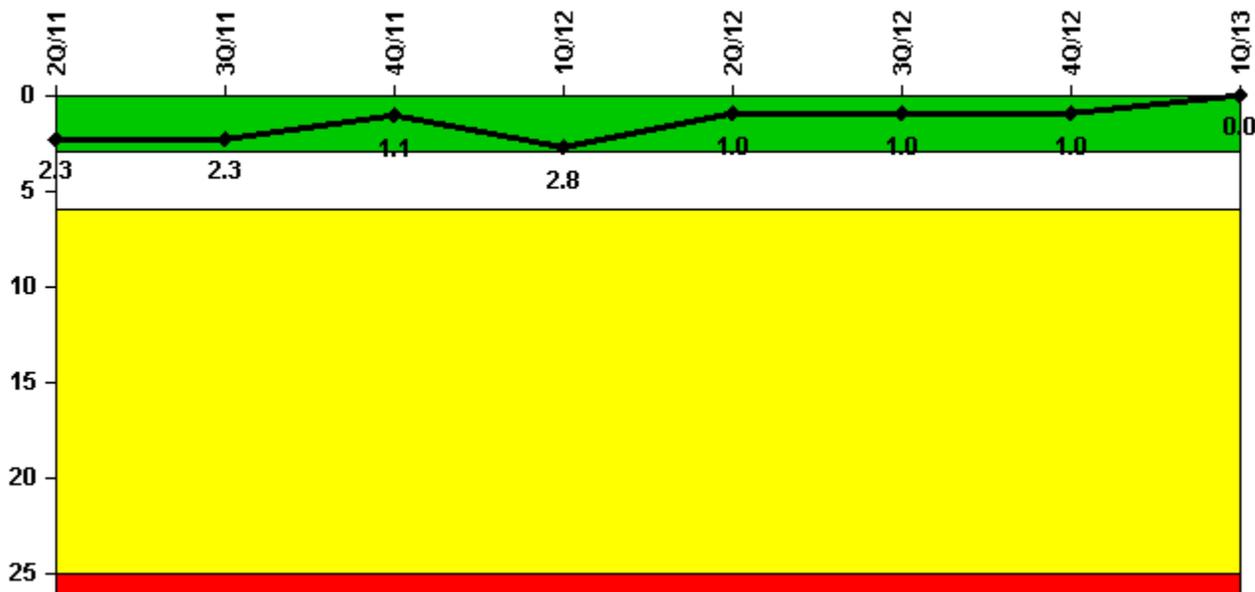


Wolf Creek 1

1Q/2013 Performance Indicators

Licensee's General Comments: Within the last twelve quarters Wolf Creek experienced two run failures. These events drive the NRC MS06 MSPI Emergency AC Power System across the green/white threshold. The following failures count against the indicator: 620 - run failure (02-22-11) and 673 run failure (03-12-12). MS09 MSPI Residual Heat Removal - Potential failure of EJFCV0611 on 3/22/2013 - MSPI failure evaluation underway.

Unplanned Scrams per 7000 Critical Hrs



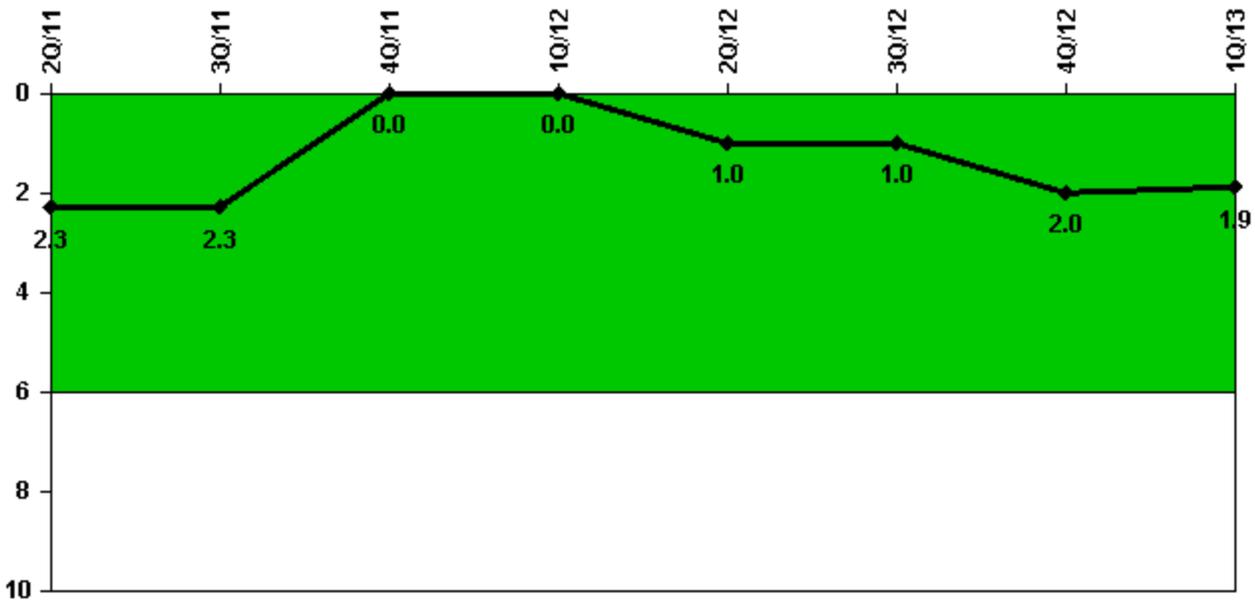
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	1.0	0	0	0	0
Critical hours	132.5	2208.0	2209.0	425.0	2184.0	2208.0	2209.0	816.0
Indicator value	2.3	2.3	1.1	2.8	1.0	1.0	1.0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



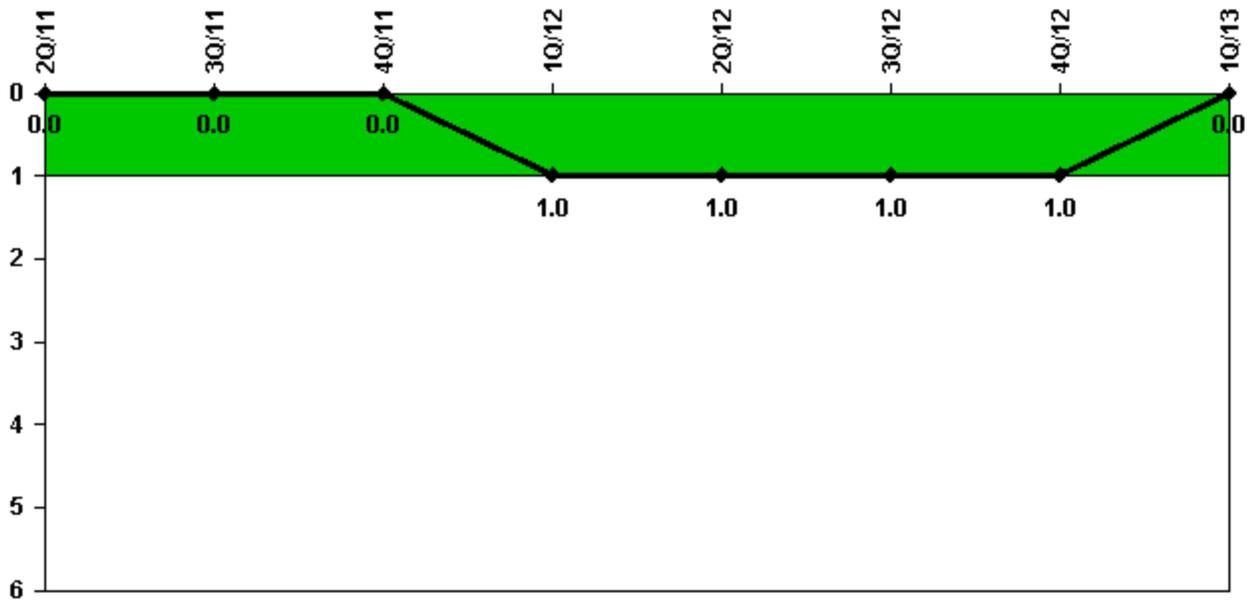
Thresholds: White > 6.0

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	0	0	0	0	1.0	0	1.0	0
Critical hours	132.5	2208.0	2209.0	425.0	2184.0	2208.0	2209.0	816.0
Indicator value	2.3	2.3	0	0	1.0	1.0	2.0	1.9

Licensee Comments: none

Unplanned Scrams with Complications



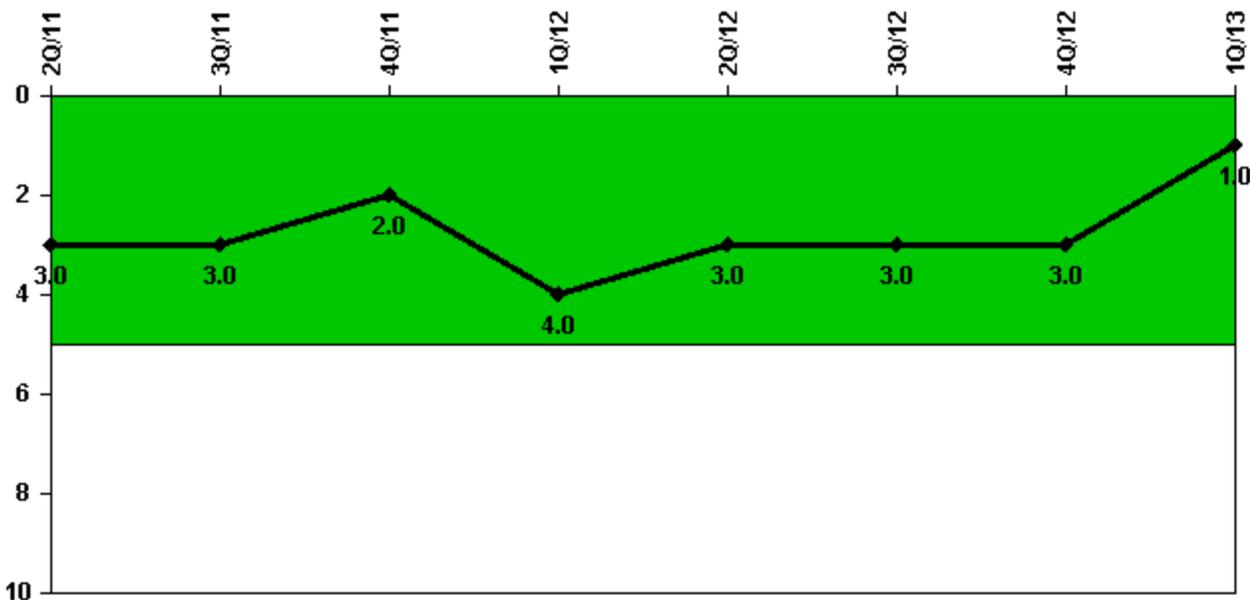
Thresholds: White > 1.0

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	0	1.0	0	0	0	0
Indicator value	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

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

Licensee Comments:

2Q/12: LER 2012-003-00 B Train ECCS Inoperable Due to Damaged Watertight Containment Spray Pump Door Seal.

1Q/12: LER 2011-009-01 Inadequate Oil Analysis Caused Inoperable Auxiliary Feedwater Pump Longer Than Required Action Completion Time. LER 2012-001-00 Failure of 345 kV Switchyard Breaker Resulting in Reactor Trip and Loss of Offsite Power.

4Q/11: LER 2011-010-00 (10-2011). Based on functional failure evaluation results received, this LER will be retracted in the January 2012 data reporting as no failure was identified.

4Q/11: LER 2011-010-00 (10-2011). Based on functional failure evaluation results received, this LER will be retracted in the January 2012 data reporting as no failure was identified.

3Q/11: Letter WO 11-0078 submitted 9/29/11 provided supplemental report to indicate LER 2011-004-00 is not reportable as a SSFF.

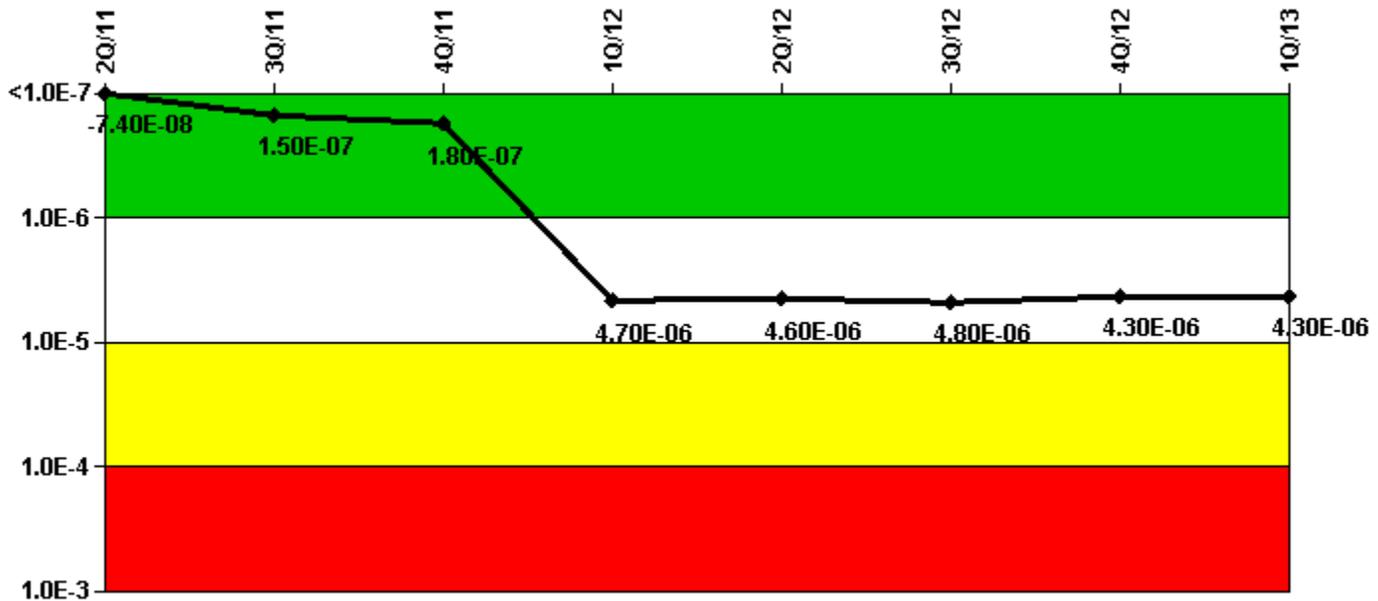
2Q/11: LER 2011-001-00 and LER 2011-004-00. LER 2011-002-00 was determined to not be a SSFF and was cancelled.

2Q/11: Correction to LER # in quarterly comment. LER 2011-002-00 only. LER 2011-001-00 was determined to

not be a SSFF and was cancelled. LER 2011-004-01 (9/29/11) retracted the SSFF reported in LER 2011-004-00. LER 2011-004-02 (12/28/11) reinstated reporting per (a)(2)(v). No color change to this indicator.

2Q/11: Correction to LER # in quarterly comment. LER 2011-002-00 only. LER 2011-001-00 was determined to not be a SSFF and was cancelled. Letter WO 11-0078 submitted 9/29/11 provided supplemental report to indicate LER 2011-004-00 (05/11) is not reportable as a SSFF. No color change to this indicator.

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 (ΔCDF)	1.07E-06	1.36E-06	1.33E-06	9.46E-07	8.23E-07	6.34E-07	4.89E-07	7.78E-07
URI (ΔCDF)	-1.14E-06	-1.21E-06	-1.15E-06	3.71E-06	3.81E-06	4.19E-06	3.80E-06	3.50E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.40E-08	1.50E-07	1.80E-07	4.70E-06	4.60E-06	4.80E-06	4.30E-06	4.30E-06

Licensee Comments:

1Q/13: Risk Cap Invoked. Within the last twelve quarters Wolf Creek experienced two run failures. These events drive the NRC MS06 MSPI Emergency AC Power System across the green/white threshold. The following failures

count against the indicator: 620 - run failure (02-22-11) and 673 run failure (03-12-12)

4Q/12: Risk Cap Invoked. Within the last twelve quarters Wolf Creek experienced two run failures. These events drive the NRC MS06 MSPI Emergency AC Power System across the green/white threshold. The following failures count against the indicator: 620 - run failure (02-22-11) and 673 run failure (03-12-12)

3Q/12: Risk Cap Invoked. Within the last twelve quarters Wolf Creek experienced one demand failure and two run failures. These events drive the NRC MS06 MSPI Emergency AC Power System across the green/white threshold. The following failures count against the indicator: 529 - demand failure (10-22-09) 620 - run failure (02-22-11) and 673 run failure (03-12-12)

2Q/12: Risk Cap Invoked. Within the last twelve quarters Wolf Creek has experienced one demand failure and two run failures. These events will drive the NRC MS06 MSPI Emergency AC Power System across the green/white threshold. The following failures count against the indicator: 529 - demand failure (10-22-09) 620 - run failure (02-22-11) and 673 run failure (03-12-12) - Hardware Failure Analysis ongoing.

1Q/12: Risk Cap Invoked. 1) EDG governor tubing crack - Functional failure analysis is open; possible run failure. Currently pursuing bids for hardware failure analysis. 2) EDG field ground - Functional failure analysis is open. Hardware failure analysis draft is complete, final report expected by the end of April. Draft analysis supports 7 days of operation.

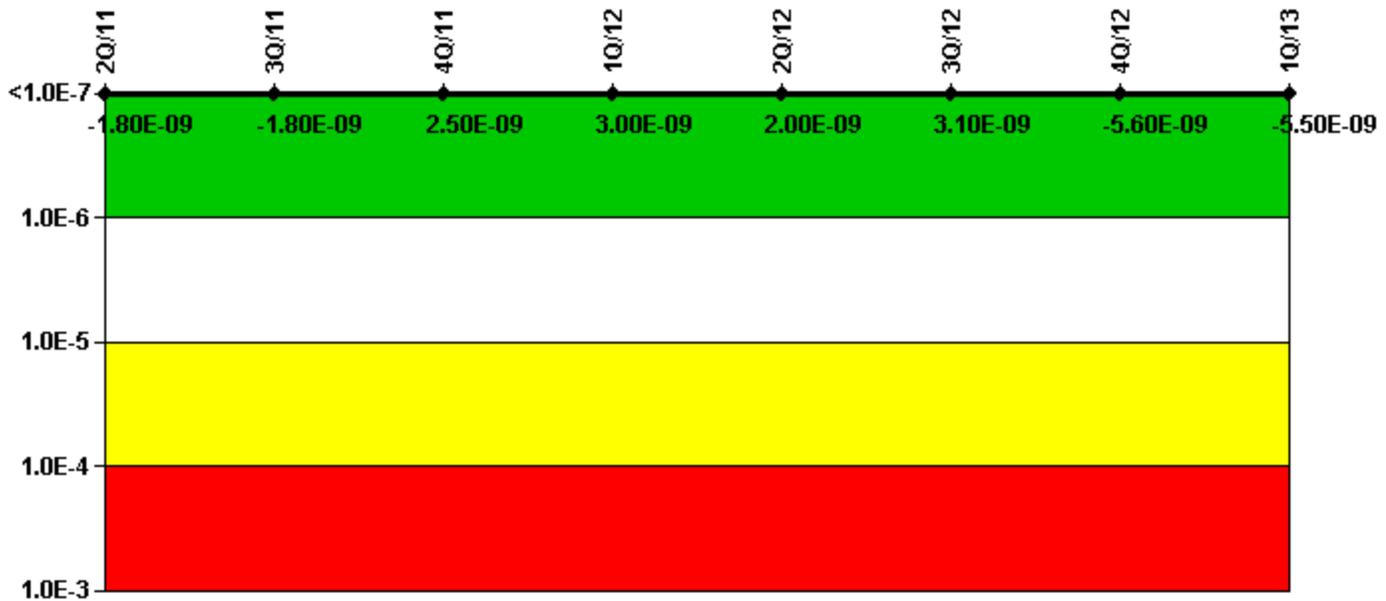
1Q/12: Risk Cap Invoked. 1) EDG governor tubing crack - Functional failure analysis is open; possible run failure. Currently pursuing bids for hardware failure analysis. 2) EDG field ground - Functional failure analysis is open. Hardware failure analysis draft is complete, final report expected by the end of April. Draft analysis supports 7 days of operation.

4Q/11: Risk Cap Invoked. EDG Load Oscillation (10-2011) - Functional Failure Evaluation is complete. Evaluation results determined no failure occurred.

3Q/11: Risk Cap Invoked. EDG Load Oscillation - Functional Failure Evaluation is still open. Currently pursuing vendor evaluation of potential "Load Failure" from two vendors.

2Q/11: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



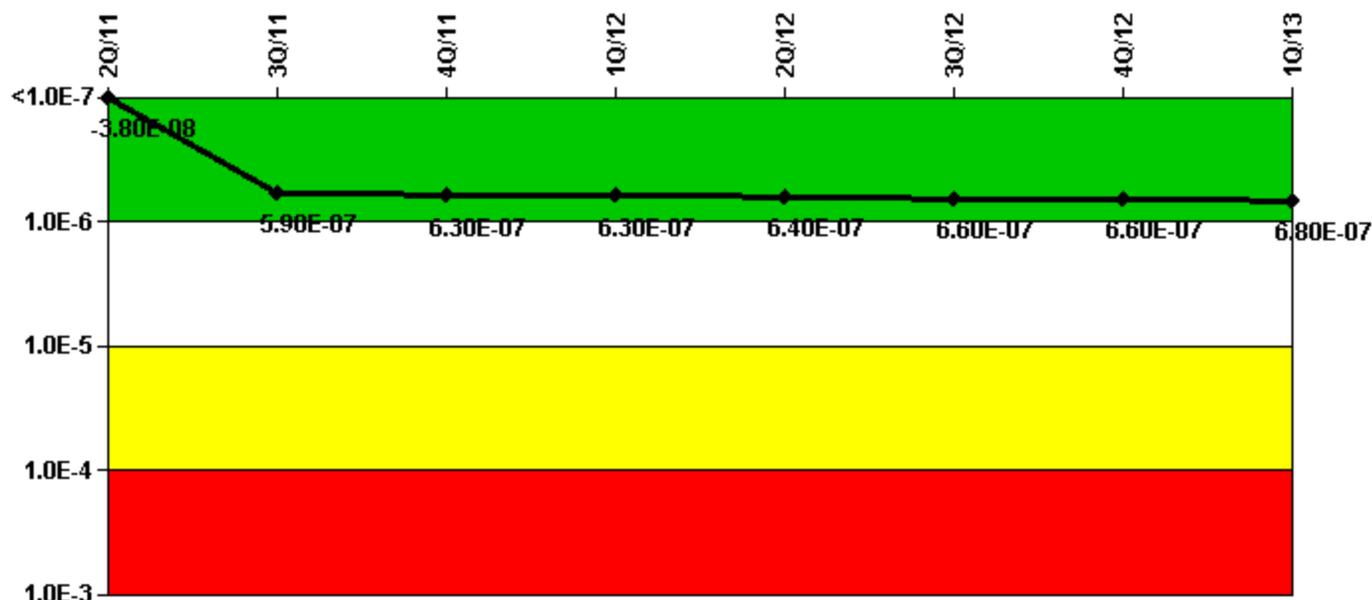
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	6.45E-10	6.70E-10	4.76E-09	6.89E-09	5.51E-09	7.12E-09	5.78E-09	7.31E-09
URI (Δ CDF)	-2.40E-09	-2.46E-09	-2.23E-09	-3.87E-09	-3.53E-09	-4.04E-09	-1.14E-08	-1.28E-08
PLE	NO							
Indicator value	-1.80E-09	-1.80E-09	2.50E-09	3.00E-09	2.00E-09	3.10E-09	-5.60E-09	-5.50E-09

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)	9.01E-08	2.18E-07	2.59E-07	2.63E-07	2.70E-07	2.77E-07	2.75E-07	2.79E-07
URI (ΔCDF)	-1.28E-07	3.71E-07	3.67E-07	3.66E-07	3.68E-07	3.80E-07	3.87E-07	3.99E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.80E-08	5.90E-07	6.30E-07	6.30E-07	6.40E-07	6.60E-07	6.60E-07	6.80E-07

Licensee Comments:

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

3Q/12: Risk Cap Invoked.

2Q/12: Risk Cap Invoked.

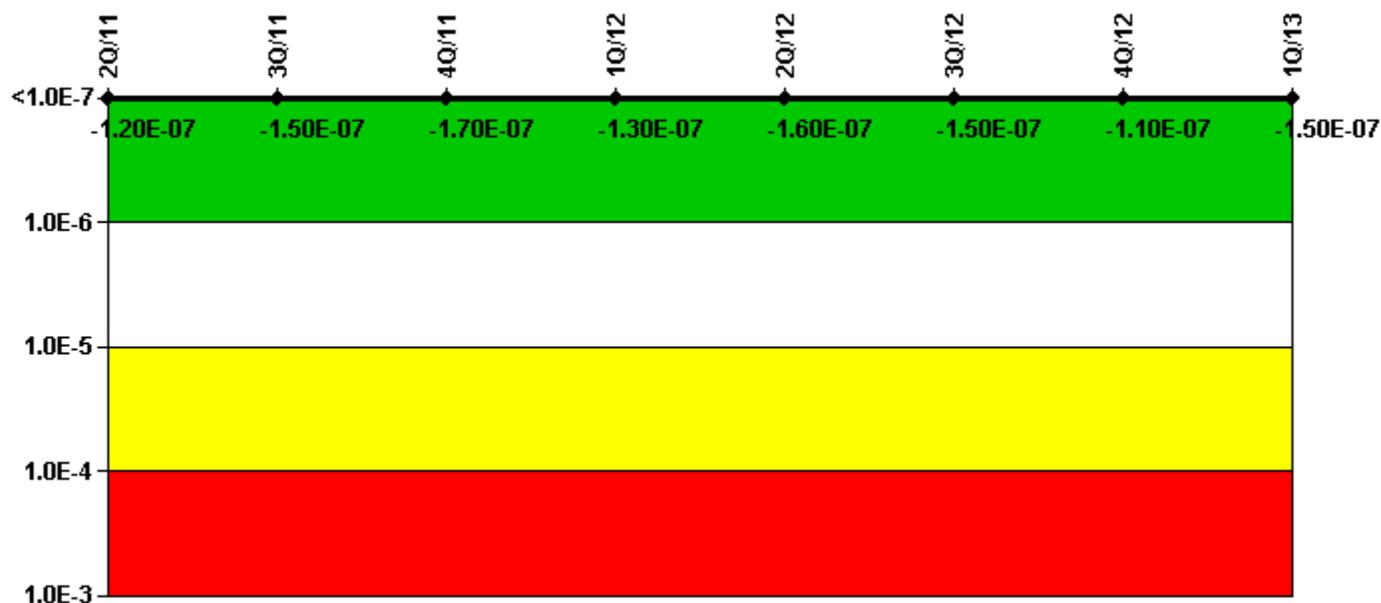
1Q/12: Risk Cap Invoked.

4Q/11: Risk Cap Invoked. MSPI Heat Removal System- TDAFWP oil issue - Functional Failure Evaluation ongoing. Entered 1 TDAFWP run time failure for August 2011. Upon completion of failure evaluation, this failure may be retracted. This change does not affect the overall color of the performance indicator.

3Q/11: Risk Cap Invoked. TDAFWP oil issue - Functional Failure Evaluation is still open. Currently pursuing vendor evaluation of potential "Run Time Failure".

3Q/11: TDAFWP oil issue - Functional Failure Evaluation is still open. Currently pursuing vendor evaluation of potential "Run Time Failure".

Mitigating Systems Performance Index, Residual Heat Removal System



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

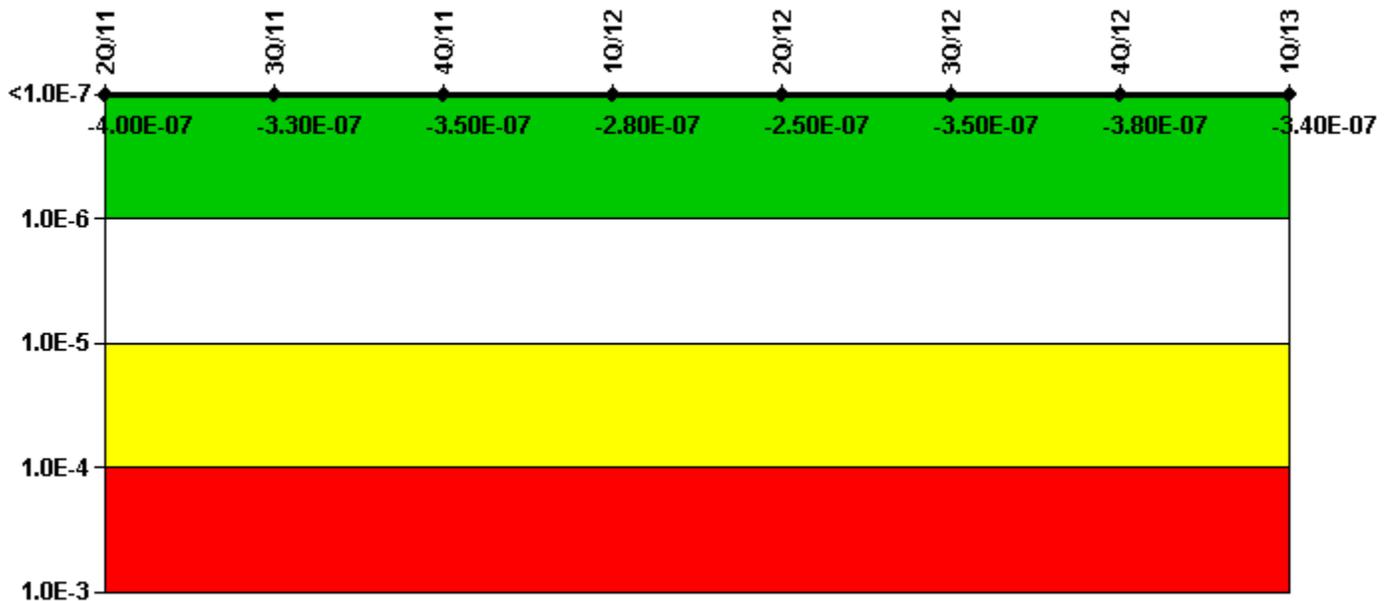
Notes

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 (ΔCDF)	1.65E-07	1.37E-07	1.19E-07	1.97E-07	1.66E-07	1.79E-07	1.68E-07	1.76E-07
URI (ΔCDF)	-2.87E-07	-2.88E-07	-2.88E-07	-3.26E-07	-3.25E-07	-3.24E-07	-2.77E-07	-3.27E-07
PLE	NO							
Indicator value	-1.20E-07	-1.50E-07	-1.70E-07	-1.30E-07	-1.60E-07	-1.50E-07	-1.10E-07	-1.50E-07

Licensee Comments:

1Q/13: Potential failure of EJFCV0611 on 3/22/2013 - MSPI failure evaluation underway.

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)	5.40E-07	6.42E-07	6.42E-07	7.47E-07	8.11E-07	7.23E-07	6.41E-07	7.15E-07
URI (Δ CDF)	-9.36E-07	-9.74E-07	-9.94E-07	-1.03E-06	-1.06E-06	-1.08E-06	-1.02E-06	-1.06E-06
PLE	NO							
Indicator value	-4.00E-07	-3.30E-07	-3.50E-07	-2.80E-07	-2.50E-07	-3.50E-07	-3.80E-07	-3.40E-07

Licensee Comments:

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

3Q/12: Risk Cap Invoked.

2Q/12: Risk Cap Invoked.

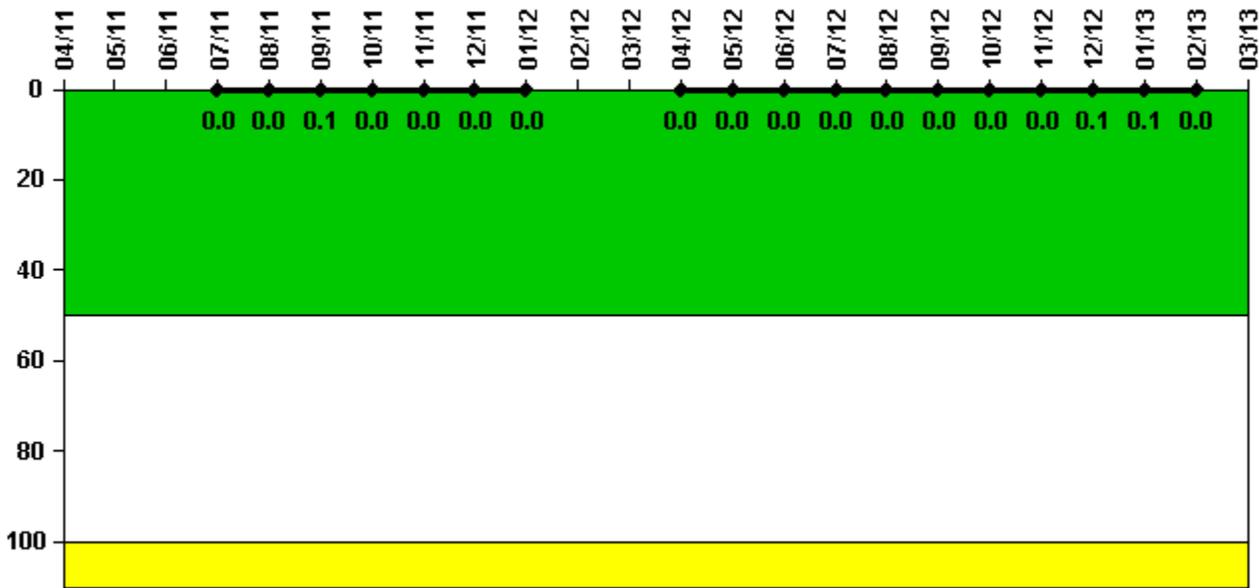
1Q/12: Risk Cap Invoked.

4Q/11: Risk Cap Invoked.

3Q/11: Risk Cap Invoked.

2Q/11: Risk Cap Invoked. Based on the results from hardware failure analysis report (10-3-11) additional testing was performed - during the course of vendor motor startup for final operational testing, the stator winding failed. A start/demand failure has been recorded for 05/11. No color change to this indicator.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

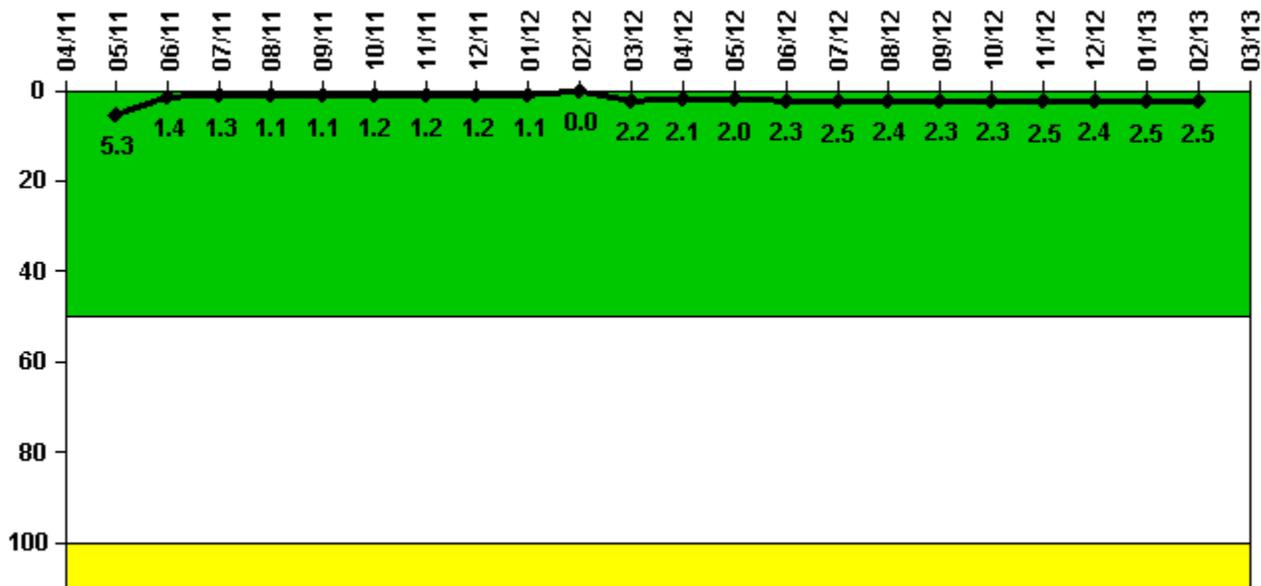
Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	N/A	N/A	N/A	0.000200	0.000200	0.000800	0.000200	0.000200	0.000300	0.000200	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	N/A	N/A	0	0	0.1	0	0	0	0	N/A	N/A

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	0.000300	0.000300	0.000300	0.000300	0.000300	0.000300	0.000300	0.000400	0.000500	0.000500	0.000400	N/A
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	0	0	0	0	0	0	0	0.1	0.1	0	N/A

Licensee Comments:

6/11: No steady state conditions existed for the quarter due to outage and unit startup on 6/22/11 - subsequent reactor trip on 6/26/11.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

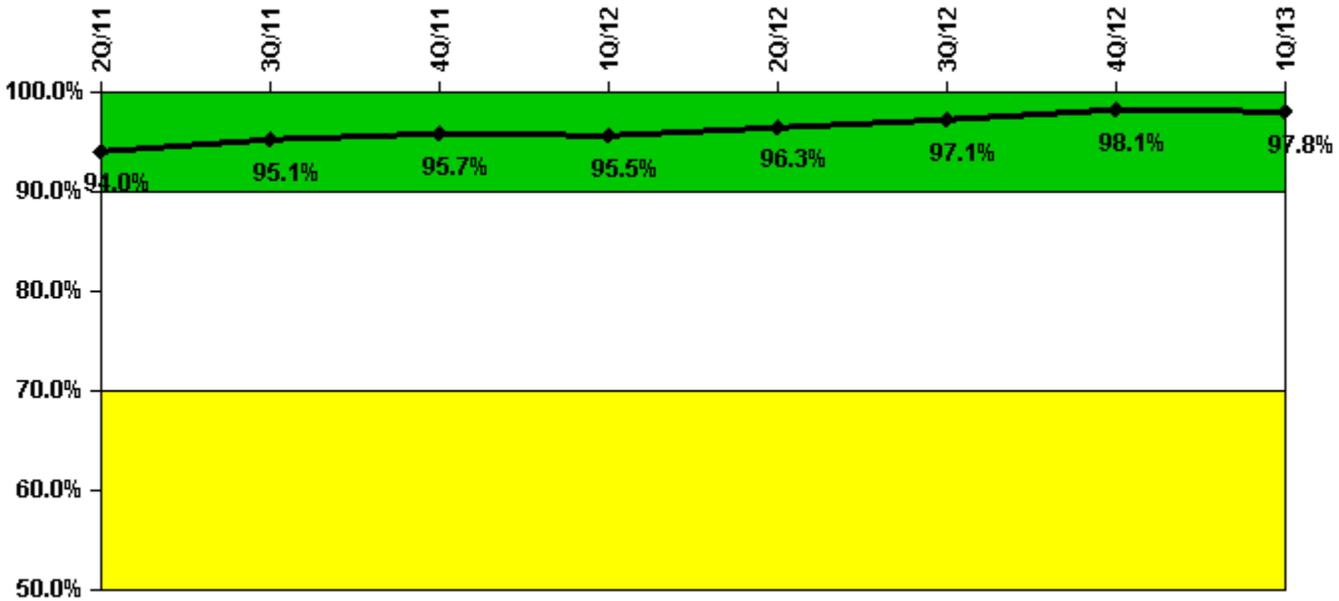
Notes

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	0.530	0.140	0.130	0.110	0.110	0.120	0.120	0.120	0.110	0	0.220
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	5.3	1.4	1.3	1.1	1.1	1.2	1.2	1.2	1.1	0	2.2
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	0.210	0.200	0.230	0.250	0.240	0.230	0.230	0.250	0.240	0.250	0.250	N/A
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	2.1	2.0	2.3	2.5	2.4	2.3	2.3	2.5	2.4	2.5	2.5	N/A

Licensee Comments:

6/11: RCS leak rate not performed, Tech Spec 3.4.13 is only applicable when the plant is in Modes 1, 2, 3 and 4 and SR 3.4.13.1, states it is not required to be performed until 12 hours after establishment of steady state operations.

Drill/Exercise Performance



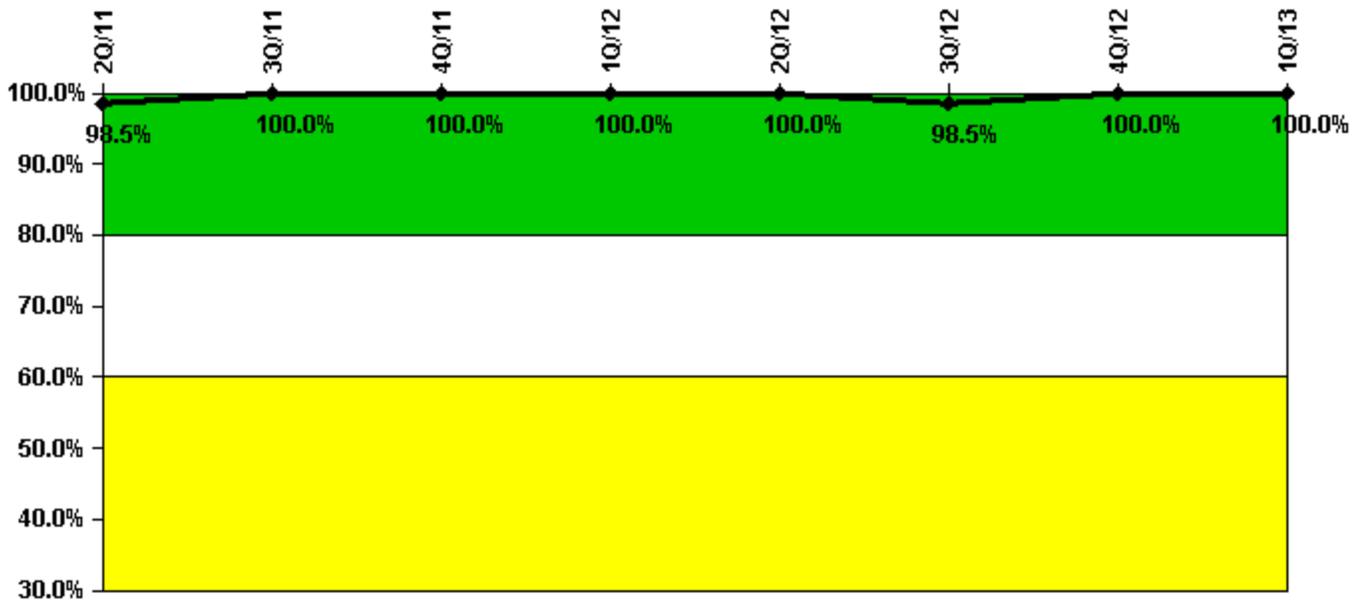
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful opportunities	16.0	163.0	82.0	42.0	28.0	24.0	46.0	49.0
Total opportunities	16.0	166.0	84.0	42.0	28.0	25.0	46.0	53.0
Indicator value	94.0%	95.1%	95.7%	95.5%	96.3%	97.1%	98.1%	97.8%

Licensee Comments: none

ERO Drill Participation



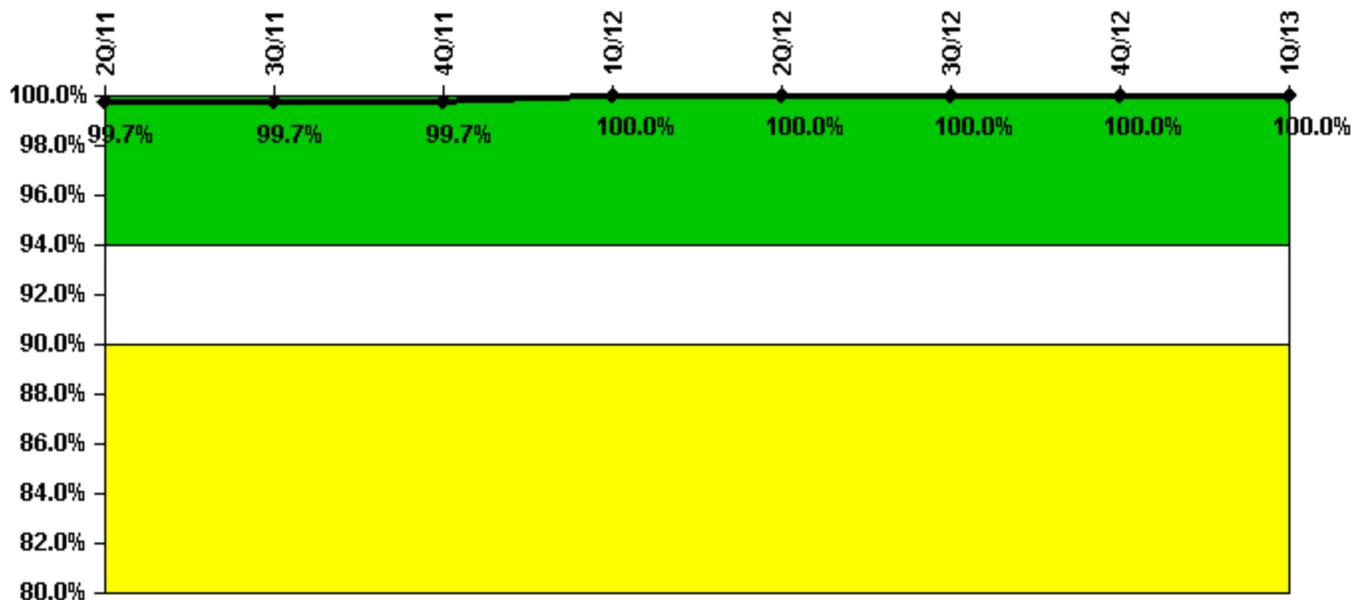
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Participating Key personnel	65.0	66.0	66.0	65.0	63.0	64.0	68.0	64.0
Total Key personnel	66.0	66.0	66.0	65.0	63.0	65.0	68.0	64.0
Indicator value	98.5%	100.0%	100.0%	100.0%	100.0%	98.5%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



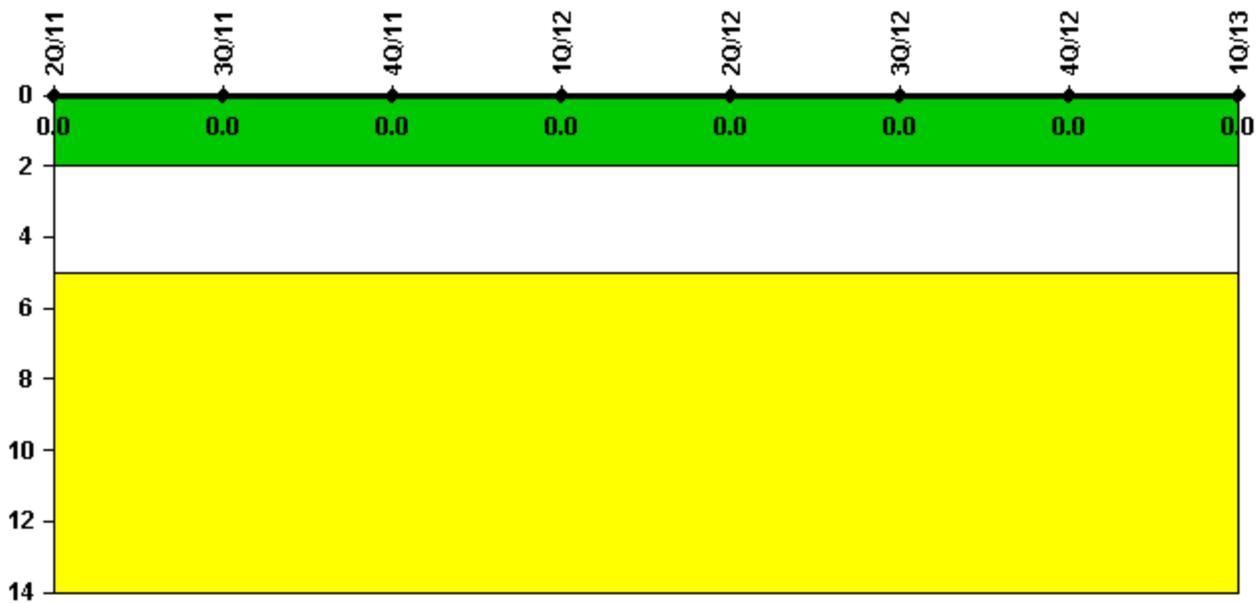
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful siren-tests	77	66	77	77	77	66	77	66
Total sirens-tests	77	66	77	77	77	66	77	66
Indicator value	99.7%	99.7%	99.7%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



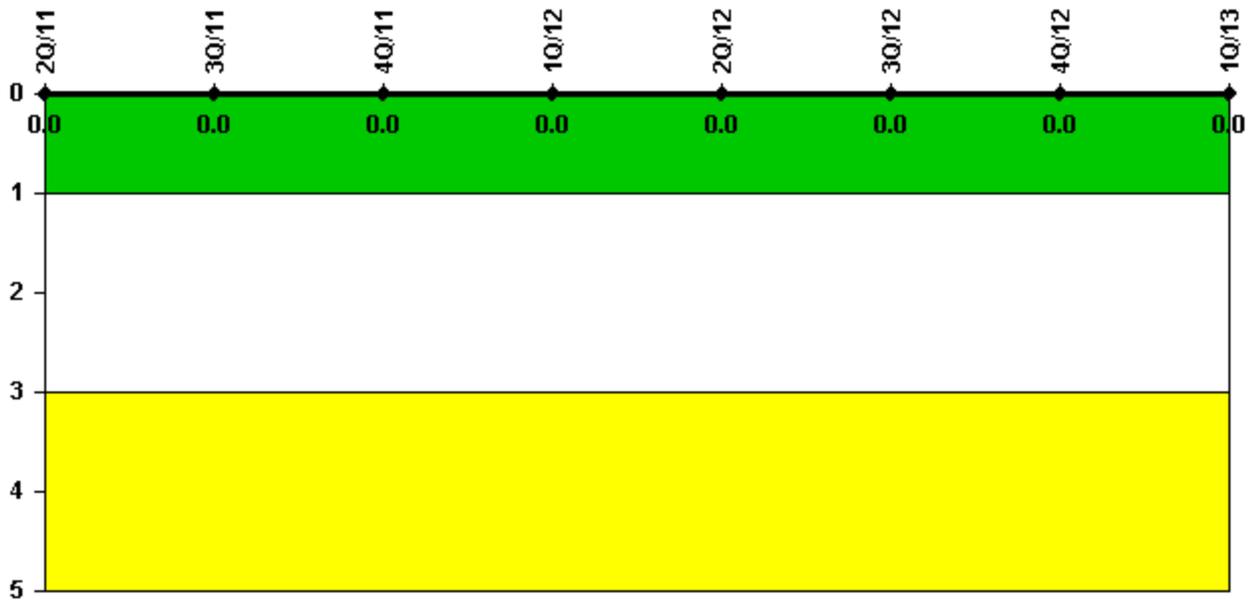
Thresholds: White > 2.0 Yellow > 5.0

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							

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