

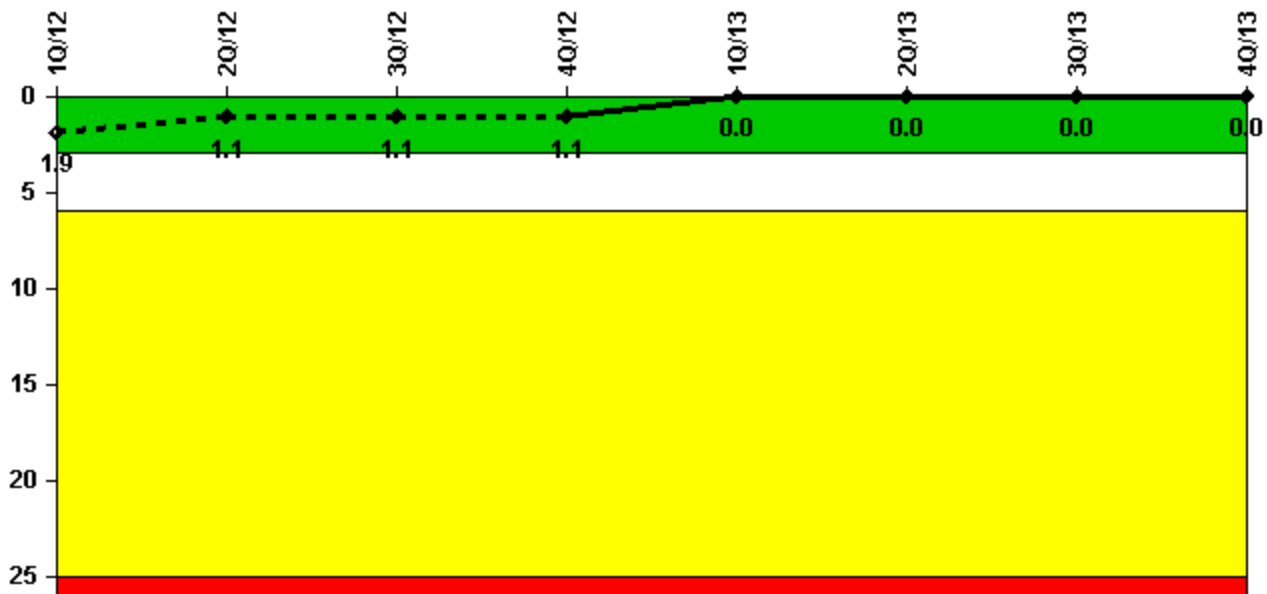
Prairie Island 2

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



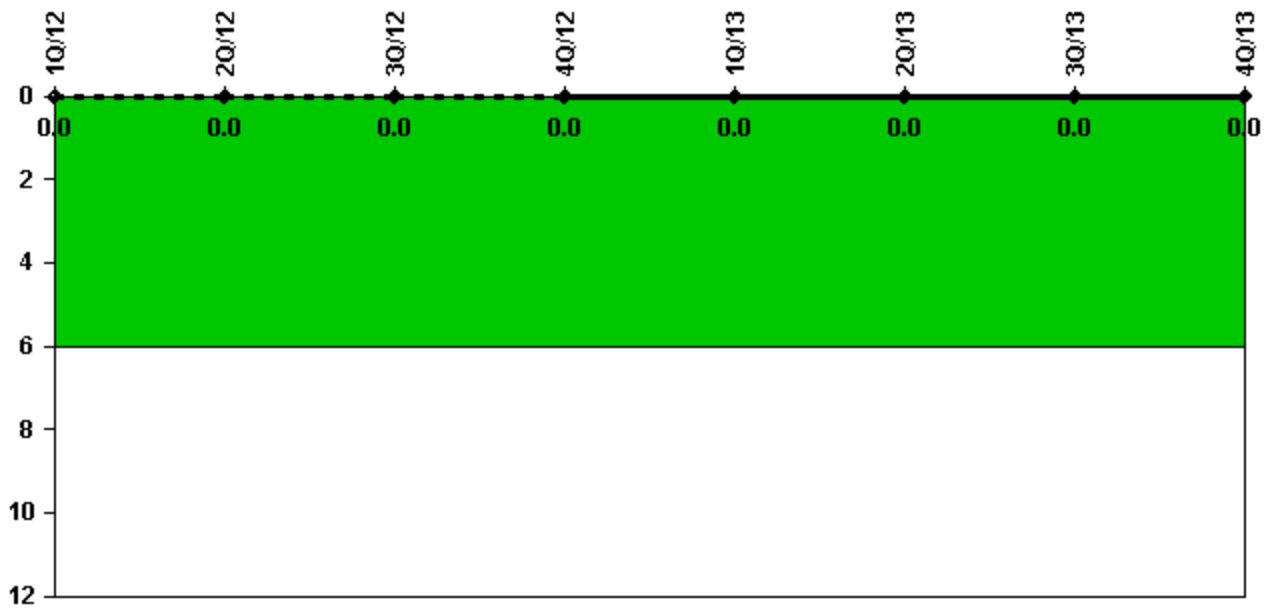
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	0	0	0
Critical hours	1247.7	814.0	2208.0	2209.0	2159.0	2184.0	1968.1	0
Indicator value	1.9	1.1	1.1	1.1	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



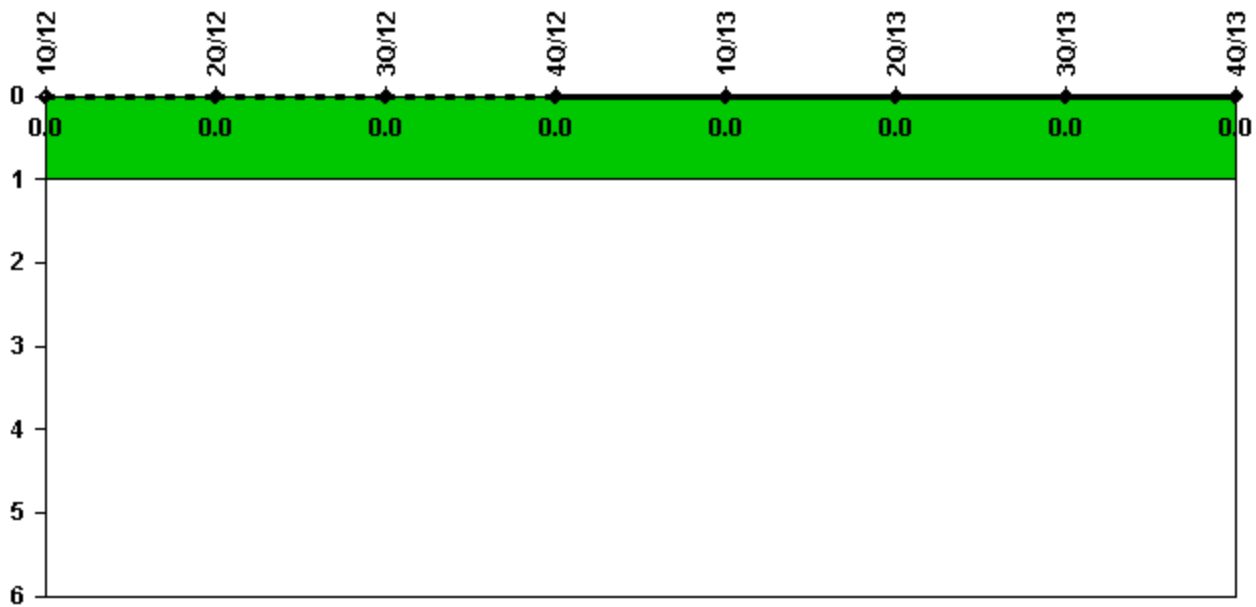
Thresholds: White > 6.0

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	0	0	0	0	0	0	0	0
Critical hours	1247.7	814.0	2208.0	2209.0	2159.0	2184.0	1968.1	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



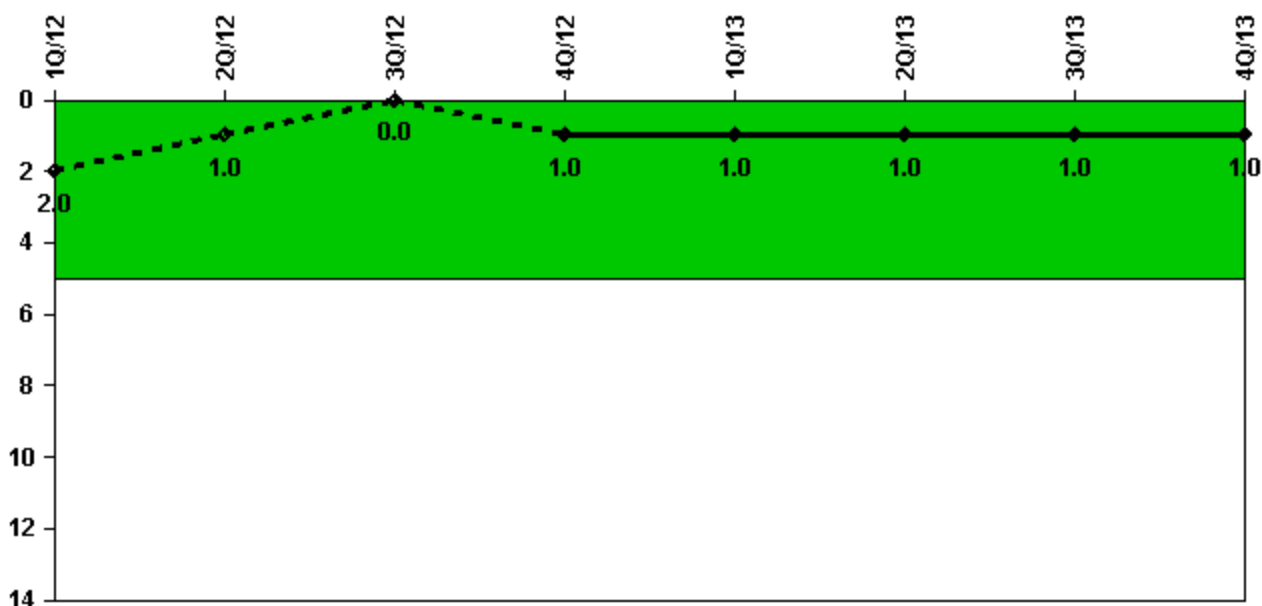
Thresholds: White > 1.0

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

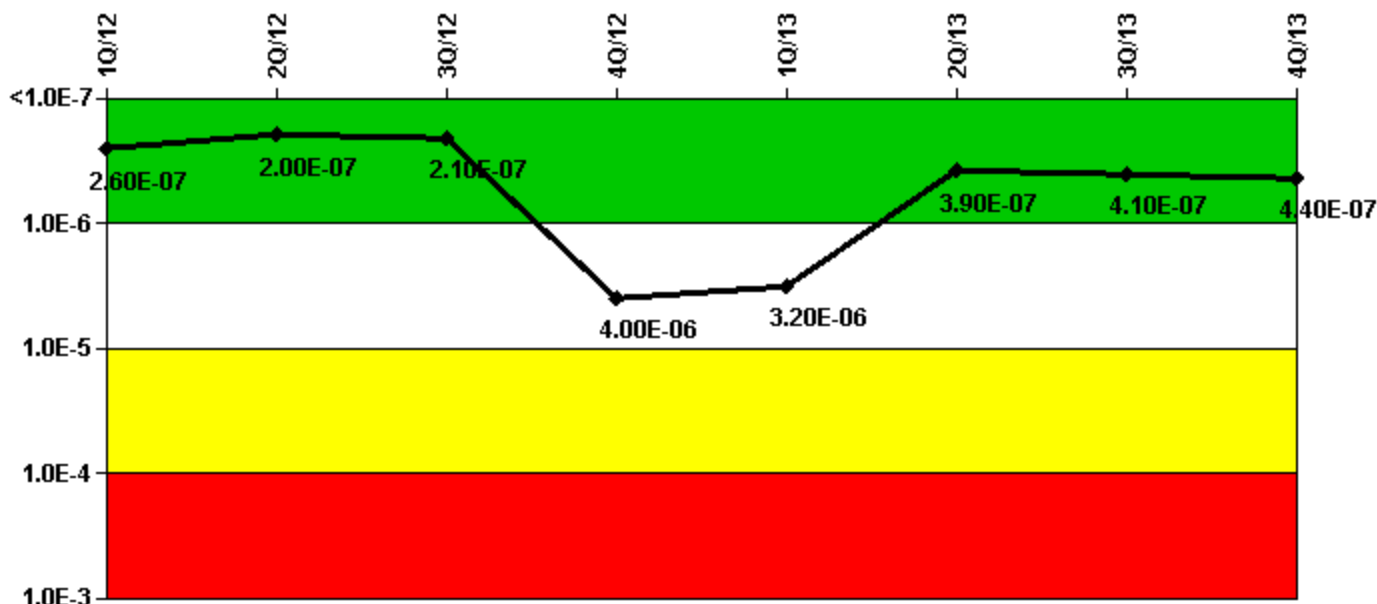
Licensee Comments:

4Q/13: LER 50-282/2013-001-00, 10/8/2013, Control Room Envelope Inoperable.

3Q/12: LER 50-306/2012-002-01, revision to LER 50-306/2012-002-00. Baed on subsequent engineering evaluation both EDG D5 & D6 will remain operable and perform their safety function. This was previously reported as an SSFF.

3Q/12: LER 50-306/2012-002-00, Sept 14, 2012, Unit 2 Diesel Generators inoperable due to missing hazard barrier.

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 (ΔCDF)	4.00E-07	3.26E-07	3.26E-07	4.58E-07	1.55E-07	8.50E-08	9.77E-08	1.25E-07
URI (ΔCDF)	-1.37E-07	-1.24E-07	-1.11E-07	3.58E-06	3.02E-06	3.03E-07	3.07E-07	3.12E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.60E-07	2.00E-07	2.10E-07	4.00E-06	3.20E-06	3.90E-07	4.10E-07	4.40E-07

Licensee Comments:

2Q/13: Changed PRA Parameter(s).

1Q/13: Risk Cap Invoked.

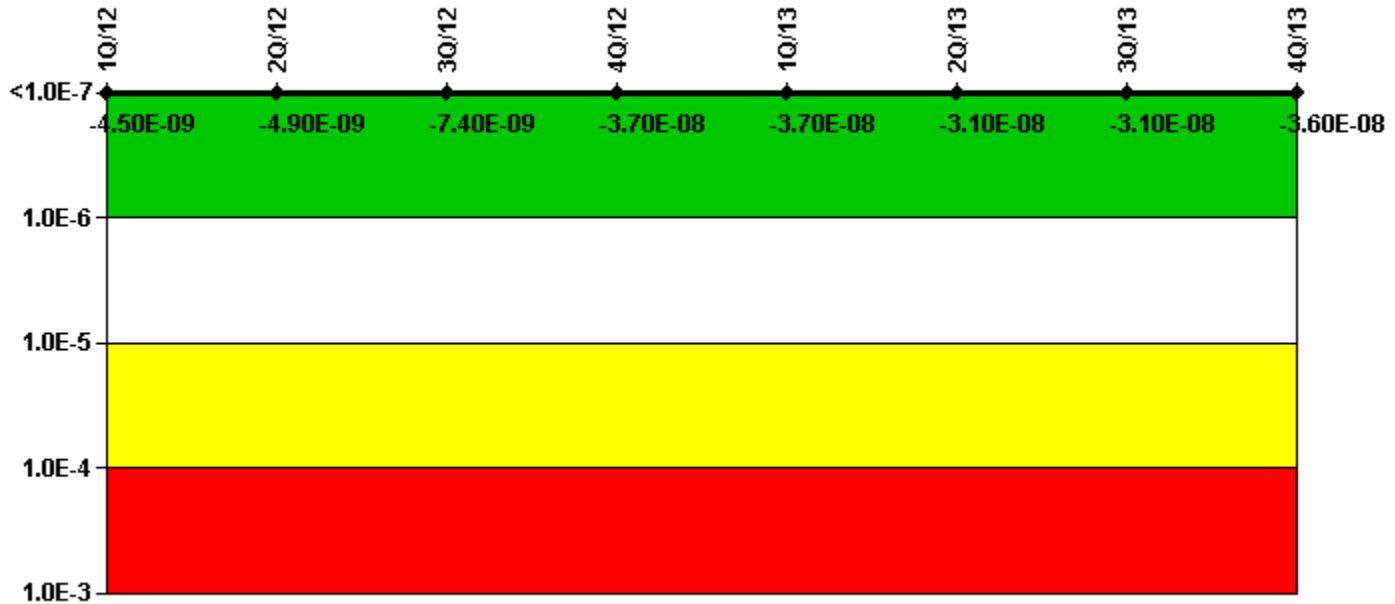
4Q/12: Risk Cap Invoked. Revised 4th quarter 2012 indicator based on incomplete data. The indicator exceeded the green/white threshold for 4th quarter 2012. Prairie Island is performing a Root Cause Evaluation to determine causes and actions to improve performance.

3Q/12: Risk Cap Invoked.

2Q/12: Risk Cap Invoked.

1Q/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

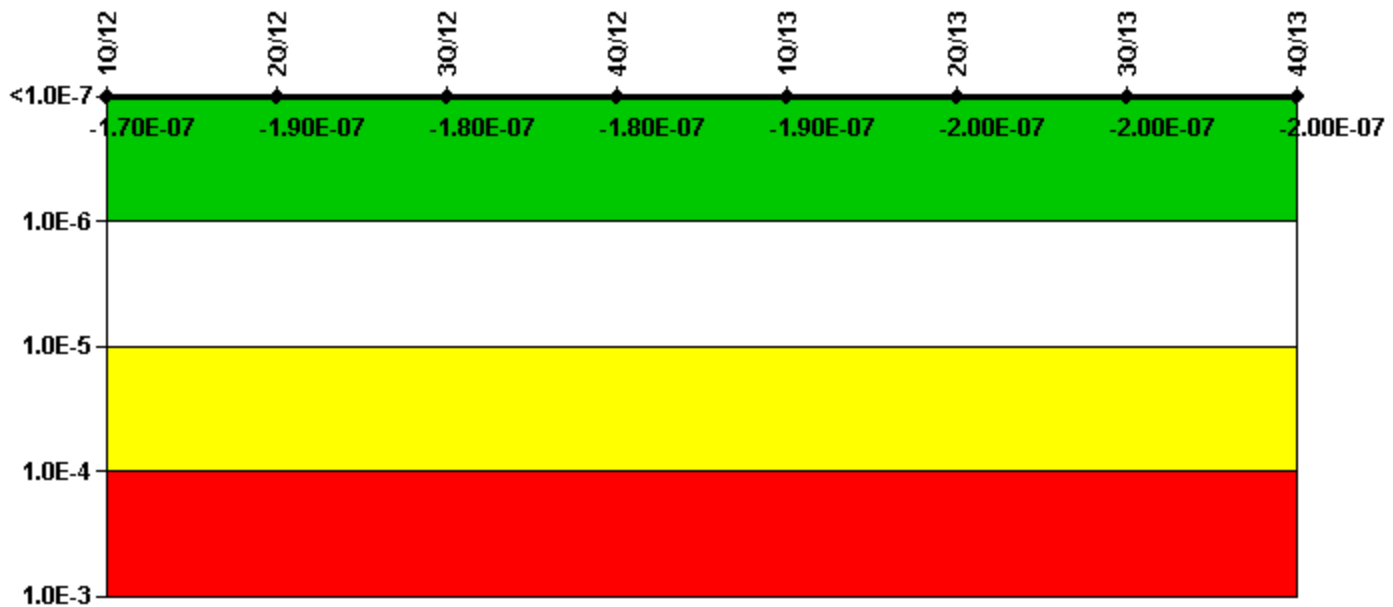
Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	2.69E-08	2.69E-08	2.44E-08	-4.97E-09	-4.79E-09	-8.83E-09	-8.65E-09	-9.96E-09
URI (Δ CDF)	-3.14E-08	-3.17E-08	-3.18E-08	-3.20E-08	-3.21E-08	-2.24E-08	-2.25E-08	-2.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.50E-09	-4.90E-09	-7.40E-09	-3.70E-08	-3.70E-08	-3.10E-08	-3.10E-08	-3.60E-08

Licensee Comments:

2Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

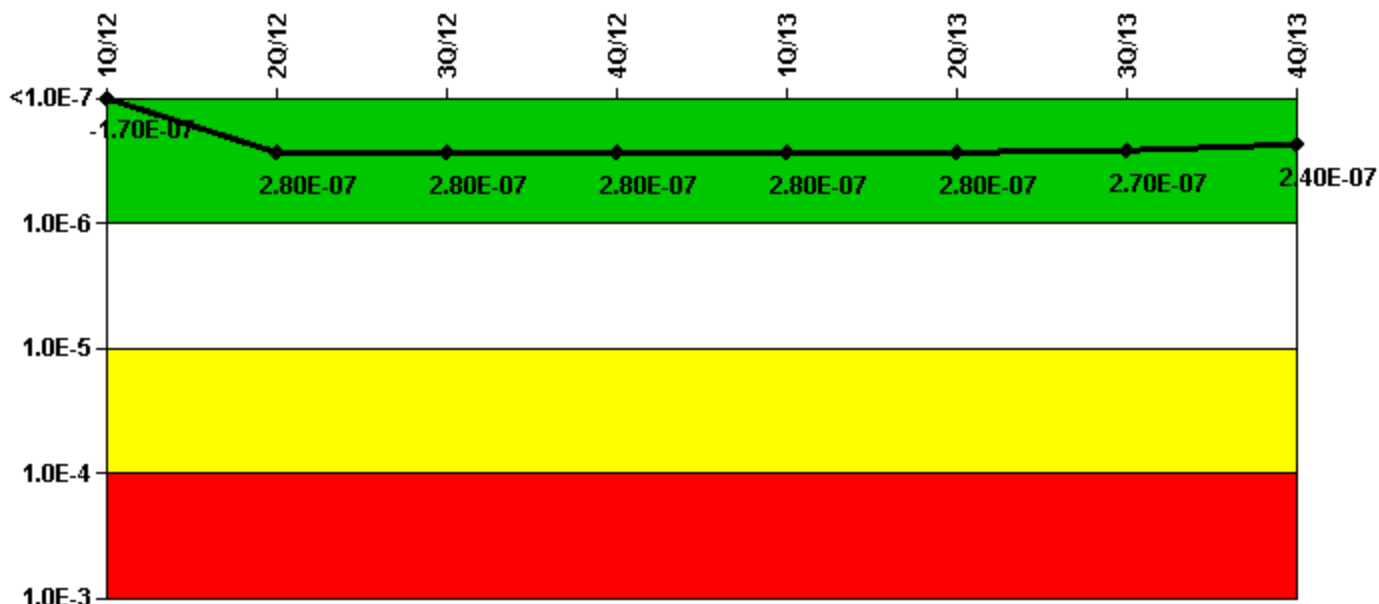
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	2.01E-08	1.17E-09	3.36E-09	9.42E-09	-2.34E-09	-3.63E-08	-3.60E-08	-3.28E-08
URI (Δ CDF)	-1.86E-07	-1.88E-07	-1.88E-07	-1.88E-07	-1.88E-07	-1.67E-07	-1.68E-07	-1.72E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.90E-07	-1.80E-07	-1.80E-07	-1.90E-07	-2.00E-07	-2.00E-07	-2.00E-07

Licensee Comments:

2Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

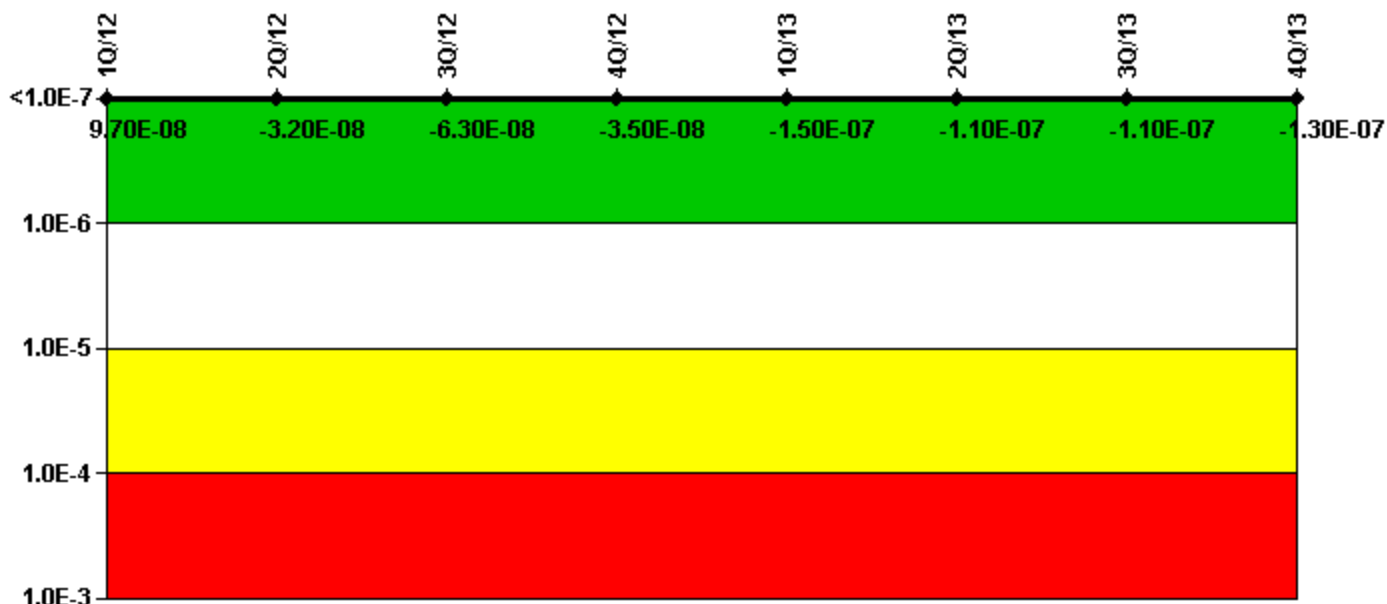
Notes

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 (ΔCDF)	-2.94E-08	-2.94E-08	-2.94E-08	-2.94E-08	-2.94E-08	-2.36E-08	-2.36E-08	-2.36E-08
URI (ΔCDF)	-1.38E-07	3.06E-07	3.06E-07	3.06E-07	3.05E-07	3.07E-07	2.95E-07	2.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.70E-07	2.40E-07

Licensee Comments:

2Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

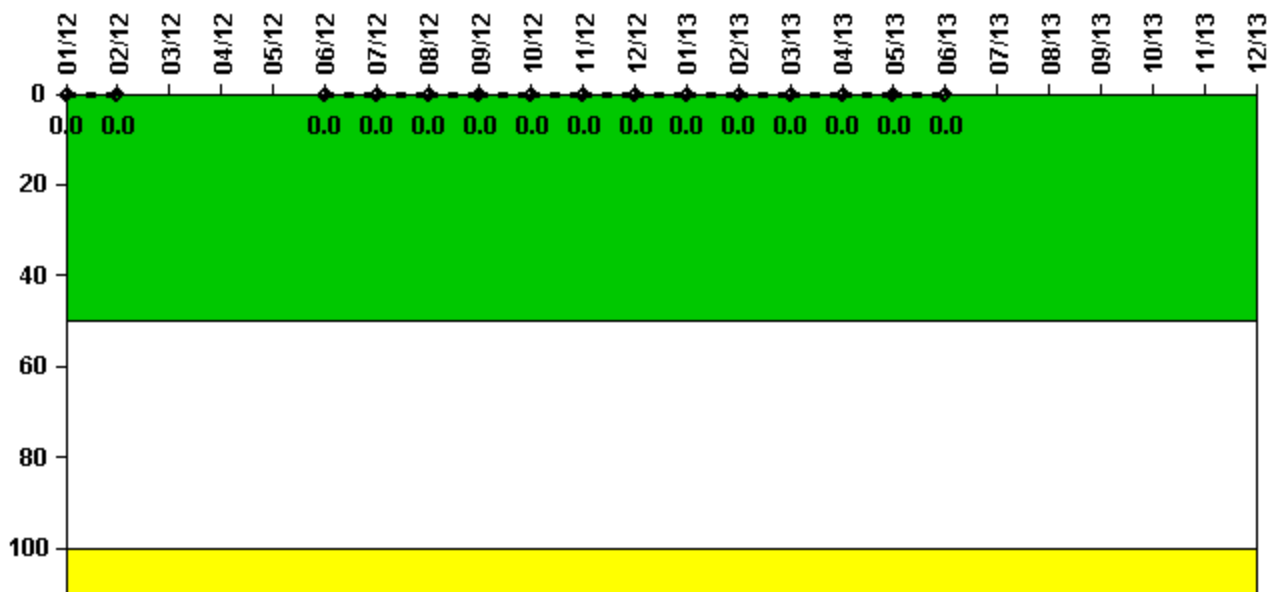
Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	3.58E-07	2.96E-07	2.68E-07	2.90E-07	1.69E-07	1.44E-07	1.39E-07	1.33E-07
URI (Δ CDF)	-2.61E-07	-3.29E-07	-3.31E-07	-3.25E-07	-3.21E-07	-2.49E-07	-2.51E-07	-2.58E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.70E-08	-3.20E-08	-6.30E-08	-3.50E-08	-1.50E-07	-1.10E-07	-1.10E-07	-1.30E-07

Licensee Comments:

2Q/13: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

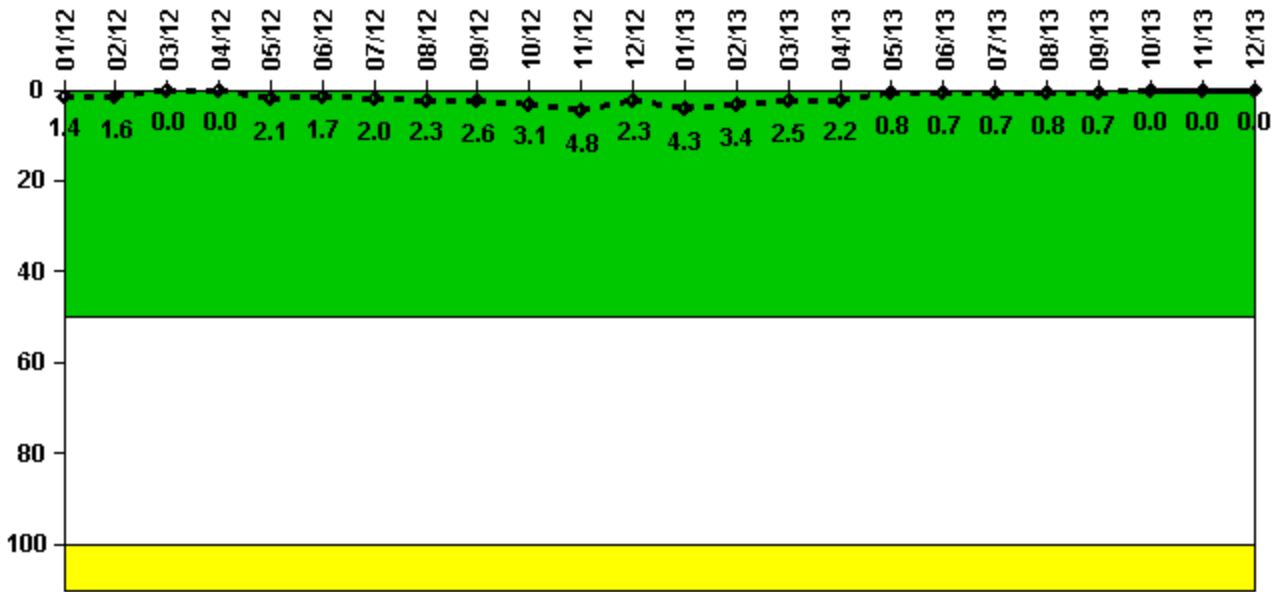
Notes

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	0.000213	0.000212	N/A	N/A	N/A	0.000106	0.000110	0.000112	0.000115	0.000122	0.000132	0.000135
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0	0	N/A	N/A	N/A	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	0.000145	0.000146	0.000147	0.000225	0.000148	0.000147	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A

Licensee Comments: none

Reactor Coolant System Leakage



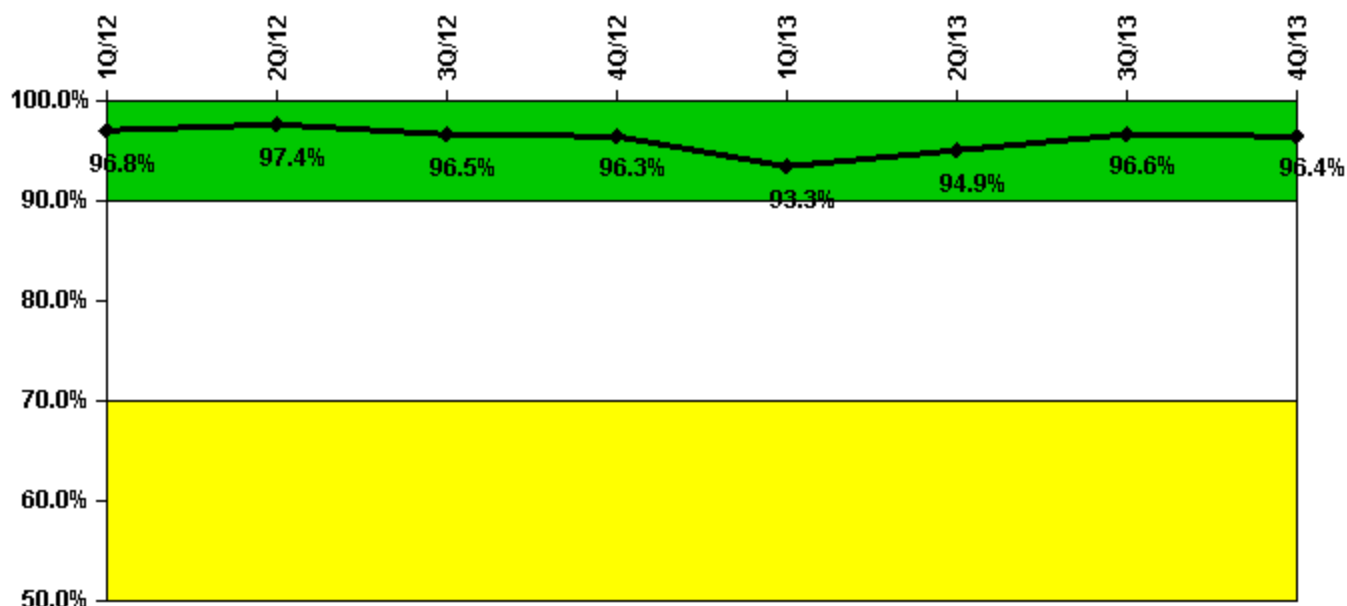
Thresholds: White > 50.0 Yellow > 100.0

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	0.144	0.156	0	0	0.208	0.169	0.201	0.231	0.262	0.306	0.475	0.225
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	1.4	1.6	0	0	2.1	1.7	2.0	2.3	2.6	3.1	4.8	2.3
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	0.425	0.343	0.251	0.217	0.080	0.074	0.068	0.075	0.072	0	0	0
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	4.3	3.4	2.5	2.2	0.8	0.7	0.7	0.8	0.7	0	0	0

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

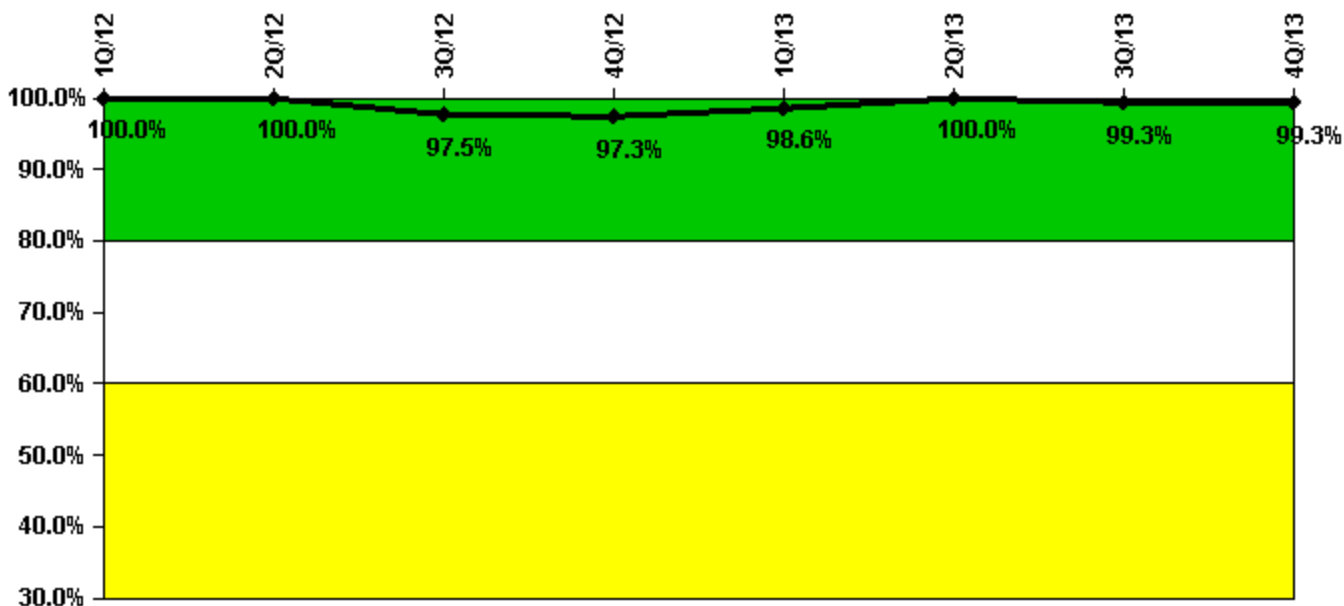
Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	26.0	14.0	31.0	9.0	39.0	86.0	112.0	0
Total opportunities	28.0	14.0	32.0	10.0	45.0	87.0	113.0	0
Indicator value	96.8%	97.4%	96.5%	96.3%	93.3%	94.9%	96.6%	96.4%

Licensee Comments:

1Q/12: Revised February and March 2012 Drill and Exercise Performance based on previously unaccounted for opportunities. No change to performance indicator color. Revised February and March 2012 Drill and Exercise Performance based on previously unaccounted for opportunities. No change to performance indicator color.

ERO Drill Participation



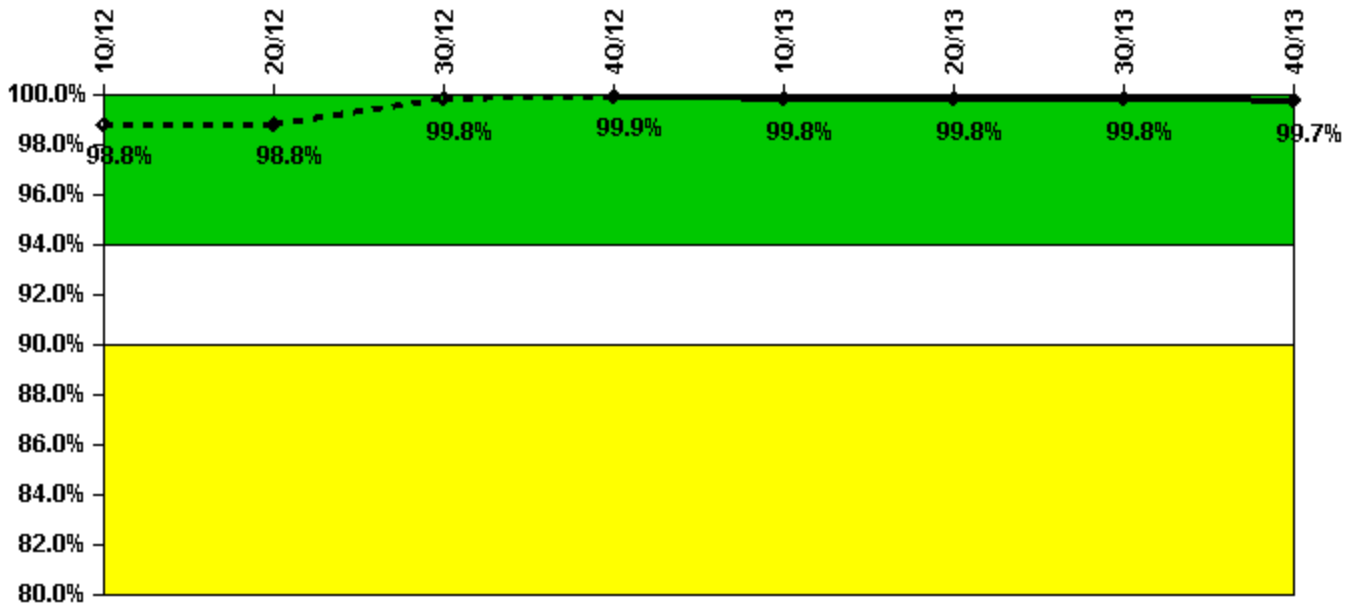
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	156.0	155.0	157.0	144.0	140.0	144.0	144.0	141.0
Total Key personnel	156.0	155.0	161.0	148.0	142.0	144.0	145.0	142.0
Indicator value	100.0%	100.0%	97.5%	97.3%	98.6%	100.0%	99.3%	99.3%

Licensee Comments: none

Alert & Notification System



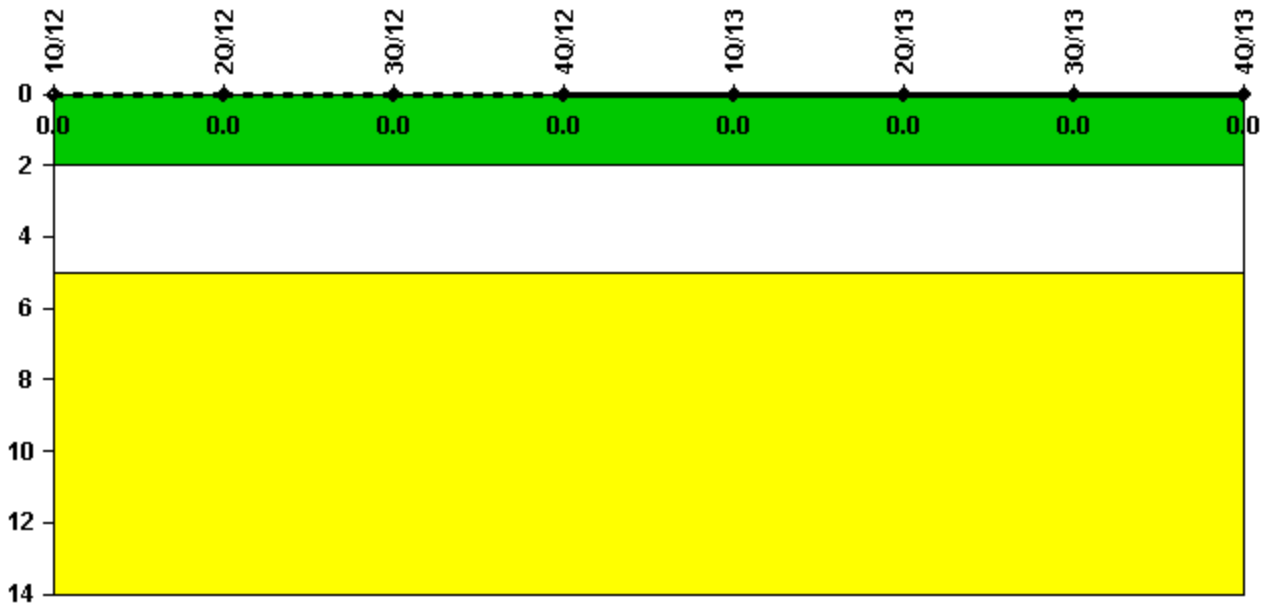
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	1520	1516	1520	1519	1515	1519	1520	1591
Total sirens-tests	1521	1521	1521	1521	1521	1521	1521	1599
Indicator value	98.8%	98.8%	99.8%	99.9%	99.8%	99.8%	99.8%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



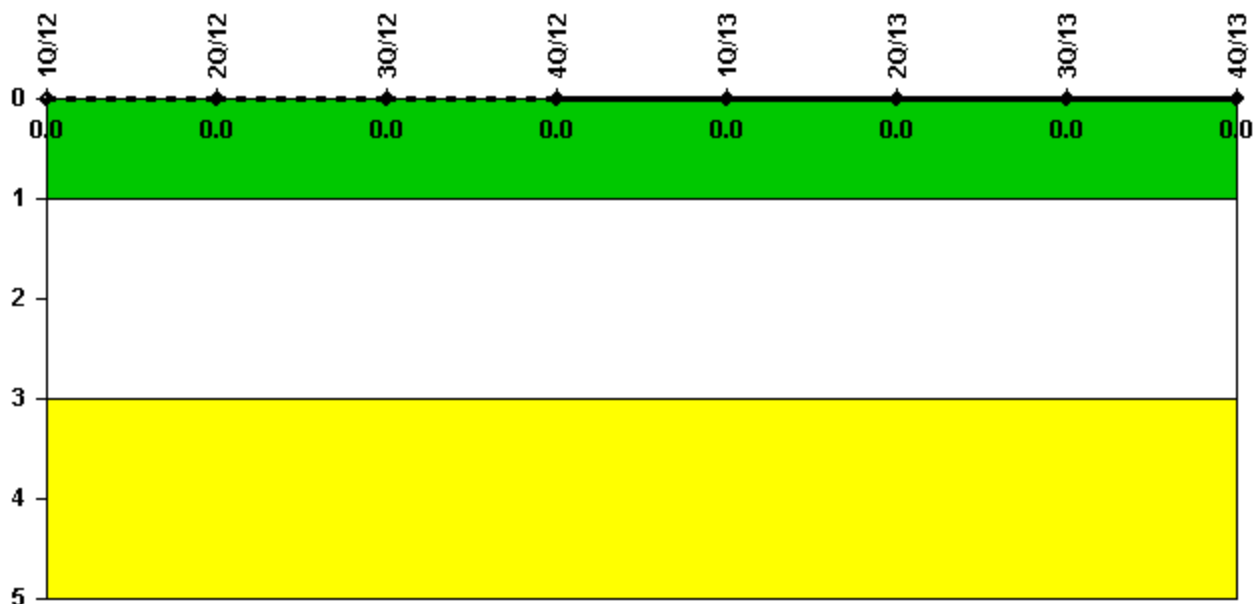
Thresholds: White > 2.0 Yellow > 5.0

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	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	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	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: January 22, 2014