

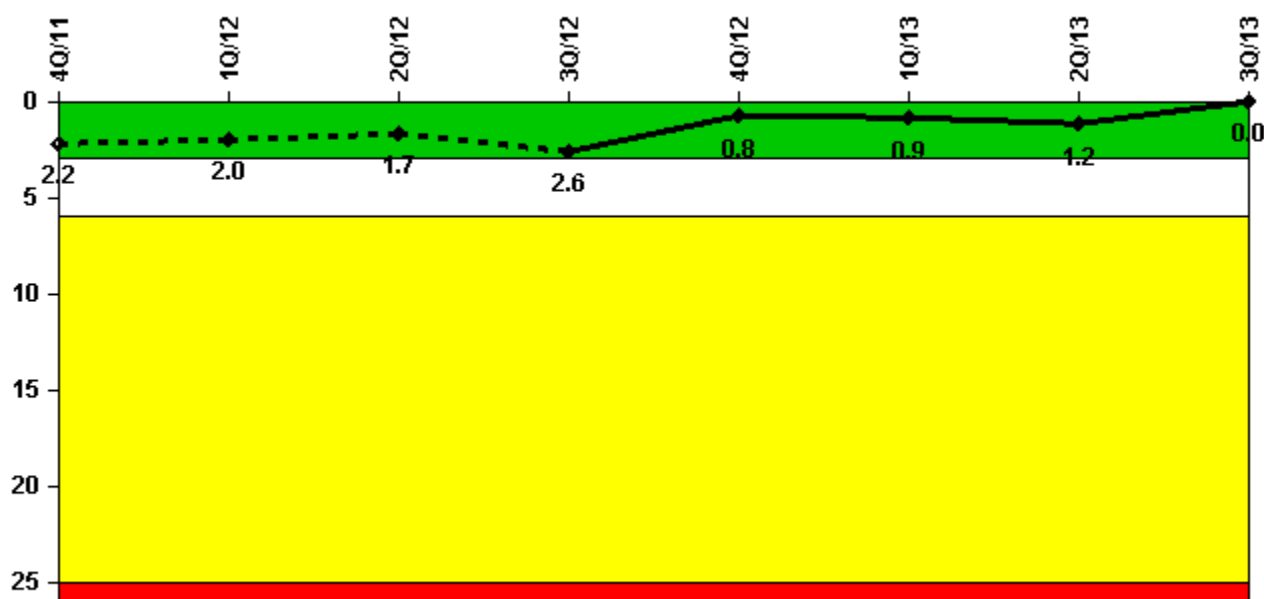
Monticello

3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: During the 3rd Qtr 2013, the component group for the EDG-ESW pumps (P-111A and P-111B) were corrected to be motor-driven pump running or alternating to motor-driven pump standby to reflect the actual operation of the EAC cooling water pumps. This change did not result in any color change.

Unplanned Scrams per 7000 Critical Hrs



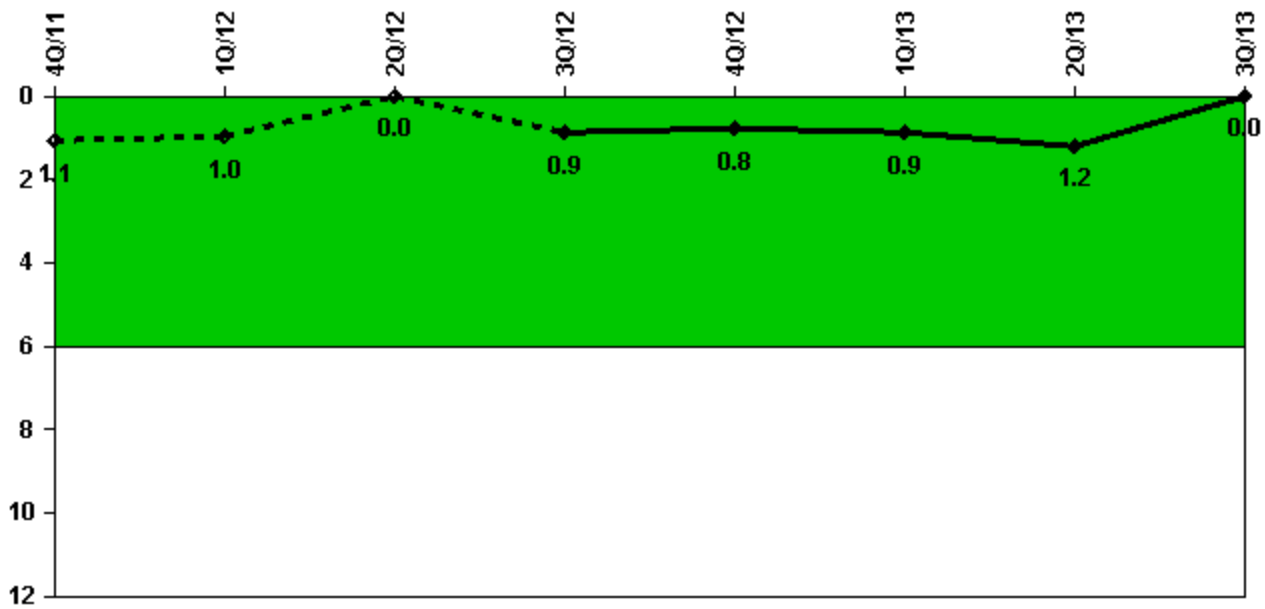
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned scrams	2.0	0	0	1.0	0	0	0	0
Critical hours	1638.9	2183.0	2184.0	2082.0	2209.0	1442.6	0	1826.8
Indicator value	2.2	2.0	1.7	2.6	0.8	0.9	1.2	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



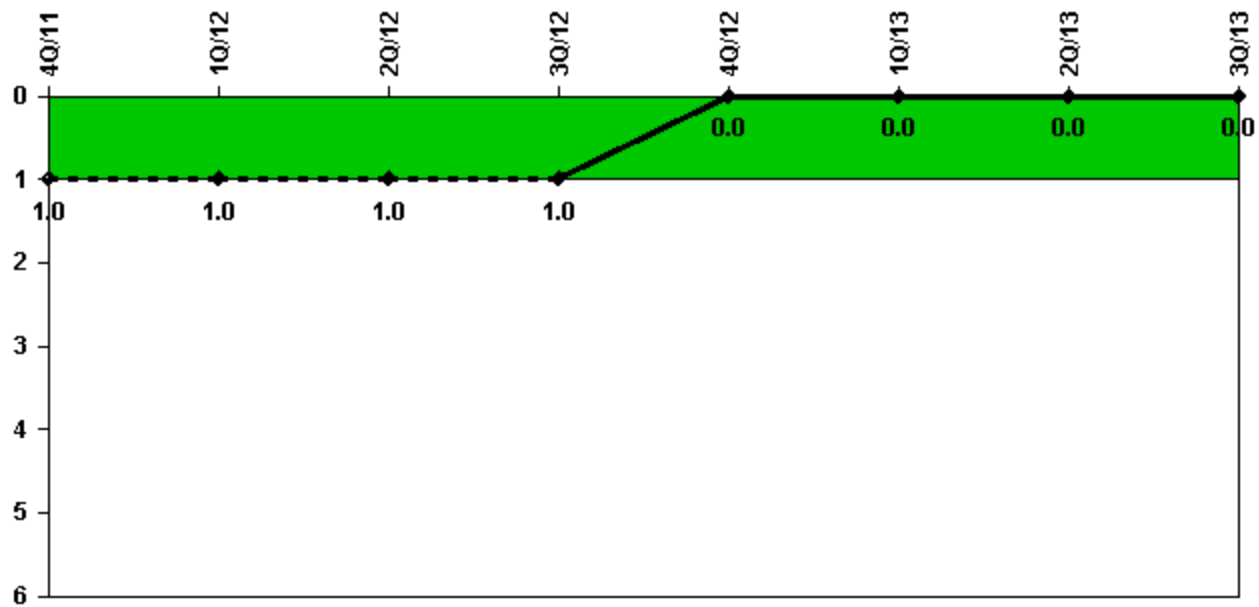
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	1638.9	2183.0	2184.0	2082.0	2209.0	1442.6	0	1826.8
Indicator value	1.1	1.0	0	0.9	0.8	0.9	1.2	0

Licensee Comments: none

Unplanned Scrams with Complications



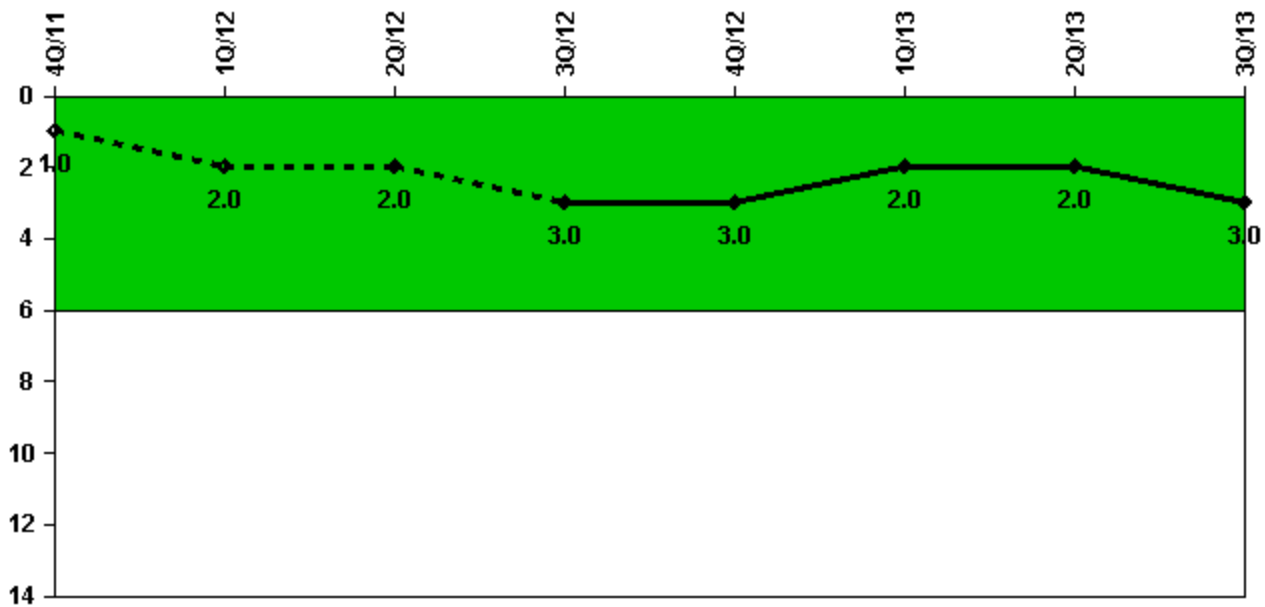
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Scrams with complications	1.0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	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)	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Safety System Functional Failures	1	1	0	1	1	0	0	2
Indicator value	1	2	2	3	3	2	2	3

Licensee Comments:

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

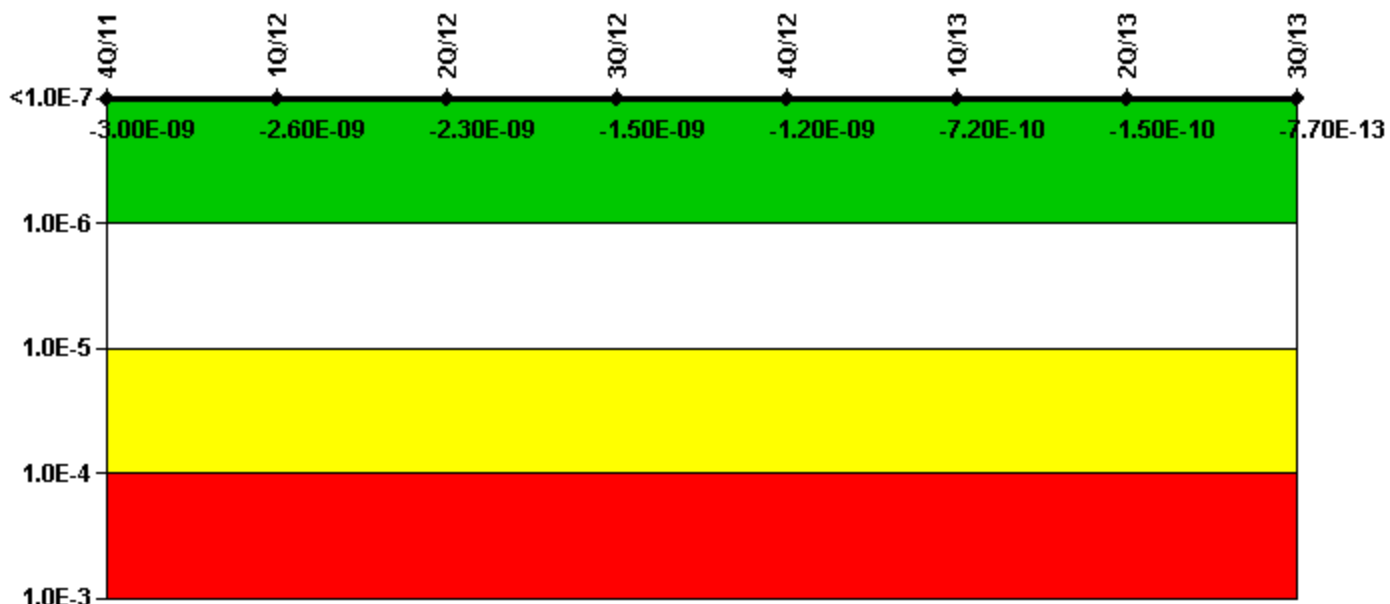
4Q/12: LER 2012-004

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

1Q/12: LER 2011-10

4Q/11: LER 2011-008

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/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (ΔCDF)	-1.18E-09	-1.19E-09	-1.21E-09	-7.80E-10	-8.43E-10	-7.23E-10	-3.42E-10	-6.03E-10
URI (ΔCDF)	-1.77E-09	-1.44E-09	-1.10E-09	-7.43E-10	-3.77E-10	2.50E-12	1.94E-10	6.02E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-09	-2.60E-09	-2.30E-09	-1.50E-09	-1.20E-09	-7.20E-10	-1.50E-10	-7.70E-13

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



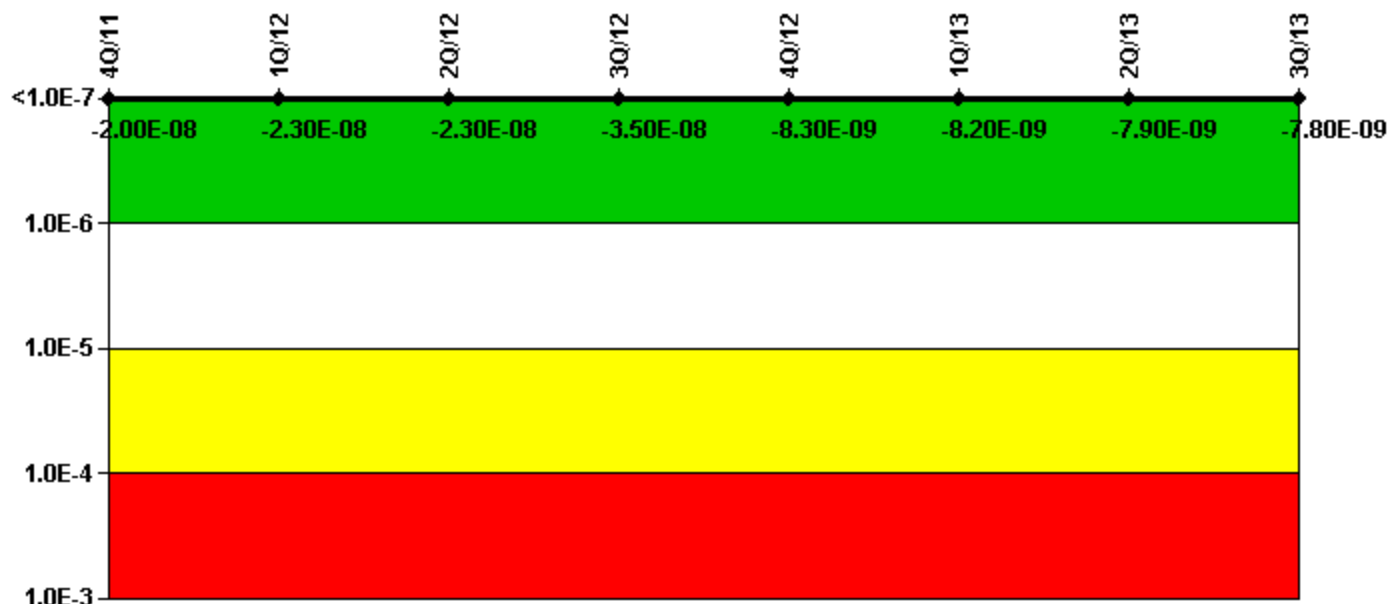
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/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



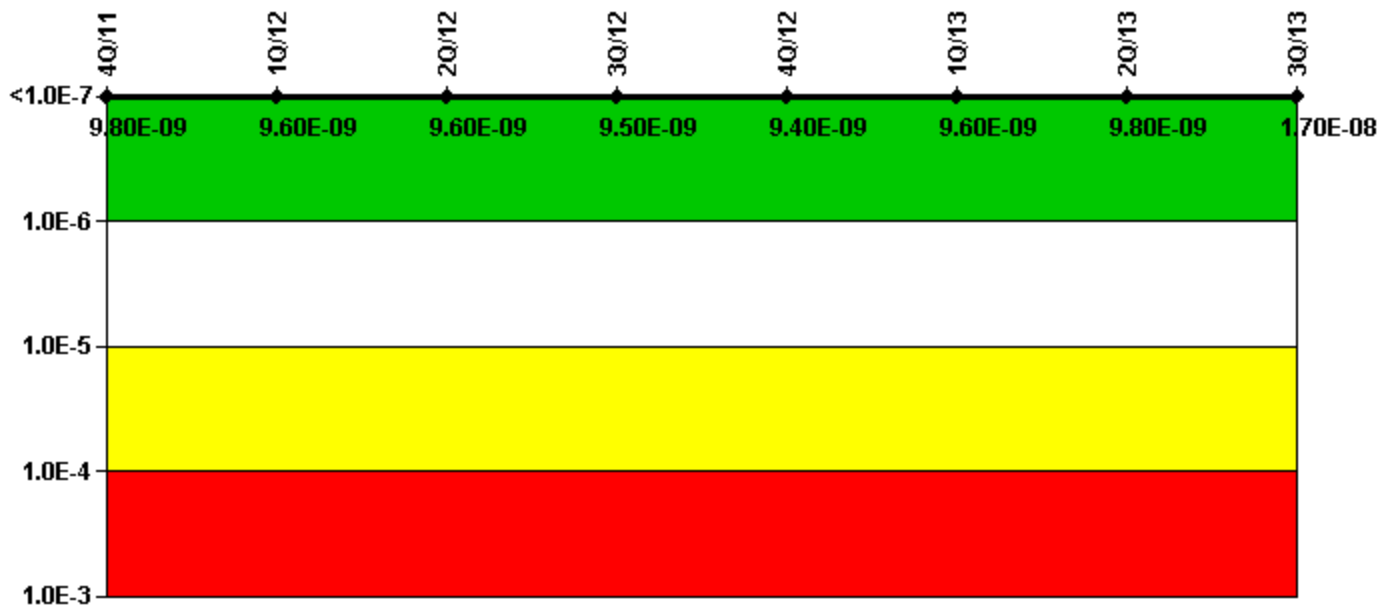
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	6.81E-10	-1.75E-09	-2.21E-09	-1.44E-08	-1.15E-08	-1.14E-08	-1.11E-08	-1.10E-08
URI (Δ CDF)	-2.11E-08	-2.11E-08	-2.11E-08	-2.11E-08	3.18E-09	3.18E-09	3.18E-09	3.18E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-08	-2.30E-08	-2.30E-08	-3.50E-08	-8.30E-09	-8.20E-09	-7.90E-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

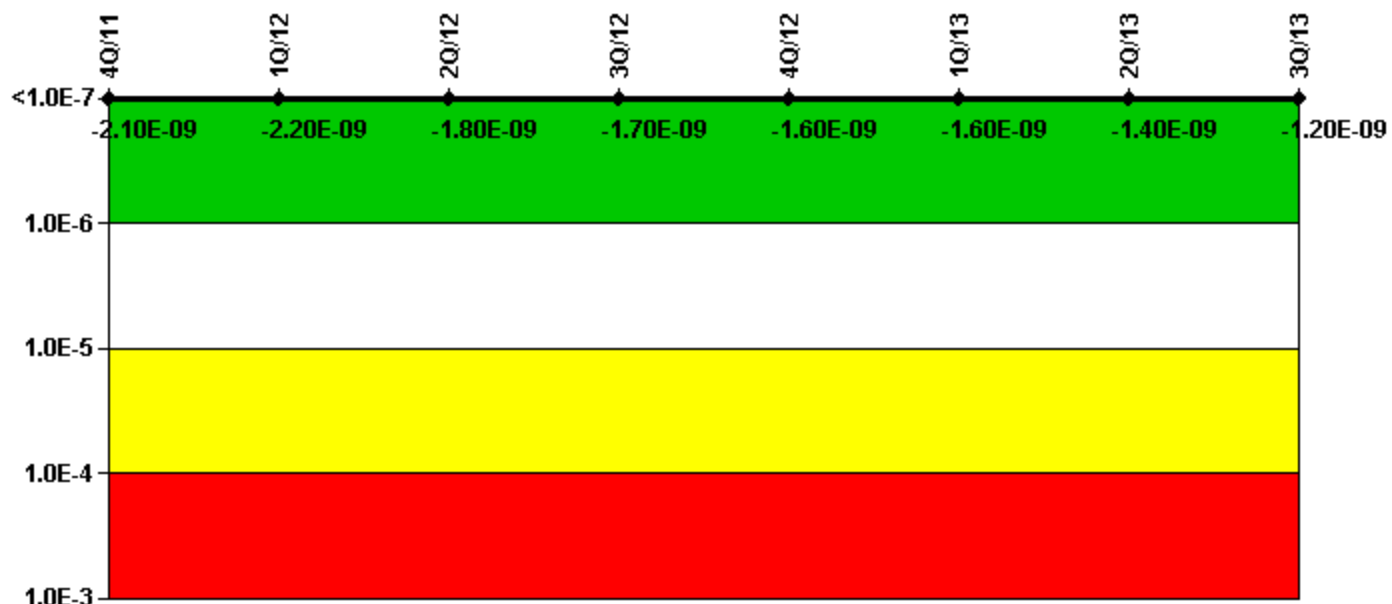
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	9.74E-11	-7.79E-11	-1.23E-10	-2.23E-10	-2.73E-10	-3.05E-11	8.66E-11	1.95E-10
URI (Δ CDF)	9.68E-09	9.68E-09	9.68E-09	9.68E-09	9.68E-09	9.68E-09	9.68E-09	1.67E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.80E-09	9.60E-09	9.60E-09	9.50E-09	9.40E-09	9.60E-09	9.80E-09	1.70E-08

Licensee Comments:

4Q/11: An historical review was performed of past failures of RHR. 10/22/2011 failure was reclassified as an MSPI failure. This change did not result in a color change.

Mitigating Systems Performance Index, Cooling Water Systems



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

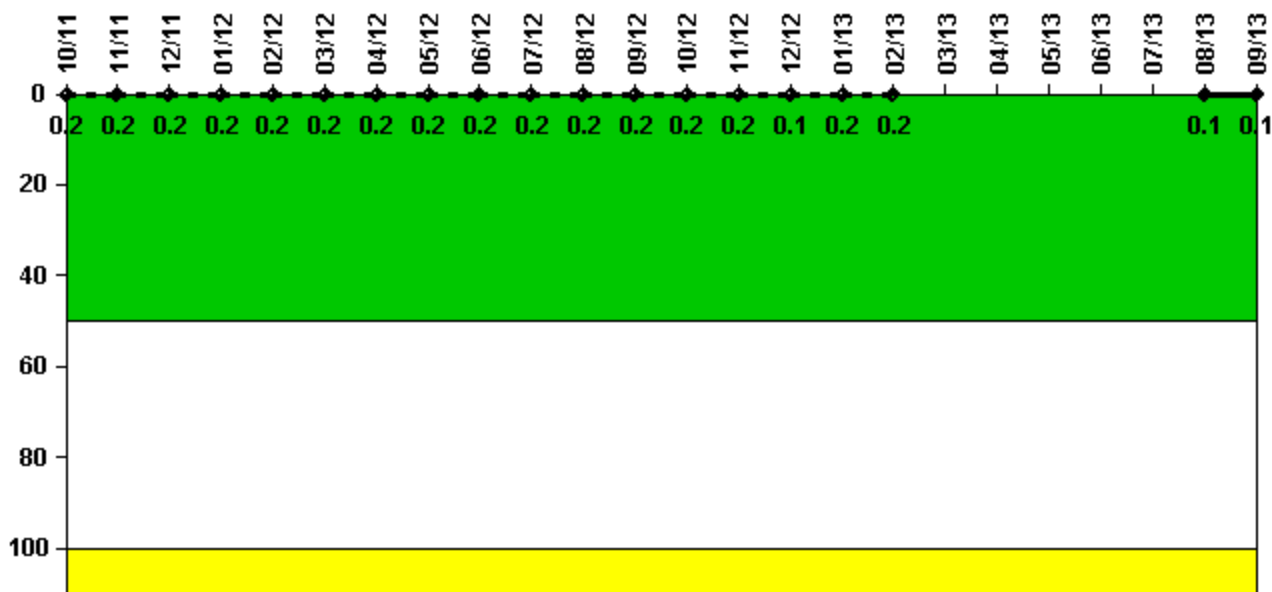
Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	-2.10E-09	-2.16E-09	-1.75E-09	-1.66E-09	-1.57E-09	-1.59E-09	-1.37E-09	-1.21E-09
URI (Δ CDF)	-1.24E-11	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	-2.10E-09	-2.20E-09	-1.80E-09	-1.70E-09	-1.60E-09	-1.60E-09	-1.40E-09	-1.20E-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

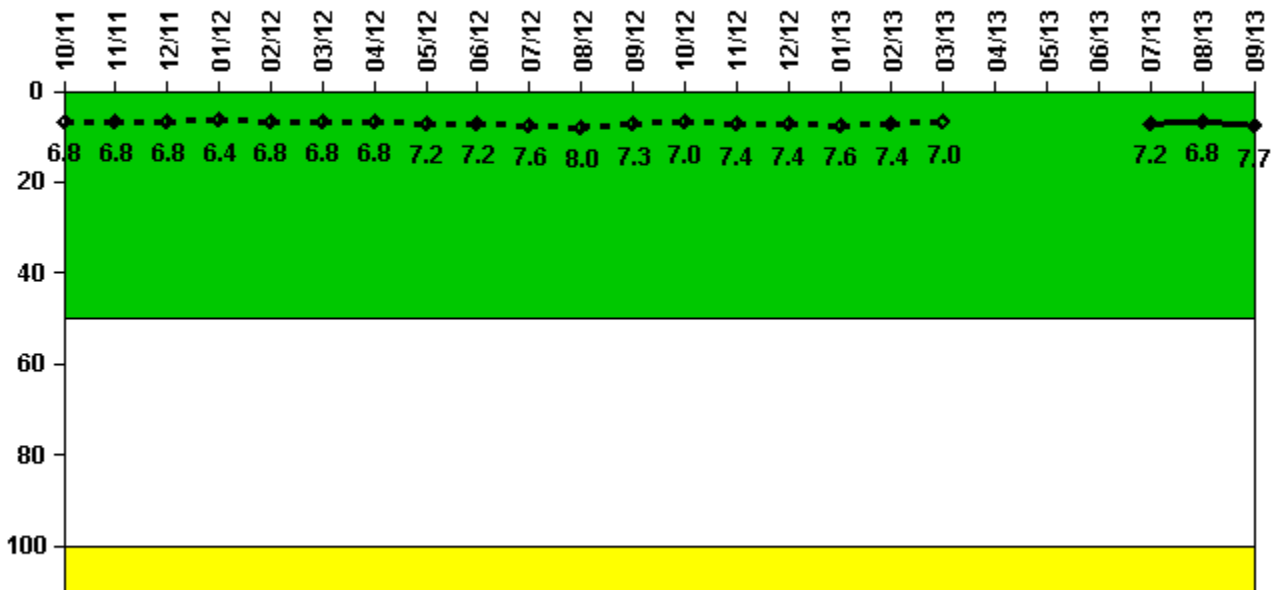
Reactor Coolant System Activity	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum activity	0.000472	0.000472	0.000482	0.000466	0.000420	0.000346	0.000437	0.000462	0.000331	0.000344	0.000399	0.000420
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Reactor Coolant System Activity	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum activity	0.000354	0.000316	0.000273	0.000343	0.000302	N/A	N/A	N/A	N/A	N/A	0.000232	0.000248
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	0.1	0.2	0.2	N/A	N/A	N/A	N/A	N/A	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

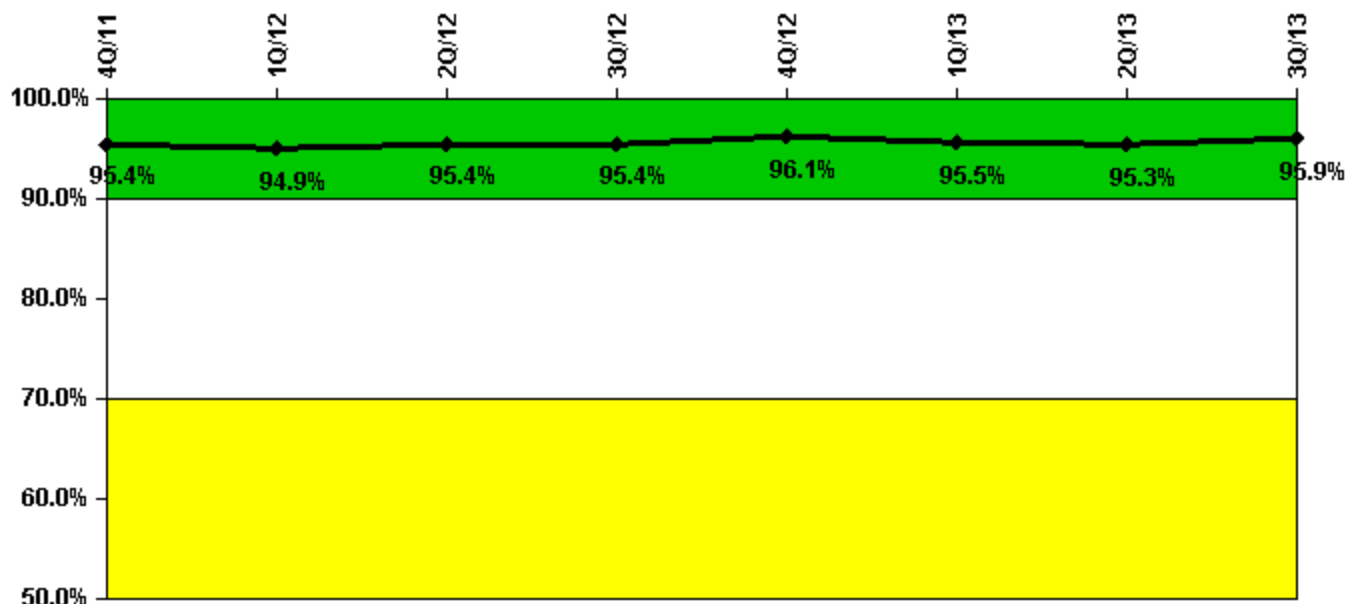
Notes

Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	1.700	1.700	1.700	1.600	1.700	1.700	1.700	1.800	1.800	1.900	2.000	1.820
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	6.8	6.8	6.8	6.4	6.8	6.8	6.8	7.2	7.2	7.6	8.0	7.3
Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	1.750	1.840	1.840	1.900	1.840	1.760	N/A	N/A	N/A	1.800	1.690	1.920
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	7.0	7.4	7.4	7.6	7.4	7.0	N/A	N/A	N/A	7.2	6.8	7.7

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%

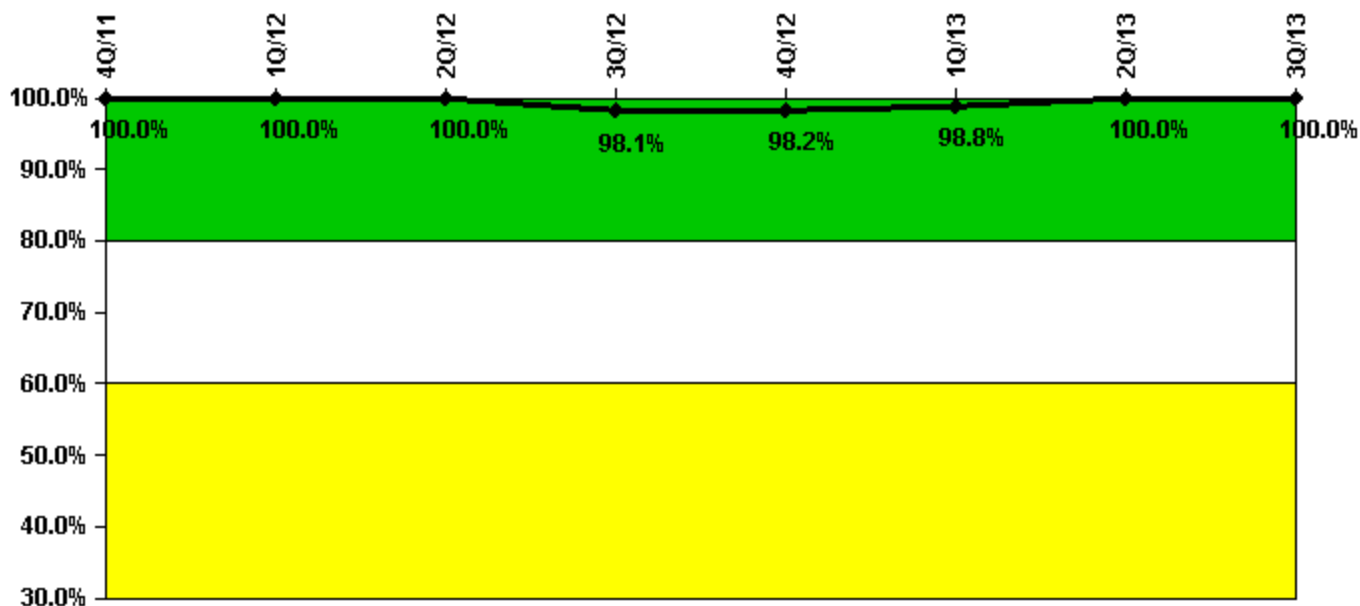
Notes

Drill/Exercise Performance	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful opportunities	49.0	45.0	42.0	40.0	46.0	16.0	7.0	37.0
Total opportunities	52.0	47.0	42.0	42.0	46.0	19.0	7.0	39.0
Indicator value	95.4%	94.9%	95.4%	95.4%	96.1%	95.5%	95.3%	95.9%

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



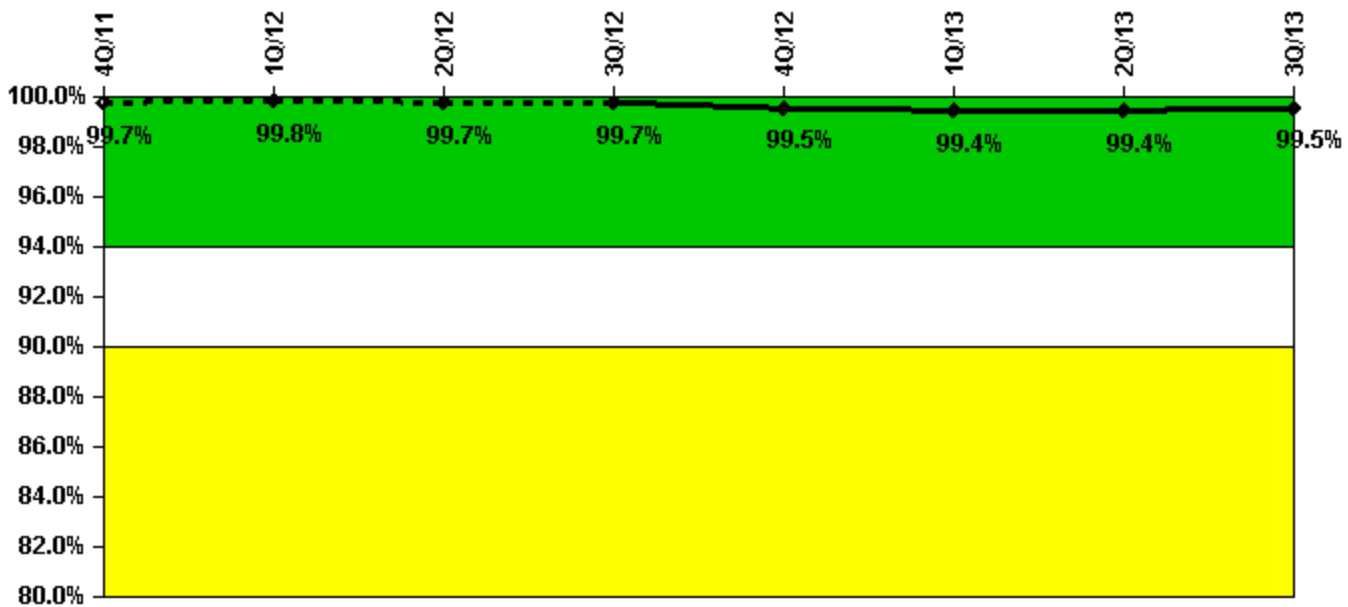
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Participating Key personnel	148.0	146.0	144.0	151.0	163.0	160.0	173.0	165.0
Total Key personnel	148.0	146.0	144.0	154.0	166.0	162.0	173.0	165.0
Indicator value	100.0%	100.0%	100.0%	98.1%	98.2%	98.8%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



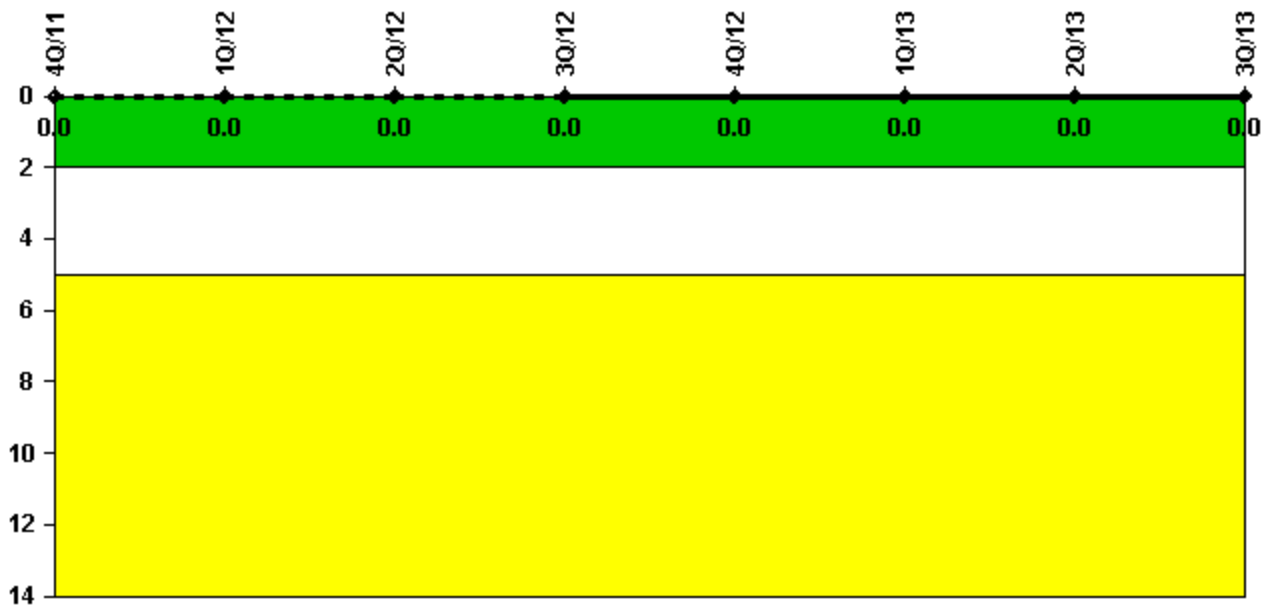
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful siren-tests	1375	1374	1373	1374	1362	1368	1377	1378
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	99.7%	99.8%	99.7%	99.7%	99.5%	99.4%	99.4%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



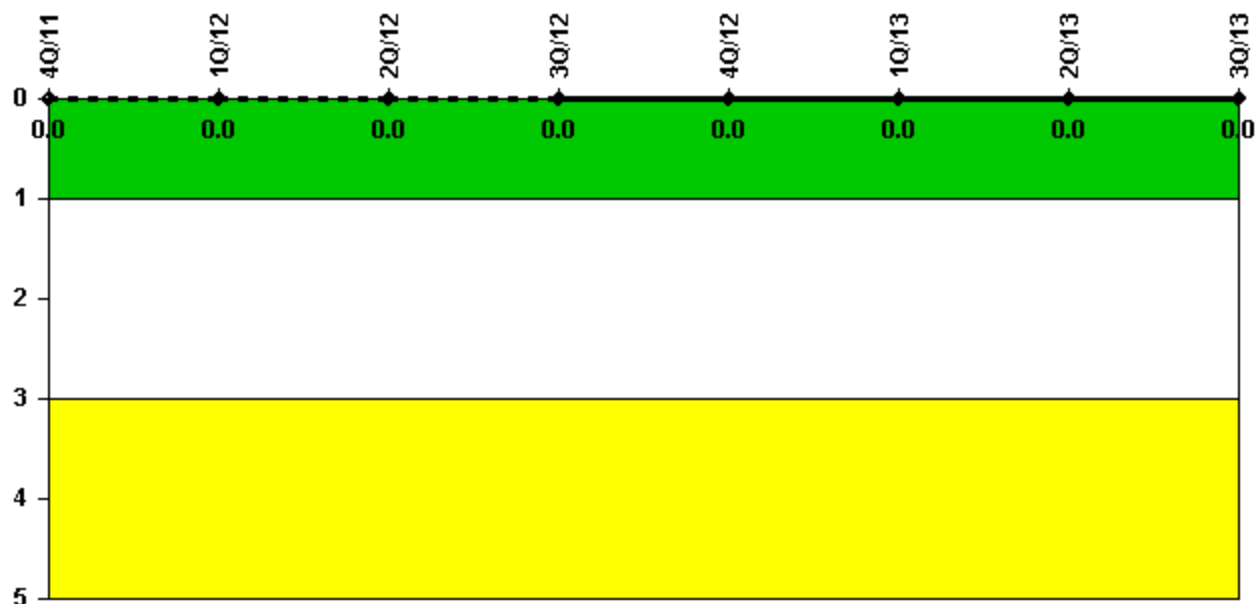
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/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	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/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: October 22, 2013