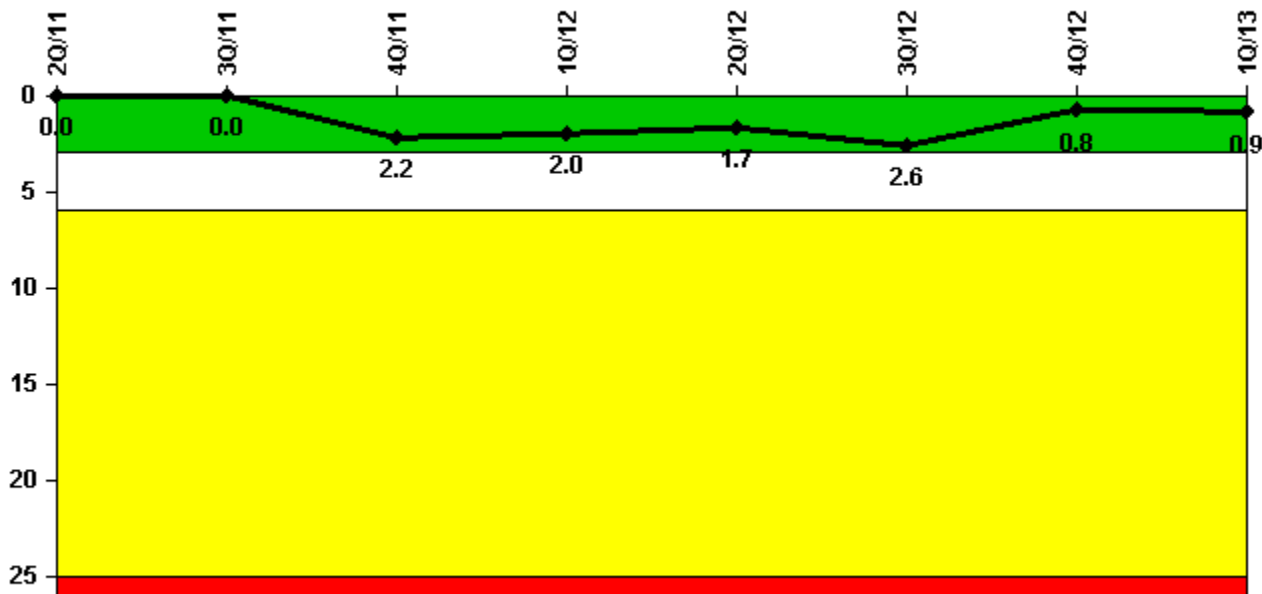


Monticello

1Q/2013 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



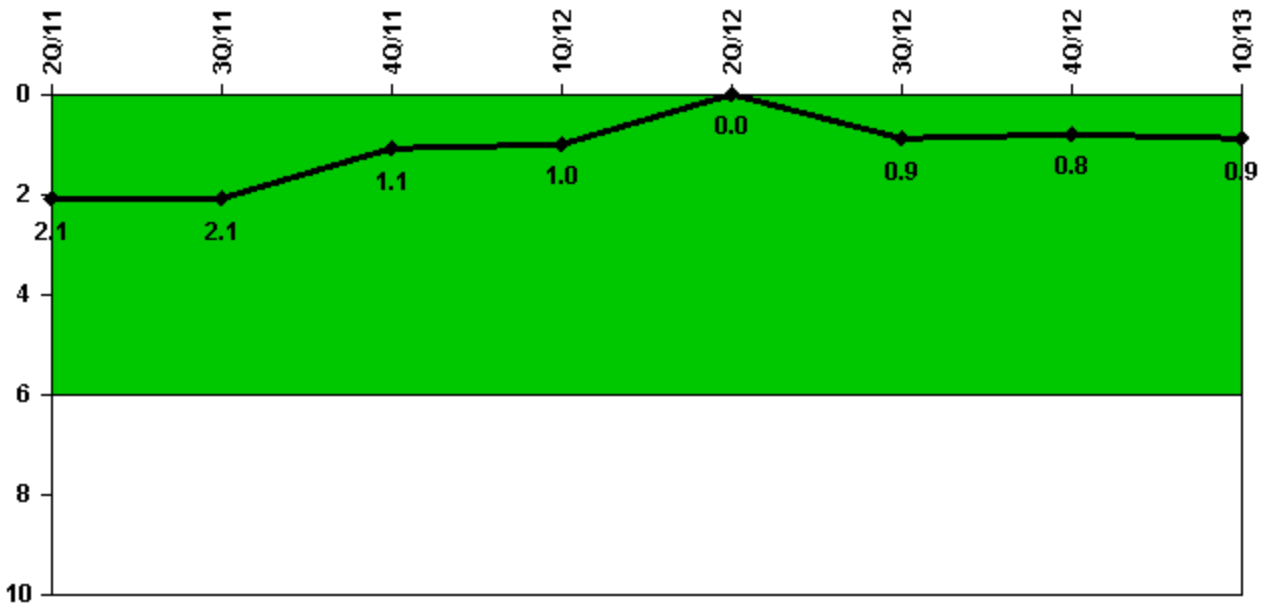
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned scrams	0	0	2.0	0	0	1.0	0	0
Critical hours	888.5	2208.0	1638.9	2183.0	2184.0	2082.0	2209.0	1442.6
Indicator value	0	0	2.2	2.0	1.7	2.6	0.8	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



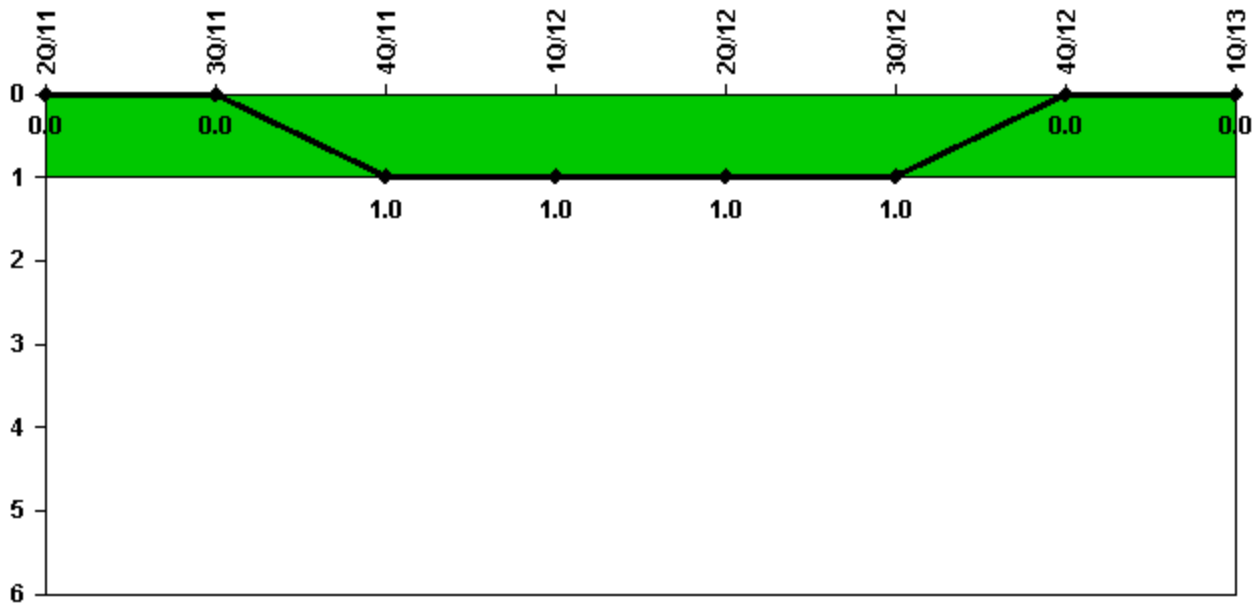
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned power changes	1.0	0	0	0	0	1.0	0	0
Critical hours	888.5	2208.0	1638.9	2183.0	2184.0	2082.0	2209.0	1442.6
Indicator value	2.1	2.1	1.1	1.0	0	0.9	0.8	0.9

Licensee Comments: none

Unplanned Scrams with Complications



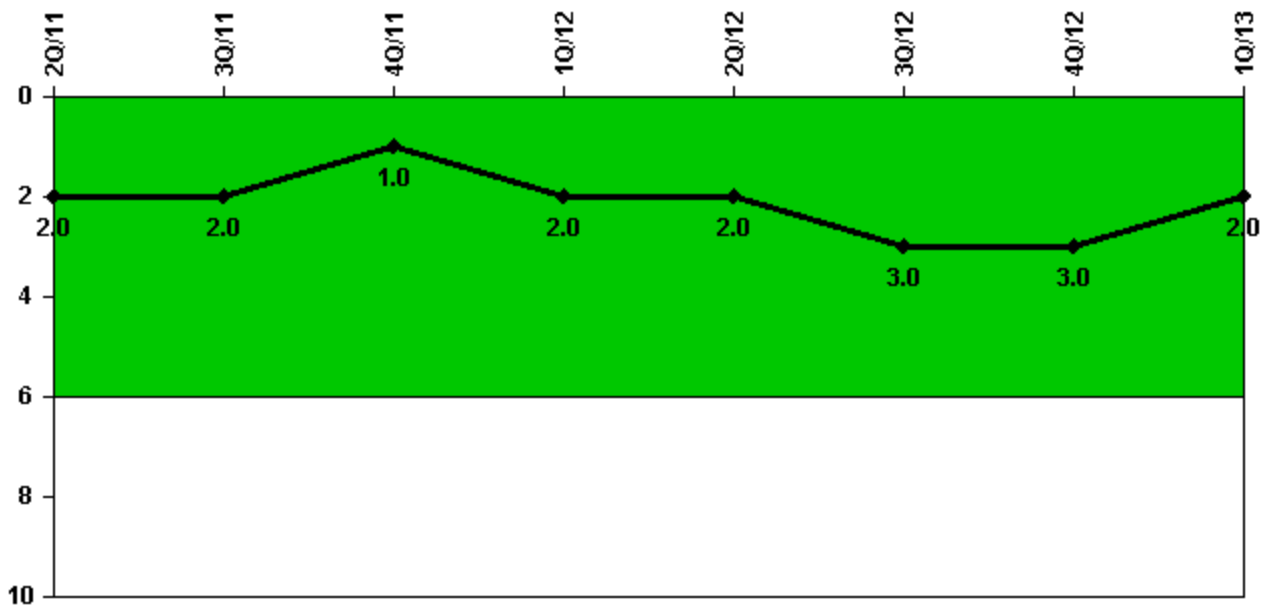
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Scrams with complications	0	0	1.0	0	0	0	0	0
Indicator value	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (BWR)



Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	0	0	1	1	0	1	1	0
Indicator value	2	2	1	2	2	3	3	2

Licensee Comments:

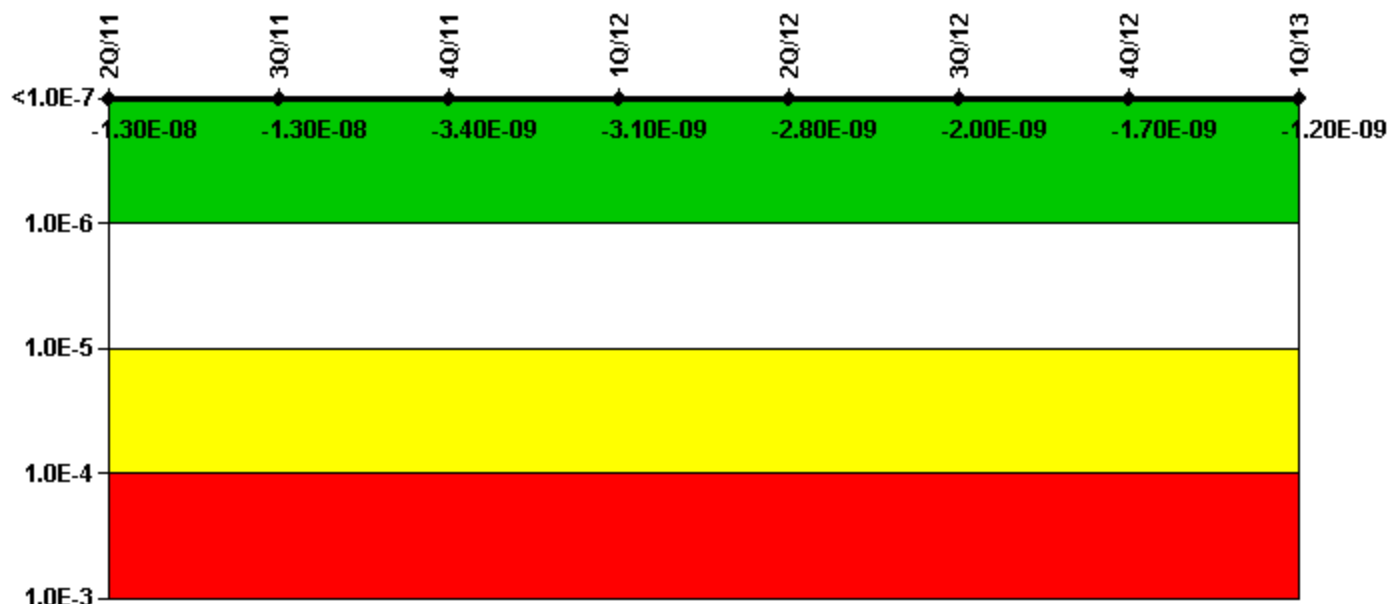
4Q/12: LER 2012-004

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

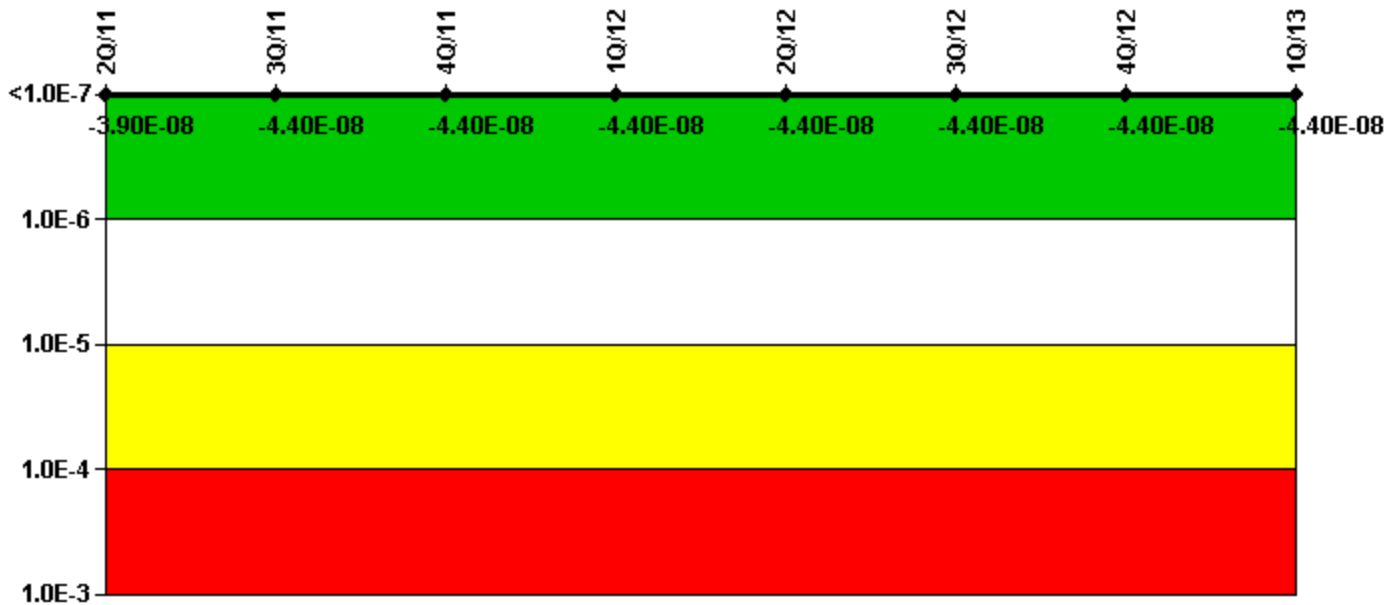
Mitigating Systems Performance Index, Emergency AC Power System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	-1.58E-09	-1.58E-09	-1.18E-09	-1.19E-09	-1.21E-09	-7.80E-10	-8.43E-10	-7.23E-10
URI (Δ CDF)	-1.17E-08	-1.16E-08	-2.26E-09	-1.93E-09	-1.59E-09	-1.24E-09	-8.71E-10	-4.91E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	-1.30E-08	-3.40E-09	-3.10E-09	-2.80E-09	-2.00E-09	-1.70E-09	-1.20E-09

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.

3Q/11: Updated MSPI Basis document on September 26, 2011 to incorporate changes from FAQ 11-07: Fuel Oil Transfer Pump Failures.

Mitigating Systems Performance Index, High Pressure Injection System



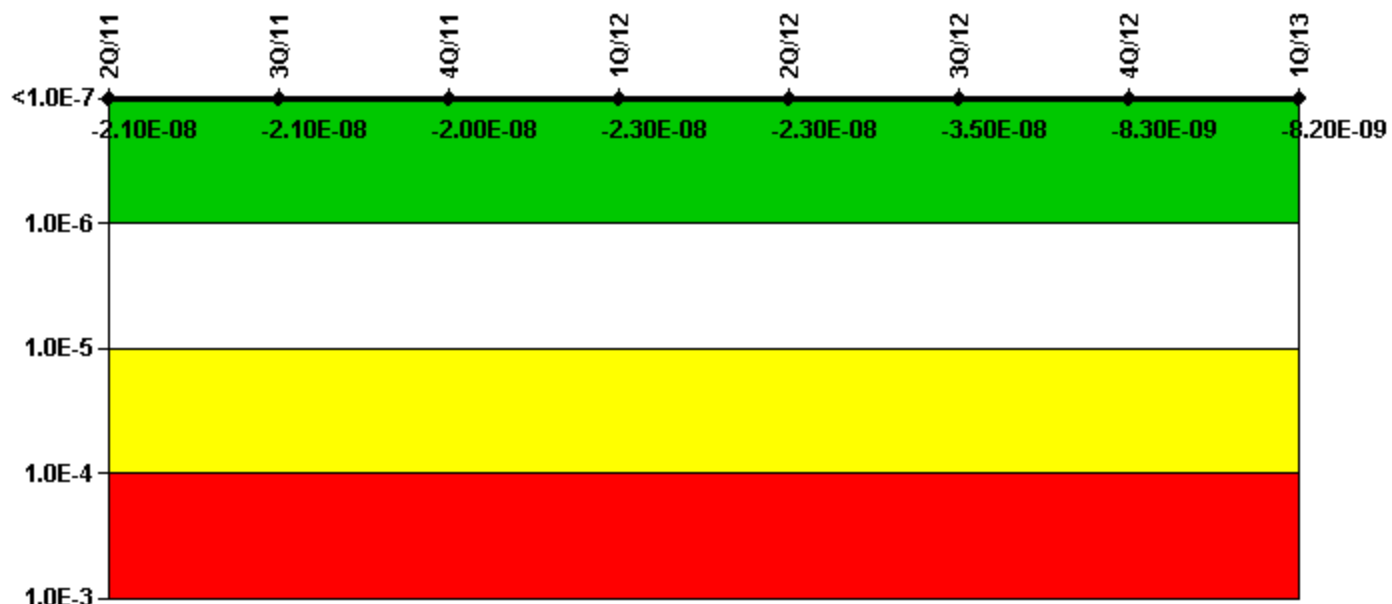
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	-1.13E-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)	-2.78E-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	-3.90E-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

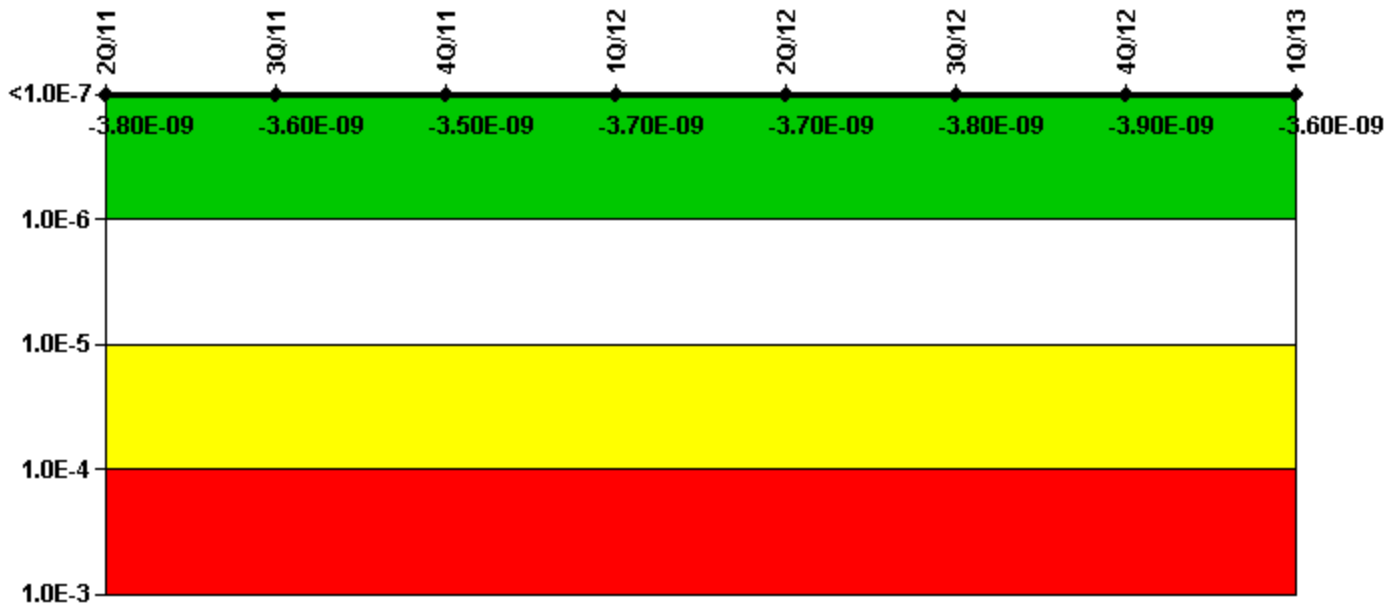
Mitigating Systems Performance Index, Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	5.44E-10	3.07E-10	6.81E-10	-1.75E-09	-2.21E-09	-1.44E-08	-1.15E-08	-1.14E-08
URI (ΔCDF)	-2.20E-08	-2.11E-08	-2.11E-08	-2.11E-08	-2.11E-08	-2.11E-08	3.18E-09	3.18E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.10E-08	-2.00E-08	-2.30E-08	-2.30E-08	-3.50E-08	-8.30E-09	-8.20E-09

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing. Corrected Aug 2011 data entry error for unplanned unavailable hours (planned unavailable hours were inadvertently entered into unplanned unavailable field when originally reported).

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing.

Mitigating Systems Performance Index, Residual Heat Removal System



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

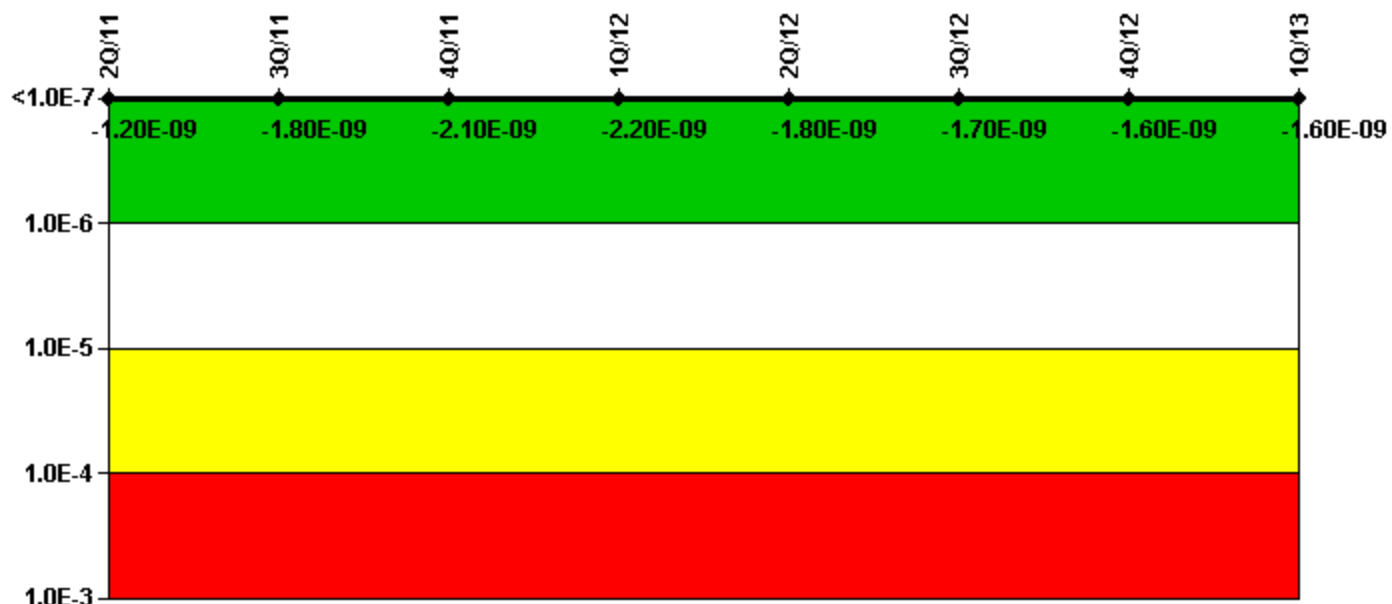
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	-1.56E-10	-2.21E-11	9.74E-11	-7.79E-11	-1.23E-10	-2.23E-10	-2.73E-10	-3.05E-11
URI (Δ CDF)	-3.65E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.80E-09	-3.60E-09	-3.50E-09	-3.70E-09	-3.70E-09	-3.80E-09	-3.90E-09	-3.60E-09

Licensee Comments:

3Q/11: Hours previously reported for August and September 2011 were conservative, no MSPI color change.

Mitigating Systems Performance Index, Cooling Water Systems



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

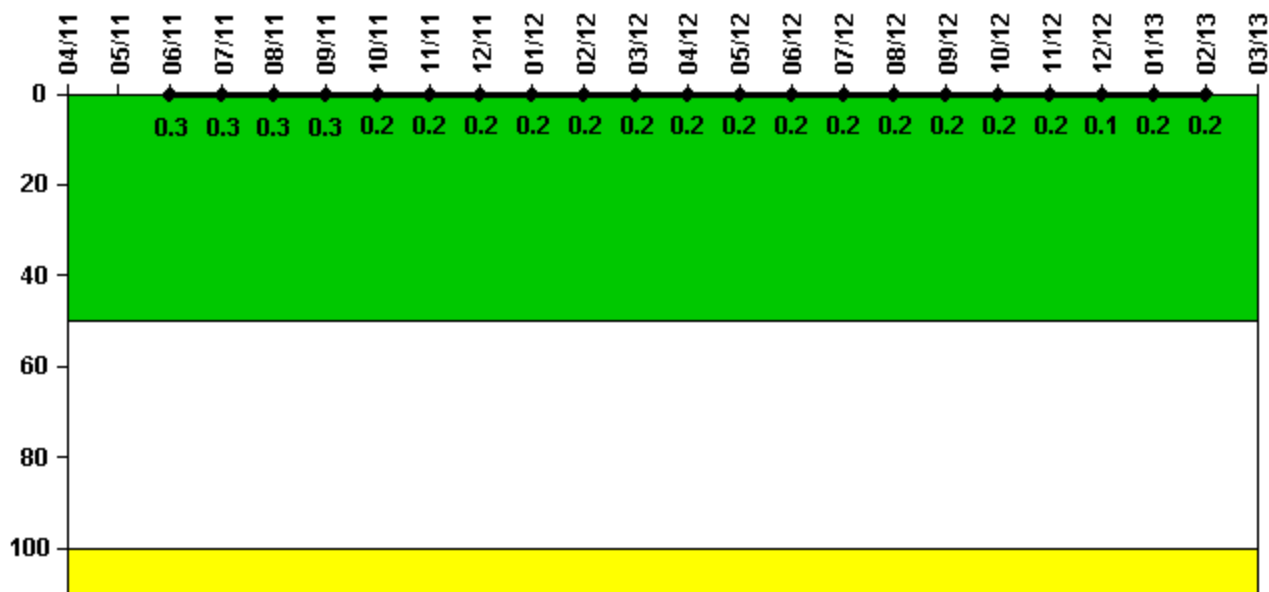
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	-1.19E-09	-1.74E-09	-2.10E-09	-2.16E-09	-1.75E-09	-1.66E-09	-1.57E-09	-1.59E-09
URI (Δ CDF)	-1.25E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.80E-09	-2.10E-09	-2.20E-09	-1.80E-09	-1.70E-09	-1.60E-09	-1.60E-09

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Updated RHRSW system boundaries to exclude SV-4397A, SV-4397B, PCV-3004, and PCV-3005. The listed valves had their internals removed.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

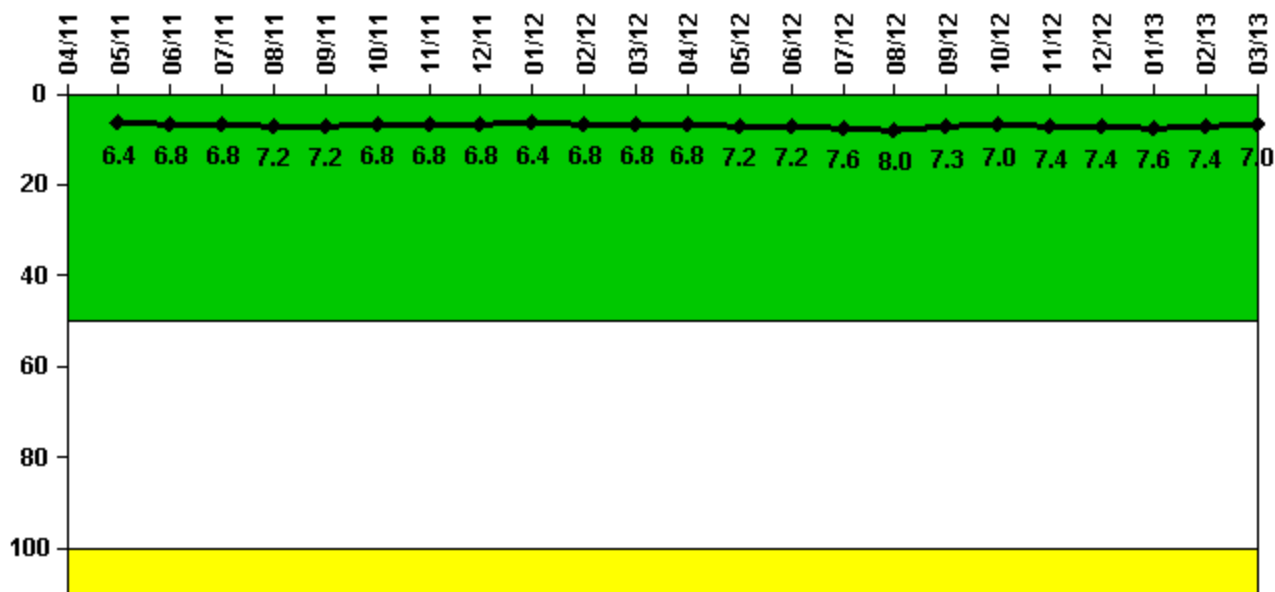
Notes

Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	N/A	N/A	0.000568	0.000554	0.000535	0.000511	0.000472	0.000472	0.000482	0.000466	0.000420	0.000346
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	N/A	N/A	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2

Reactor Coolant System Activity	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum activity	0.000437	0.000462	0.000331	0.000344	0.000399	0.000420	0.000354	0.000316	0.000273	0.000343	0.000302	N/A
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	0.1	0.2	0.2	N/A

Licensee Comments: none

Reactor Coolant System Leakage



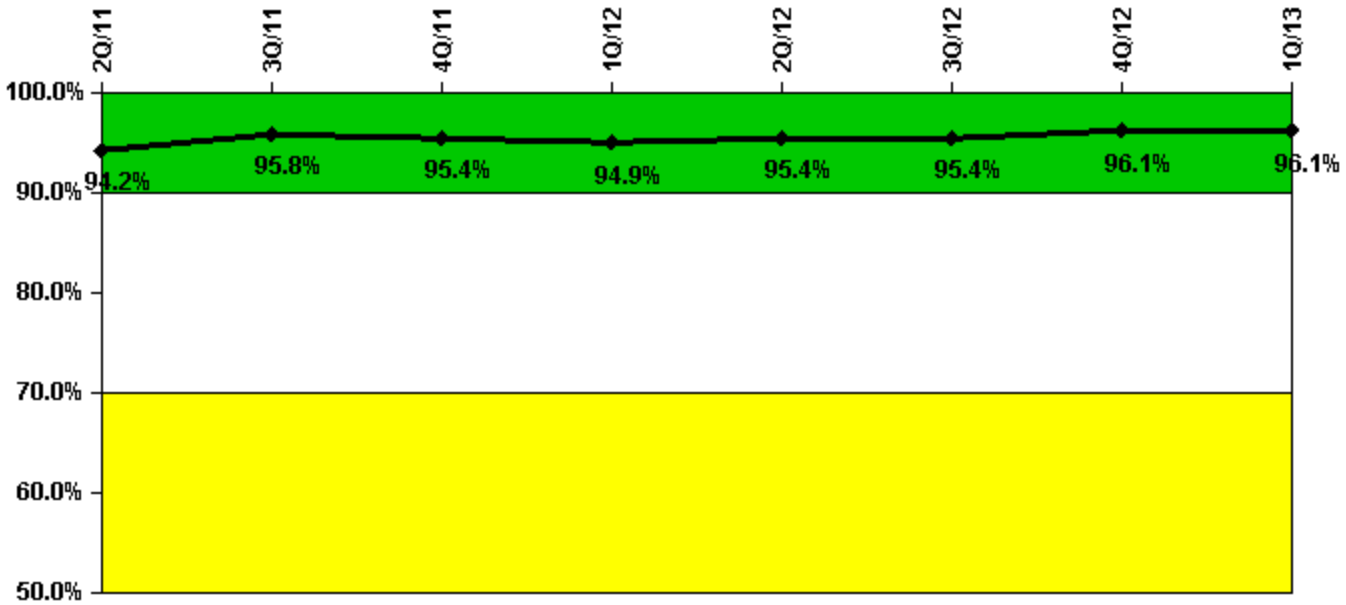
Thresholds: White > 50.0 Yellow > 100.0

Notes

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

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

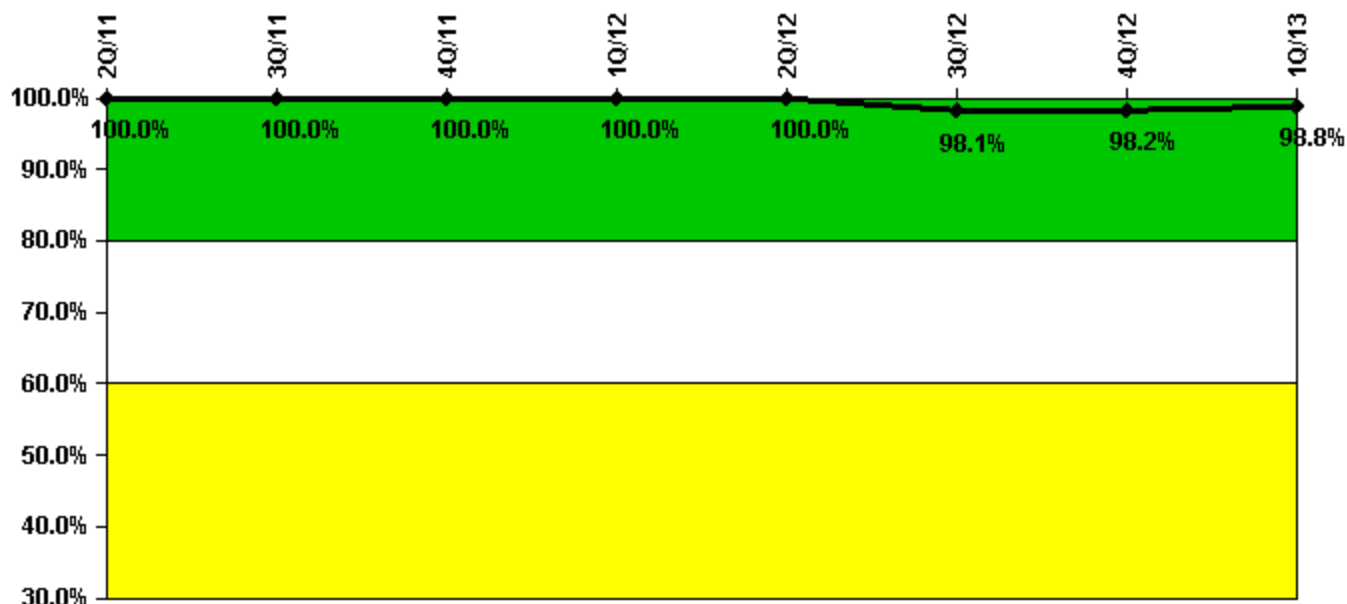
Notes

Drill/Exercise Performance	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful opportunities	17.0	62.0	49.0	45.0	42.0	40.0	46.0	18.0
Total opportunities	17.0	67.0	52.0	47.0	42.0	42.0	46.0	19.0
Indicator value	94.2%	95.8%	95.4%	94.9%	95.4%	95.4%	96.1%	96.1%

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



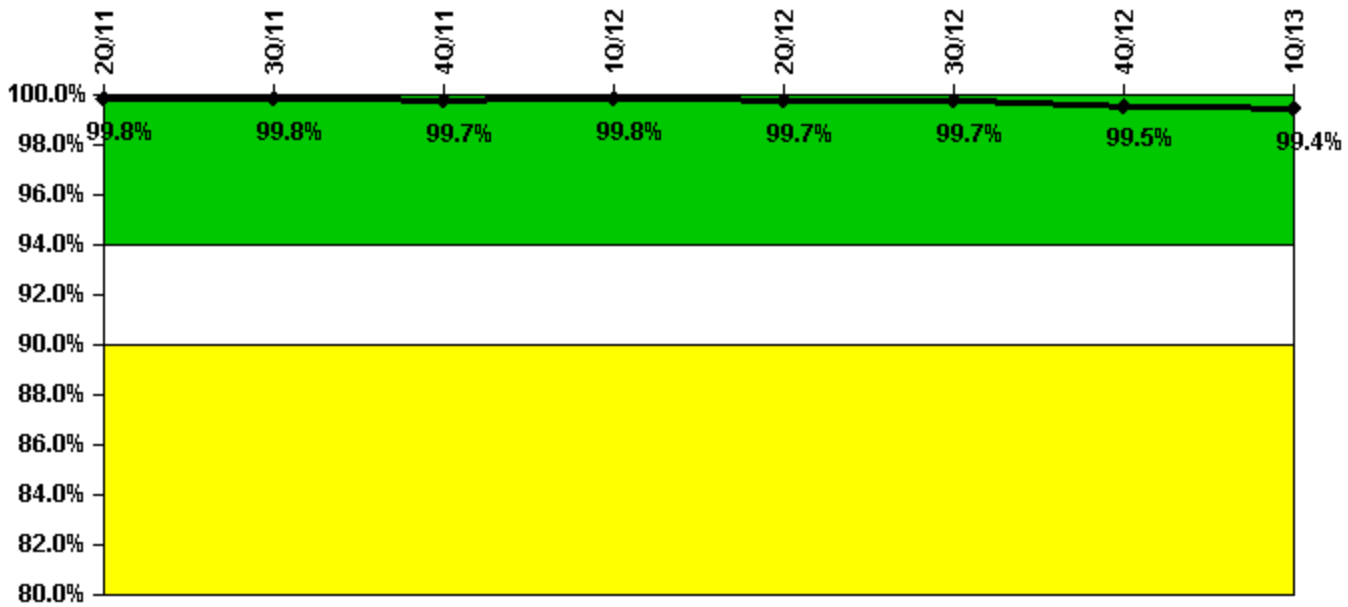
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Participating Key personnel	146.0	143.0	148.0	146.0	144.0	151.0	163.0	160.0
Total Key personnel	146.0	143.0	148.0	146.0	144.0	154.0	166.0	162.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	98.1%	98.2%	98.8%

Licensee Comments: none

Alert & Notification System



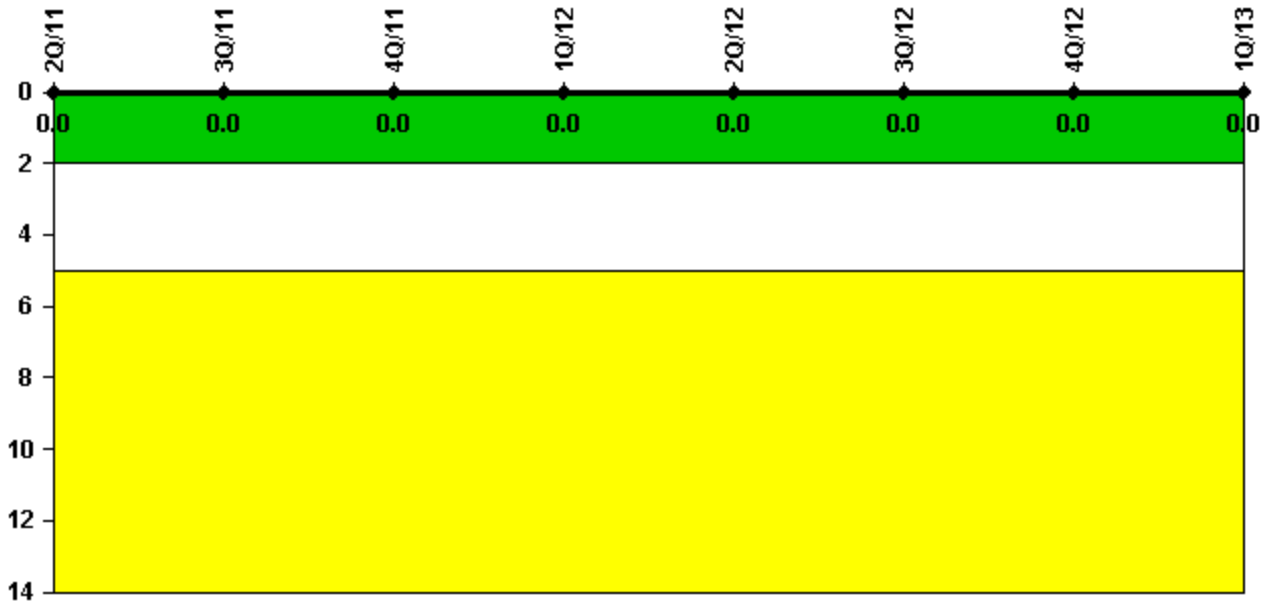
Thresholds: White < 94.0% Yellow < 90.0%

Notes

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

Licensee Comments: none

Occupational Exposure Control Effectiveness



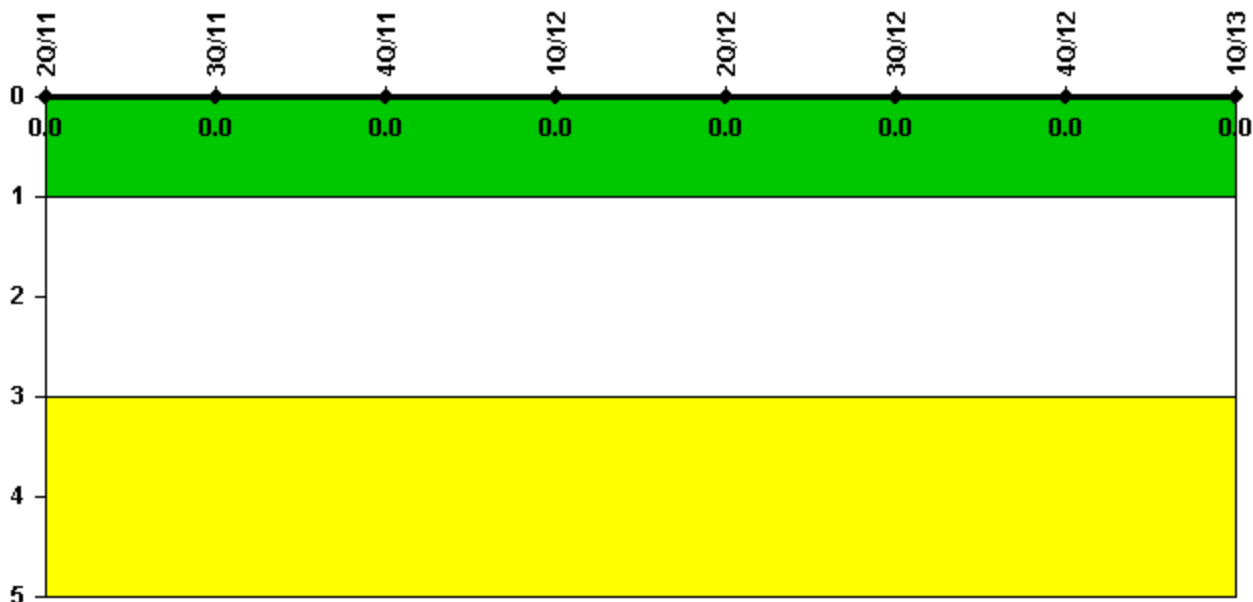
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/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	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/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: April 23, 2013