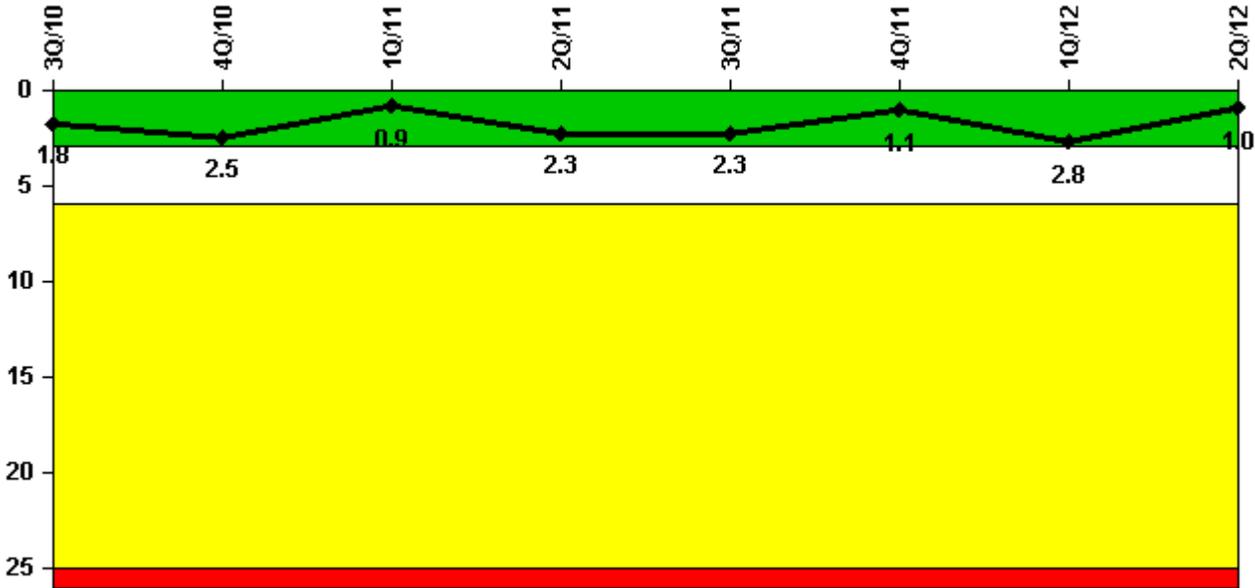


# Wolf Creek 1

## 2Q/2012 Performance Indicators

Licensee's General Comments: 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.

### Unplanned Scrams per 7000 Critical Hrs



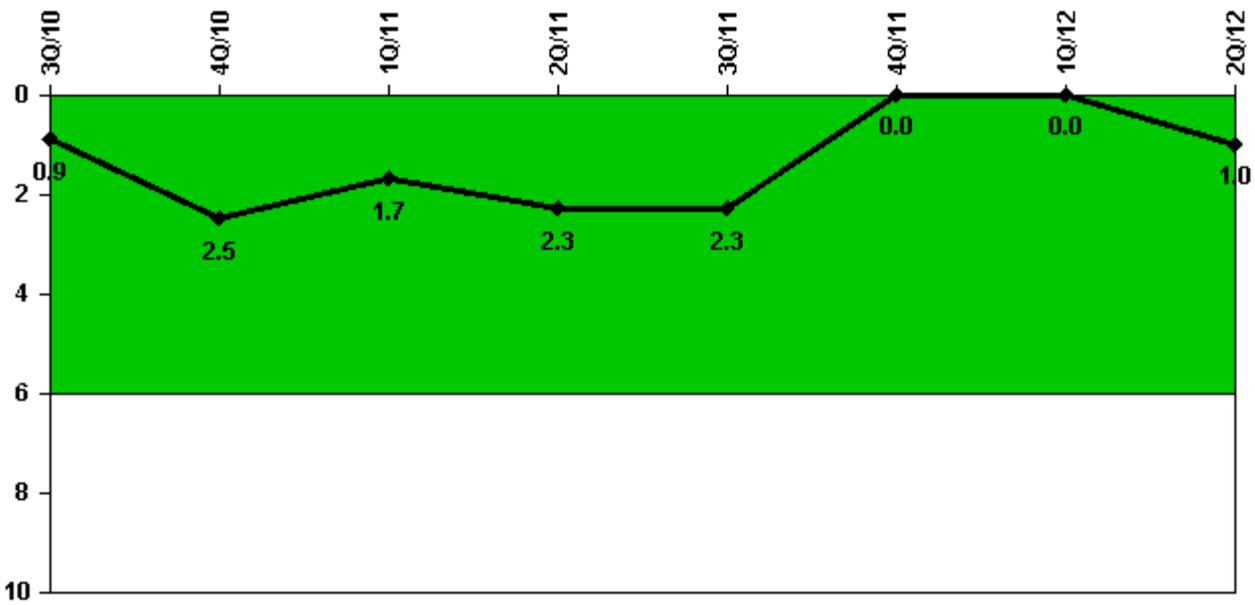
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned scrams	0	1.0	0	1.0	0	0	1.0	0
Critical hours	2208.0	1852.4	1847.9	132.5	2208.0	2209.0	425.0	2184.0
Indicator value	1.8	2.5	0.9	2.3	2.3	1.1	2.8	1.0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



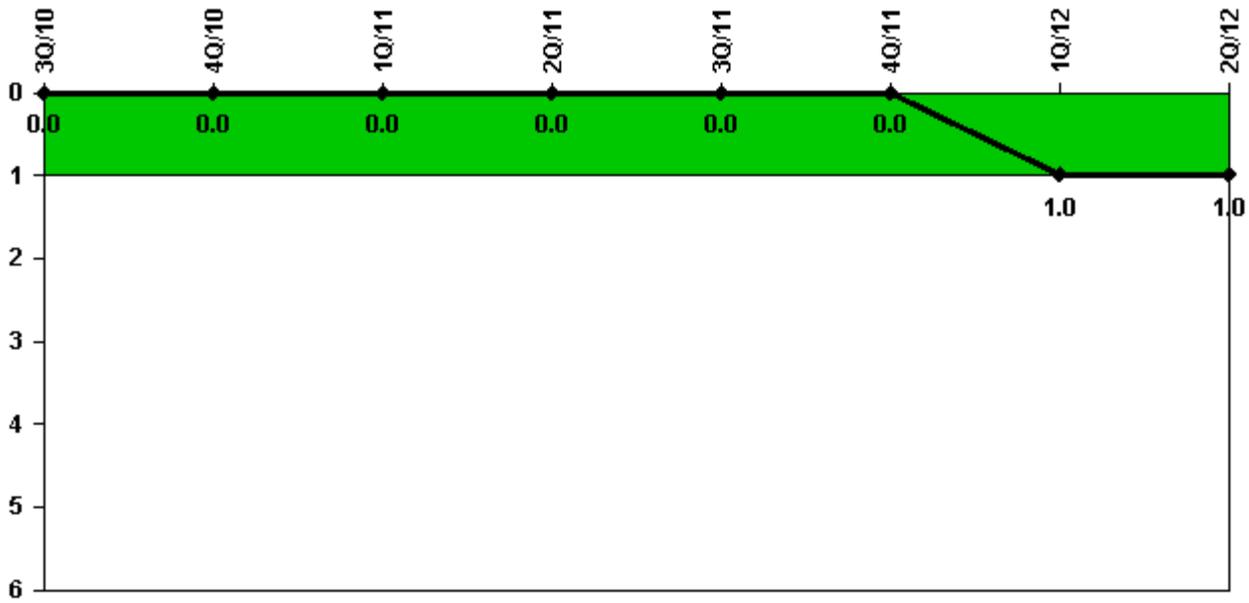
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	0	2.0	0	0	0	0	0	1.0
Critical hours	2208.0	1852.4	1847.9	132.5	2208.0	2209.0	425.0	2184.0
Indicator value	0.9	2.5	1.7	2.3	2.3	0	0	1.0

Licensee Comments: none

## Unplanned Scrams with Complications



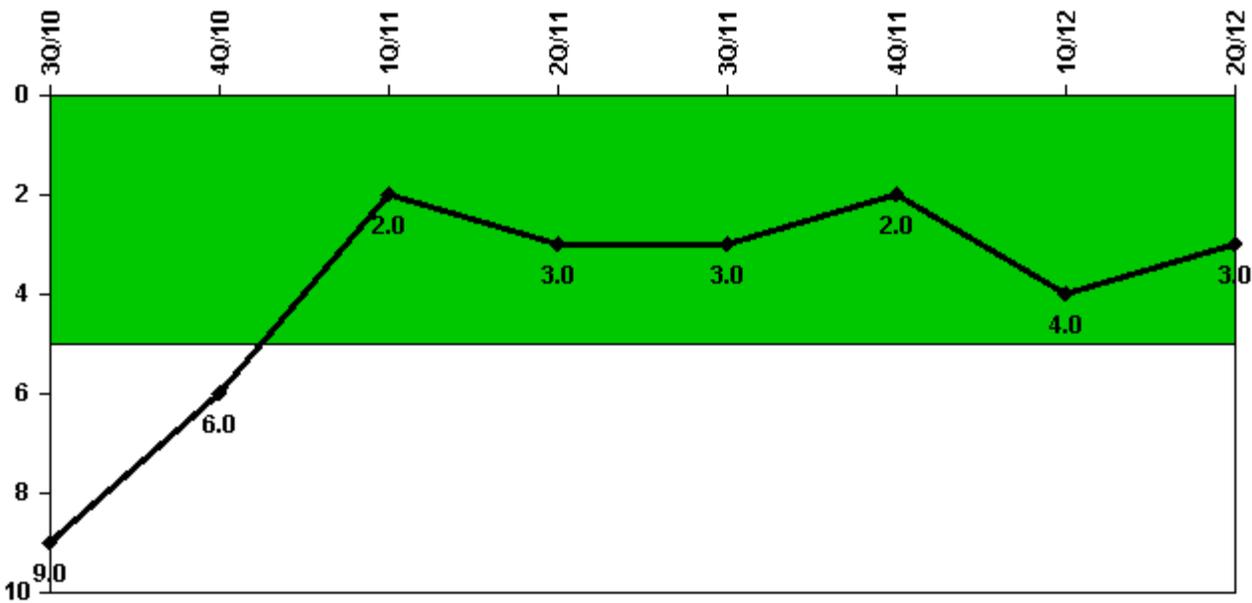
Thresholds: White > 1.0

### Notes

Unplanned Scrams with Complications	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Scrams with complications	0	0	0	0	0	0	1.0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0

Licensee Comments: none

## Safety System Functional Failures (PWR)



Thresholds: White > 5.0

### Notes

Safety System Functional Failures (PWR)	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Safety System Functional Failures	0	1	0	2	0	0	2	1
Indicator value	9	6	2	3	3	2	4	3

### 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.

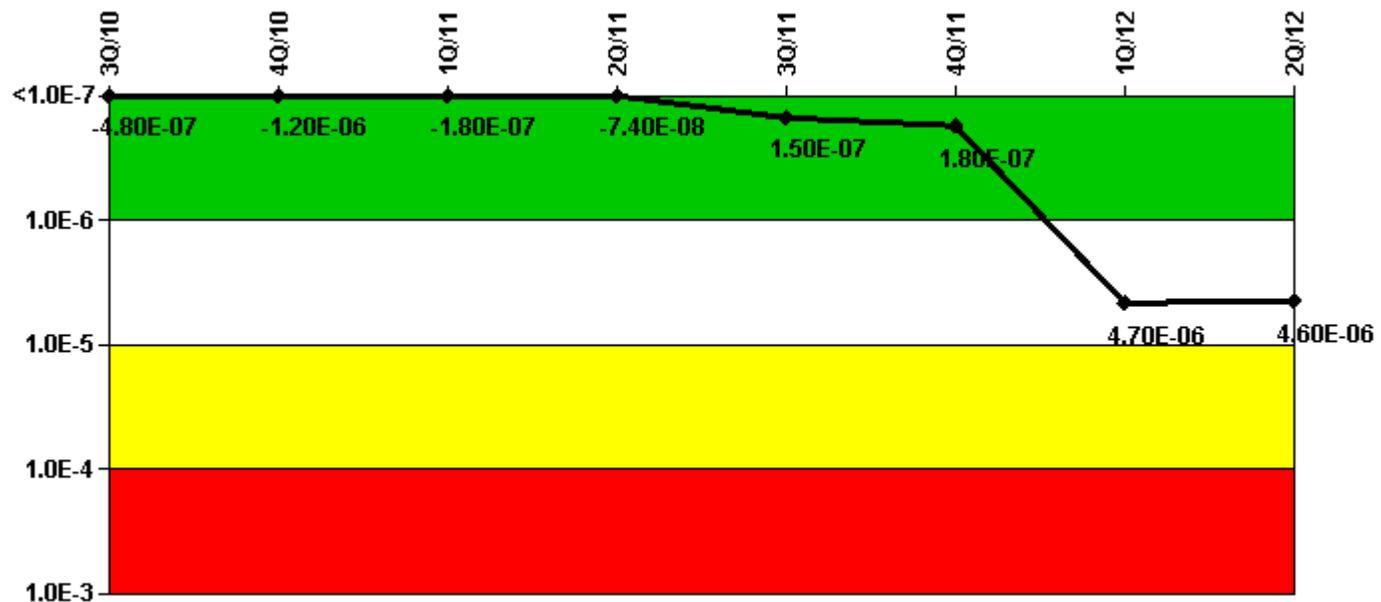
2Q/11: Correction to LER # in quarterly comment. LER 2011-002-00 only. LER 2011-001-00 was determined to not be a SSFF and was cancelled. Letter WO 11-0078 submitted 9/29/11 provided supplemental report to indicate LER 2011-004-00 (05/11) is not reportable as a SSFF. No color change to this indicator.

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.

4Q/10: Within the last four quarters Wolf Creek has experienced six Safety System Functional Failures (SSFF). These events continue to drive the NRC Safety System Function Failure indicator across the GREEN/WHITE threshold. The following six SSFFs count against the indicator: LER 2008-002-01 Tech. Spec Allowed Outage Time Exceeded Due to Room Cooler Leak; LER 2009-009-01 Defeating Feedwater Isolation on Low Tavg Coincident with P-4 Function Results in Missed Mode Change; LER 2010-001-00 Automatic Start of AFW Unavailable During Startup and Shutdown in Mode 1 due to T/S 3.3.2 LER 2010-002-00 Lead Lift to Prevent Turbine Trip on Reactor Trip. LER 2010-007 - Post-Fire Safe Shutdown Fire-Induced Multiple Spurious Operation Issues. The PFSSD analysis review determined that a fire-induced spurious SIS coincident with a loss of RHR pump suction could prevent operation of both RHR trains. LER 2010-010-00, Inadequate Analysis Results in a Component Cooling Water Train to be Declared Inoperable.

3Q/10: Within the last four quarters Wolf Creek has experienced nine Safety System Functional Failures (SSFF). These events continue to drive the NRC Safety System Function Failure indicator across the GREEN/WHITE threshold. The following nine SSFFs count against the indicator: LER 2009-002-00 Loss of Offsite Power Due to Lightning 8-19-09 (2 SSFF); LER 2009-005-00 Loss of Both DGs During Refueling Outage with Reactor Defueled; LER 2008-004-01 Loss of Power Event When the Reactor was Defueled; LER 2008-002-01 Tech. Spec Allowed Outage Time Exceeded Due to Room Cooler Leak; LER 2009-009-01 Defeating Feedwater Isolation on Low Tavg Coincident with P-4 Function Results in Missed Mode Change; LER 2010-001-00 Automatic Start of AFW Unavailable During Startup and Shutdown in Mode 1 due to T/S 3.3.2 LER 2010-002-00 Lead Lift to Prevent Turbine Trip on Reactor Trip. LER 2010-007 - ???Post-Fire Safe Shutdown Fire-Induced Multiple Spurious Operation Issues.??? The PFSSD analysis review determined that a fire-induced spurious SIS coincident with a loss of RHR pump suction could prevent operation of both RHR trains.

### 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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	8.16E-07	7.29E-07	9.99E-07	1.07E-06	1.36E-06	1.33E-06	9.46E-07	8.23E-07
					-1.21E-	-1.15E-		

URI ( $\Delta$ CDF)	-1.30E-06	-1.94E-06	-1.18E-06	-1.14E-06	06	06	3.71E-06	3.81E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.80E-07	-1.20E-06	-1.80E-07	-7.40E-08	1.50E-07	1.80E-07	4.70E-06	4.60E-06

Licensee Comments:

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.

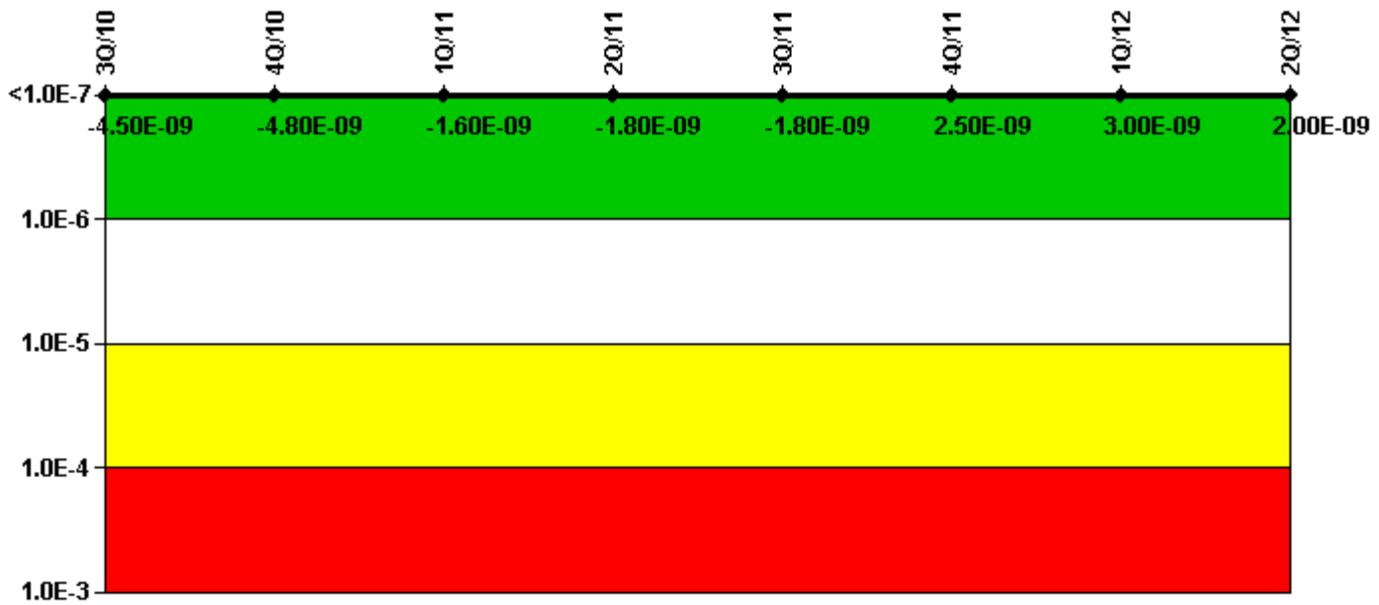
2Q/11: Risk Cap Invoked.

1Q/11: Risk Cap Invoked.

4Q/10: Risk Cap Invoked.

3Q/10: Risk Cap Invoked.

# Mitigating Systems Performance Index, High Pressure Injection System



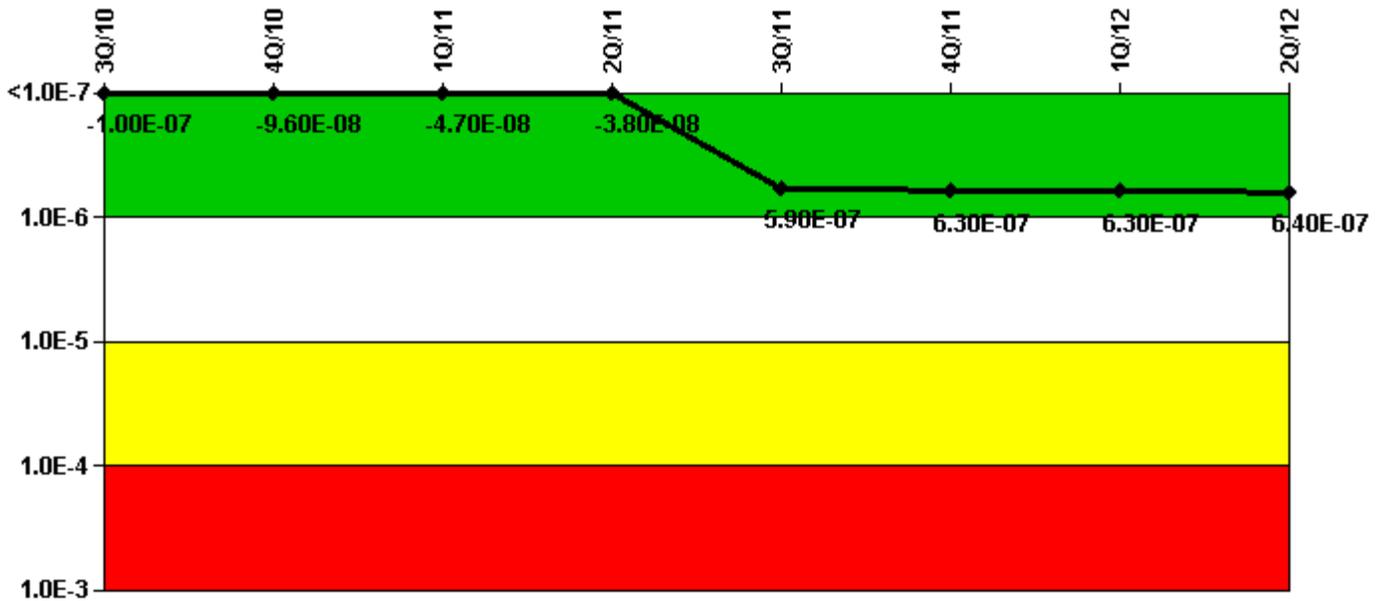
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	-2.08E-09	-2.10E-09	5.10E-10	6.45E-10	6.70E-10	4.76E-09	6.89E-09	5.51E-09
URI ( $\Delta$ CDF)	-2.44E-09	-2.74E-09	-2.14E-09	-2.40E-09	-2.46E-09	-2.23E-09	-3.87E-09	-3.53E-09
PLE	NO							
Indicator value	-4.50E-09	-4.80E-09	-1.60E-09	-1.80E-09	-1.80E-09	2.50E-09	3.00E-09	2.00E-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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	3.08E-08	3.67E-08	8.00E-08	9.01E-08	2.18E-07	2.59E-07	2.63E-07	2.70E-07
URI ( $\Delta$ CDF)	-1.30E-07	-1.32E-07	-1.27E-07	-1.28E-07	3.71E-07	3.67E-07	3.66E-07	3.68E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-07	-9.60E-08	-4.70E-08	-3.80E-08	5.90E-07	6.30E-07	6.30E-07	6.40E-07

Licensee Comments:

2Q/12: Risk Cap Invoked.

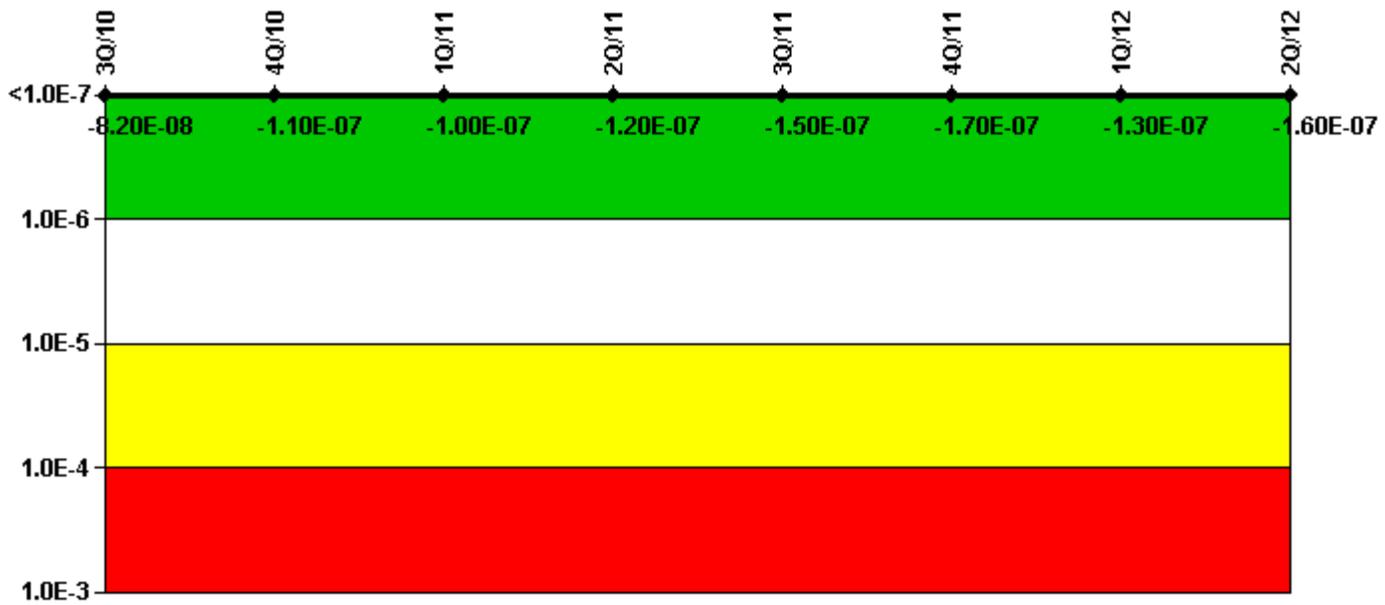
1Q/12: Risk Cap Invoked.

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



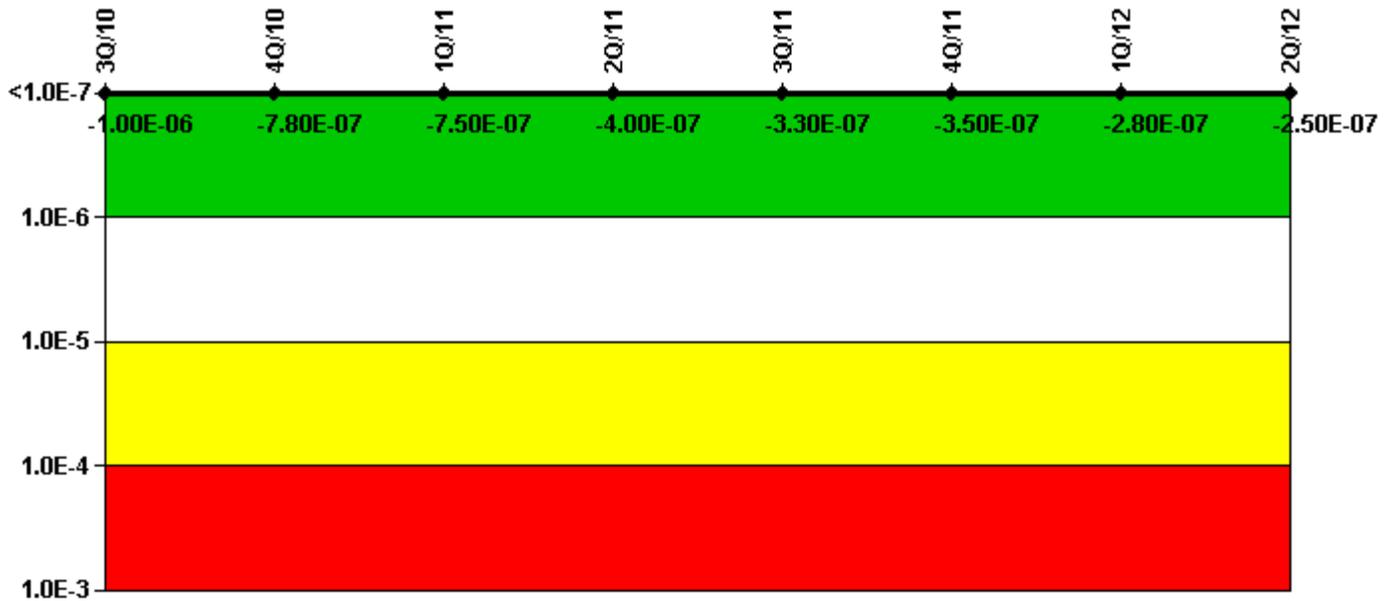
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	1.70E-07	1.54E-07	1.62E-07	1.65E-07	1.37E-07	1.19E-07	1.97E-07	1.66E-07
URI ( $\Delta$ CDF)	-2.52E-07	-2.64E-07	-2.64E-07	-2.87E-07	-2.88E-07	-2.88E-07	-3.26E-07	-3.25E-07
PLE	NO							
Indicator value	-8.20E-08	-1.10E-07	-1.00E-07	-1.20E-07	-1.50E-07	-1.70E-07	-1.30E-07	-1.60E-07

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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	4.26E-07	6.46E-07	6.79E-07	5.40E-07	6.42E-07	6.42E-07	7.47E-07	8.11E-07
URI ( $\Delta$ CDF)	-1.44E-06	-1.43E-06	-1.43E-06	-9.36E-07	-9.74E-07	-9.94E-07	-1.03E-06	-1.06E-06
PLE	NO							
Indicator value	-1.00E-06	-7.80E-07	-7.50E-07	-4.00E-07	-3.30E-07	-3.50E-07	-2.80E-07	-2.50E-07

Licensee Comments:

2Q/12: Risk Cap Invoked.

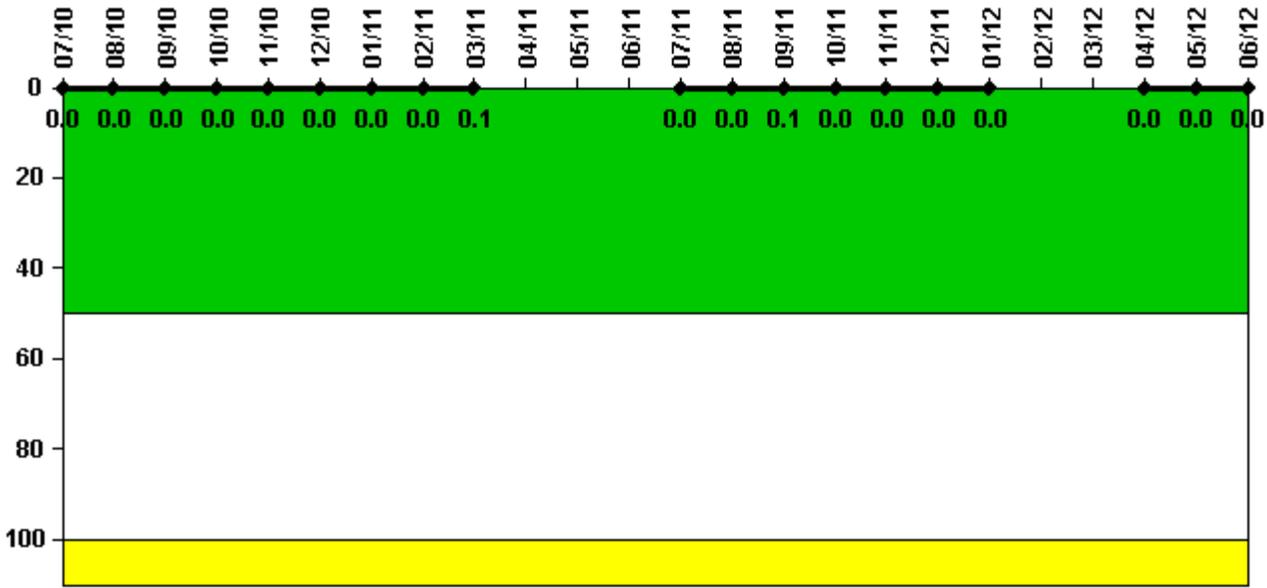
1Q/12: Risk Cap Invoked.

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	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000400	0.000400	0.000400	0.000400	0.000400	0.000400	0.000400	0.000400	0.000500	N/A	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	0	0	0	0	0	0	0	0	0	0.1	N/A	N/A

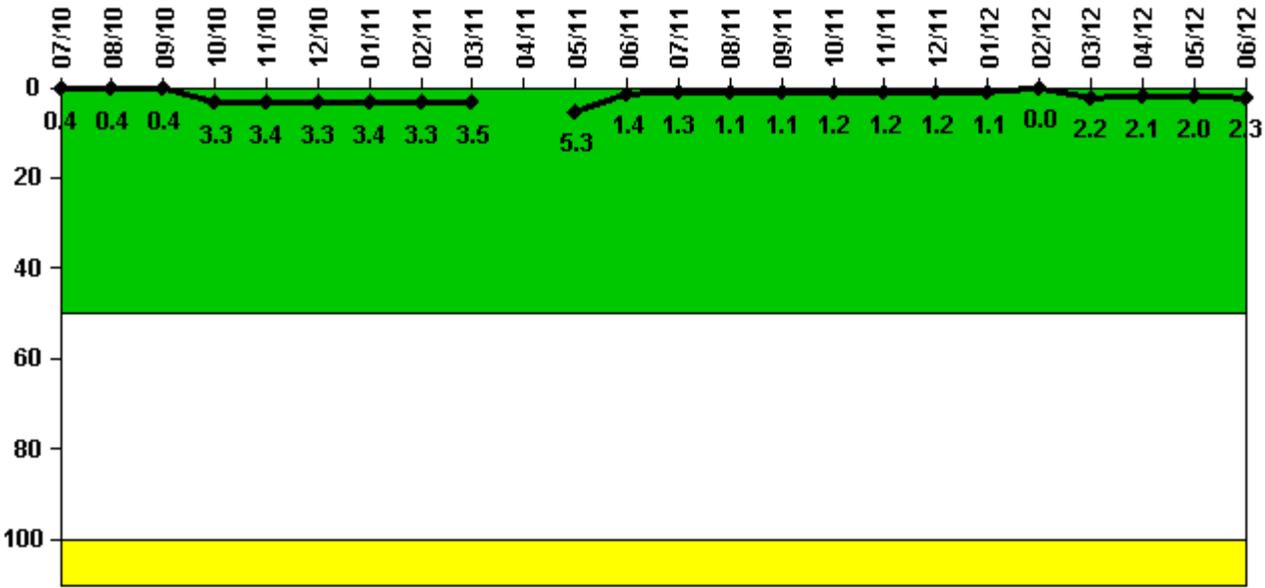
  

Reactor Coolant System Activity	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum activity	0.000200	0.000200	0.000800	0.000200	0.000200	0.000300	0.000200	N/A	N/A	0.000300	0.000300	0.000300
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value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

### 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

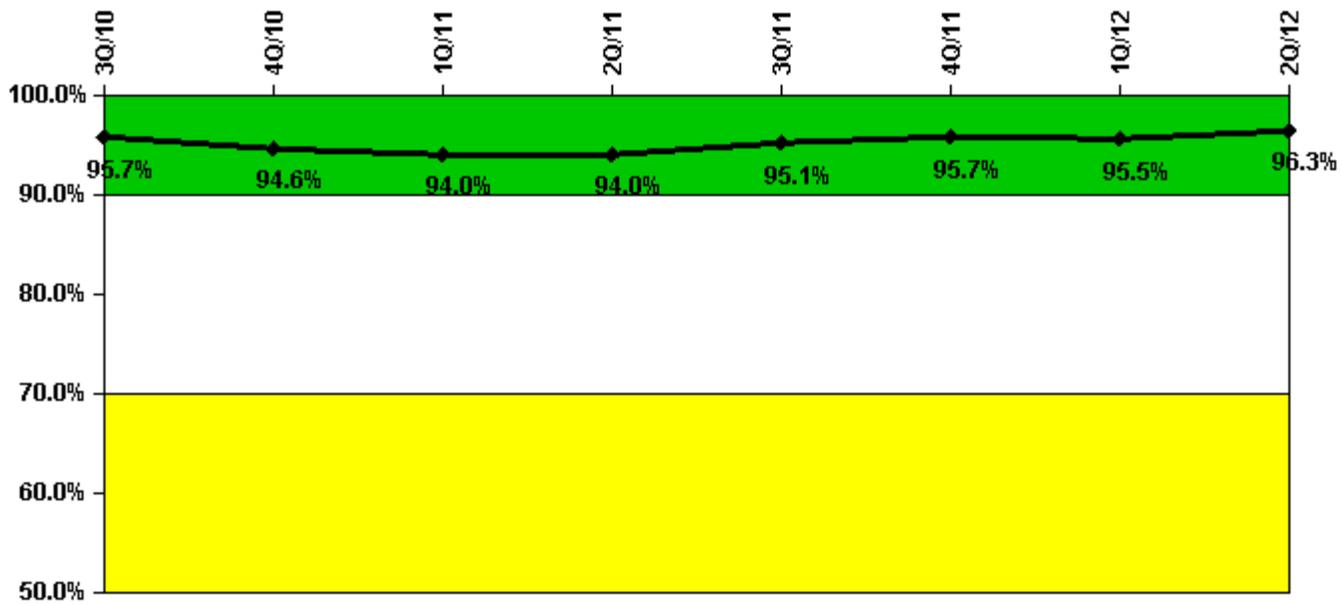
### Notes

Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	0.040	0.040	0.040	0.330	0.340	0.330	0.340	0.330	0.350	N/A	0.530	0.140
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	0.4	0.4	0.4	3.3	3.4	3.3	3.4	3.3	3.5	N/A	5.3	1.4
Reactor Coolant System Leakage	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum leakage	0.130	0.110	0.110	0.120	0.120	0.120	0.110	0	0.220	0.210	0.200	0.230
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	1.3	1.1	1.1	1.2	1.2	1.2	1.1	0	2.2	2.1	2.0	2.3

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



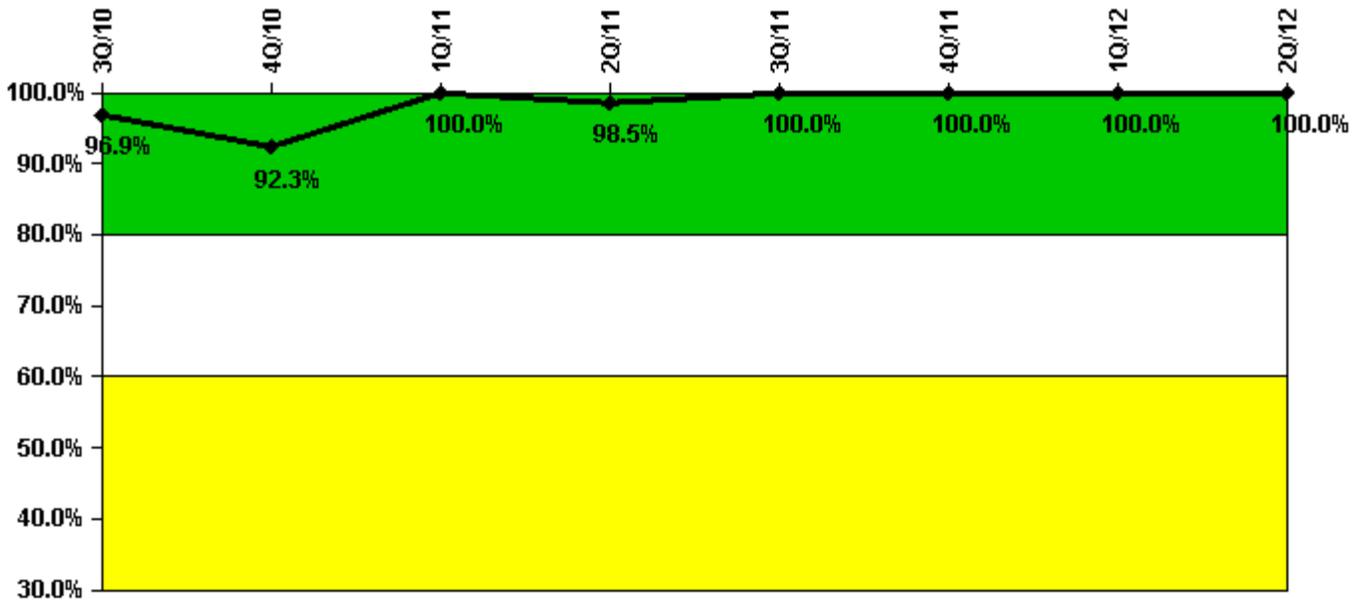
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful opportunities	31.0	57.0	18.0	16.0	163.0	82.0	42.0	28.0
Total opportunities	36.0	62.0	20.0	16.0	166.0	84.0	42.0	28.0
Indicator value	95.7%	94.6%	94.0%	94.0%	95.1%	95.7%	95.5%	96.3%

Licensee Comments: none

## ERO Drill Participation



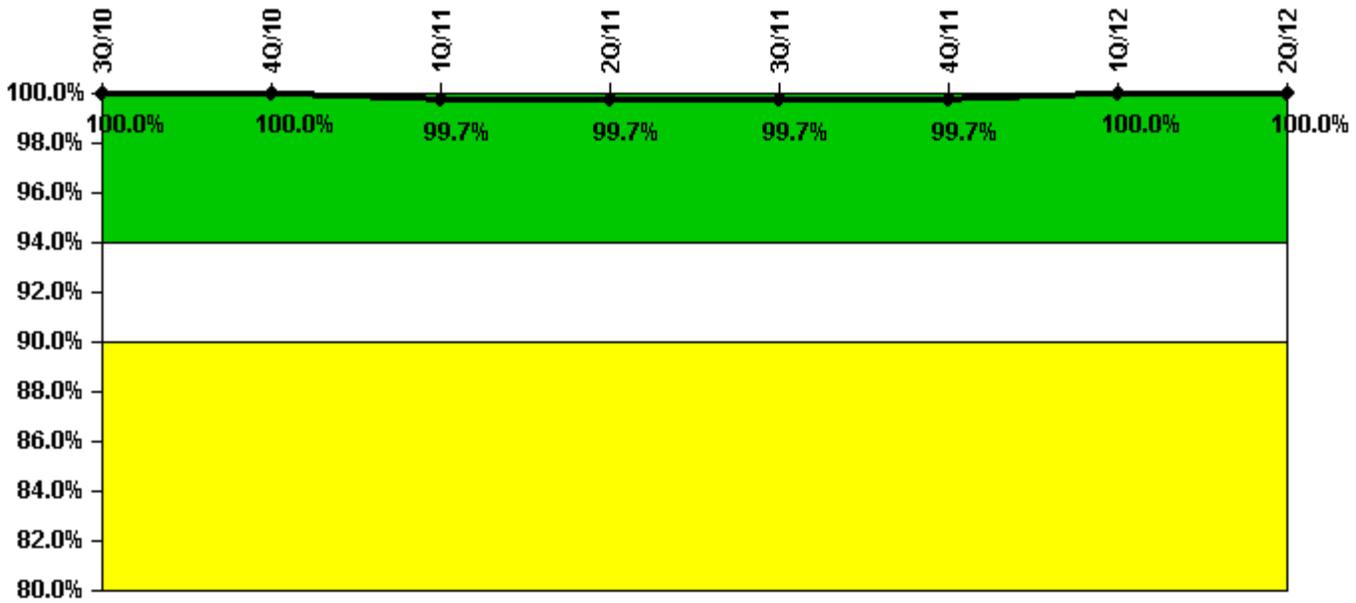
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Participating Key personnel	63.0	60.0	66.0	65.0	66.0	66.0	65.0	63.0
Total Key personnel	65.0	65.0	66.0	66.0	66.0	66.0	65.0	63.0
Indicator value	96.9%	92.3%	100.0%	98.5%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

## Alert & Notification System



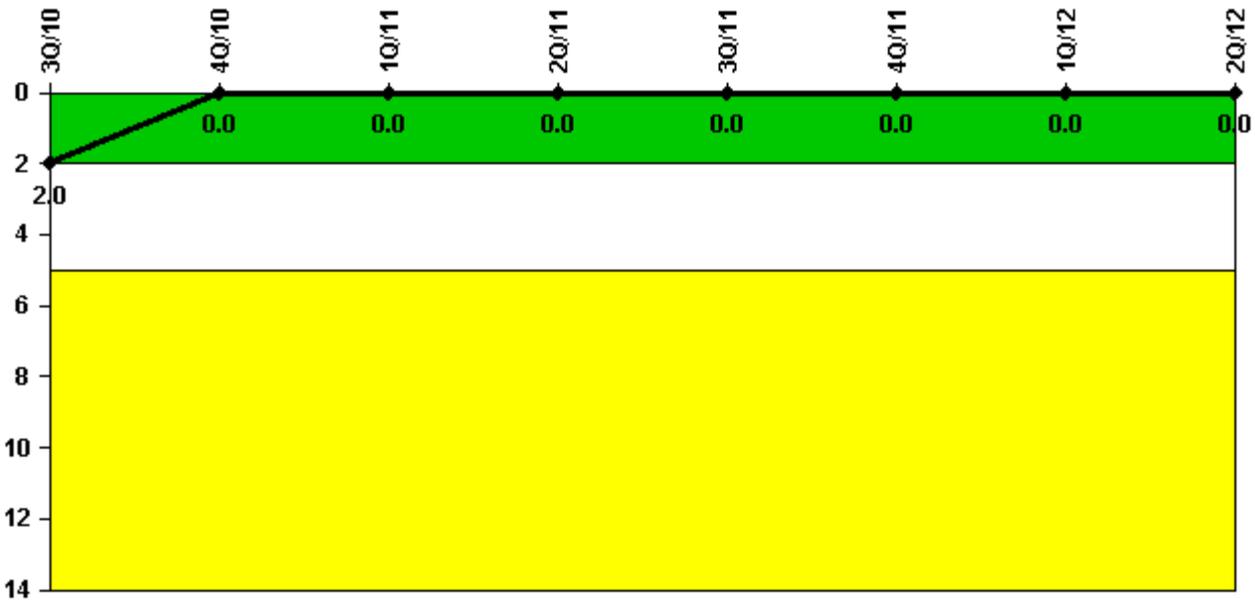
Thresholds: White < 94.0% Yellow < 90.0%

### Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	66	77	76	77	66	77	77	77
Total sirens-tests	66	77	77	77	66	77	77	77
Indicator value	100.0%	100.0%	99.7%	99.7%	99.7%	99.7%	100.0%	100.0%

Licensee Comments: none

## Occupational Exposure Control Effectiveness



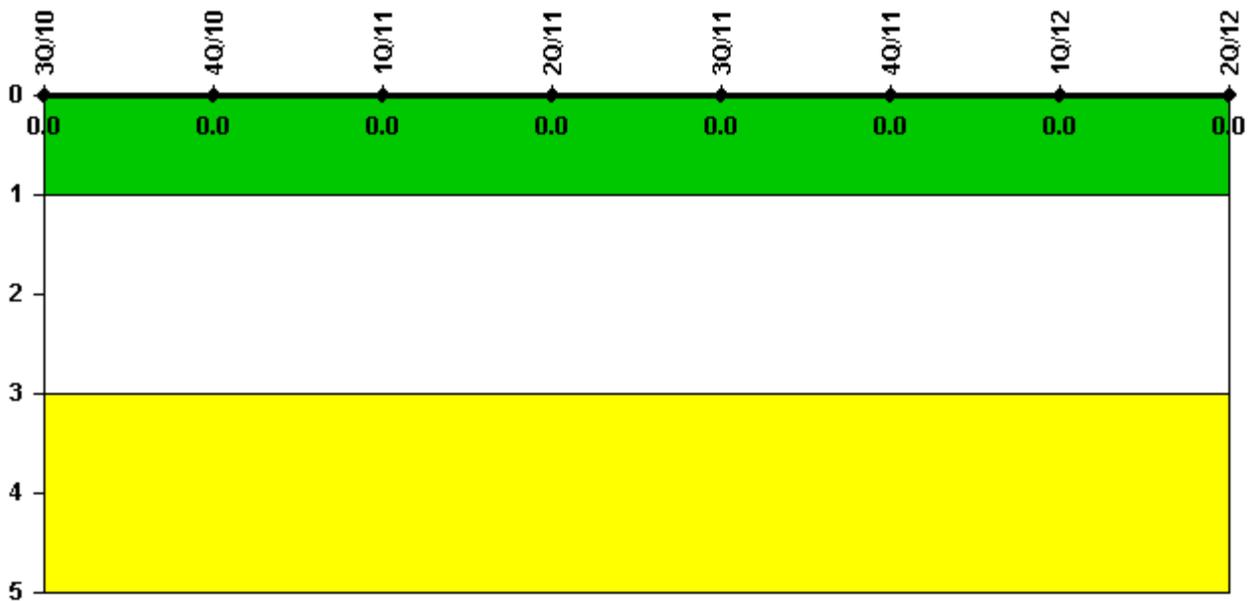
Thresholds: White > 2.0 Yellow > 5.0

### Notes

Occupational Exposure Control Effectiveness	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
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	2	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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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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.

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