

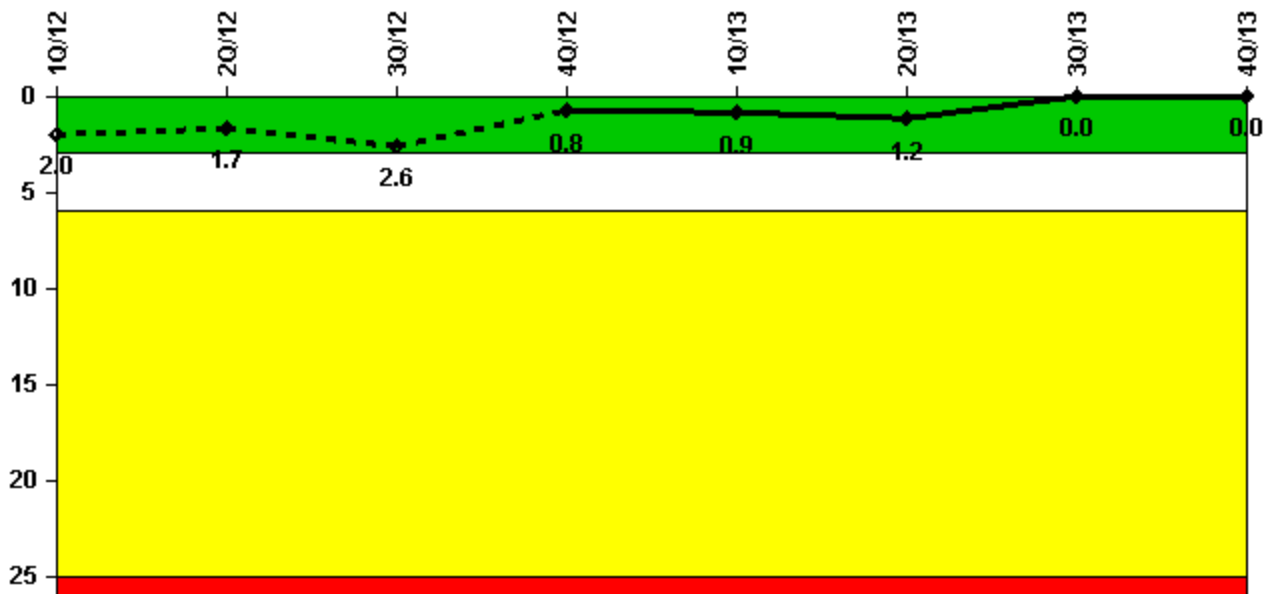
Monticello

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



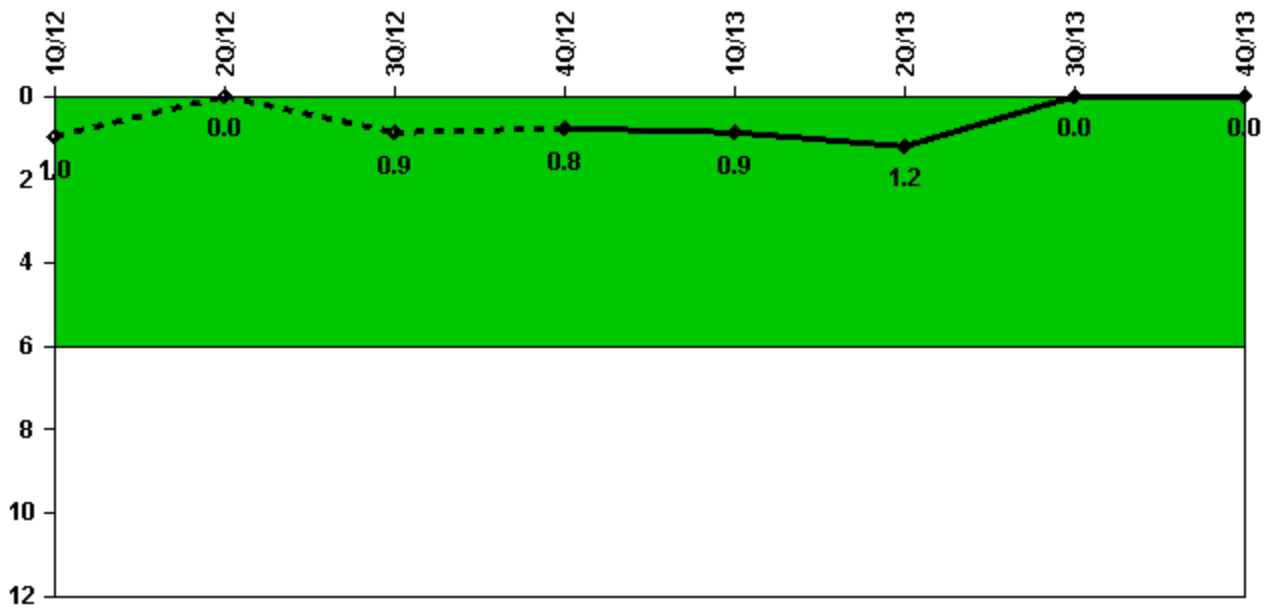
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	1.0	0	0	0	0	0
Critical hours	2183.0	2184.0	2082.0	2209.0	1442.6	0	1826.8	2209.0
Indicator value	2.0	1.7	2.6	0.8	0.9	1.2	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



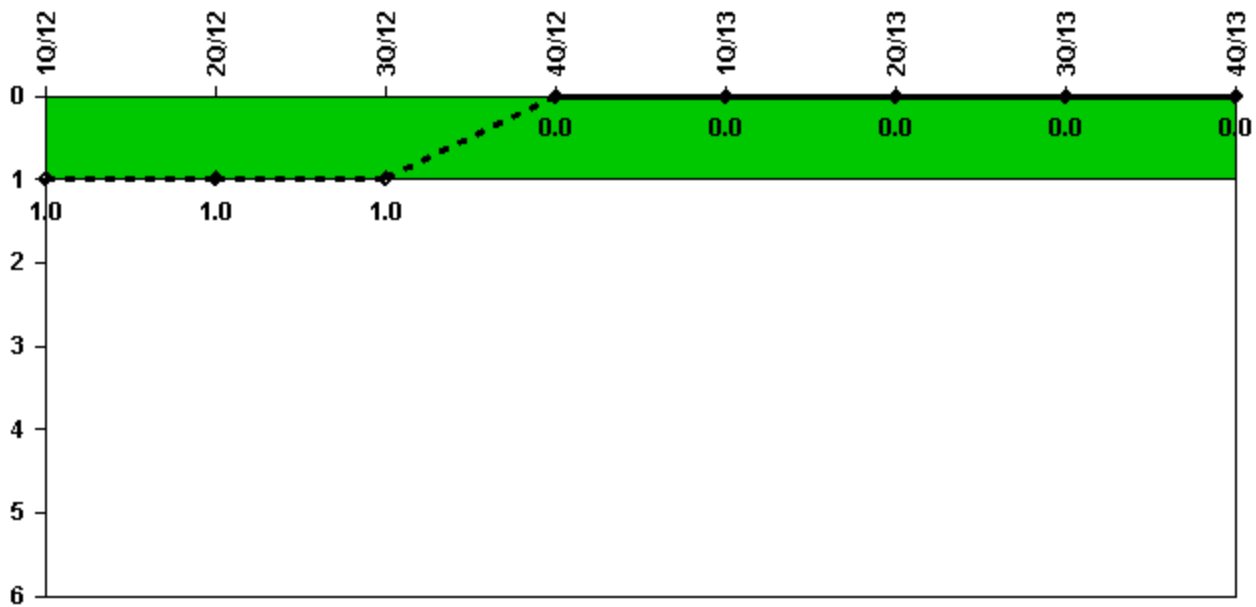
Thresholds: White > 6.0

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	1.0	0	0	0	0	0
Critical hours	2183.0	2184.0	2082.0	2209.0	1442.6	0	1826.8	2209.0
Indicator value	1.0	0	0.9	0.8	0.9	1.2	0	0

Licensee Comments: none

Unplanned Scrams with Complications



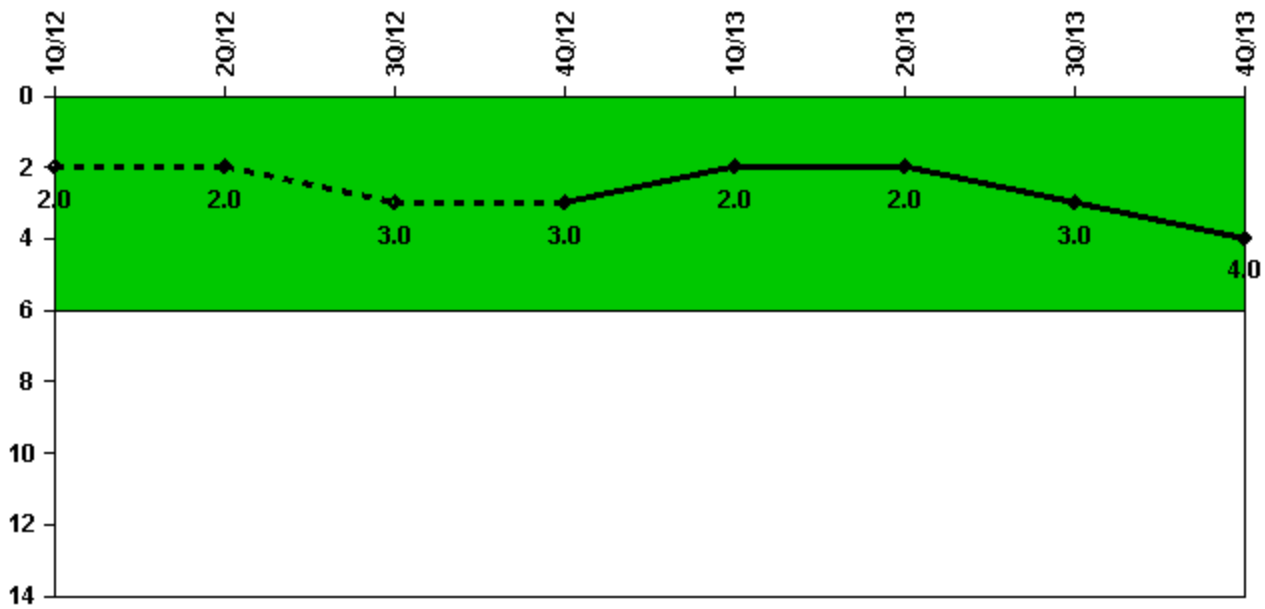
Thresholds: White > 1.0

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	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (BWR)



Thresholds: White > 6.0

Notes

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

Licensee Comments:

4Q/13: LER 2013-008, LER 2013-006

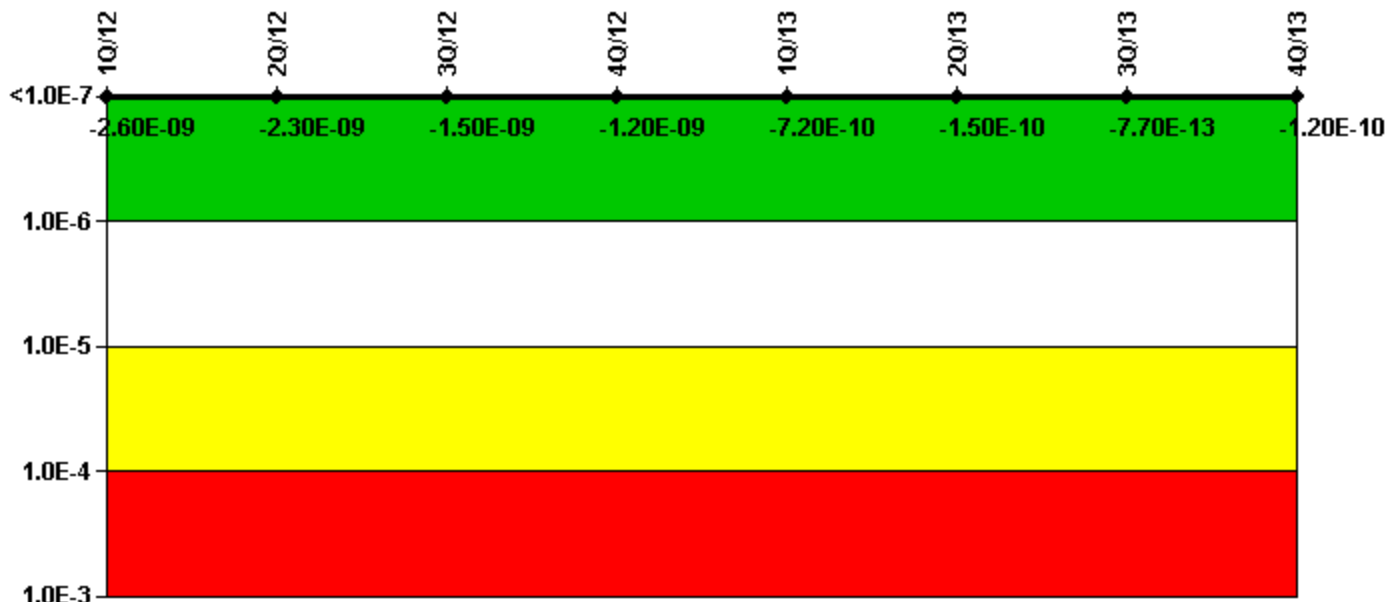
3Q/13: LER 2013-003-01, LER 2013-004

4Q/12: LER 2012-004

3Q/12: LER 2012-001, 7/5/2012

1Q/12: LER 2011-10

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

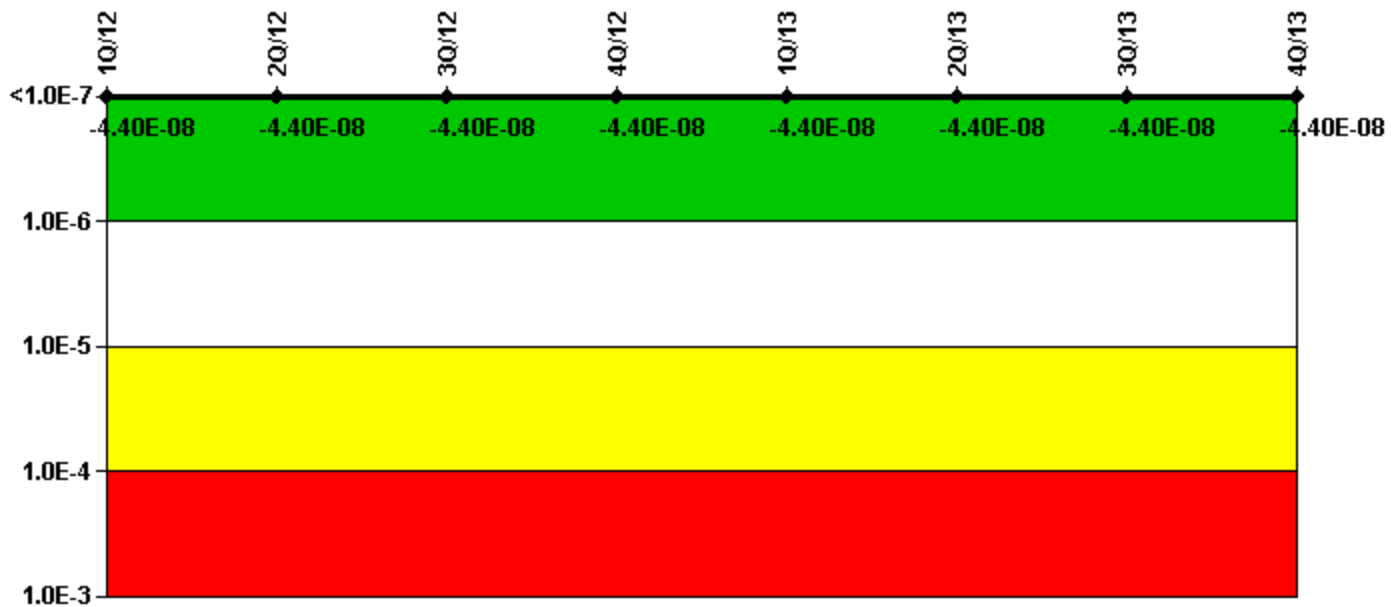
Mitigating Systems Performance Index, Emergency AC Power System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	-1.19E-09	-1.21E-09	-7.80E-10	-8.43E-10	-7.23E-10	-3.42E-10	-6.03E-10	-1.15E-09
URI (ΔCDF)	-1.44E-09	-1.10E-09	-7.43E-10	-3.77E-10	2.50E-12	1.94E-10	6.02E-10	1.03E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-09	-2.30E-09	-1.50E-09	-1.20E-09	-7.20E-10	-1.50E-10	-7.70E-13	-1.20E-10

Licensee Comments:

1Q/12: Emergency AC Power MSPI estimated run hours changed to align with new run hours definition per NRC Response to FAQ 11-06. Emergency AC Power MSPI estimated load run demands updated to correct latent error on A-EDG. No color change.

1Q/12: Emergency AC Power MSPI estimated run hours changed to align with new run hours definition per NRC Response to FAQ 11-06. Emergency AC Power MSPI estimated load run demands updated to correct latent error on A-EDG. No color change.

Mitigating Systems Performance Index, High Pressure Injection System



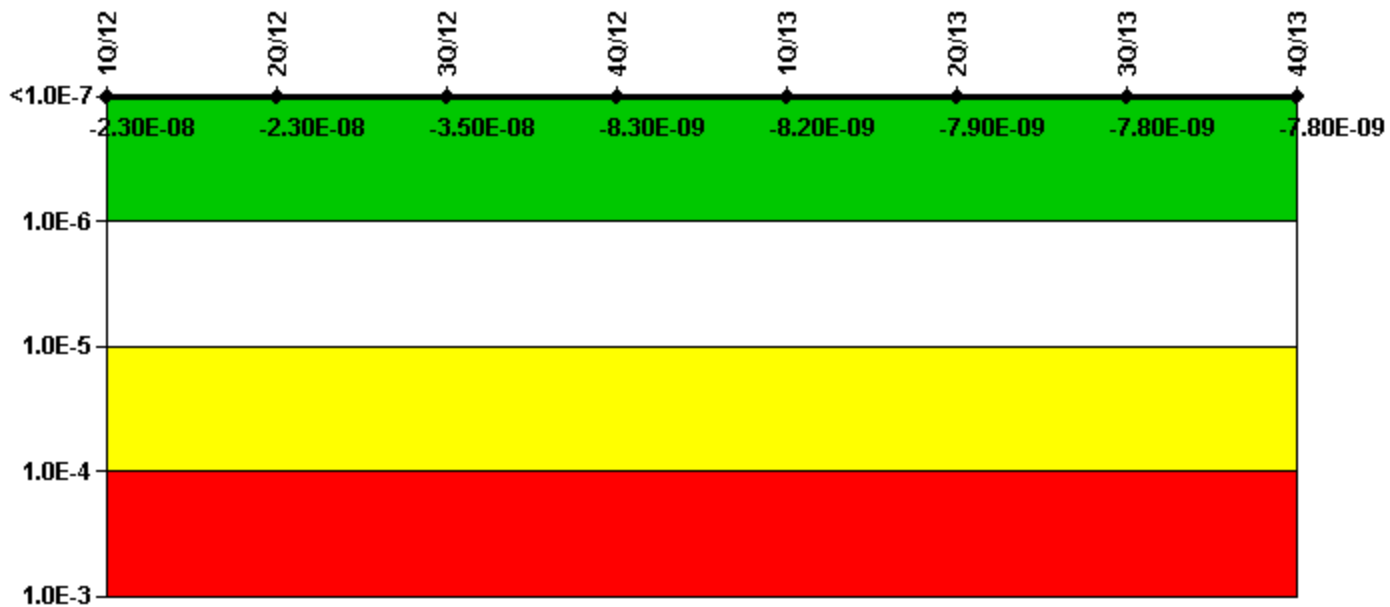
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08
URI (Δ CDF)	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



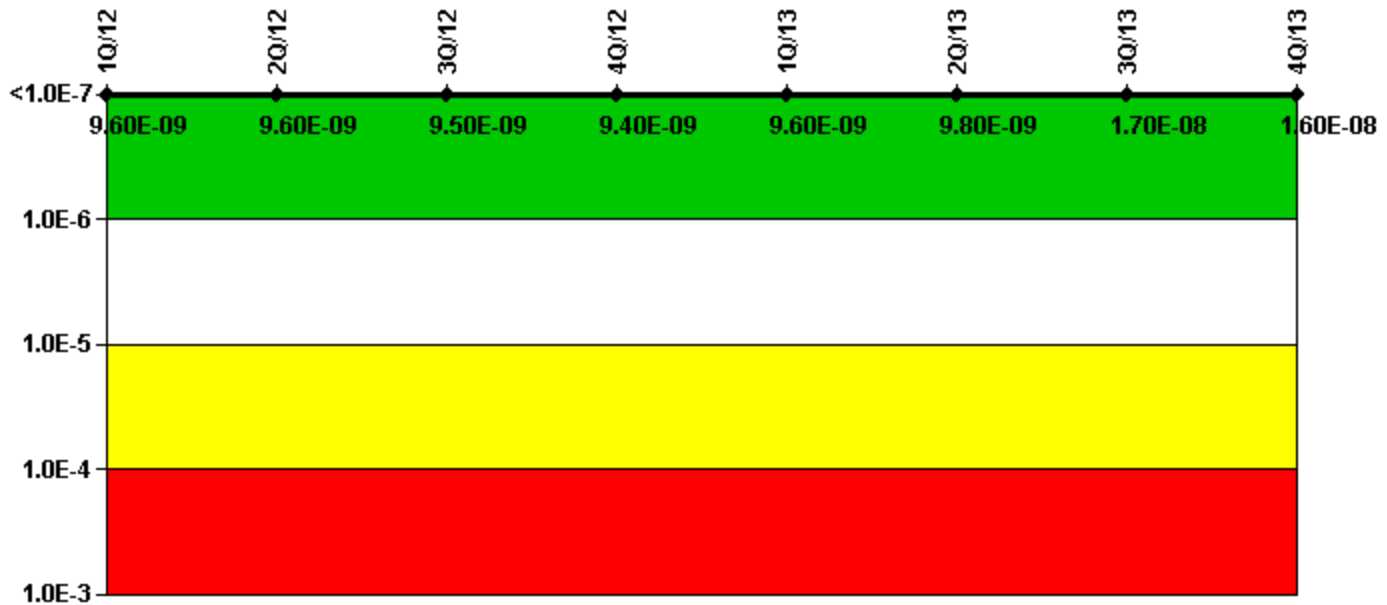
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-1.75E-09	-2.21E-09	-1.44E-08	-1.15E-08	-1.14E-08	-1.11E-08	-1.10E-08	-1.10E-08
URI (Δ CDF)	-2.11E-08	-2.11E-08	-2.11E-08	3.18E-09	3.18E-09	3.18E-09	3.18E-09	3.18E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-08	-2.30E-08	-3.50E-08	-8.30E-09	-8.20E-09	-7.90E-09	-7.80E-09	-7.80E-09

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



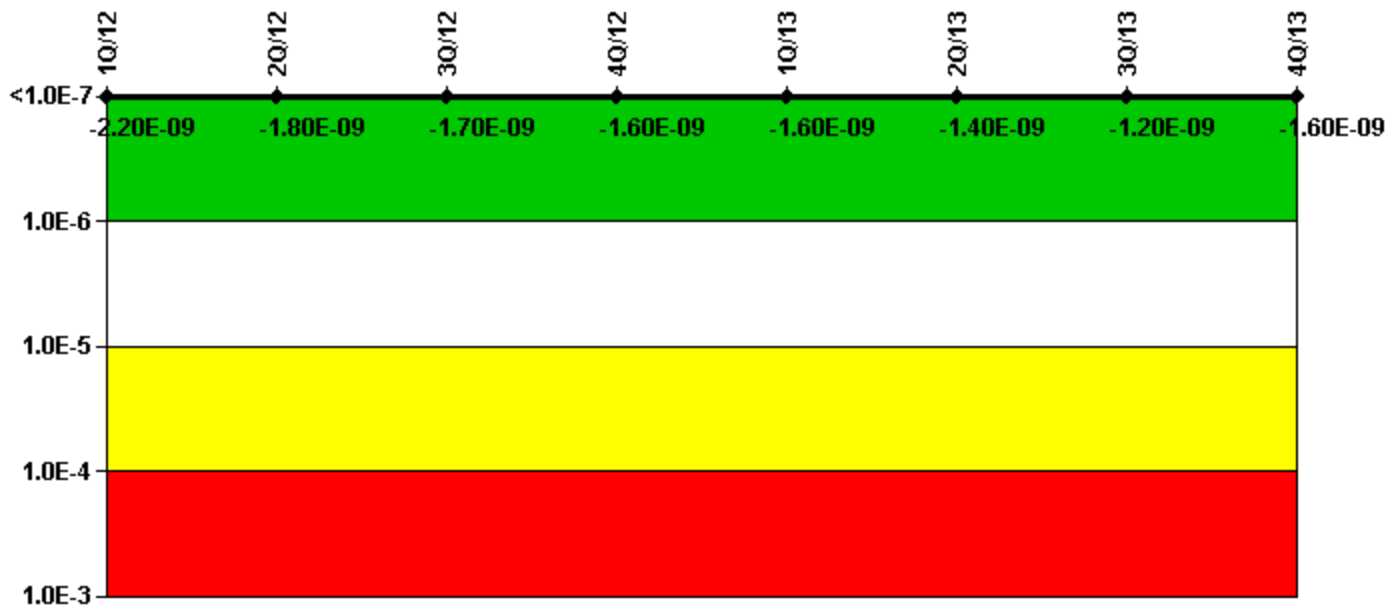
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-7.79E-11	-1.23E-10	-2.23E-10	-2.73E-10	-3.05E-11	8.66E-11	1.95E-10	-3.83E-10
URI (Δ CDF)	9.68E-09	9.68E-09	9.68E-09	9.68E-09	9.68E-09	9.68E-09	1.67E-08	1.67E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.60E-09	9.60E-09	9.50E-09	9.40E-09	9.60E-09	9.80E-09	1.70E-08	1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

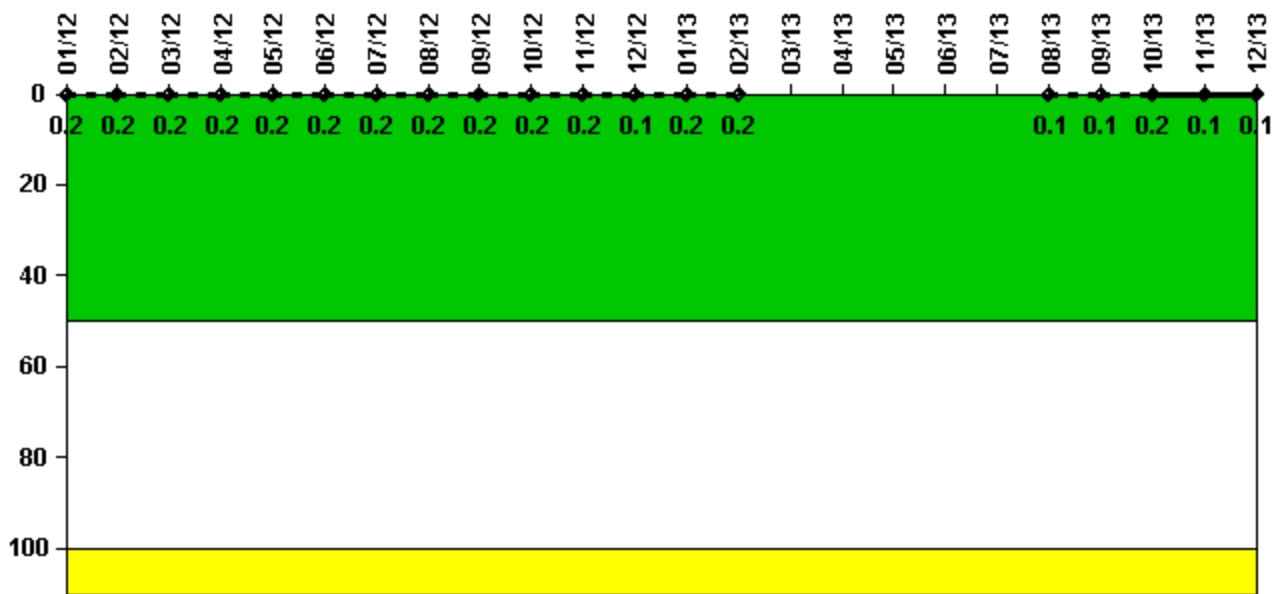
Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-2.16E-09	-1.75E-09	-1.66E-09	-1.57E-09	-1.59E-09	-1.37E-09	-1.21E-09	-1.64E-09
URI (Δ CDF)	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-09	-1.80E-09	-1.70E-09	-1.60E-09	-1.60E-09	-1.40E-09	-1.20E-09	-1.60E-09

Licensee Comments:

1Q/12: An historical review was performed of past failures of RHR. 3/7/2012 failure was reclassified as an MSPI failure. This change did not result in a color change.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

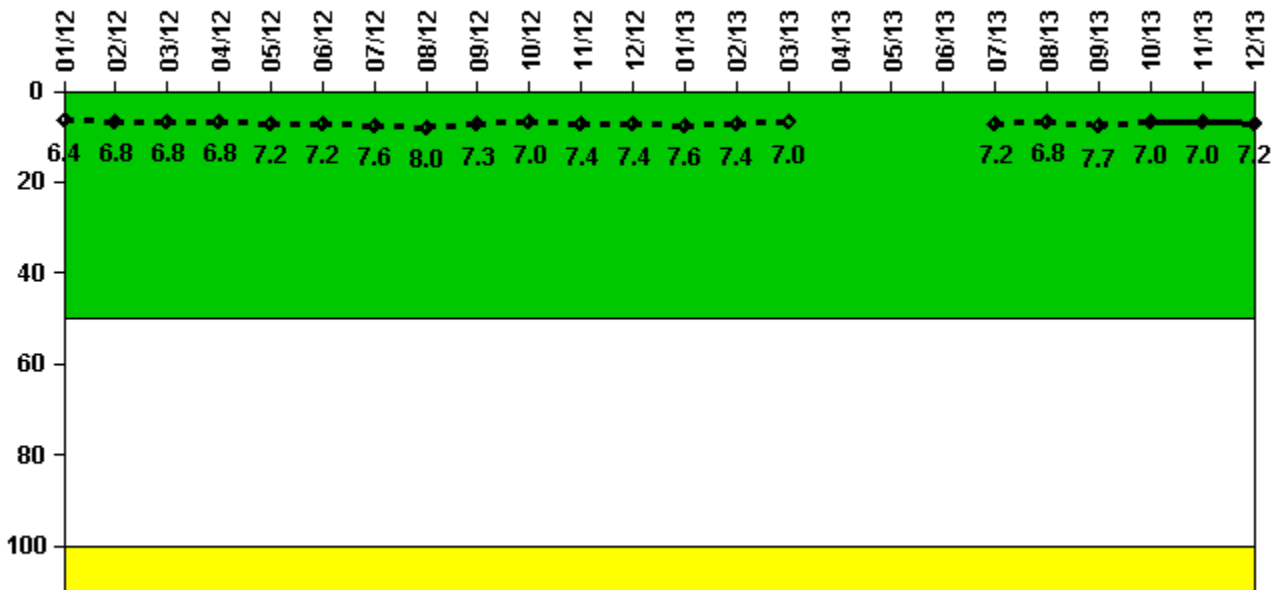
Reactor Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	0.000466	0.000420	0.000346	0.000437	0.000462	0.000331	0.000344	0.000399	0.000420	0.000354	0.000316	0.000273
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1

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	0.000343	0.000302	N/A	N/A	N/A	N/A	N/A	0.000232	0.000248	0.000339	0.000174	0.000166
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	0.2	0.2	N/A	N/A	N/A	N/A	N/A	0.1	0.1	0.2	0.1	0.1

Licensee Comments:

6/13: Plant Conditions do not require RCS activity to be calculated for April, May and June 2013.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

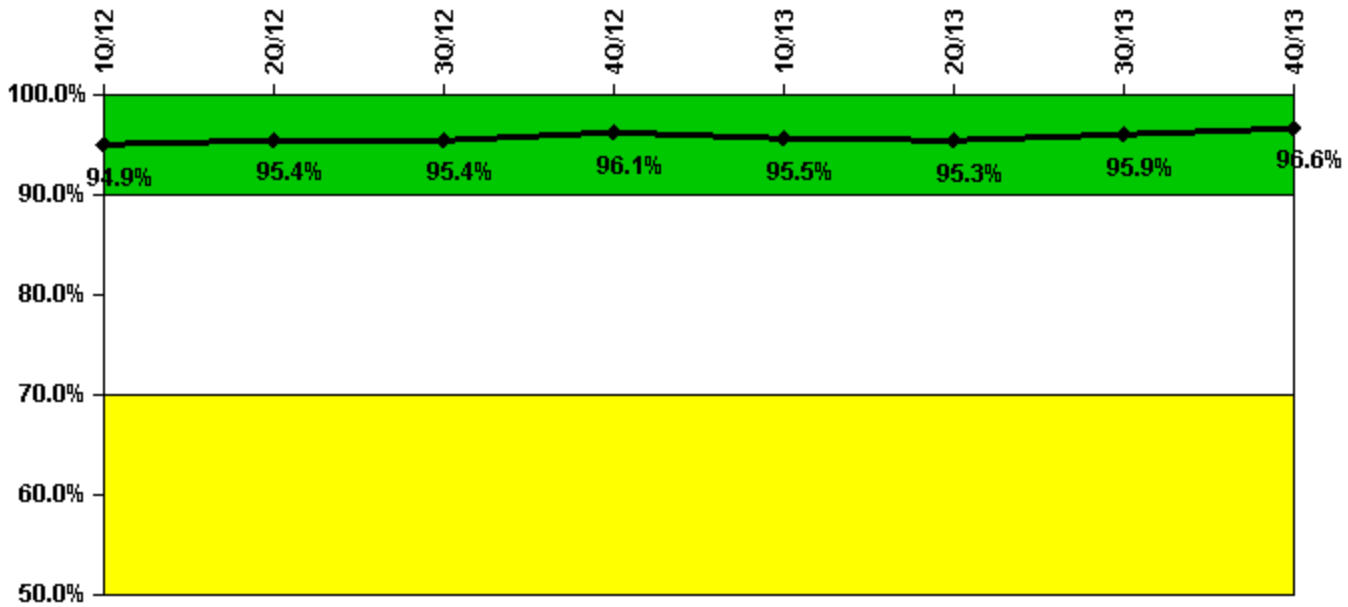
Notes

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	1.600	1.700	1.700	1.700	1.800	1.800	1.900	2.000	1.820	1.750	1.840	1.840
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	6.4	6.8	6.8	6.8	7.2	7.2	7.6	8.0	7.3	7.0	7.4	7.4
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	1.900	1.840	1.760	N/A	N/A	N/A	1.800	1.690	1.920	1.740	1.760	1.790
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	7.6	7.4	7.0	N/A	N/A	N/A	7.2	6.8	7.7	7.0	7.0	7.2

Licensee Comments:

6/13: Plant Conditions do not require RCS activity to be calculated for April, May and June 2013.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

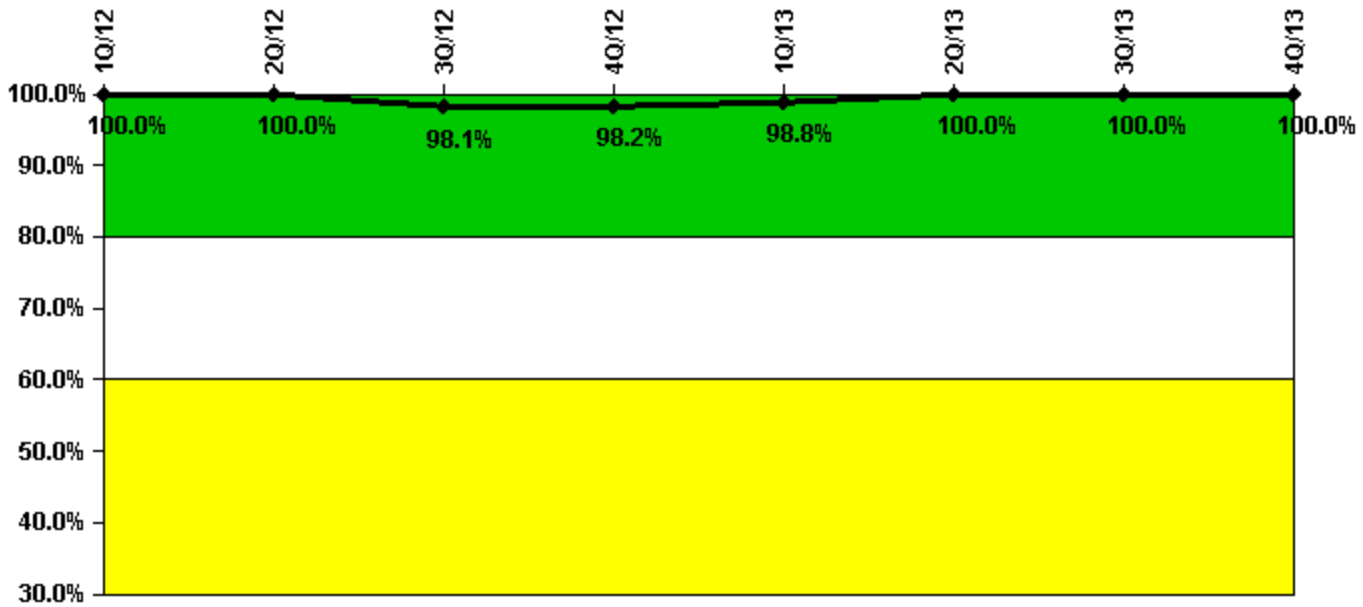
Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	45.0	42.0	40.0	46.0	16.0	7.0	37.0	77.0
Total opportunities	47.0	42.0	42.0	46.0	19.0	7.0	39.0	79.0
Indicator value	94.9%	95.4%	95.4%	96.1%	95.5%	95.3%	95.9%	96.6%

Licensee Comments:

3Q/12: Sept 2012 ammended to include 6 successes for 6 oppotunities due to licensed operator requal exam security that was unavaillable for 3rd quarter submittal. No color change.

ERO Drill Participation



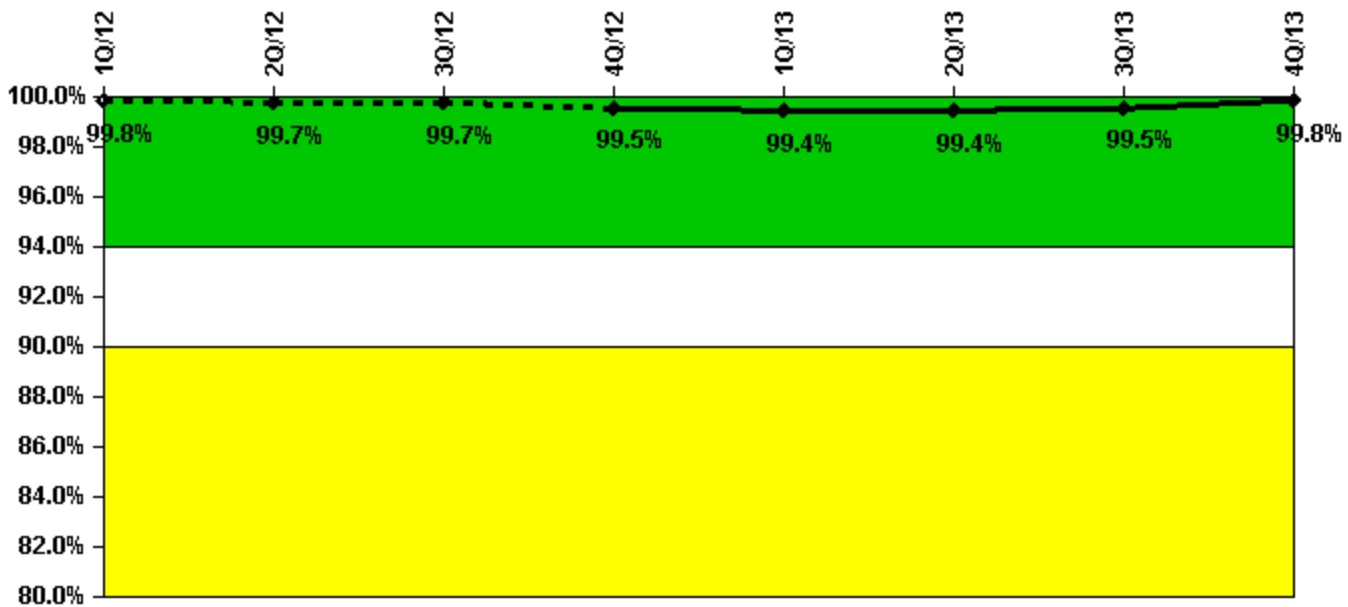
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	146.0	144.0	151.0	163.0	160.0	173.0	165.0	164.0
Total Key personnel	146.0	144.0	154.0	166.0	162.0	173.0	165.0	164.0
Indicator value	100.0%	100.0%	98.1%	98.2%	98.8%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



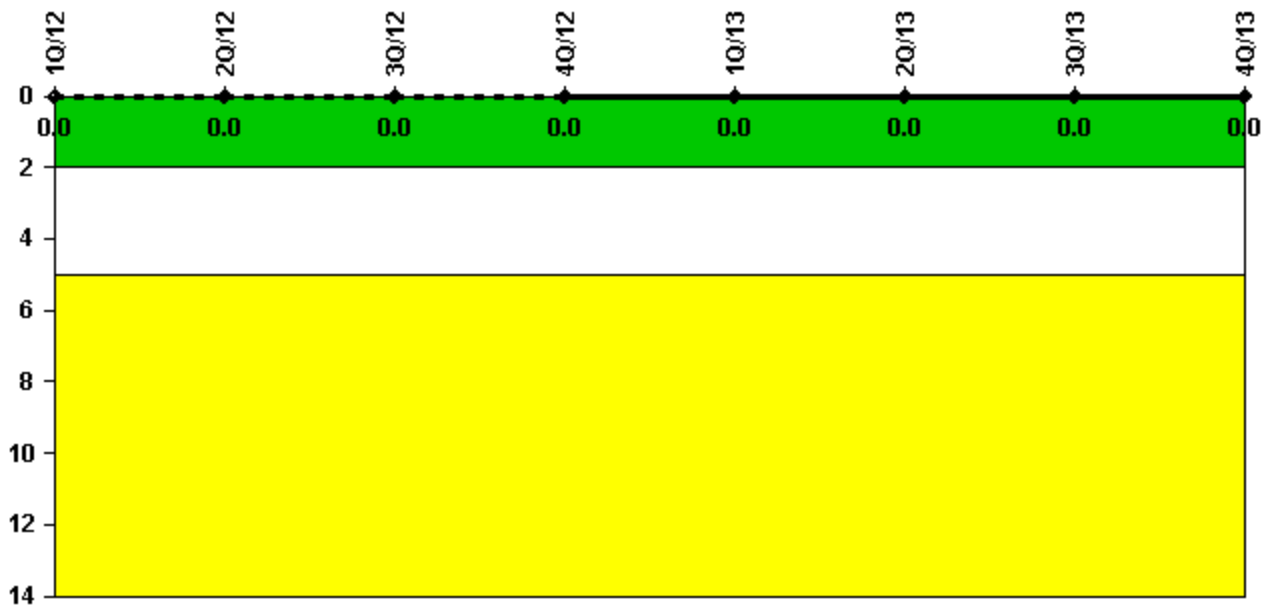
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	1374	1373	1374	1362	1368	1377	1378	1377
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	99.8%	99.7%	99.7%	99.5%	99.4%	99.4%	99.5%	99.8%

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