

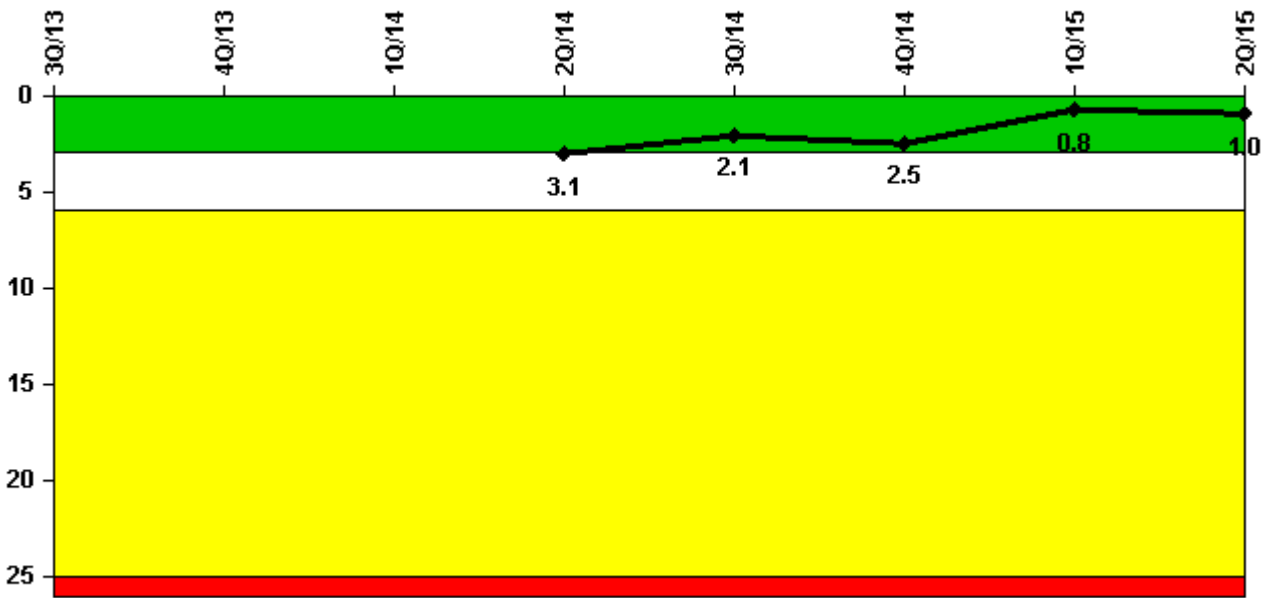
Fort Calhoun

2Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: Error noted by PI Resource in the form of the Final used for the May RCS leakage PI.

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

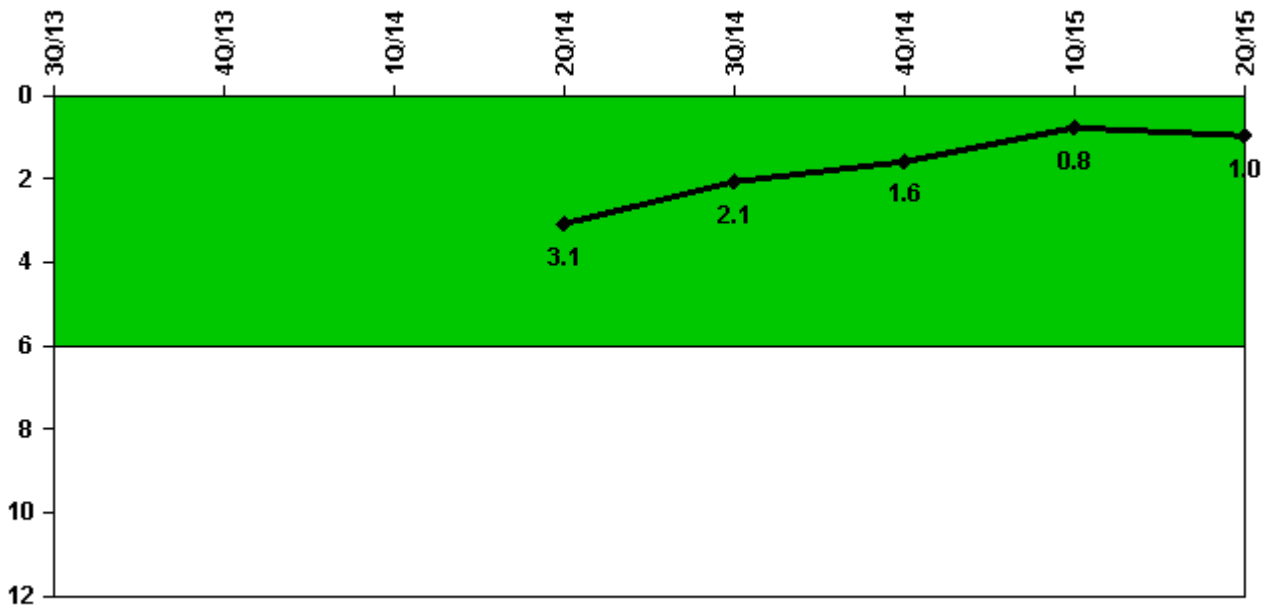
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned scrams	0	0	2.0	0	0	1.0	0	0
Critical hours	0	317.2	2026.9	2184.0	2208.0	2140.2	2159.0	772.9
Indicator value	N/A	N/A	N/A	3.1	2.1	2.5	0.8	1.0

Licensee Comments:

2Q/14: During the second quarter the station critical hours exceeded the minimum 2400 hour required to calculate this indicator. With low critical hours the PI is white due to the two scrams from the first quarter.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

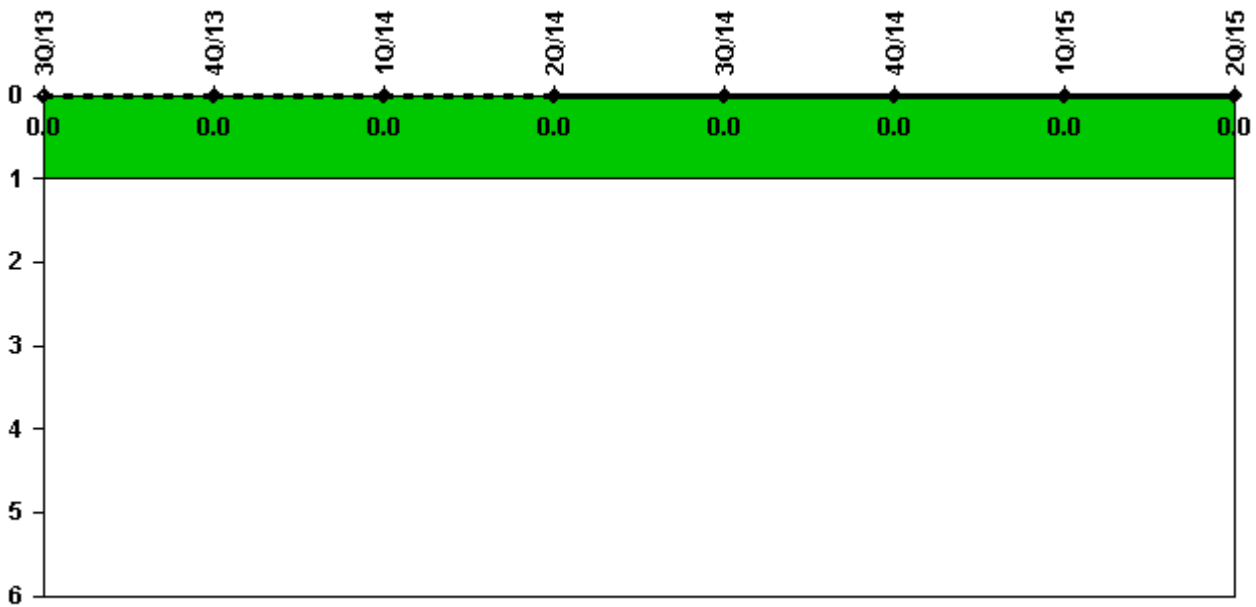
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned power changes	0	0	1.0	1.0	0	0	0	1.0
Critical hours	0	317.2	2026.9	2184.0	2208.0	2140.2	2159.0	772.9
Indicator value	N/A	N/A	N/A	3.1	2.1	1.6	0.8	1.0

Licensee Comments:

1Q/14: Correct an error discovered during a review.

Unplanned Scrams with Complications



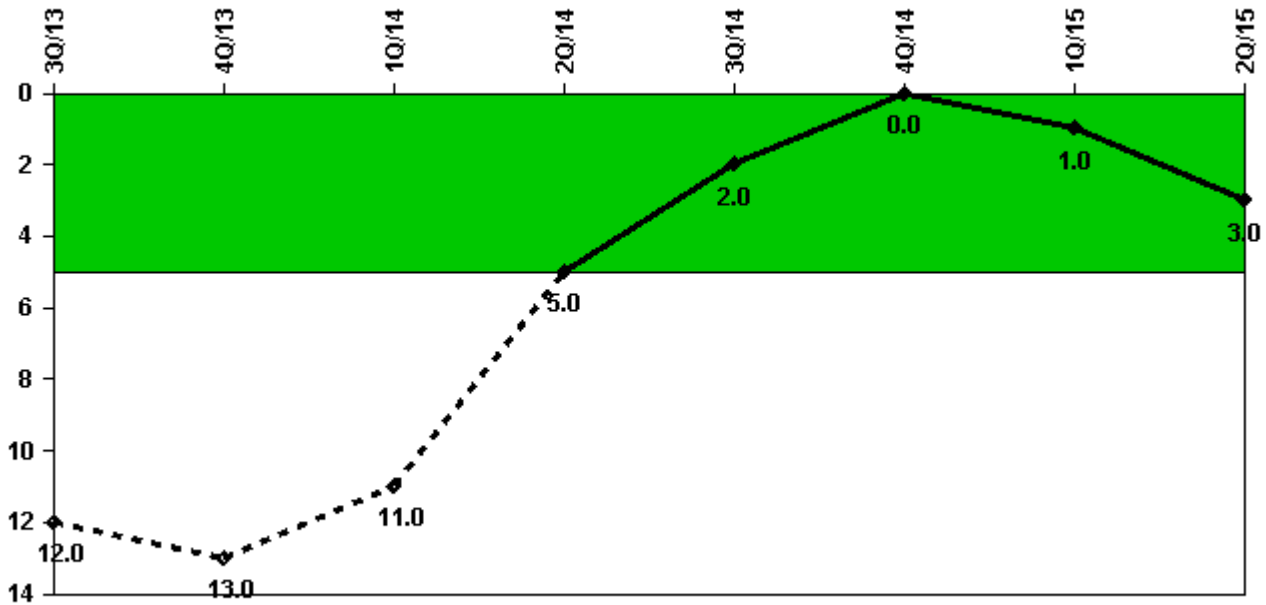
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
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

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Safety System Functional Failures	3	2	0	0	0	0	1	2
Indicator value	12	13	11	5	2	0	1	3

Licensee Comments:

2Q/15: LER 2015-002, Inoperable Auxiliary Feedwater System Due to Inadequate Procedure Change; LER 3015-003 Containment Spray Inoperable Due to Original Design

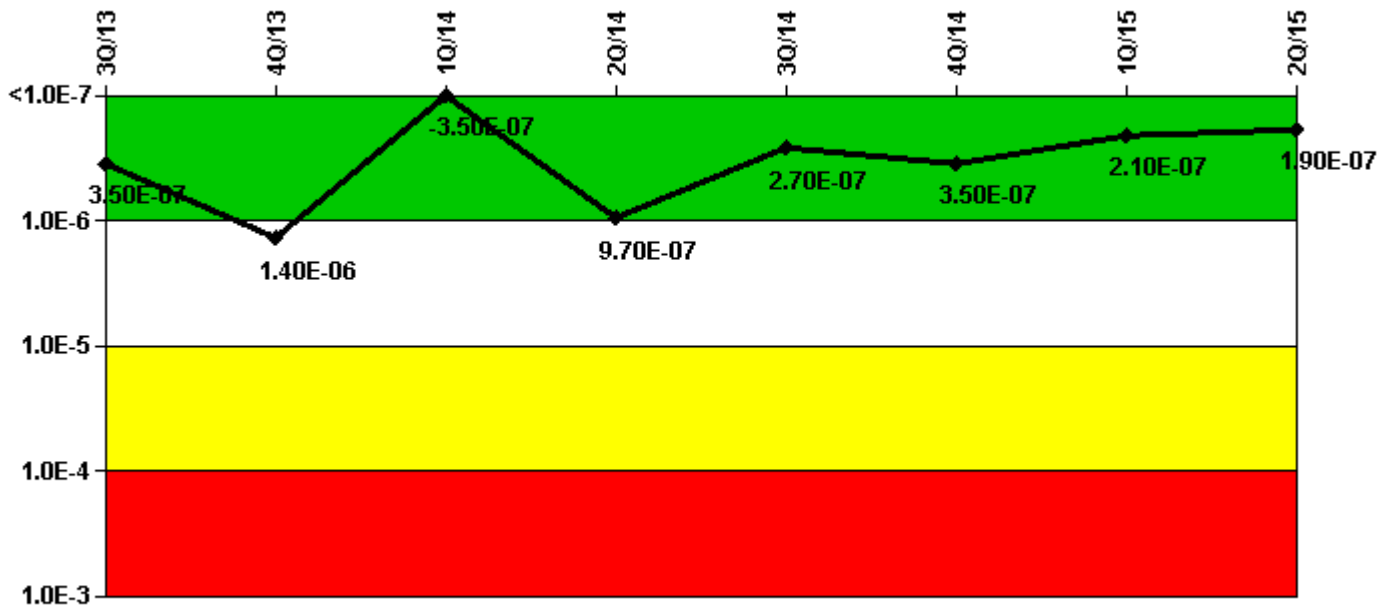
1Q/15: LER 2013-014 Rev 2 Unqualified Components used in Safety System Control Circuit

4Q/13: LER 2013-17, Containment Spray Pump Design Documents do not Support Operation in Runout, LER 2013-14, Unqualified Components used in Safety System Control Circuit

4Q/13: LER 2013-017, Containment Spray Pump Design Documents do not Support Operation in Runout

3Q/13: LER 2013-010, "HPSI Pump Flow Imbalance," 2013-011 "Inadequate Design for High Energy Line Break in Rooms 13 and 19 of the Auxiliary Building," LER 2013-012, "Intake Structure Crane Seismic Qualification"

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/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	6.84E-07	1.68E-06	-1.98E-08	1.26E-06	3.67E-07	4.66E-07	5.38E-07	4.99E-07
URI (ΔCDF)	-3.35E-07	-3.33E-07	-3.29E-07	-2.88E-07	-1.02E-07	-1.15E-07	-3.24E-07	-3.13E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.50E-07	1.40E-06	-3.50E-07	9.70E-07	2.70E-07	3.50E-07	2.10E-07	1.90E-07

Licensee Comments:

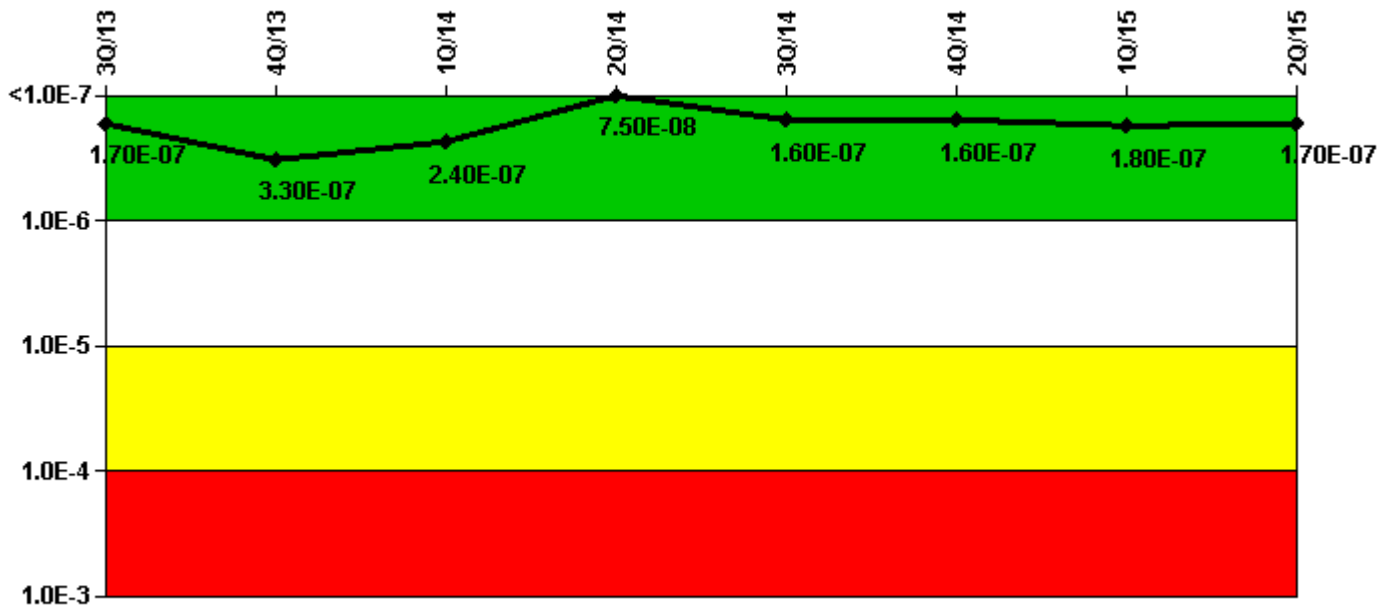
2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked.

4Q/13: Risk Cap Invoked. The white performance indicator is due to 31 months without critical hours and normal diesel maintenance.

3Q/13: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



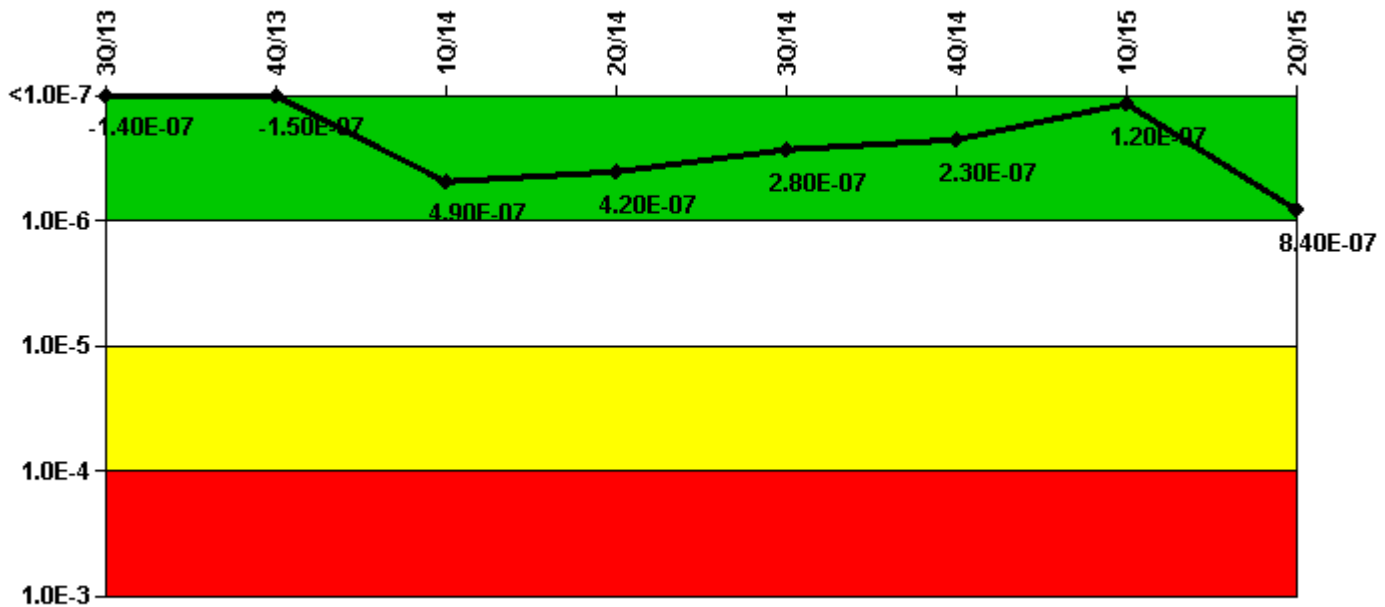
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	1.30E-08	1.61E-07	6.67E-08	-1.01E-07	-7.74E-08	-7.74E-08	-5.58E-08	-6.34E-08
URI (ΔCDF)	1.61E-07	1.71E-07	1.70E-07	1.76E-07	2.35E-07	2.36E-07	2.37E-07	2.33E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.70E-07	3.30E-07	2.40E-07	7.50E-08	1.60E-07	1.60E-07	1.80E-07	1.70E-07

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	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	-7.37E-08	-7.37E-08	5.99E-08	1.92E-08	1.48E-08	-1.04E-08	-9.62E-08	-9.62E-08
URI (Δ CDF)	-6.47E-08	-8.10E-08	4.28E-07	4.04E-07	2.68E-07	2.43E-07	2.20E-07	9.38E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	$-1.40E-07$	$-1.50E-07$	$4.90E-07$	$4.20E-07$	$2.80E-07$	$2.30E-07$	$1.20E-07$	$8.40E-07$

Licensee Comments:

2Q/15: Risk Cap Invoked.

1Q/15: Risk Cap Invoked.

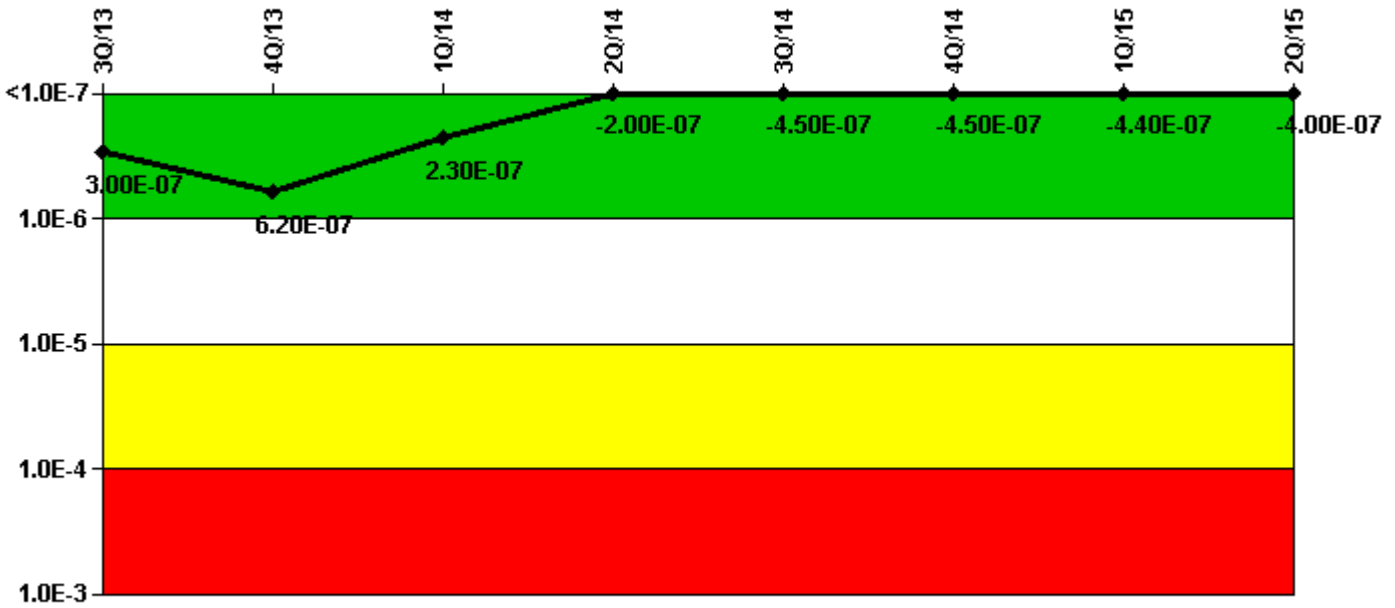
4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. An additional failure was added to the first quarter 2014 that was discovered during NRC inspection.

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked.

Mitigating Systems Performance Index, Residual Heat Removal System



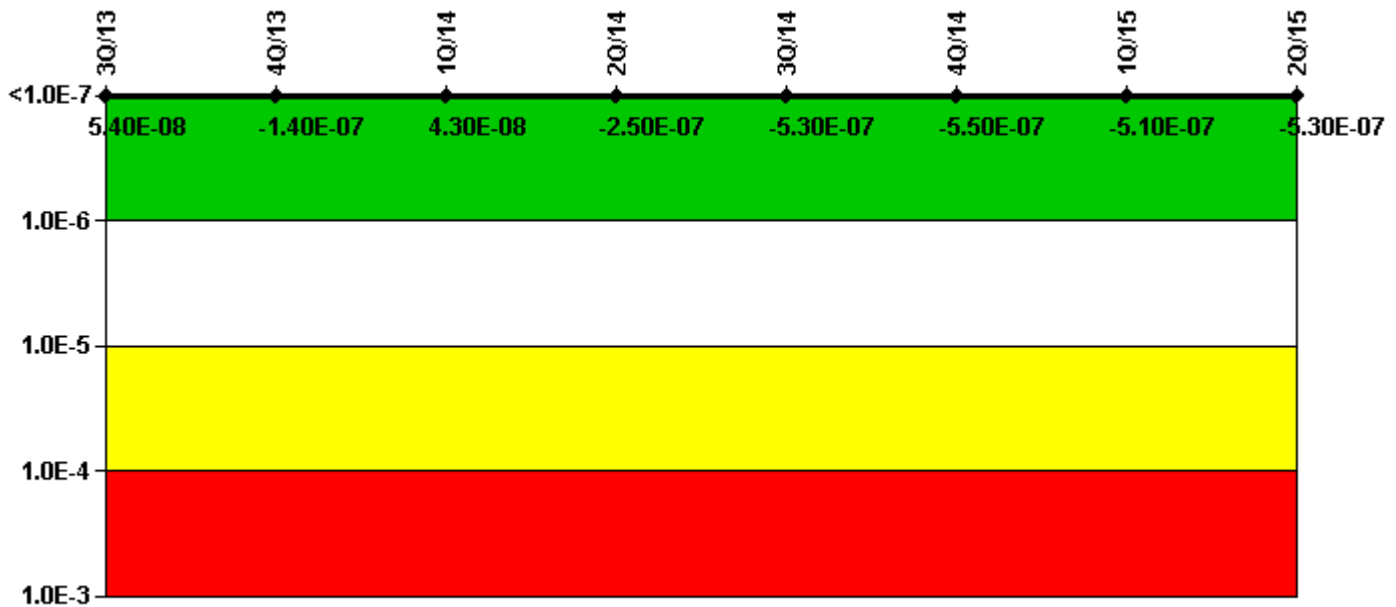
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	3.46E-07	6.70E-07	2.78E-07	-1.68E-07	-4.35E-07	-4.35E-07	-4.35E-07	-3.84E-07
URI (ΔCDF)	-4.16E-08	-4.57E-08	-4.57E-08	-3.54E-08	-1.12E-08	-1.05E-08	-9.87E-09	-1.58E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.00E-07	6.20E-07	2.30E-07	-2.00E-07	-4.50E-07	-4.50E-07	-4.40E-07	-4.00E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



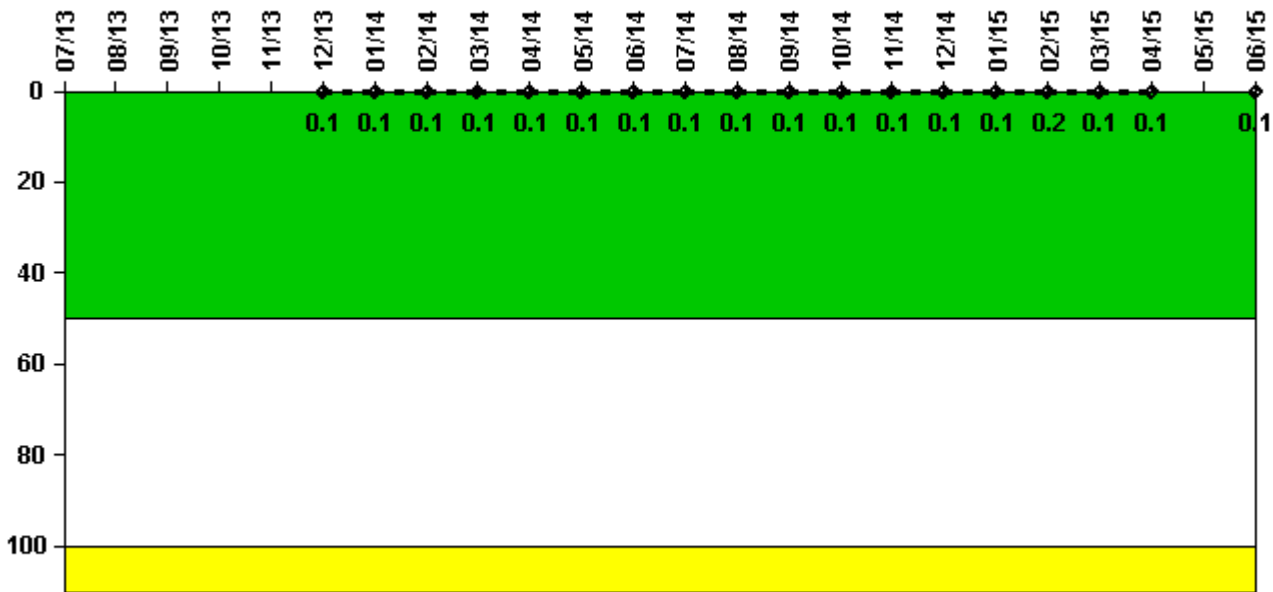
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	8.36E-08	-1.08E-07	7.14E-08	-2.27E-07	-5.38E-07	-5.67E-07	-5.25E-07	-5.40E-07
URI (ΔCDF)	-2.97E-08	-2.94E-08	-2.83E-08	-2.74E-08	1.15E-08	1.23E-08	1.35E-08	1.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.40E-08	-1.40E-07	4.30E-08	-2.50E-07	-5.30E-07	-5.50E-07	-5.10E-07	-5.30E-07

Licensee Comments: none

Reactor Coolant System Activity



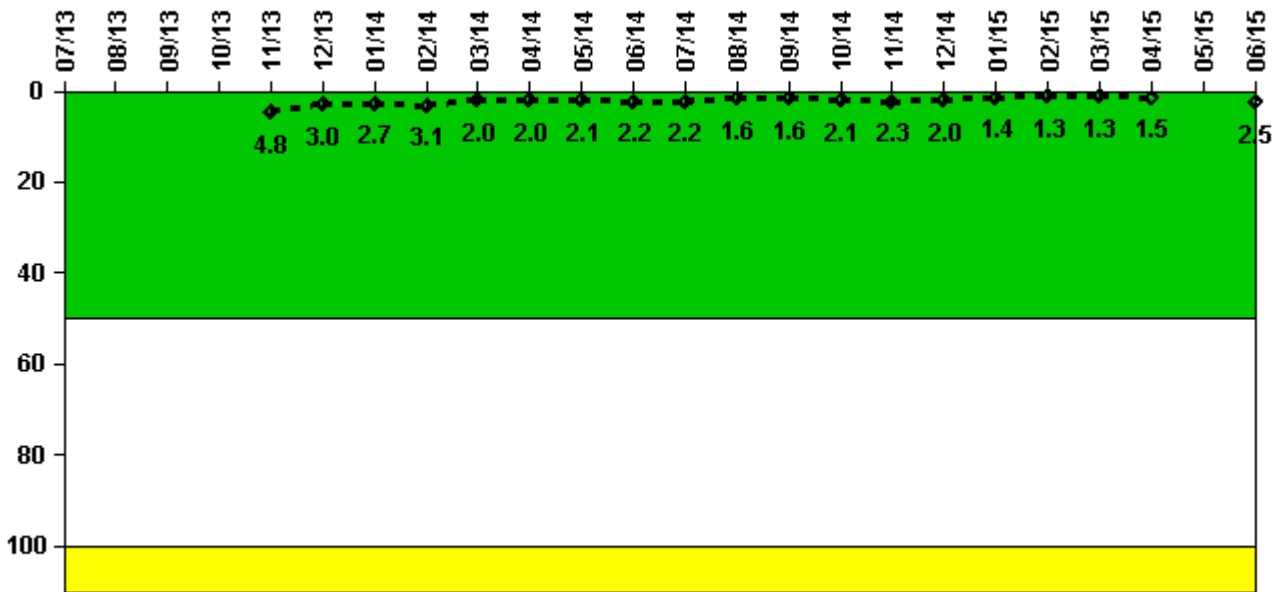
Thresholds: White > 50.0 Yellow > 100.0

Notes

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		N/A	N/A	N/A	N/A	N/A	0.000837	0.000949	0.001030	0.000960	0.001000	0.001170	0.001160
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	N/A	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity		7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum activity		0.001140	0.001230	0.001300	0.001300	0.001380	0.001340	0.001380	0.001500	0.001420	0.001400	N/A	0.000633
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		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	N/A	0.1

Licensee Comments: none

Reactor Coolant System Leakage



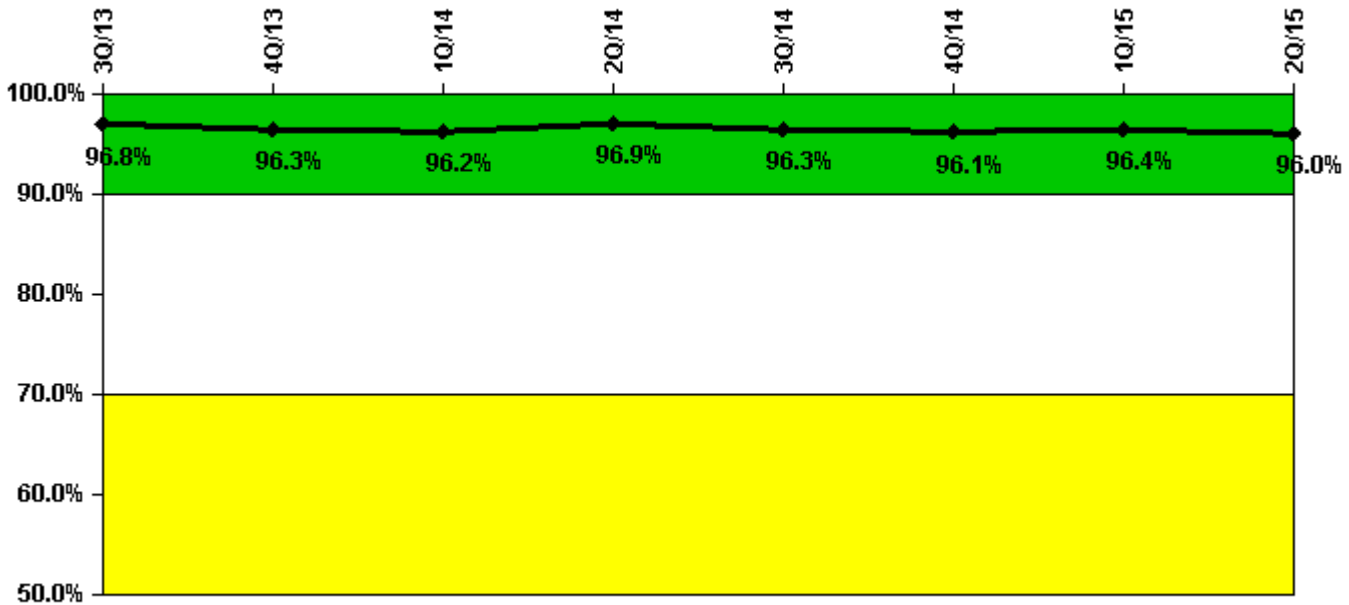
Thresholds: White > 50.0 Yellow > 100.0

Notes

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	N/A	N/A	N/A	N/A	0.484	0.299	0.273	0.308	0.203	0.201	0.210	0.217
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	N/A	4.8	3.0	2.7	3.1	2.0	2.0	2.1	2.2
Reactor Coolant System Leakage	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum leakage	0.216	0.160	0.155	0.211	0.231	0.198	0.138	0.134	0.129	0.148	N/A	0.247
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	2.2	1.6	1.6	2.1	2.3	2.0	1.4	1.3	1.3	1.5	N/A	2.5

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

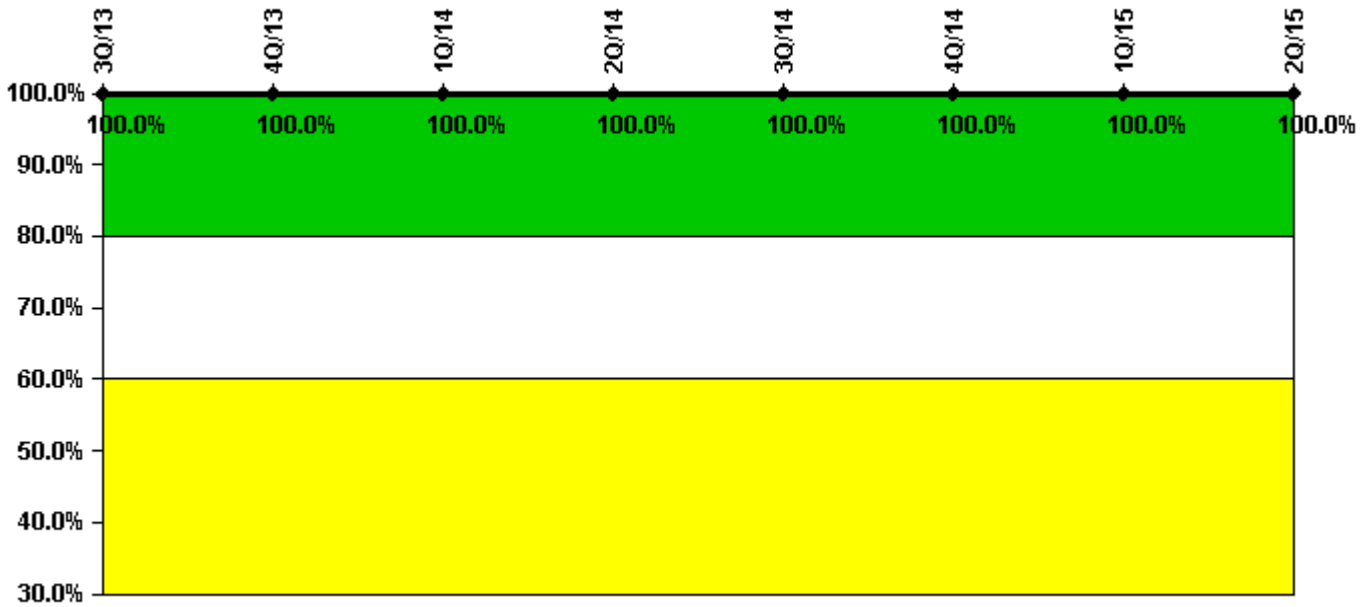
Notes

Drill/Exercise Performance	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful opportunities	30.0	29.0	23.0	34.0	77.0	82.0	49.0	12.0
Total opportunities	30.0	31.0	25.0	34.0	81.0	85.0	49.0	15.0
Indicator value	96.8%	96.3%	96.2%	96.9%	96.3%	96.1%	96.4%	96.0%

Licensee Comments:

3Q/14: Minor corrections were made in the fourth quarter 2013 and first quarter 2014 data due to NRC and internal reviews.

ERO Drill Participation



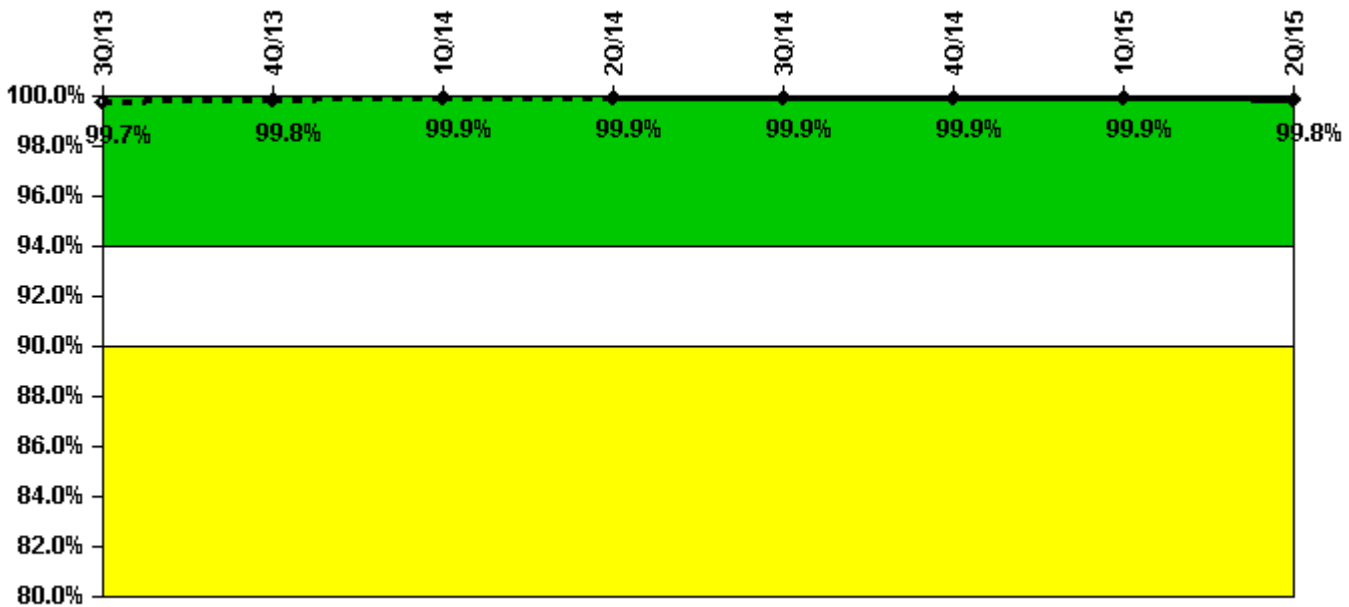
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Participating Key personnel	105.0	109.0	110.0	118.0	111.0	112.0	115.0	115.0
Total Key personnel	105.0	109.0	110.0	118.0	111.0	112.0	115.0	115.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



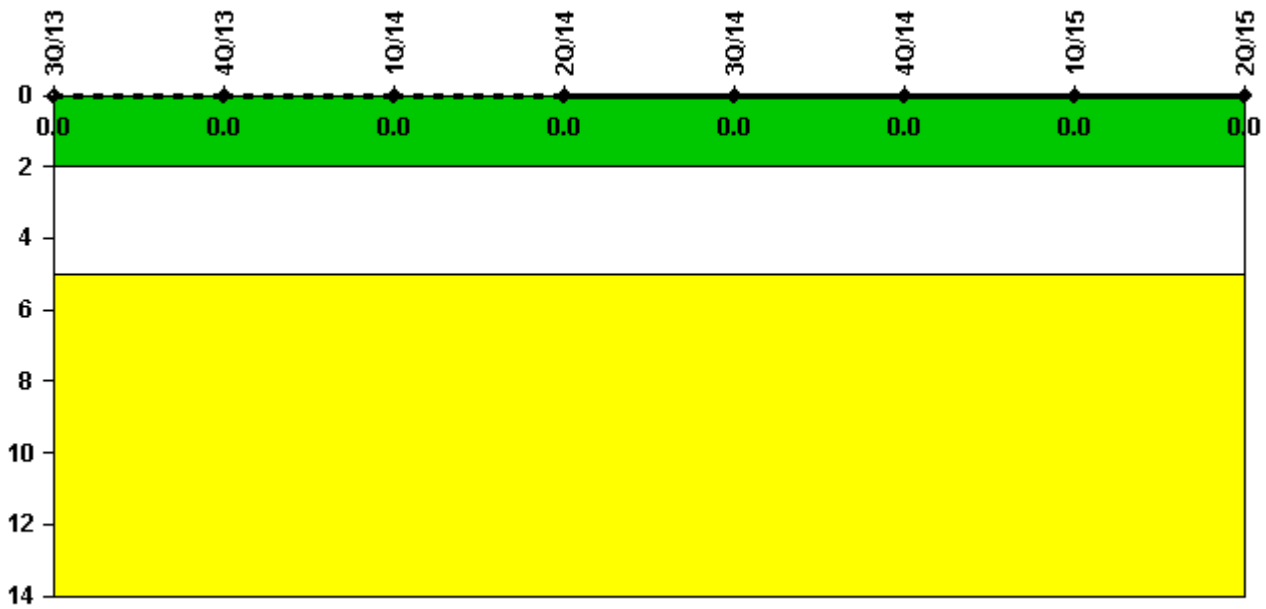
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful siren-tests	908	706	807	707	907	706	807	706
Total sirens-tests	909	707	808	707	909	707	808	707
Indicator value	99.7%	99.8%	99.9%	99.9%	99.9%	99.9%	99.9%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



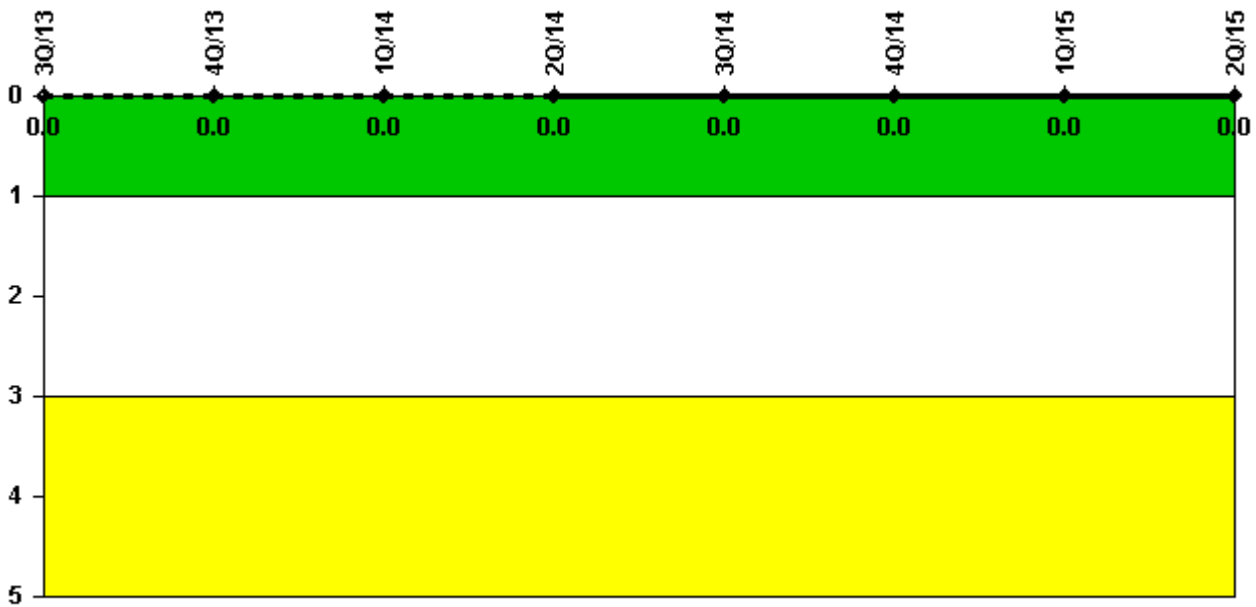
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/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: August 18, 2015