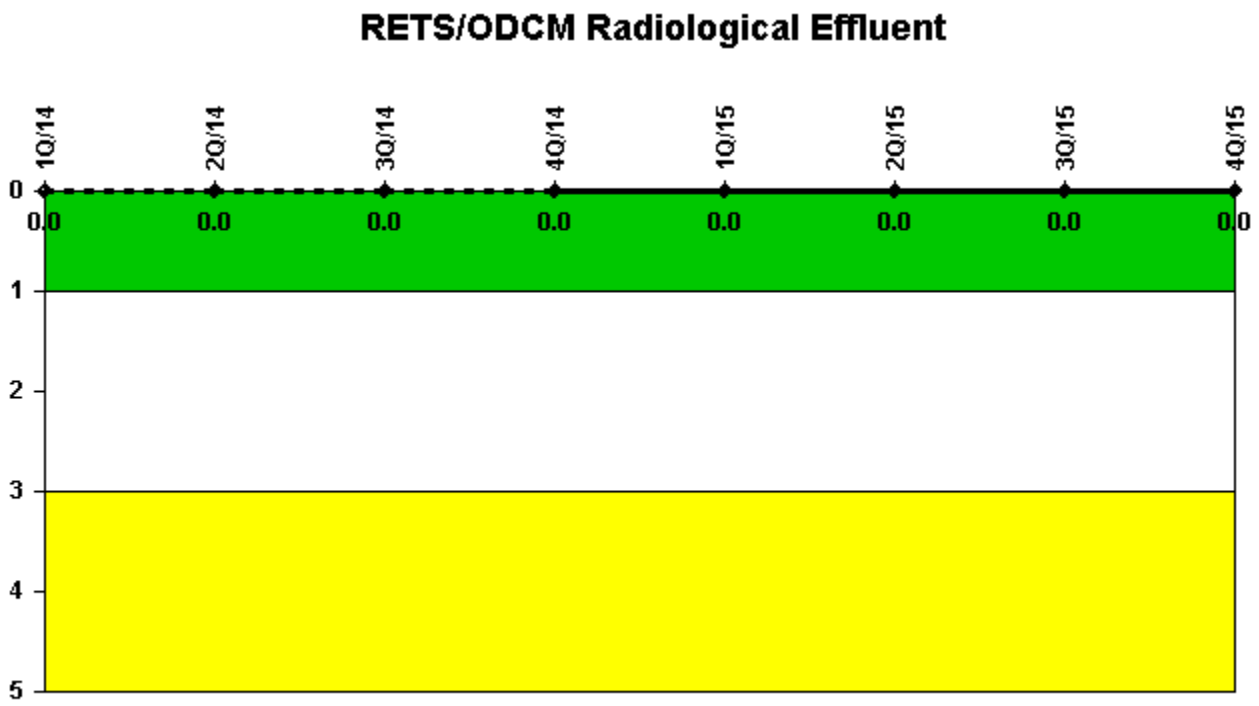
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
High radiation area occurrences	1	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**	**1**	**0**	**0**	**0**	**0**

Licensee Comments:

1Q/14: March data inludes event for a bucket containing irradiated components being lifted without proper controls being in place.



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
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: March 1, 2016