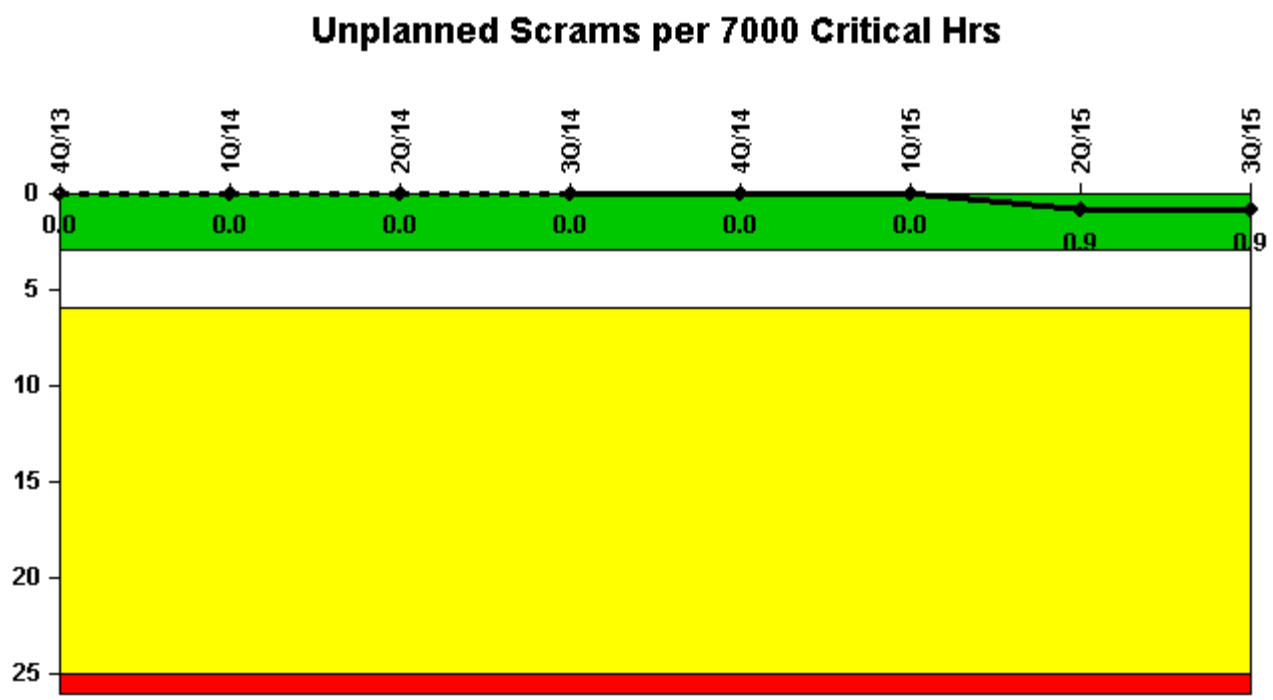
Quad Cities 1

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

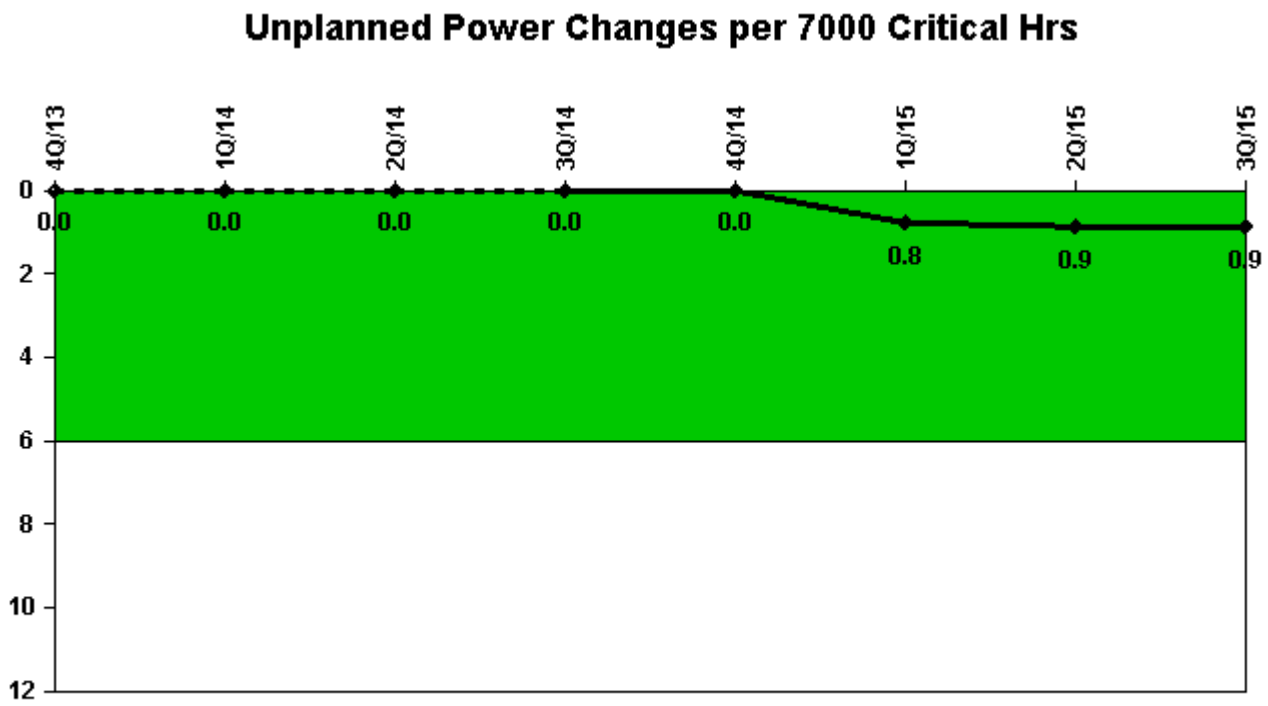


Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	2209.0	1668.0	2125.7	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**

Licensee Comments: none

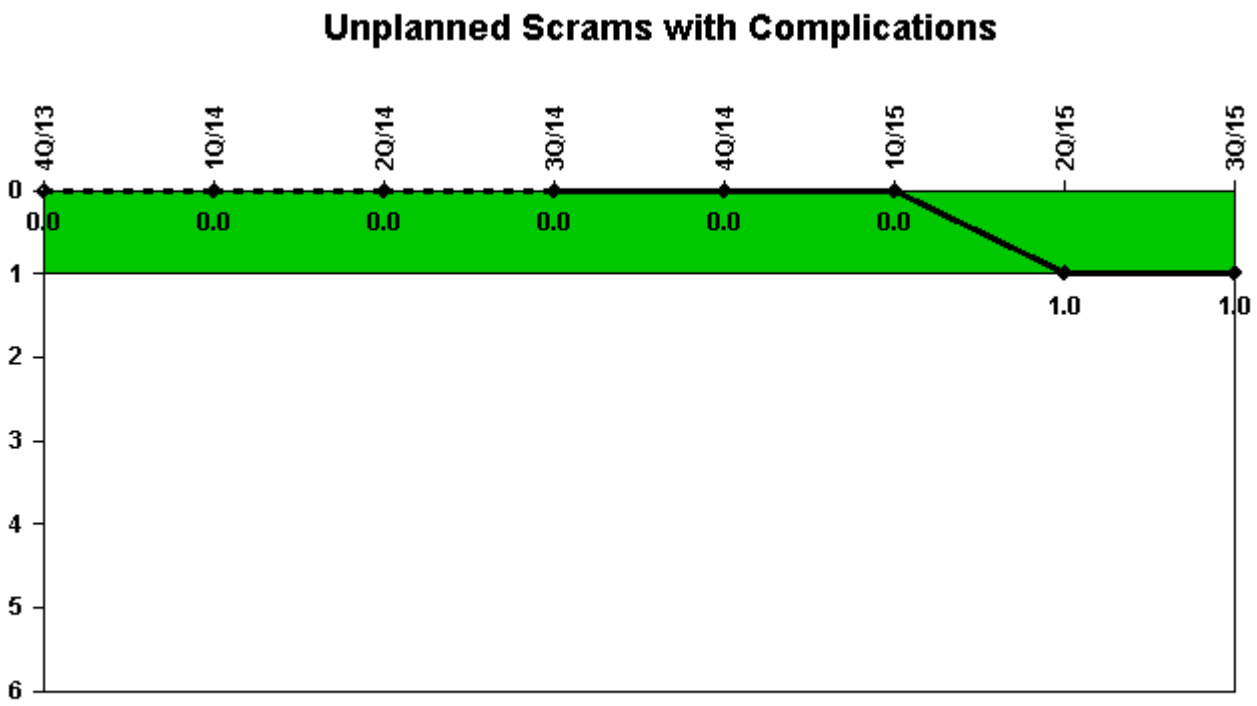


Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	2209.0	1668.0	2125.7	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.8**	**0.9**	**0.9**

Licensee Comments: none

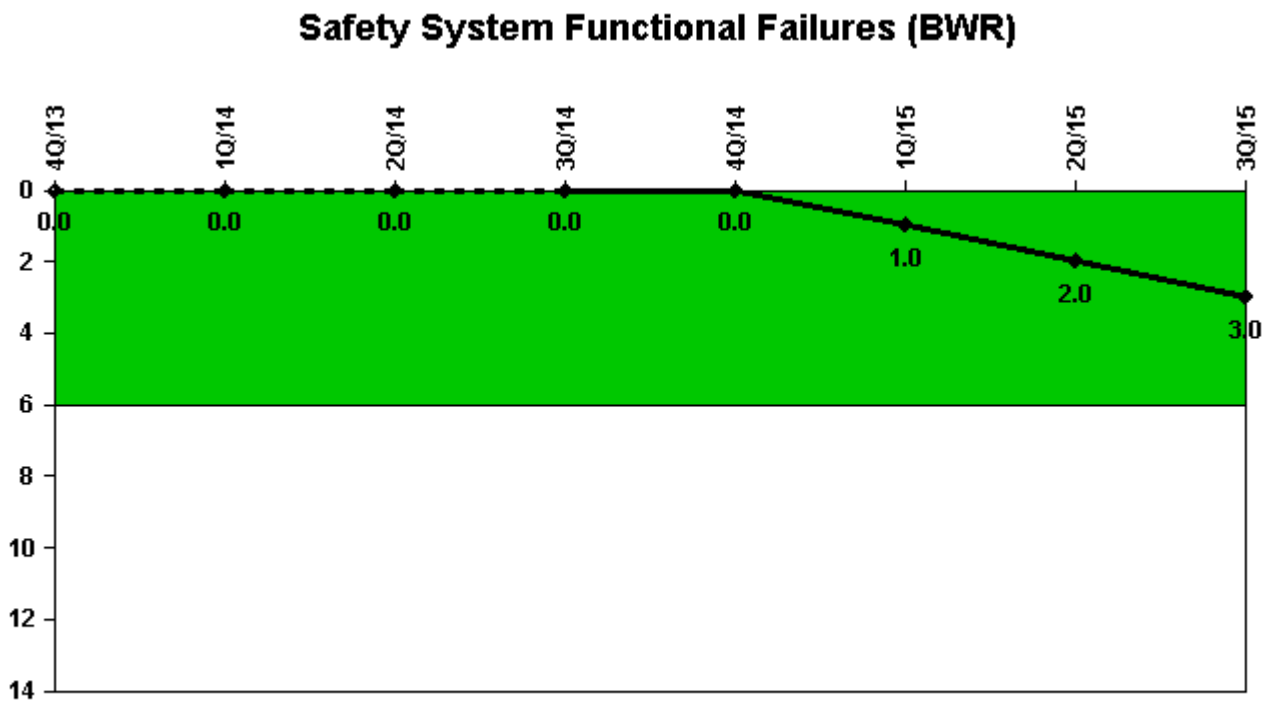


Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Scrams with complications	0	0	0	0	0	0	1.0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**

Licensee Comments: none



Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	0	0	0	0	0	1	1	1
Indicator value	**0**	**0**	**0**	**0**	**0**	**1**	**2**	**3**

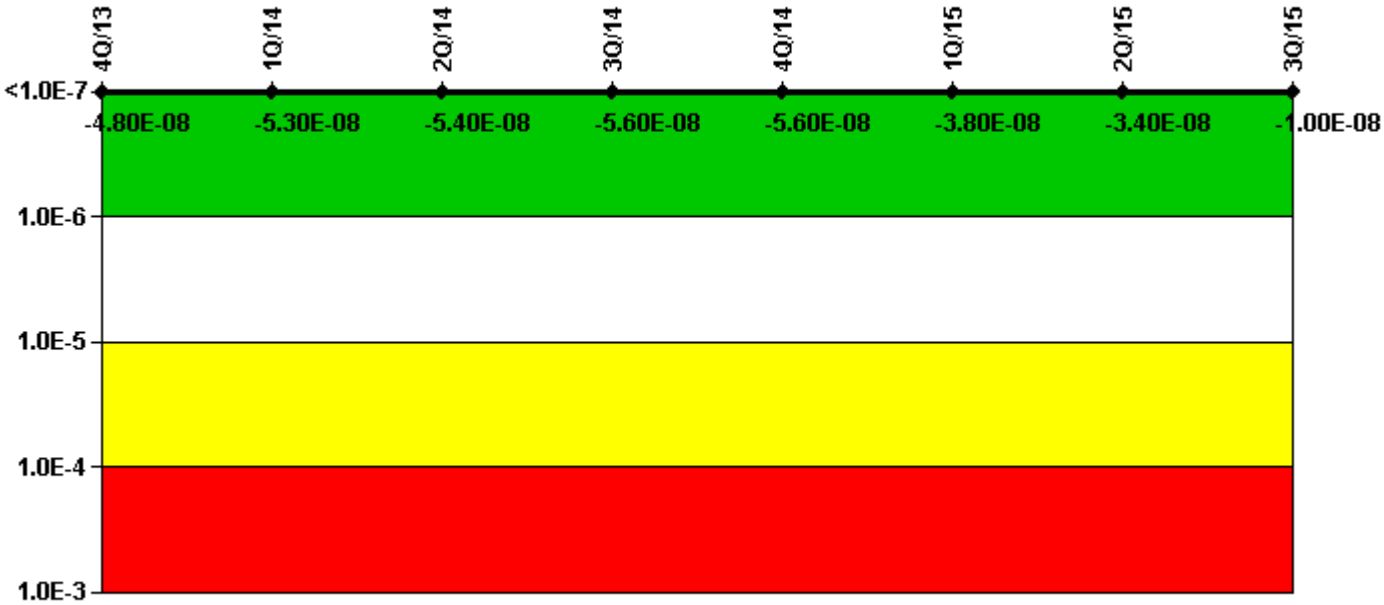
Licensee Comments:

3Q/15: LER 254/2015-009-00, Loss of Control Room Emergency Ventilation System Due to Air Filtration Unit Damper Failure (affects Units 1 and 2)

2Q/15: LER 254/2015-004-00, Automatic Depressurization System Trip Logic Failure

1Q/15: LER 254/2014-005-00, Main Control Room Door Unable to Close Causes Loss of Control Room Envelope Boundary (affects BOTH units)

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

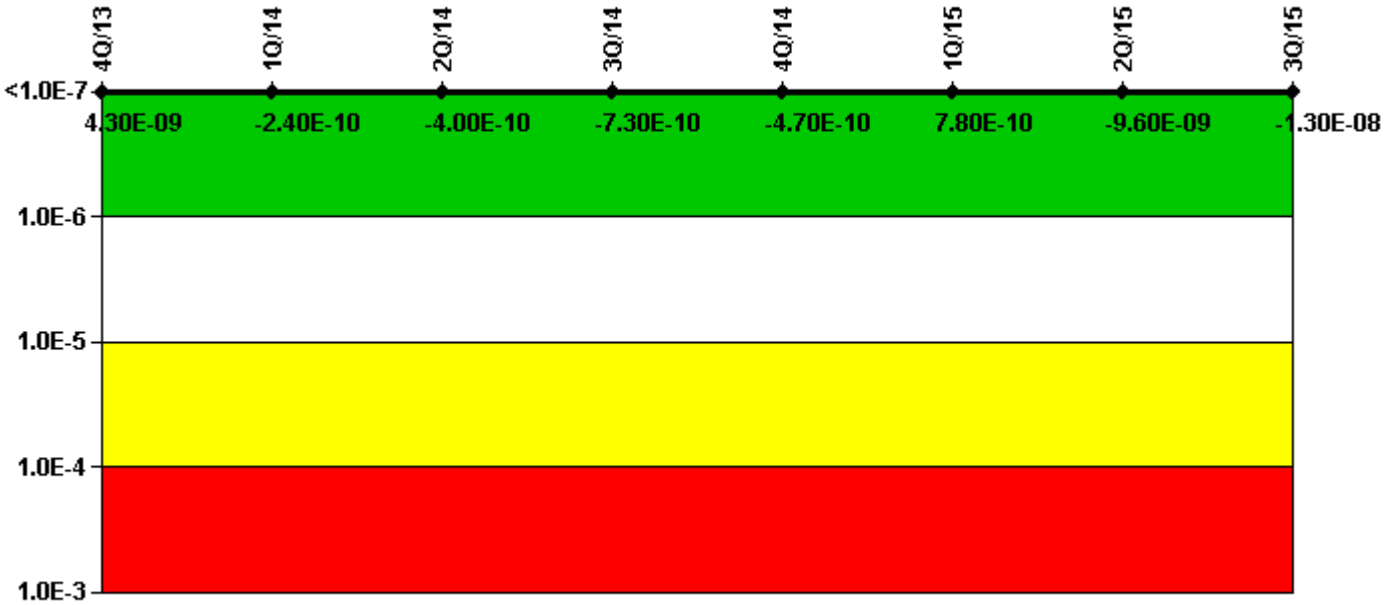
Mitigating Systems Performance Index, Emergency AC Power System	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	2.38E-08	1.46E-08	1.07E-08	8.61E-09	9.43E-09	2.75E-08	3.65E-08	5.97E-08
URI (ΔCDF)	-7.16E-08	-6.72E-08	-6.51E-08	-6.43E-08	-6.50E-08	-6.52E-08	-7.01E-08	-7.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.80E-08**	**-5.30E-08**	**-5.40E-08**	**-5.60E-08**	**-5.60E-08**	**-3.80E-08**	**-3.40E-08**	**-1.00E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s). Changed PRA Parameter(s).

4Q/14: Includes endurance run and short work window

Mitigating Systems Performance Index, High Pressure Injection System



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

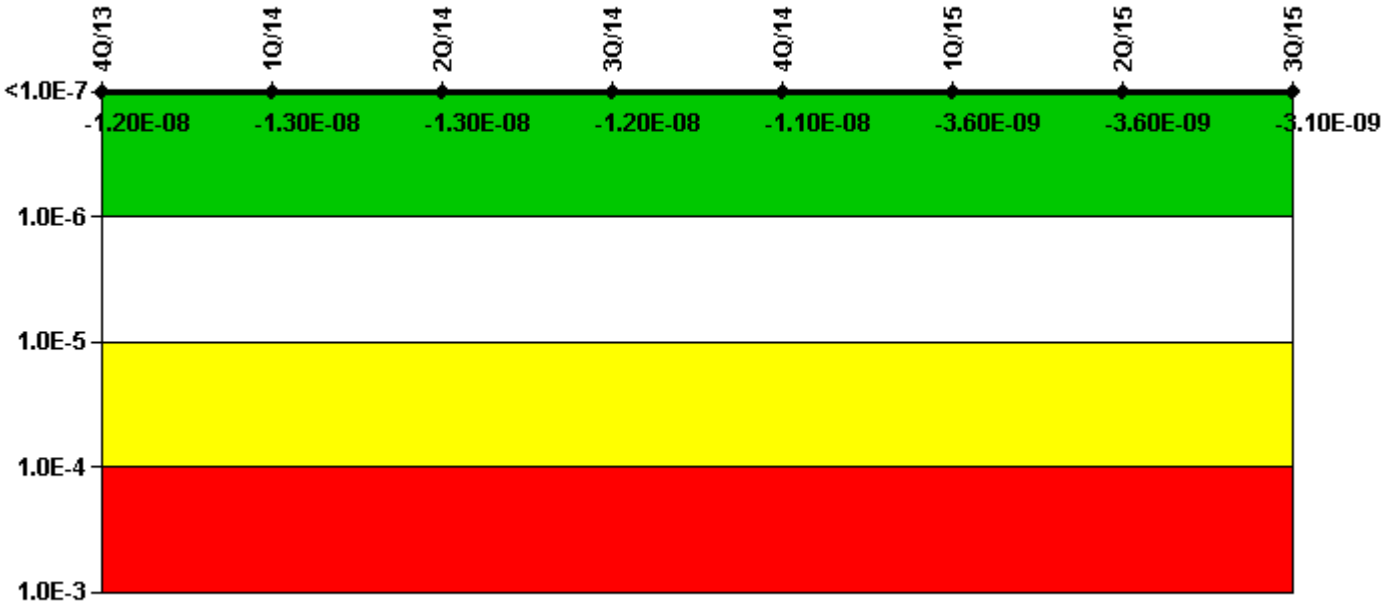
Notes

Mitigating Systems Performance Index, High Pressure Injection System	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	1.92E-08	1.41E-08	1.33E-08	1.30E-08	1.32E-08	1.57E-08	9.81E-09	6.63E-09
URI (ΔCDF)	-1.49E-08	-1.43E-08	-1.37E-08	-1.37E-08	-1.37E-08	-1.49E-08	-1.94E-08	-1.94E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.30E-09**	**-2.40E-10**	**-4.00E-10**	**-7.30E-10**	**-4.70E-10**	**7.80E-10**	**-9.60E-09**	**-1.30E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s). Changed PRA Parameter(s).

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/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	1.11E-09	4.77E-10	-1.20E-09	-9.18E-10	4.42E-10	-2.17E-09	-2.37E-09	-1.84E-09
URI (ΔCDF)	-1.31E-08	-1.31E-08	-1.15E-08	-1.15E-08	-1.15E-08	-1.38E-09	-1.22E-09	-1.22E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.30E-08**	**-1.30E-08**	**-1.20E-08**	**-1.10E-08**	**-3.60E-09**	**-3.60E-09**	**-3.10E-09**

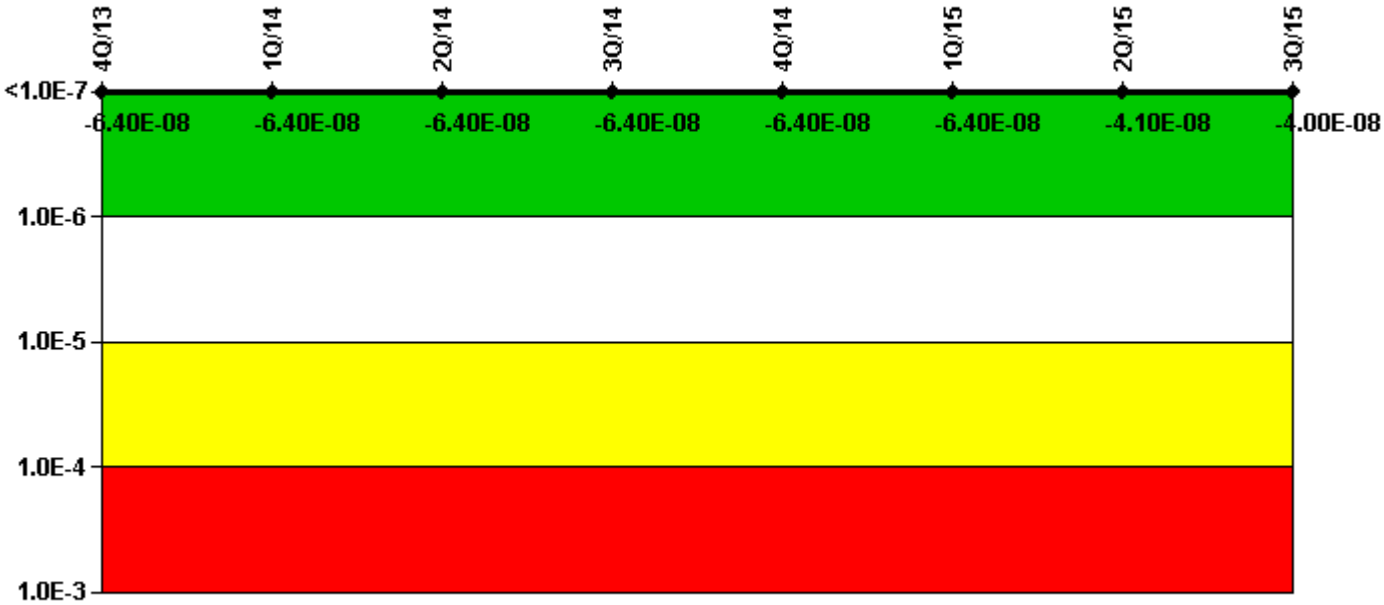
Licensee Comments:

2Q/15: Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s). Changed PRA Parameter(s).

1Q/15: 1-1301-61 valve failure

Mitigating Systems Performance Index, Residual Heat Removal System



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

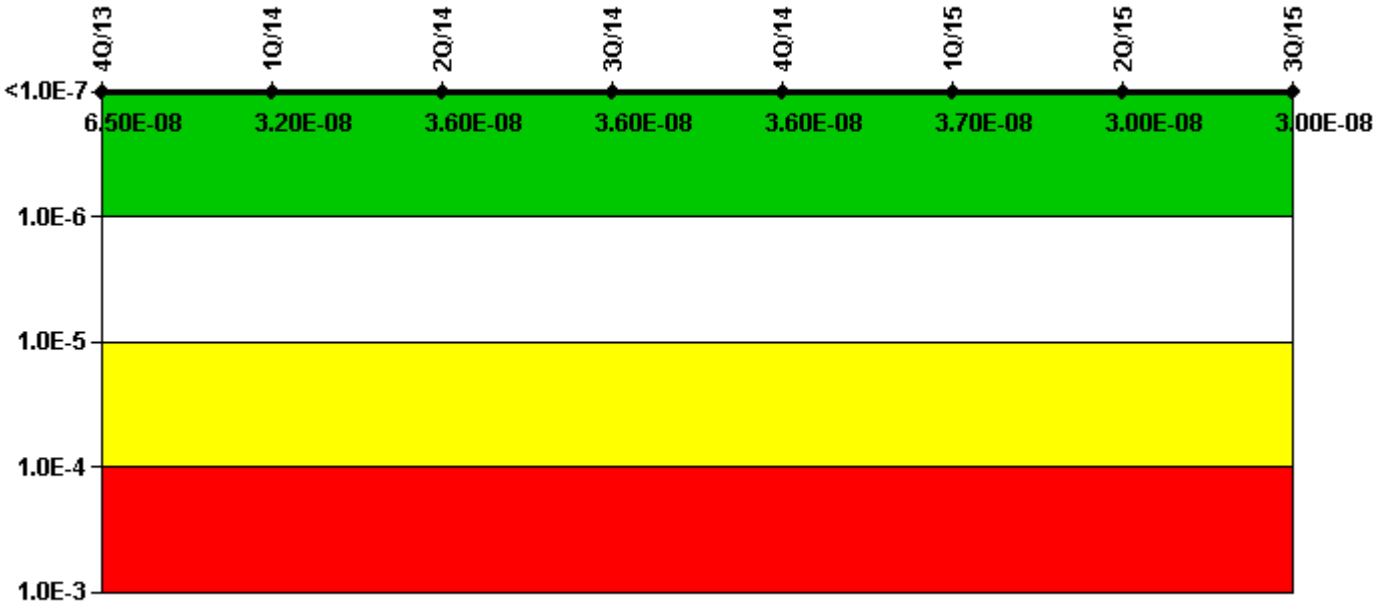
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	-2.38E-08	-2.38E-08	-2.38E-08	-2.38E-08	-2.38E-08	-2.38E-08	-1.35E-08	-1.35E-08
URI (ΔCDF)	-4.06E-08	-4.06E-08	-4.06E-08	-4.06E-08	-4.06E-08	-4.06E-08	-2.77E-08	-2.65E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.40E-08**	**-6.40E-08**	**-6.40E-08**	**-6.40E-08**	**-6.40E-08**	**-6.40E-08**	**-4.10E-08**	**-4.00E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s). Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



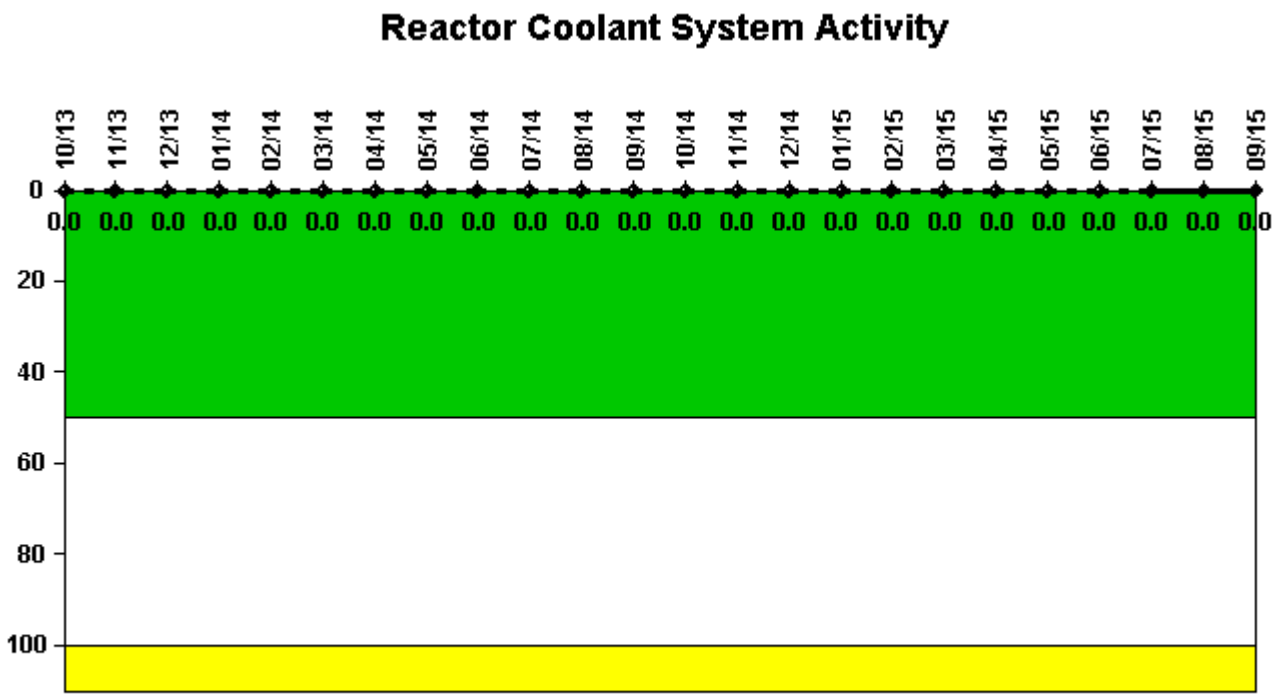
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	6.52E-08	3.23E-08	3.68E-08	3.68E-08	3.68E-08	3.80E-08	3.01E-08	3.01E-08
URI (ΔCDF)	-5.28E-10	-5.28E-10	-5.28E-10	-5.28E-10	-5.28E-10	-5.28E-10	-1.39E-10	-1.39E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**6.50E-08**	**3.20E-08**	**3.60E-08**	**3.60E-08**	**3.60E-08**	**3.70E-08**	**3.00E-08**	**3.00E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s). Changed PRA Parameter(s).



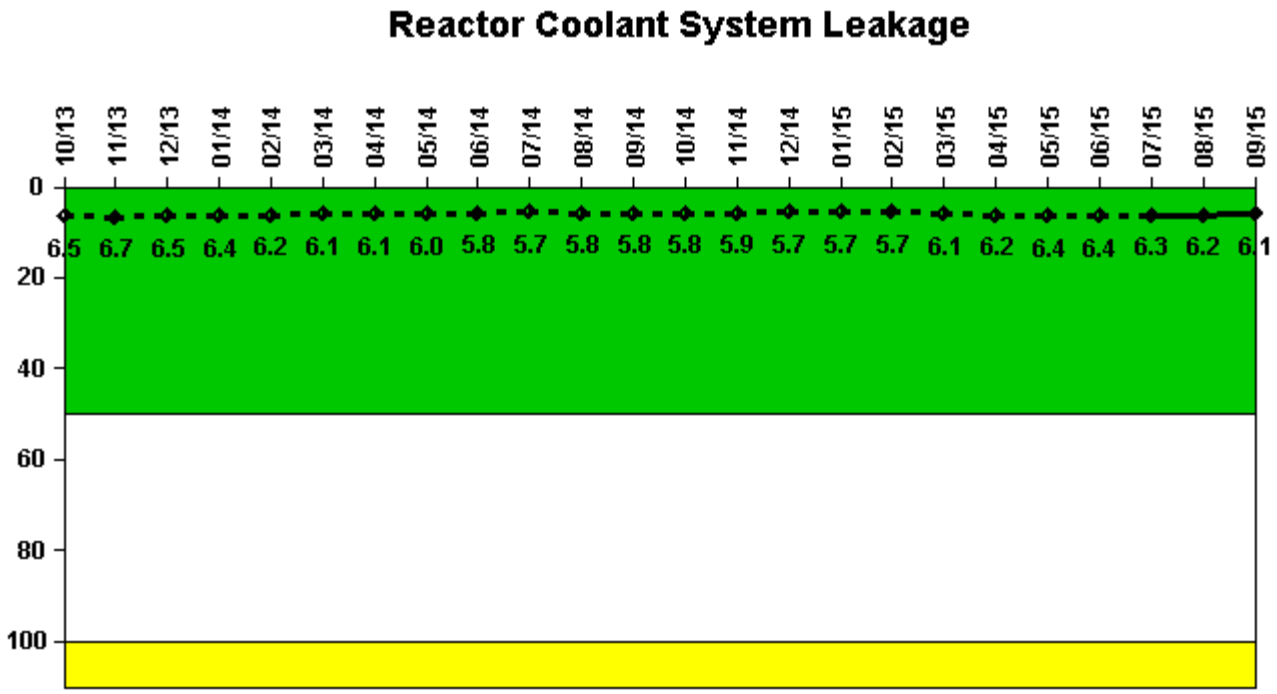
Thresholds: White > 50.0 Yellow > 100.0

Notes

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	0.000014	0.000014	0.000014	0.000017	0.000015	0.000014	0.000021	0.000021	0.000024	0.000028	0.000039	0.000030
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**	**0**	**0**

Reactor Coolant System Activity	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum activity	0.000037	0.000035	0.000035	0.000029	0.000041	0.000027	0.000029	0.000031	0.000029	0.000032	0.000054	0.000043
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**	**0**	**0**

Licensee Comments: none

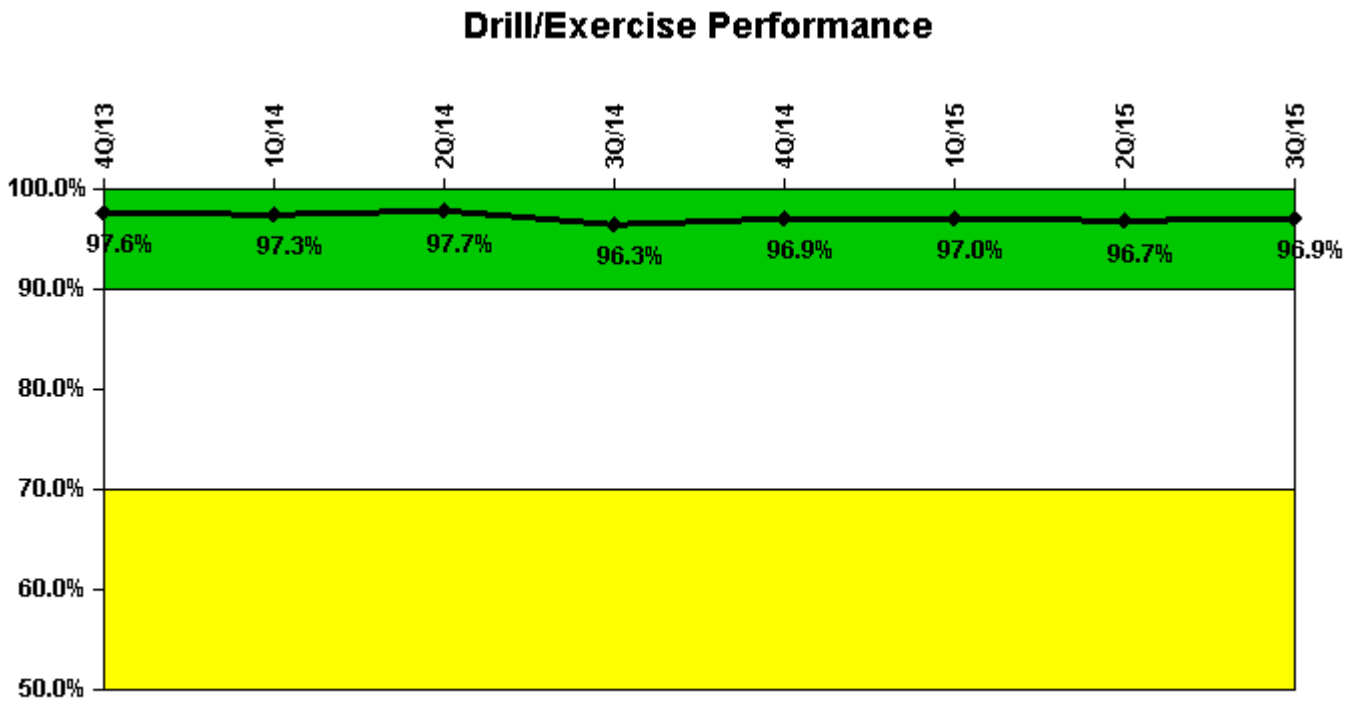


Thresholds: White > 50.0 Yellow > 100.0

Notes

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	1.628	1.676	1.629	1.592	1.558	1.526	1.514	1.488	1.462	1.433	1.448	1.438
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.5**	**6.7**	**6.5**	**6.4**	**6.2**	**6.1**	**6.1**	**6.0**	**5.8**	**5.7**	**5.8**	**5.8**
Reactor Coolant System Leakage	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum leakage	1.438	1.472	1.429	1.426	1.426	1.533	1.562	1.594	1.605	1.585	1.556	1.517
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**5.8**	**5.9**	**5.7**	**5.7**	**5.7**	**6.1**	**6.2**	**6.4**	**6.4**	**6.3**	**6.2**	**6.1**

Licensee Comments: none

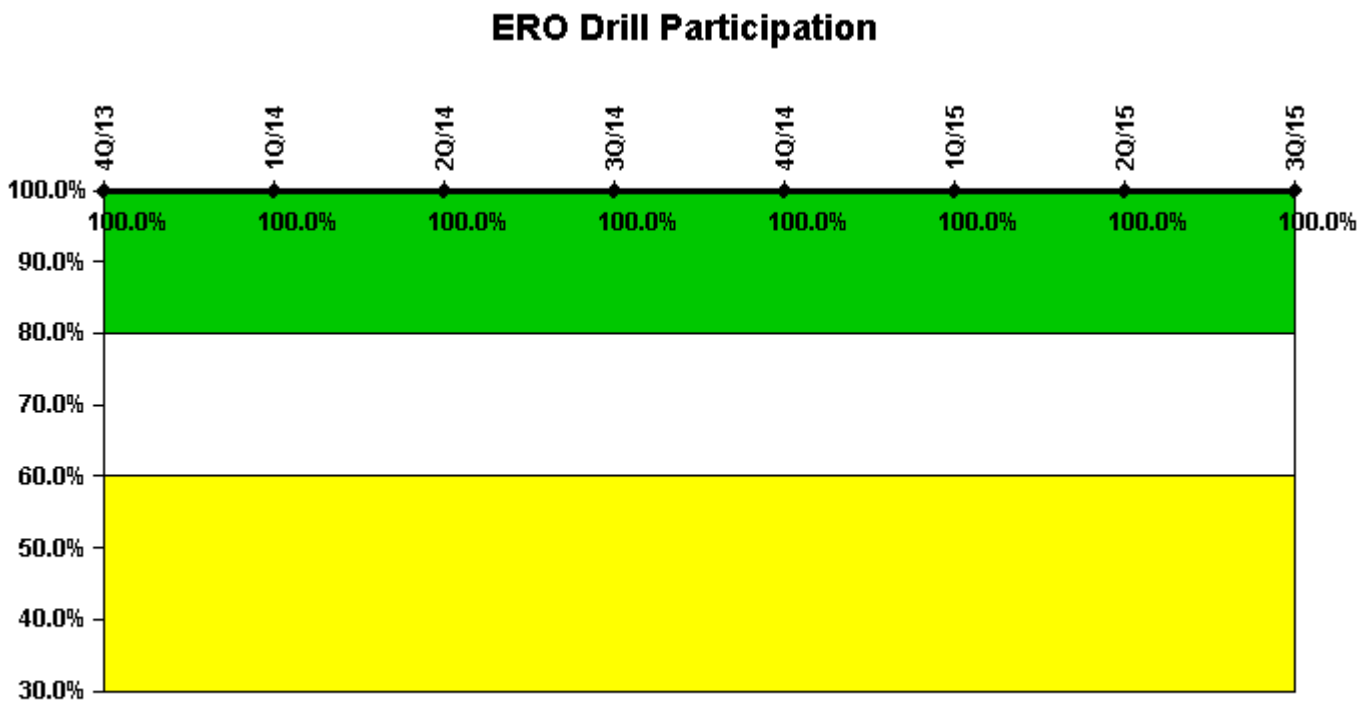


Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful opportunities	26.0	15.0	51.0	40.0	22.0	28.0	48.0	21.0
Total opportunities	26.0	15.0	52.0	45.0	22.0	28.0	49.0	22.0
Indicator value	**97.6%**	**97.3%**	**97.7%**	**96.3%**	**96.9%**	**97.0%**	**96.7%**	**96.9%**

Licensee Comments: none

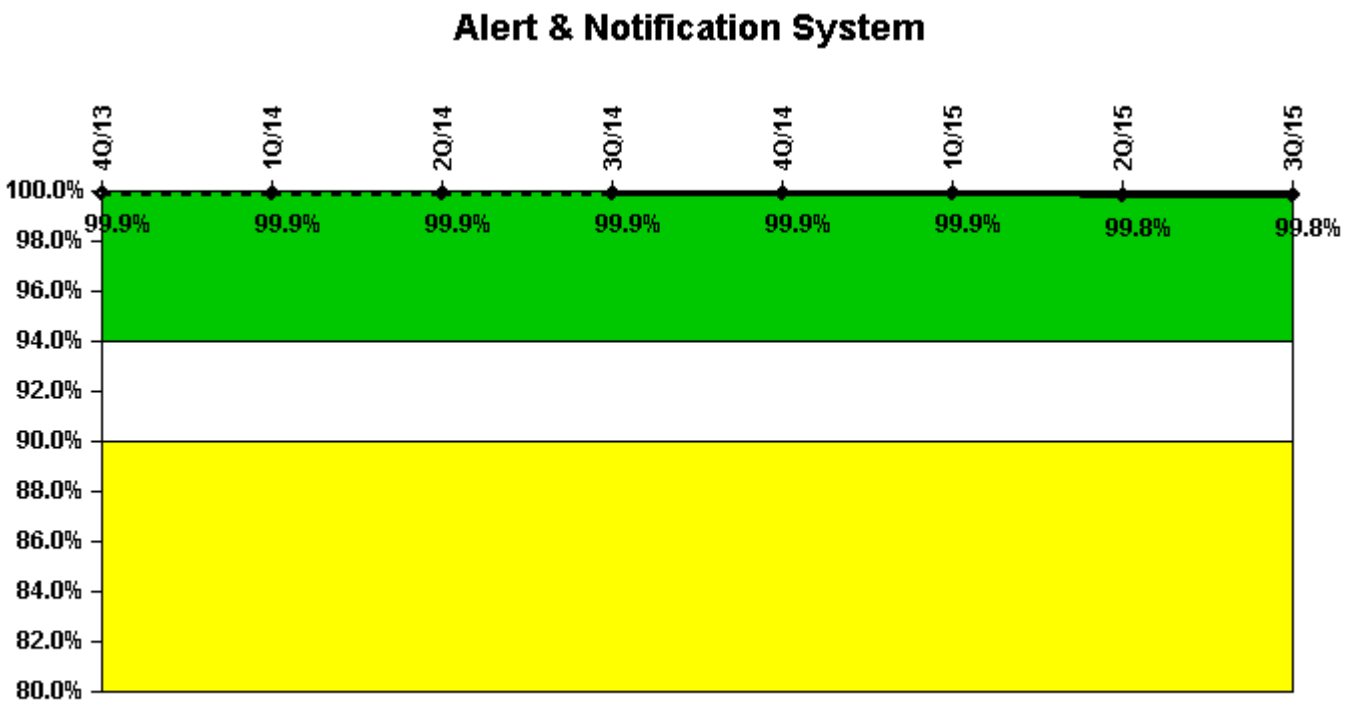


Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	73.0	73.0	73.0	72.0	75.0	76.0	73.0	72.0
Total Key personnel	73.0	73.0	73.0	72.0	75.0	76.0	73.0	72.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

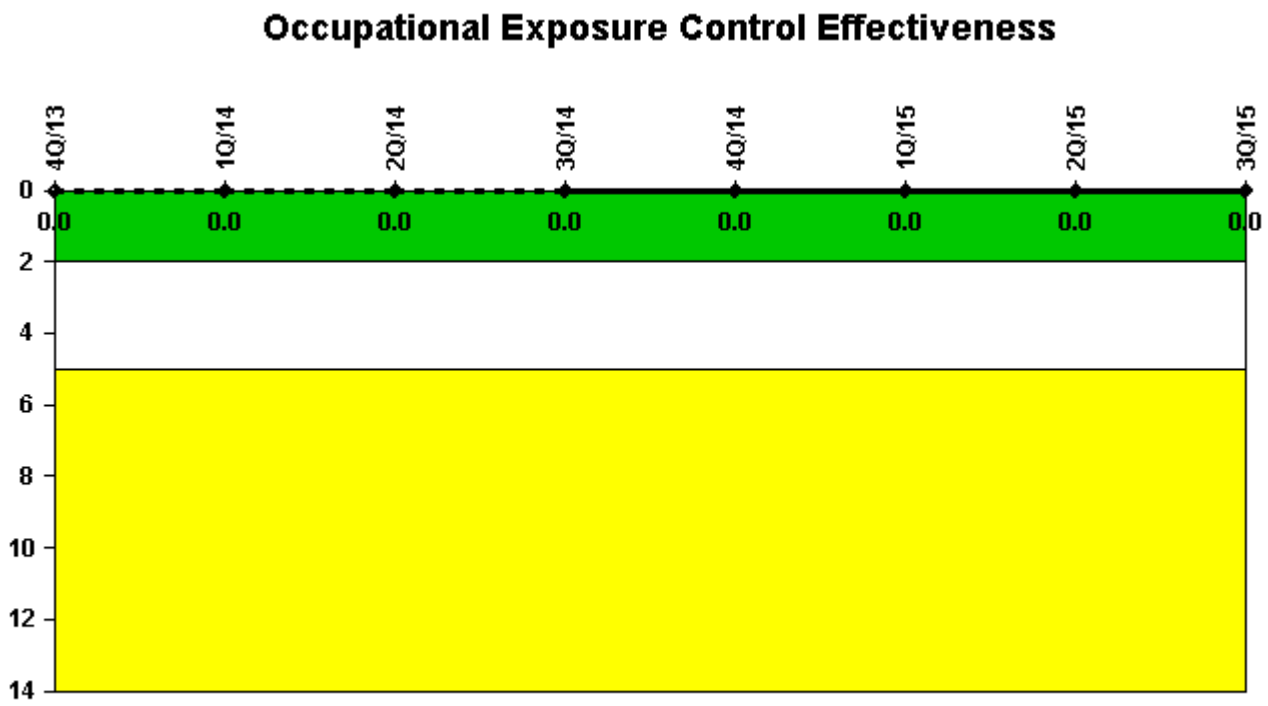


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	2687	2641	2687	2686	2686	2641	2680	2725
Total sirens-tests	2688	2646	2688	2688	2688	2646	2688	2730
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**

Licensee Comments: none

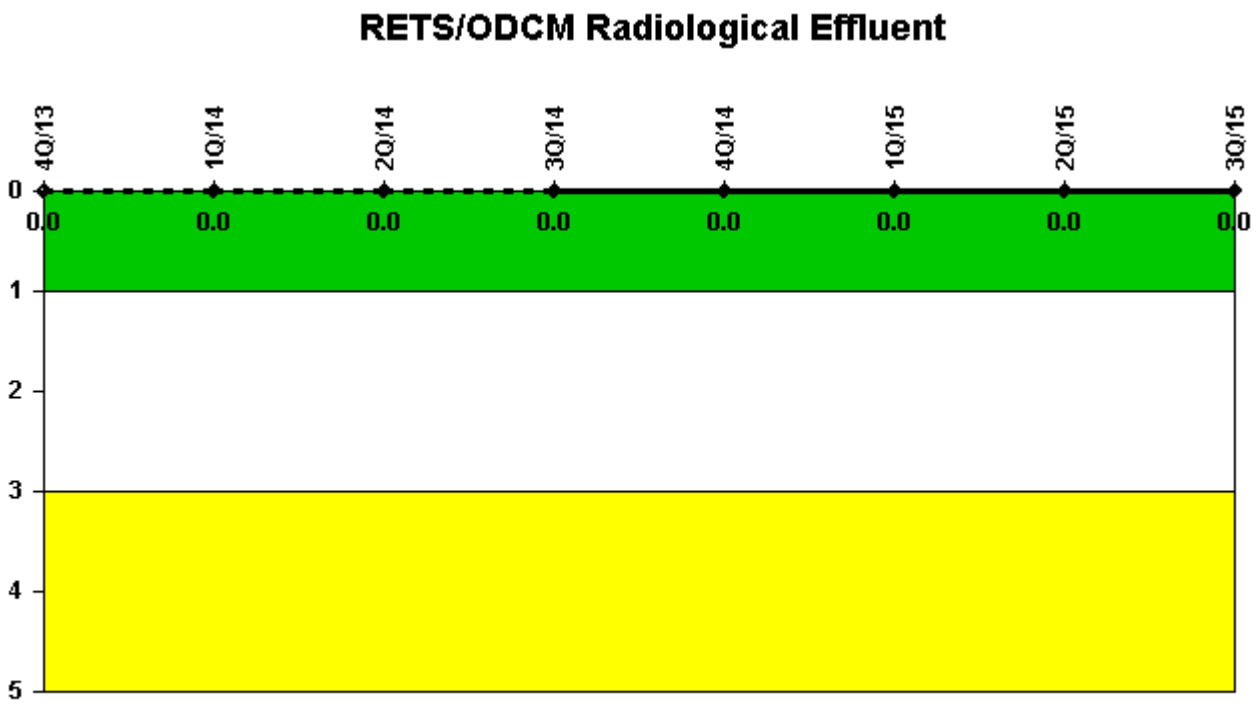


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
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	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/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: December 15, 2015