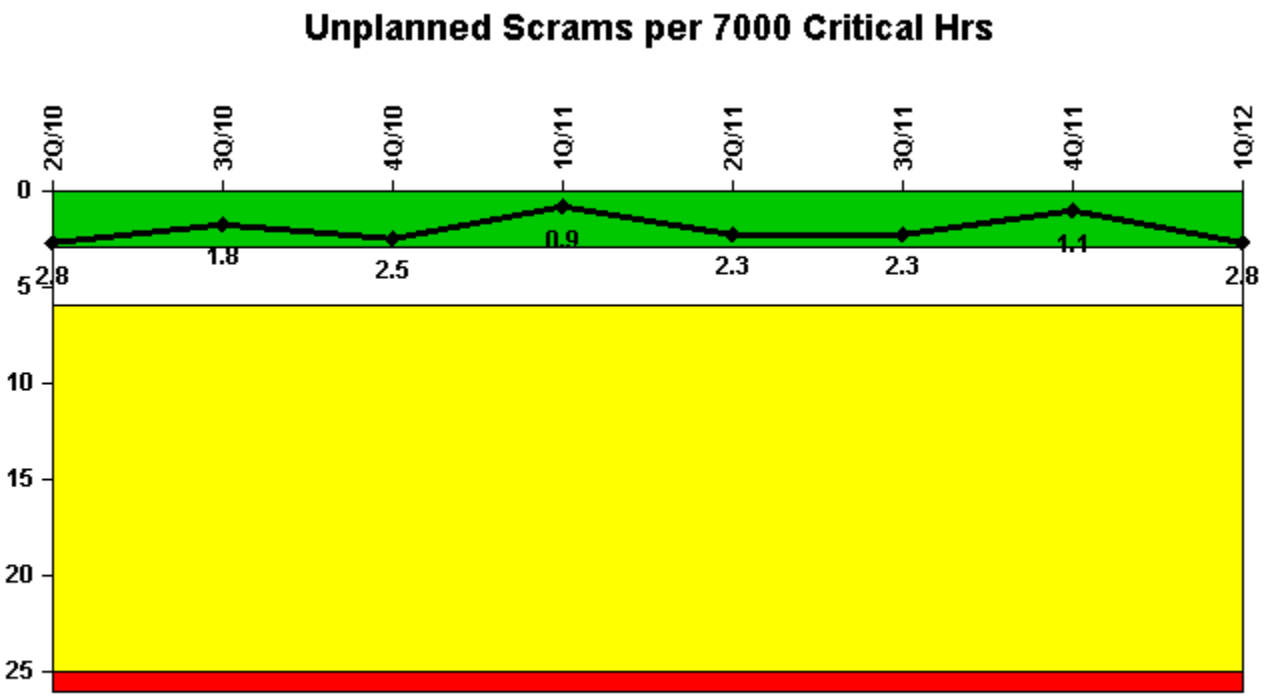
Wolf Creek 1

1Q/2012 Performance Indicators

Licensee's General Comments: none



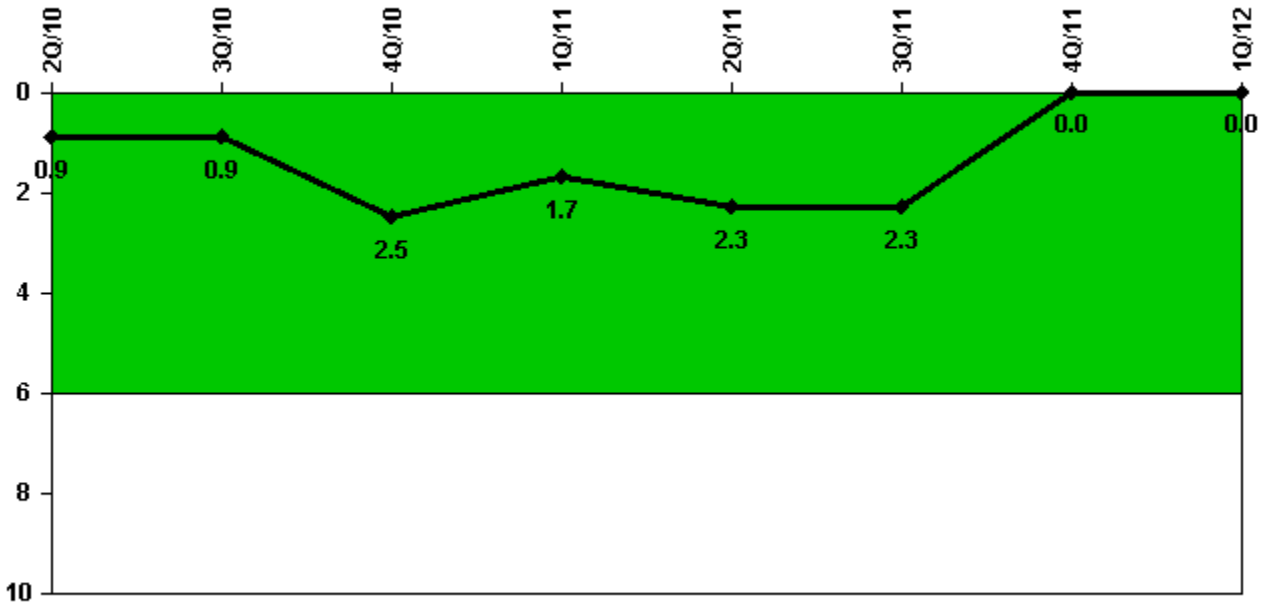
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



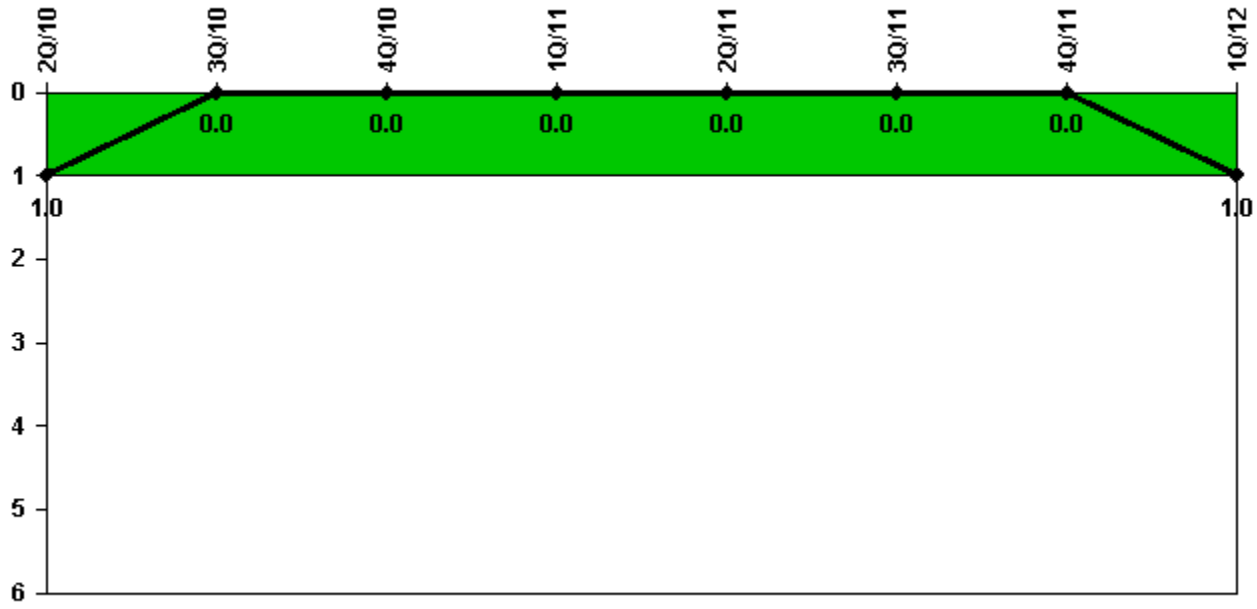
Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Unplanned Scrams with Complications



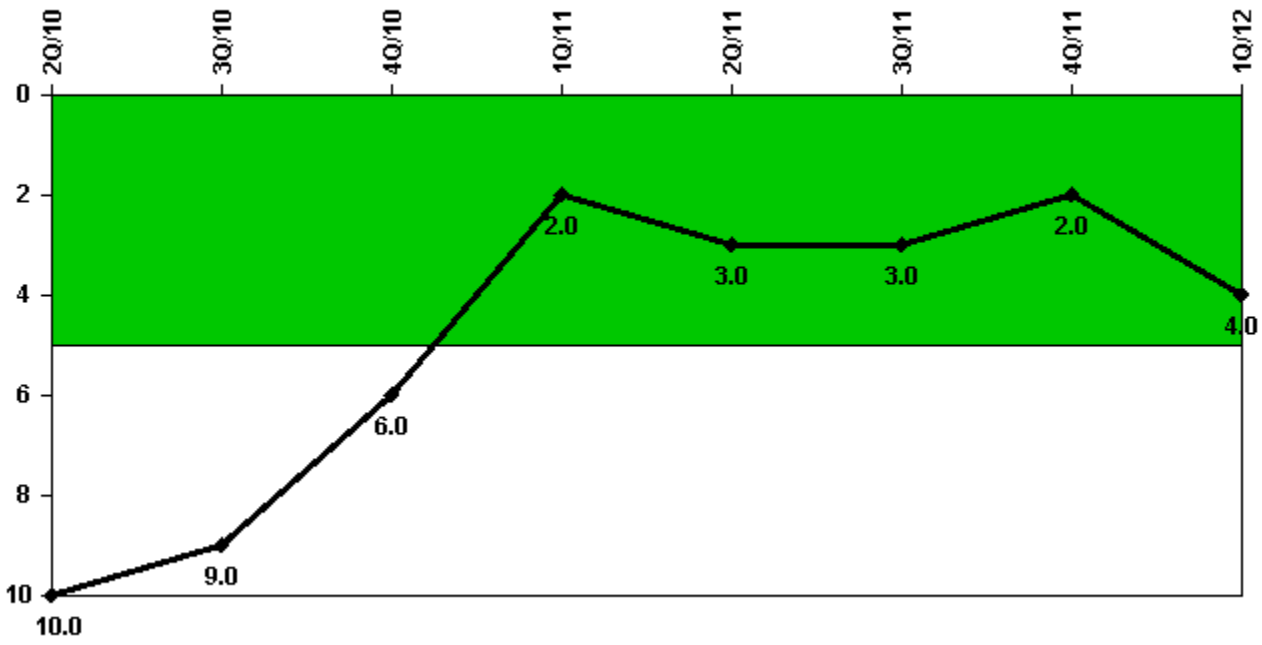
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

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

Licensee Comments:

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.

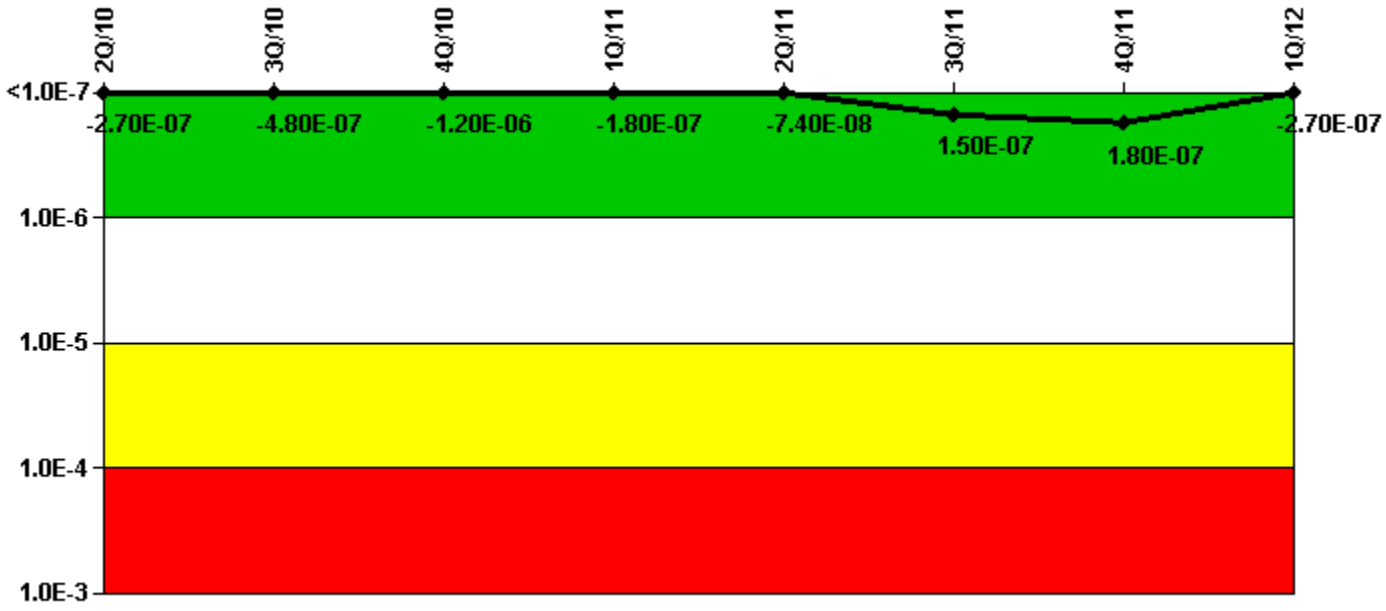
4Q/10: Within the last four quarters Wolf Creek has experienced six Safety System Functional Failures (SSFF). These events continue to drive the NRC Safety System Function Failure indicator across the GREEN/WHITE threshold. The following six SSFFs count against the indicator: LER 2008-002-01 Tech. Spec 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.

2Q/10: Within the last four quarters Wolf Creek has experienced ten Safety System Functional Failures (SSFF). These events continue to drive the NRC Safety System Function Failure indicator across the GREEN/WHITE threshold. The following ten SSFFs count against the indicator: LER 2008-008-02 Potential for RHR Trains to be Inoperable During Mode Change 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 - â€œPost-Fire Safe Shutdown Fire-Induced Multiple Spurious Operation Issues.â€? 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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	1.00E-06	8.16E-07	7.29E-07	9.99E-07	1.07E-06	1.36E-06	1.33E-06	9.46E-07
URI (ΔCDF)	-1.28E-06	-1.30E-06	-1.94E-06	-1.18E-06	-1.14E-06	-1.21E-06	-1.15E-06	-1.22E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.70E-07**	**-4.80E-07**	**-1.20E-06**	**-1.80E-07**	**-7.40E-08**	**1.50E-07**	**1.80E-07**	**-2.70E-07**

Licensee Comments:

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.

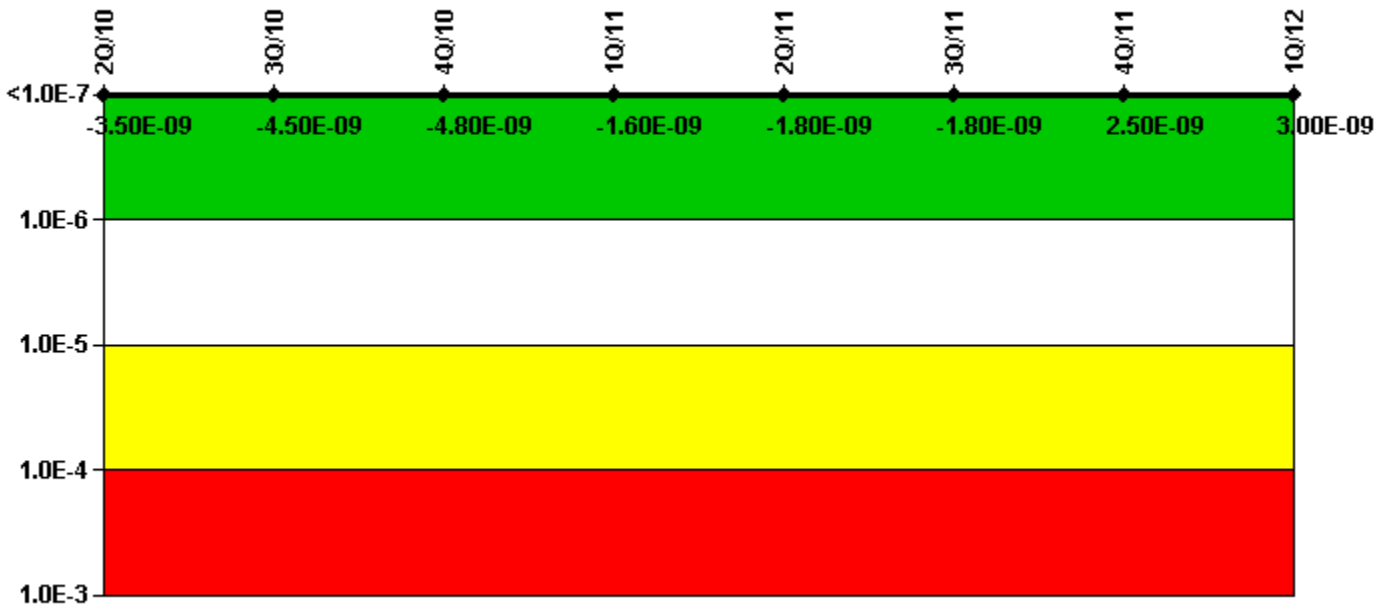
1Q/11: Risk Cap Invoked.

4Q/10: Risk Cap Invoked.

3Q/10: Risk Cap Invoked.

2Q/10: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



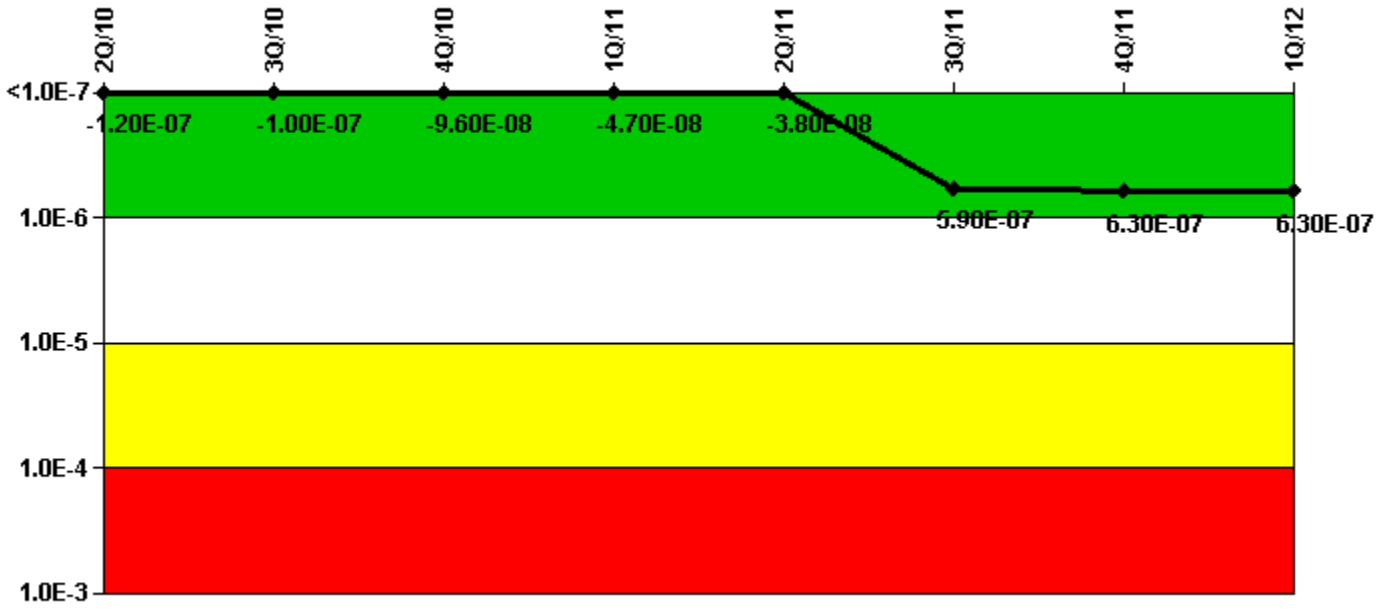
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	-2.14E-09	-2.08E-09	-2.10E-09	5.10E-10	6.45E-10	6.70E-10	4.76E-09	6.89E-09
URI (ΔCDF)	-1.37E-09	-2.44E-09	-2.74E-09	-2.14E-09	-2.40E-09	-2.46E-09	-2.23E-09	-3.87E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-09**	**-4.50E-09**	**-4.80E-09**	**-1.60E-09**	**-1.80E-09**	**-1.80E-09**	**2.50E-09**	**3.00E-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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	9.14E-09	3.08E-08	3.67E-08	8.00E-08	9.01E-08	2.18E-07	2.59E-07	2.63E-07
URI (ΔCDF)	-1.28E-07	-1.30E-07	-1.32E-07	-1.27E-07	-1.28E-07	3.71E-07	3.67E-07	3.66E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-07**	**-1.00E-07**	**-9.60E-08**	**-4.70E-08**	**-3.80E-08**	**5.90E-07**	**6.30E-07**	**6.30E-07**

Licensee Comments:

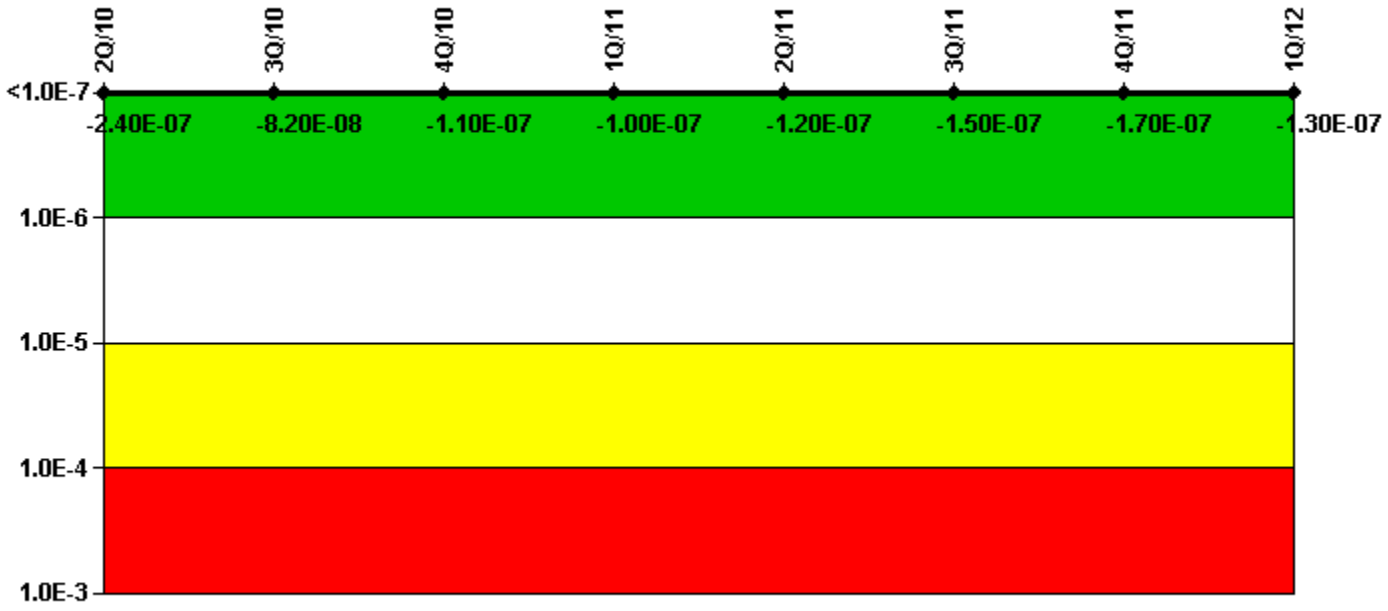
1Q/12: Risk Cap Invoked.

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



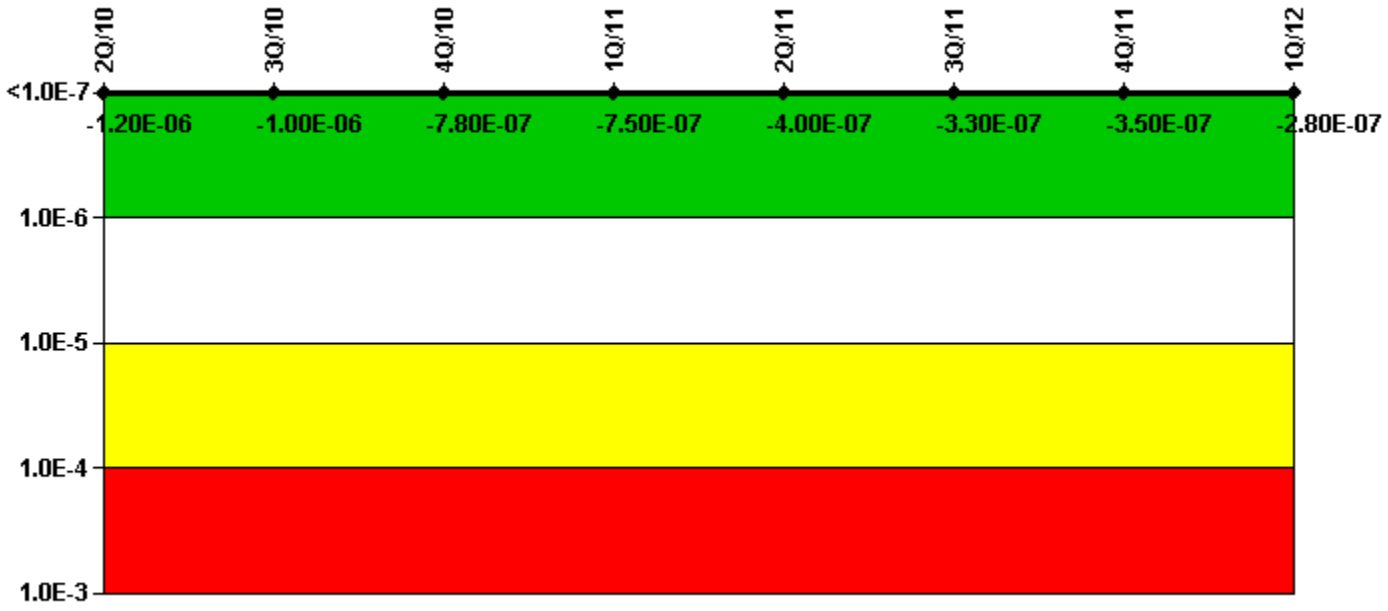
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	-6.74E-09	1.70E-07	1.54E-07	1.62E-07	1.65E-07	1.37E-07	1.19E-07	1.97E-07
URI (ΔCDF)	-2.36E-07	-2.52E-07	-2.64E-07	-2.64E-07	-2.87E-07	-2.88E-07	-2.88E-07	-3.26E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.40E-07**	**-8.20E-08**	**-1.10E-07**	**-1.00E-07**	**-1.20E-07**	**-1.50E-07**	**-1.70E-07**	**-1.30E-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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	2.64E-07	4.26E-07	6.46E-07	6.79E-07	5.40E-07	6.42E-07	6.42E-07	7.47E-07
URI (ΔCDF)	-1.43E-06	-1.44E-06	-1.43E-06	-1.43E-06	-9.36E-07	-9.74E-07	-9.94E-07	-1.03E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-06**	**-1.00E-06**	**-7.80E-07**	**-7.50E-07**	**-4.00E-07**	**-3.30E-07**	**-3.50E-07**	**-2.80E-07**

Licensee Comments:

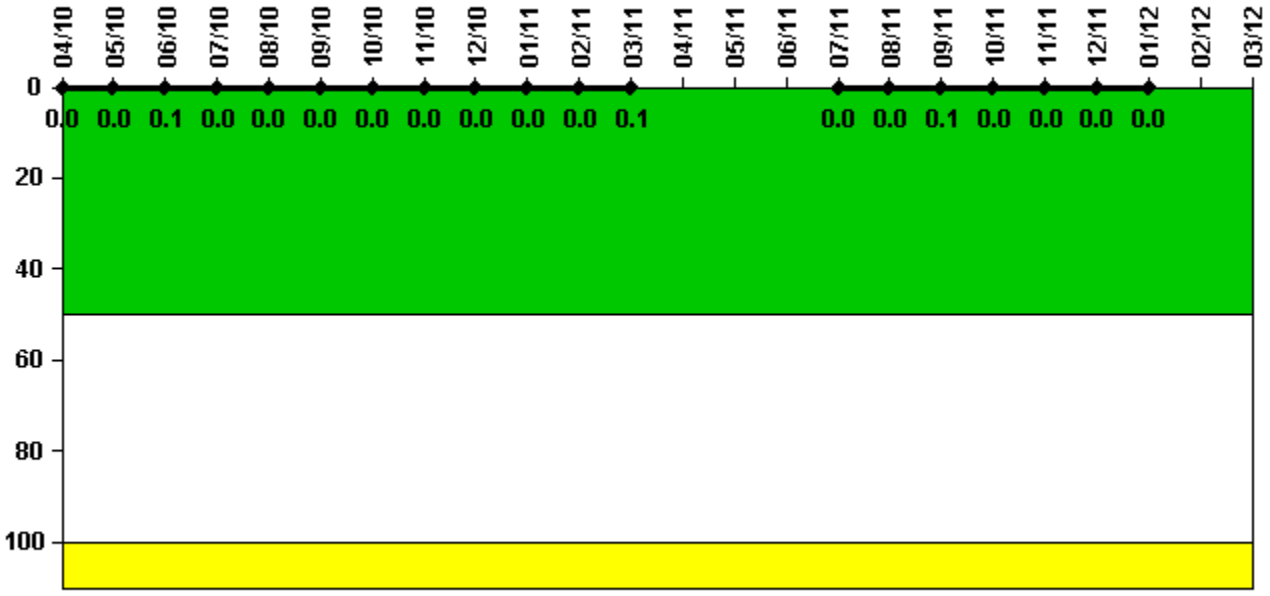
1Q/12: Risk Cap Invoked.

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

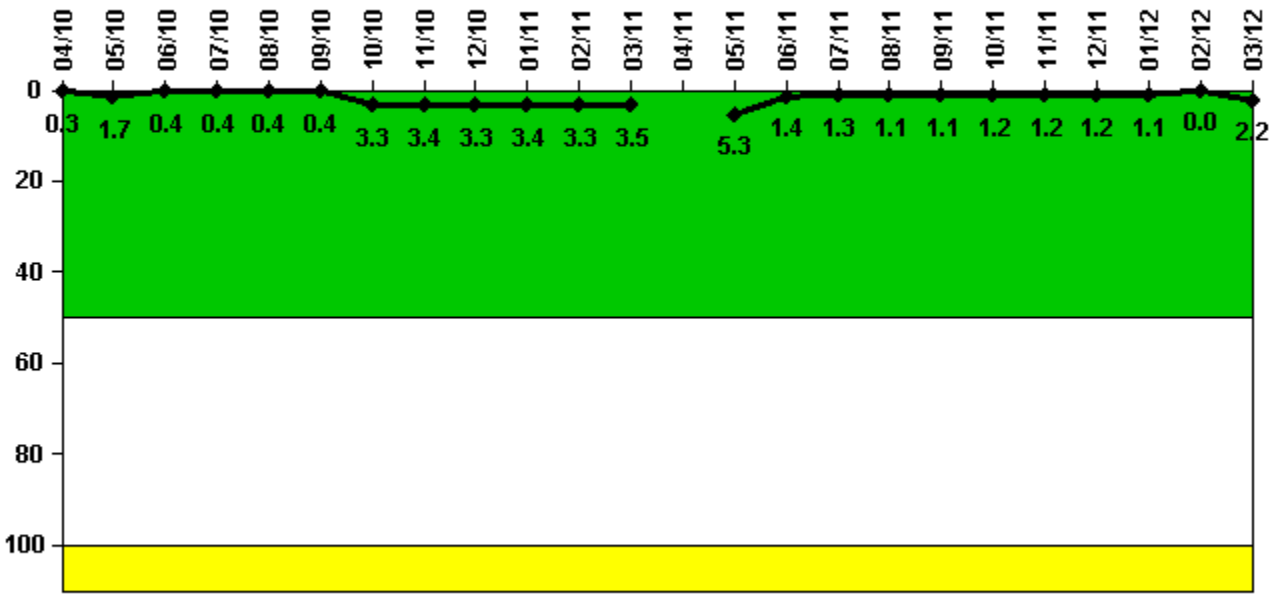
Reactor Coolant System Activity	**4 / 10**	**5 / 10**	**6 / 10**	**7 / 10**	**8 / 10**	**9 / 10**	**10 / 10**	**11 / 10**	**12 / 10**	**1 / 11**	**2 / 11**	**3 / 11**
Maximum activity	0.000300	0.000400	0.000500	0.000400	0.000400	0.000400	0.000400	0.000400	0.000400	0.000400	0.000400	0.000500
Technical 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**	**0**	**0**	**0**	**0**	**0.1**

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**

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

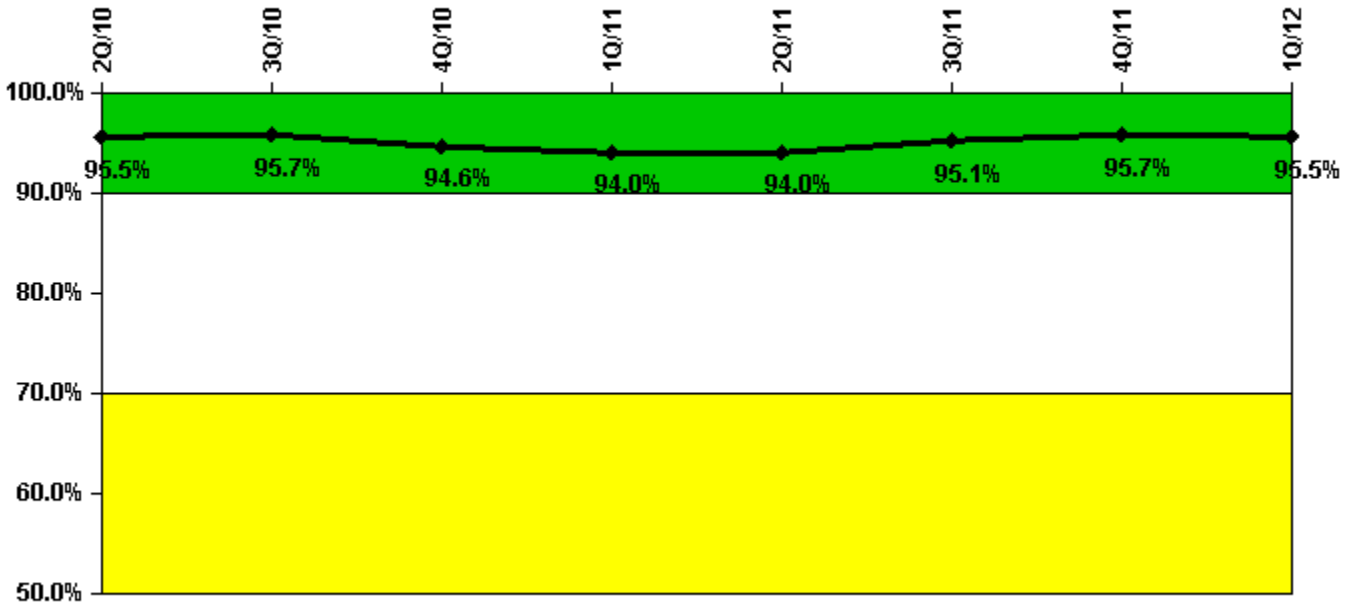
Reactor Coolant System Leakage	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum leakage	0.030	0.170	0.040	0.040	0.040	0.040	0.330	0.340	0.330	0.340	0.330	0.350
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.3**	**1.7**	**0.4**	**0.4**	**0.4**	**0.4**	**3.3**	**3.4**	**3.3**	**3.4**	**3.3**	**3.5**

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**

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



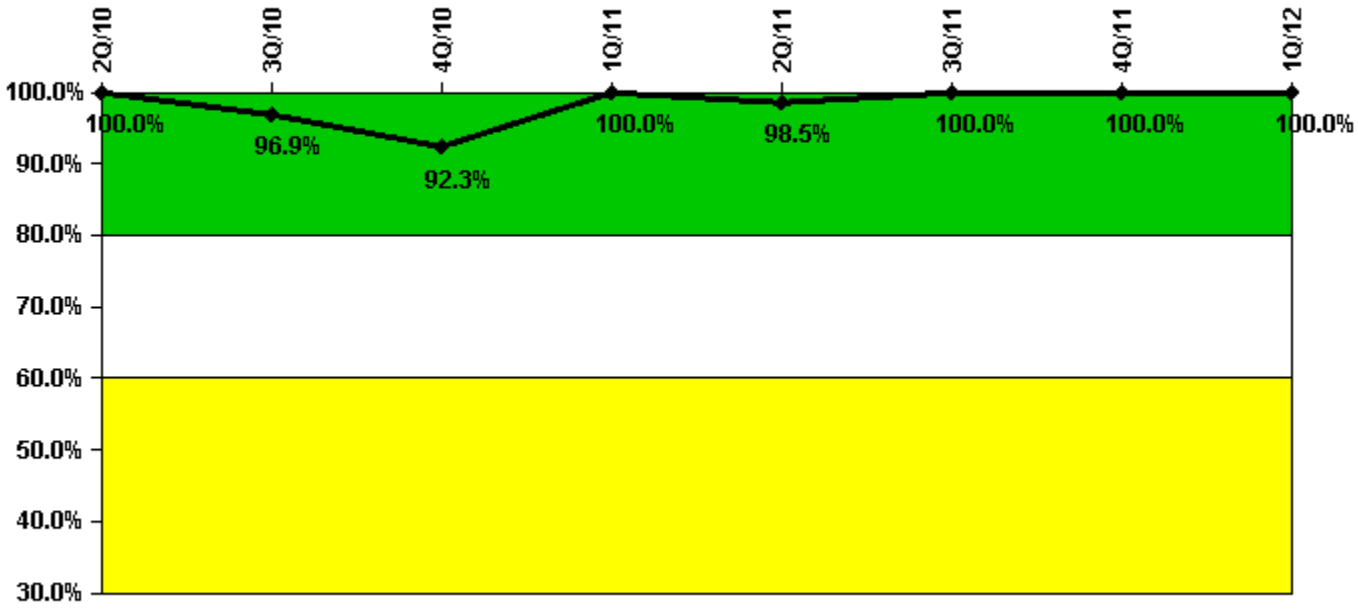
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	37.0	31.0	57.0	18.0	16.0	163.0	82.0	42.0
Total opportunities	41.0	36.0	62.0	20.0	16.0	166.0	84.0	42.0
Indicator value	**95.5%**	**95.7%**	**94.6%**	**94.0%**	**94.0%**	**95.1%**	**95.7%**	**95.5%**

Licensee Comments: none

ERO Drill Participation



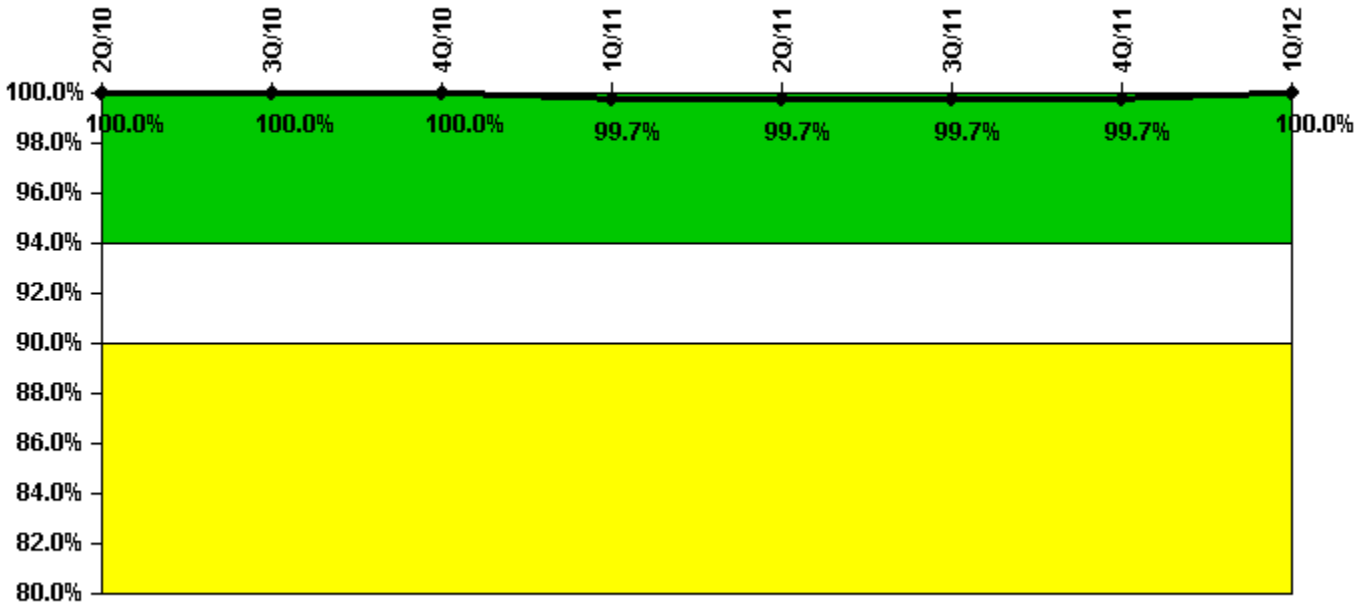
Thresholds: White < 80.0% Yellow < 60.0%

Notes

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

Licensee Comments: none

Alert & Notification System



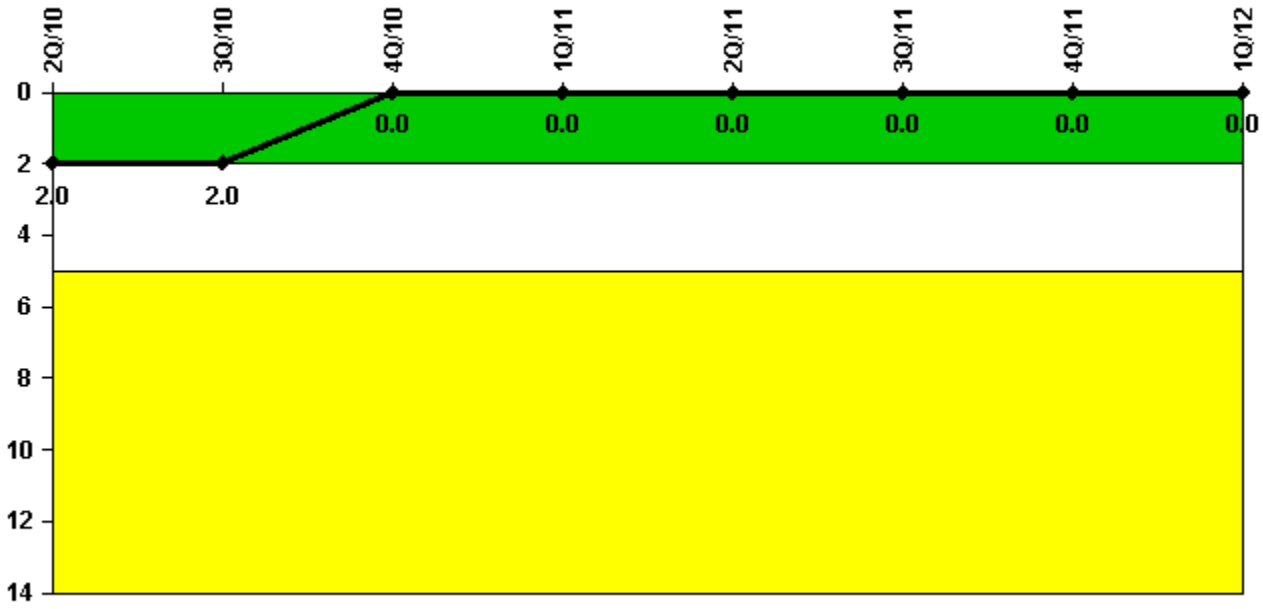
Thresholds: White < 94.0% Yellow < 90.0%

Notes

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

Licensee Comments: none

Occupational Exposure Control Effectiveness



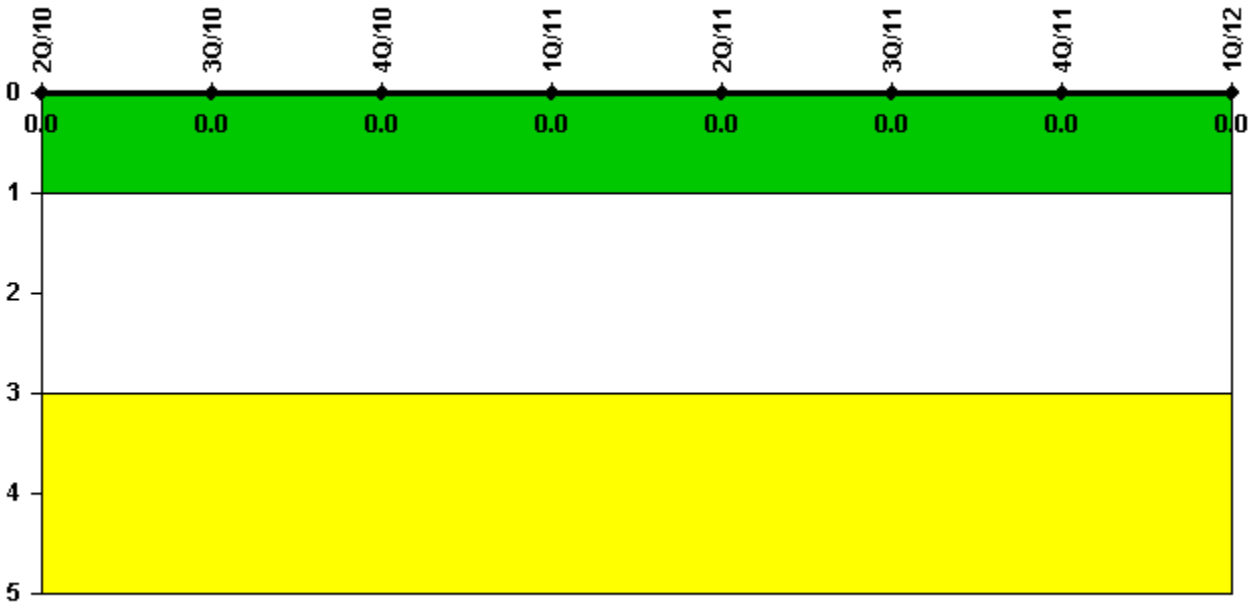
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/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**	**2**	**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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/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

Security information not publicly available.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: April 24, 2012