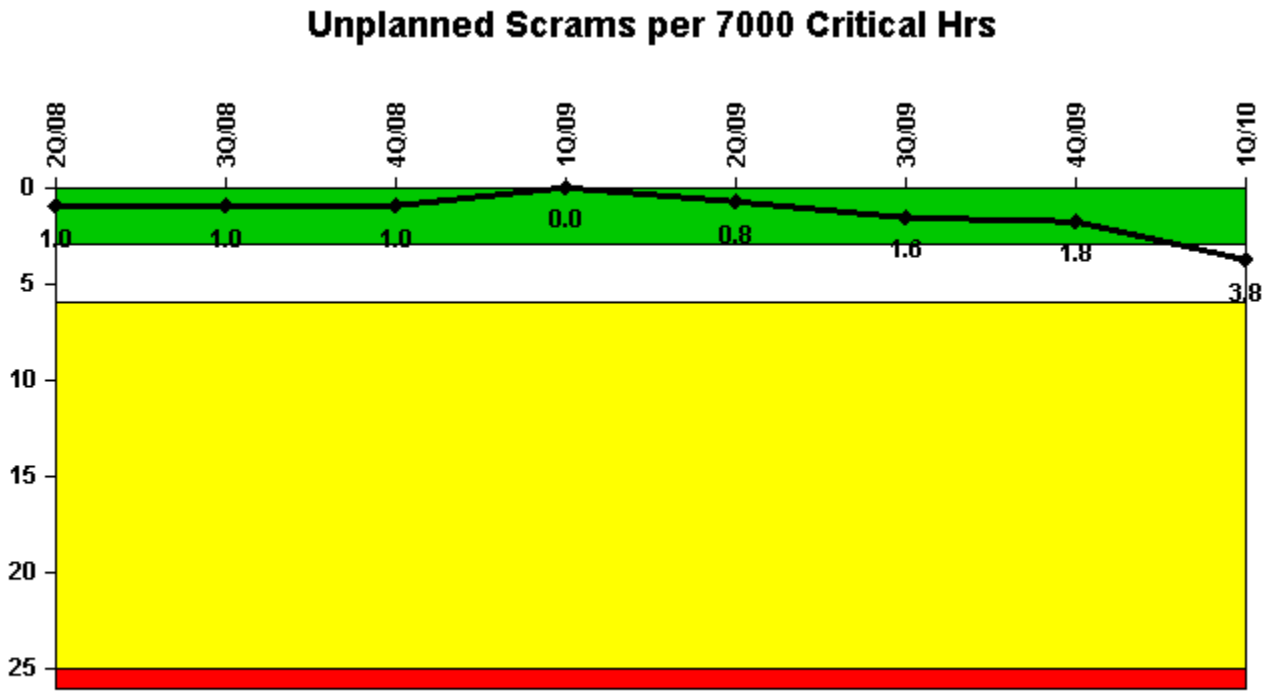
Wolf Creek 1

1Q/2010 Performance Indicators

Licensee's General Comments: This revision is to report the scrams from April 2009 and August 2009 as Scrams with Complications. These Scrams with Complications were not previously reported as Scrams with Complications while FAQ 10-03 was in process. The NRC issued a tentative decision to the FAQ that the scram is a Scram with Complications. Therefore, WCNOC is reporting both scrams as Scrams with Complications. Per NEI 99-02, this requires WCNOC to complete a mid-quarter report as we have crossed the green to white performance threshold. WCNOC continues to evaluate escalation of the WCNOC position through the appeal process.



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

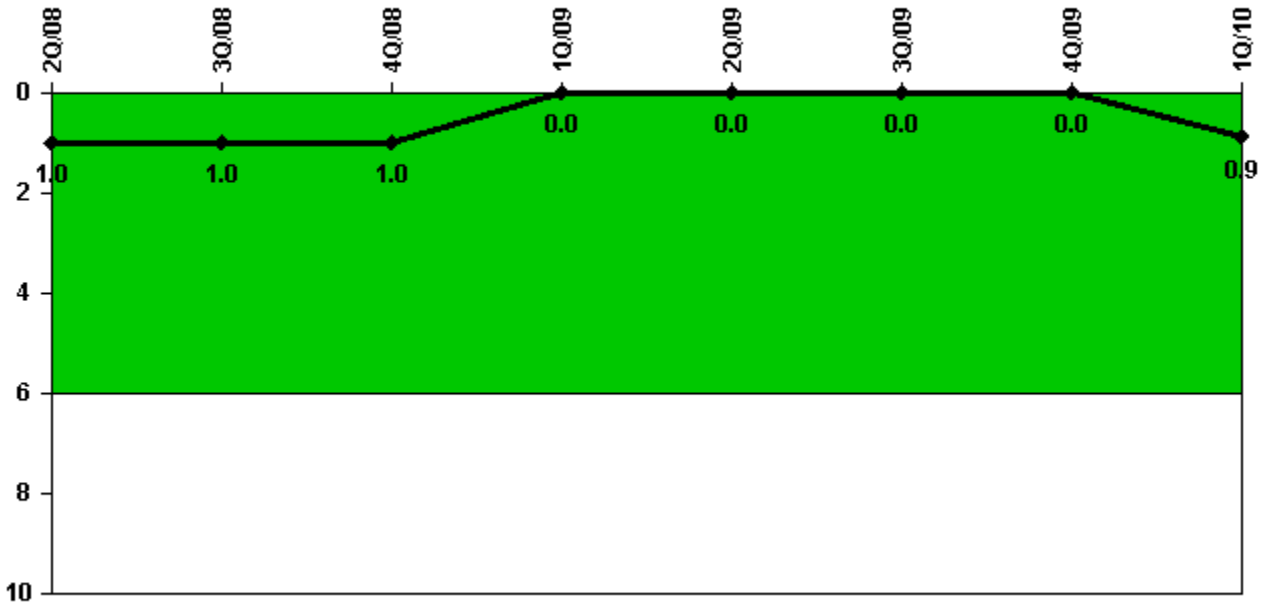
Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	0	0	0	0	1.0	1.0	0	2.0
Critical hours	1150.0	2208.0	2209.0	2159.0	2126.9	2115.9	1207.1	2005.2
Indicator value	**1.0**	**1.0**	**1.0**	**0**	**0.8**	**1.6**	**1.8**	**3.8**

Licensee Comments:

1Q/10: Within the last four quarters Wolf Creek has experienced four reactor scrams. These events will drive the NRC IE01 Unplanned Scrams per 7000 Critical Hours across the GREEN/WHITE threshold. The following four scrams count against the indicator: 4-28-09 B Main Feed Regulating Valve Closed Unexpectedly 8-19-09 Loss of Offsite Power 3-2-2010 Loss of One Main Feedwater Pump 3-8-2010 Manual Reactor Trip due to A Main Feedwater Pump Trip

Unplanned Power Changes per 7000 Critical Hrs



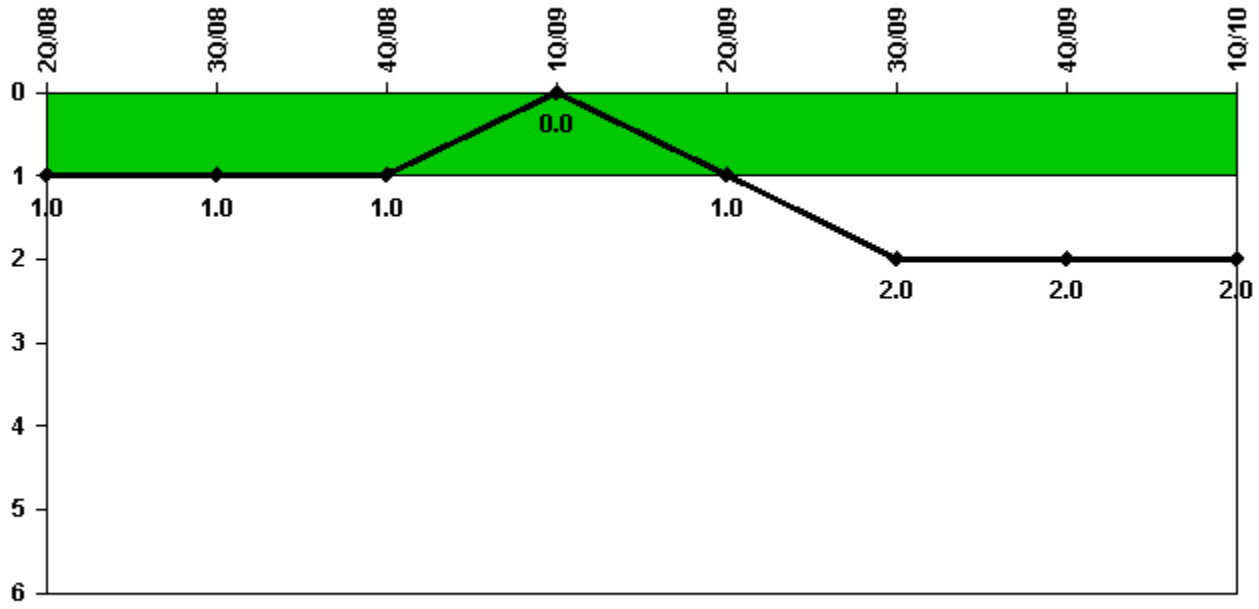
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	1150.0	2208.0	2209.0	2159.0	2126.9	2115.9	1207.1	2005.2
Indicator value	**1.0**	**1.0**	**1.0**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Scrams with complications	0	0	0	0	1.0	1.0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**0.0**	**1.0**	**2.0**	**2.0**	**2.0**

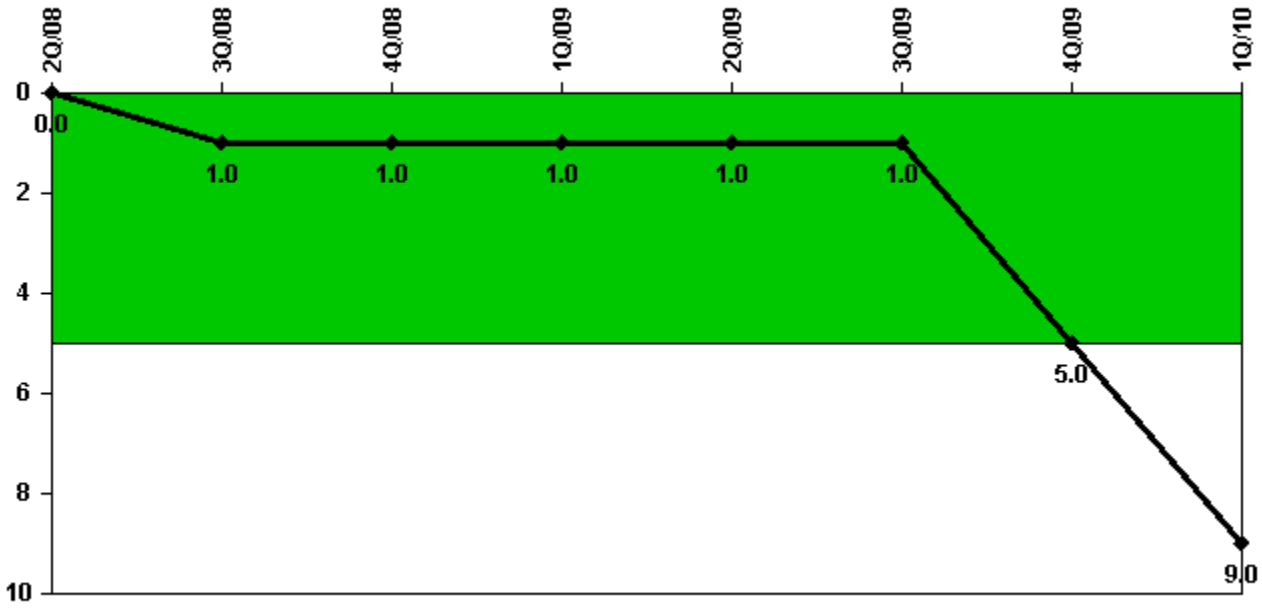
Licensee Comments:

1Q/10: FAQ introduced to the NRC on 3-18-2010

3Q/09: This revision is to report the scram from August 2009 as a Scram with Complications. This scram was not previously reported as a Scram with Complications while FAQ 10-03 was in process. The NRC issued a tentative decision to the FAQ that this is a Scram with Complications. Therefore, WCNOC is reporting this scram as a Scram with Complications. Per NEI 99-02, this requires WCNOC to complete a mid-quarter report as we have crossed the green to white performance threshold. WCNOC continues to evaluate escalation of the WCNOC position through the appeal process.

2Q/09: This revision is to report the scram from April 2009 as a Scram with Complications. This scram was not previously reported as a Scram with Complications while FAQ 10-03 was in process. The NRC issued a tentative decision to the FAQ that this is a Scram with Complications. Therefore, WCNOC is reporting this scram as a Scram with Complications. Per NEI 99-02, this requires WCNOC to complete a mid-quarter report as we have crossed the green to white performance threshold. WCNOC continues to evaluate escalation of the WCNOC position through the appeal process.

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Safety System Functional Failures	0	1	0	0	0	1	4	4
Indicator value	**0**	**1**	**1**	**1**	**1**	**1**	**5**	**9**

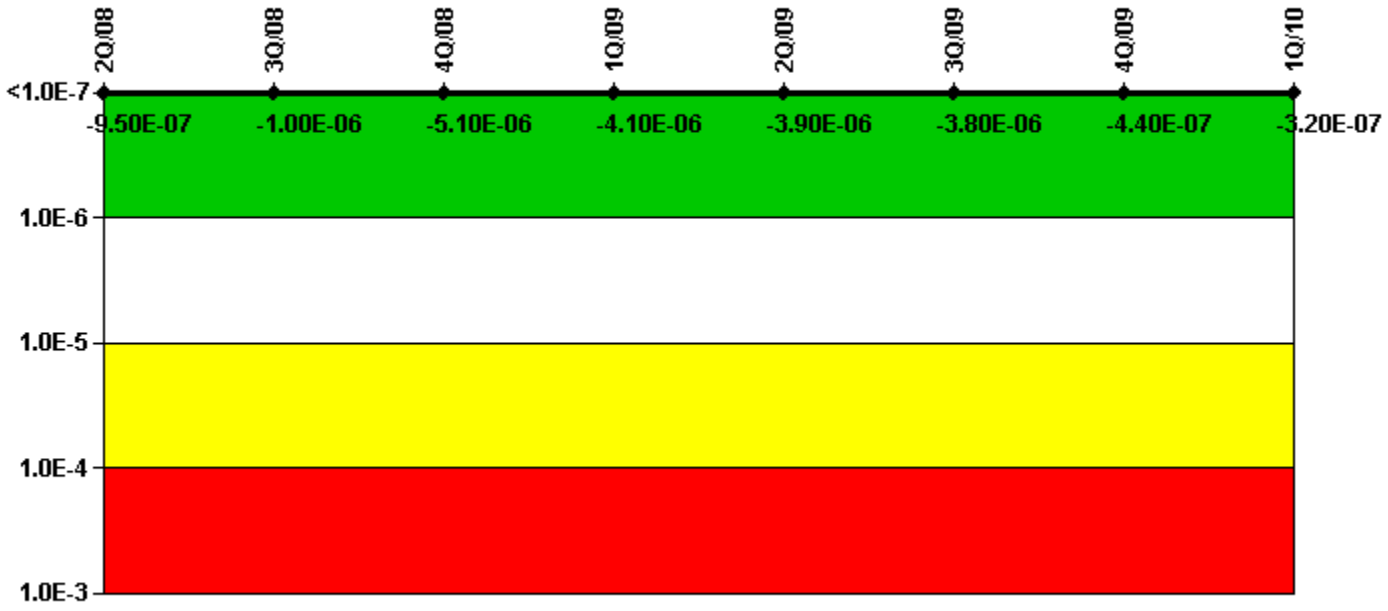
Licensee Comments:

1Q/10: Within the last four quarters Wolf Creek has experienced nine Safety System Functional Failures (SSFF). These events will drive the NRC Safety System Function Failure indicator across the GREEN/WHITE threshold. The following nine 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

4Q/09: LER 2008-004-01 submitted 11/11/09 with original event occurring 4/7/08. LER supplement submitted based on NRC questions and NCV (2009 004-07).LER 2009-002-00, LER-2009-005-00

4Q/09: LER 2008-004-01 submitted 11/11/09 with original event occurring 4/7/08. LER supplement submitted based on NRC questions and NCV (2009 004-07).LER 2009-002-00, LER-2009-005-00

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/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	1.24E-06	1.19E-06	8.06E-07	1.97E-06	2.16E-06	2.41E-06	8.18E-07	9.58E-07
URI (ΔCDF)	-2.19E-06	-2.22E-06	-5.95E-06	-6.07E-06	-6.10E-06	-6.21E-06	-1.26E-06	-1.28E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.50E-07**	**-1.00E-06**	**-5.10E-06**	**-4.10E-06**	**-3.90E-06**	**-3.80E-06**	**-4.40E-07**	**-3.20E-07**

Licensee Comments:

1Q/10: Risk Cap Invoked.

4Q/09: Risk Cap Invoked. PRA Model update in 3Q09 effective for this reporting quarter.

3Q/09: Risk Cap Invoked.

2Q/09: Risk Cap Invoked.

1Q/09: Risk Cap Invoked.

4Q/08: Risk Cap Invoked.

3Q/08: Risk Cap Invoked.

2Q/08: Risk Cap Invoked.

1Q/08: Risk Cap Invoked.

4Q/07: Risk Cap Invoked.

3Q/07: Risk Cap Invoked.

2Q/07: Risk Cap Invoked.

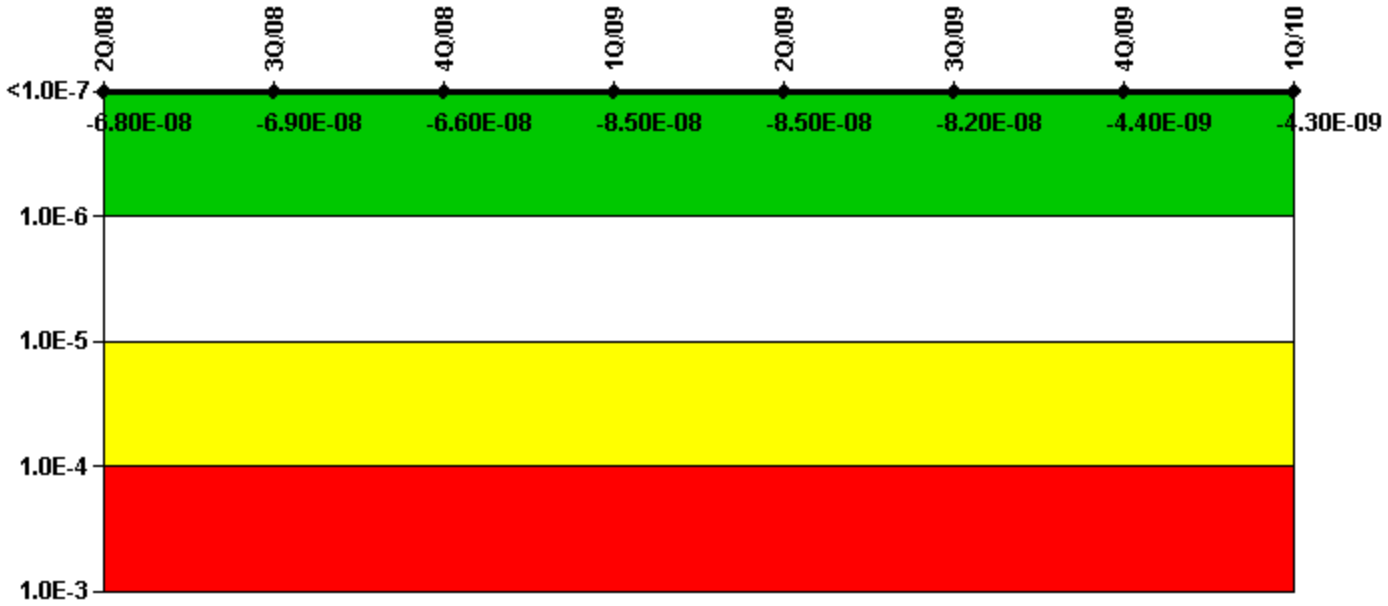
1Q/07: Risk Cap Invoked.

4Q/06: Risk Cap Invoked.

3Q/06: Risk Cap Invoked.

2Q/06: Risk Cap Invoked. Notified by INPO on 10/2/06 tha the CDF current value was going to be altered due to data conversion from MSPI calculator to CDE. Calculator allowed an additional decimal place. This conversion altered the CDF value.

Mitigating Systems Performance Index, High Pressure Injection System



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

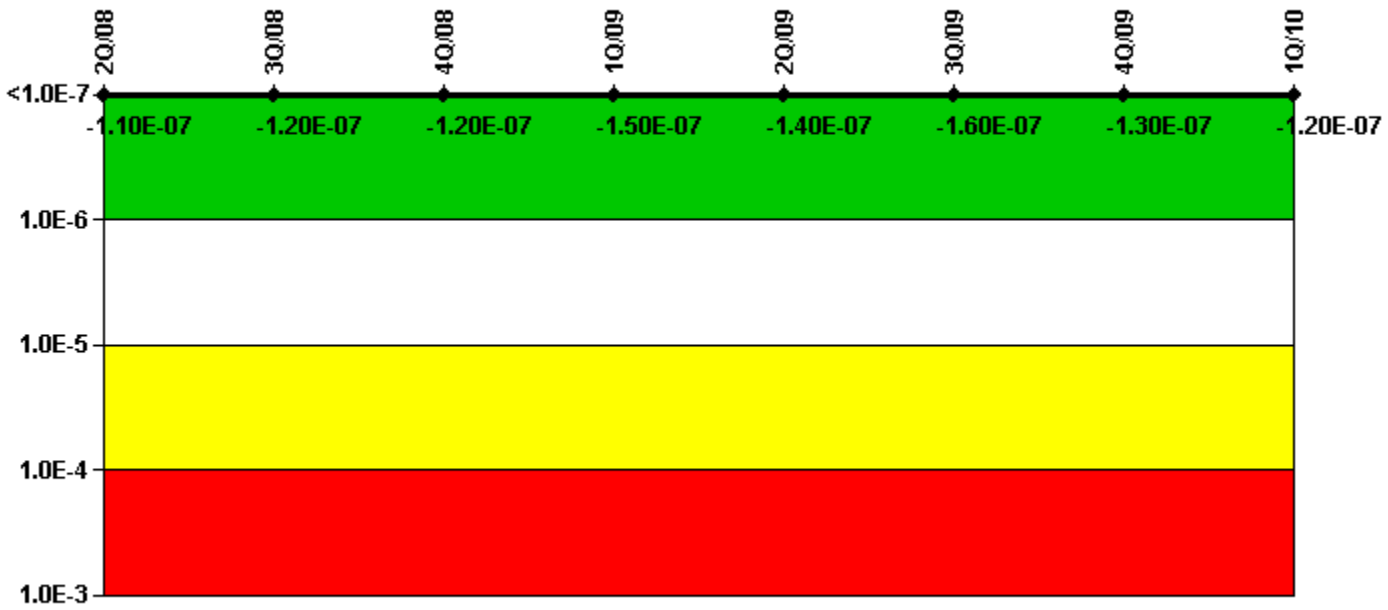
Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	1.68E-08	1.62E-08	1.58E-08	-2.93E-09	-1.52E-09	1.90E-09	-2.18E-09	-2.13E-09
URI (ΔCDF)	-8.52E-08	-8.52E-08	-8.23E-08	-8.22E-08	-8.35E-08	-8.35E-08	-2.21E-09	-2.22E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.80E-08**	**-6.90E-08**	**-6.60E-08**	**-8.50E-08**	**-8.50E-08**	**-8.20E-08**	**-4.40E-09**	**-4.30E-09**

Licensee Comments:

4Q/09: PRA Model update in 3Q09 effective for this reporting quarter.

Mitigating Systems Performance Index, Heat Removal System



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

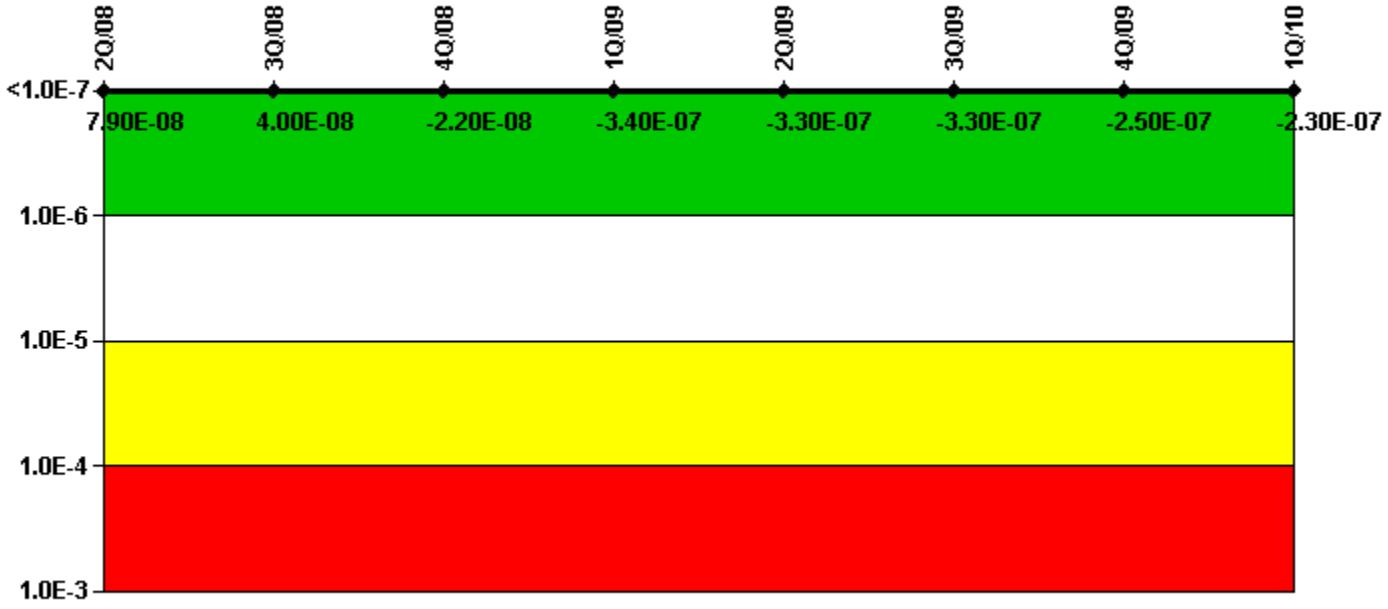
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	5.44E-08	3.95E-08	3.95E-08	1.18E-08	9.44E-09	-6.15E-10	8.61E-10	5.82E-09
URI (ΔCDF)	-1.60E-07	-1.61E-07	-1.61E-07	-1.60E-07	-1.54E-07	-1.61E-07	-1.26E-07	-1.28E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.20E-07**	**-1.20E-07**	**-1.50E-07**	**-1.40E-07**	**-1.60E-07**	**-1.30E-07**	**-1.20E-07**

Licensee Comments:

4Q/09: PRA Model update in 3Q09 effective for this reporting quarter.

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/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	3.62E-07	3.25E-07	2.64E-07	-5.21E-08	-4.51E-08	-3.68E-08	-1.56E-08	2.29E-09
URI (ΔCDF)	-2.83E-07	-2.85E-07	-2.86E-07	-2.86E-07	-2.87E-07	-2.91E-07	-2.30E-07	-2.32E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.90E-08**	**4.00E-08**	**-2.20E-08**	**-3.40E-07**	**-3.30E-07**	**-3.30E-07**	**-2.50E-07**	**-2.30E-07**

Licensee Comments:

4Q/09: PRA Model update in 3Q09 effective for this reporting quarter.

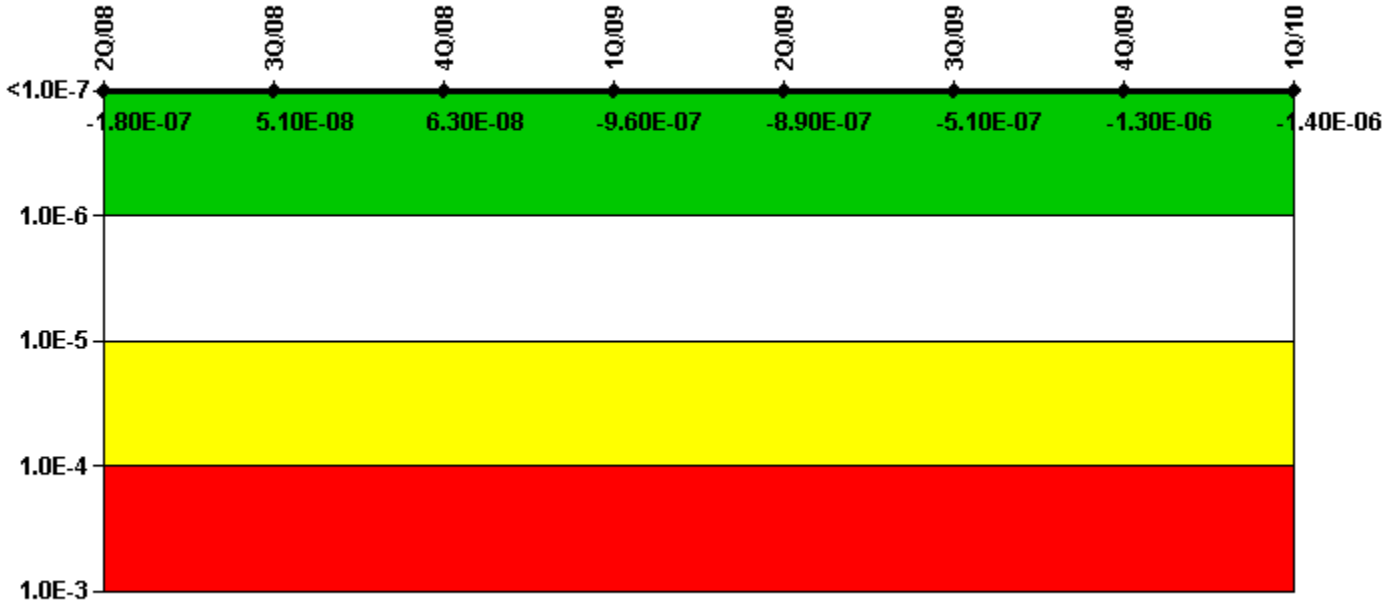
4Q/09: PRA Model update in 3Q09 effective for this reporting quarter.

2Q/08: Based on NEI 99-02 Rev 6 (F 2.2.2 - Failures, Treatment of Demand and Run Failures) the failure (541) involved in this event (modes 4 - 3) would not have affected the ability of the component to perform it's monitored at power function.

2Q/08: Based on NEI 99-02 Rev 6 (F 2.2.2 - Failures, Treatment of Demand and Run Failures) the failure (541) involved in this event (modes 4 - 3) would not have affected the ability of the component to perform it's monitored at power function.

2Q/06: Notified by INPO on 10/2/06 tha the CDF current value was going to be altered due to data conversion from MSPI calculator to CDE. Calculator allowed an additional decimal place. This conversion altered the CDF value.

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/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	5.45E-07	7.78E-07	7.87E-07	-2.22E-07	-1.56E-07	2.20E-07	7.65E-08	4.71E-08
URI (ΔCDF)	-7.29E-07	-7.27E-07	-7.24E-07	-7.35E-07	-7.36E-07	-7.33E-07	-1.42E-06	-1.42E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-07**	**5.10E-08**	**6.30E-08**	**-9.60E-07**	**-8.90E-07**	**-5.10E-07**	**-1.30E-06**	**-1.40E-06**

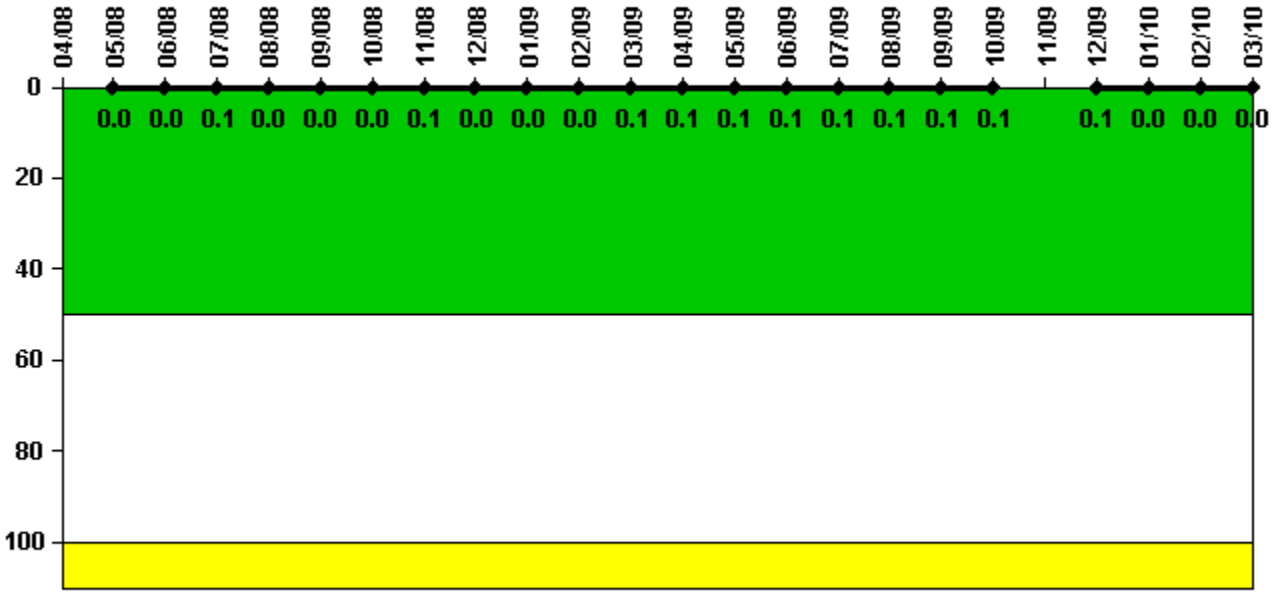
Licensee Comments:

4Q/09: PRA Model update in 3Q09 effective for this reporting quarter.

3Q/06: Risk Cap Invoked.

2Q/06: Risk Cap Invoked.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

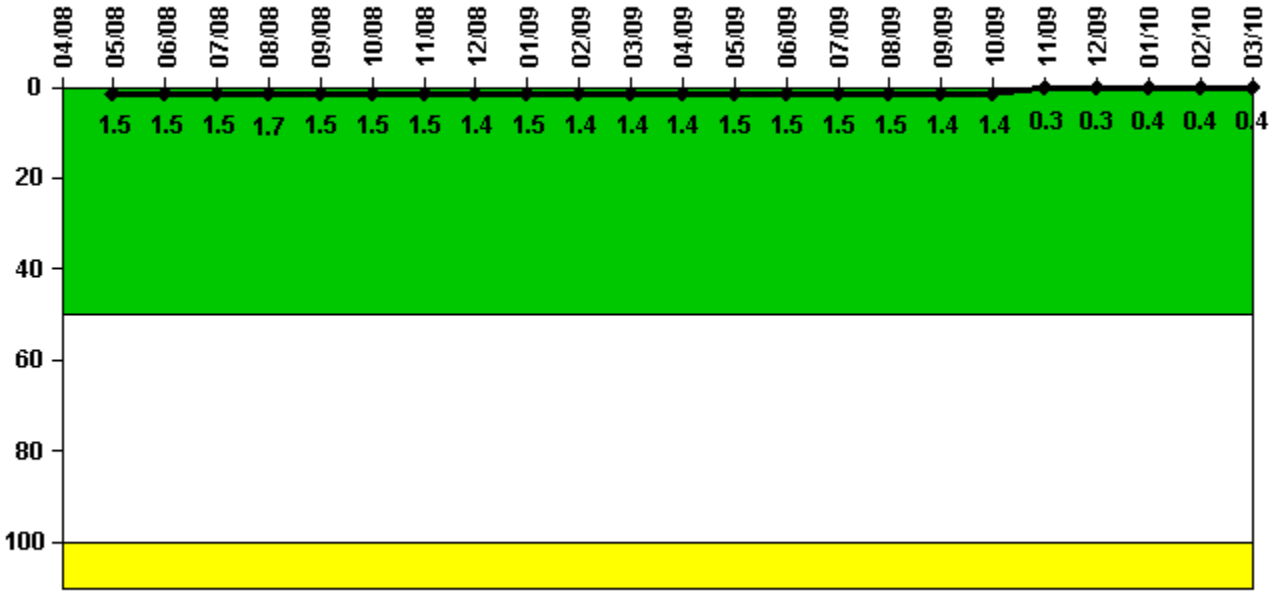
Notes

Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	N/A	0.000300	0.000300	0.000700	0.000300	0.000300	0.000400	0.000500	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	**N/A**	**0**	**0**	**0.1**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0**	**0.1**

Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	0.000500	0.000500	0.000500	0.000500	0.000600	0.000600	0.000600	N/A	0.000600	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	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

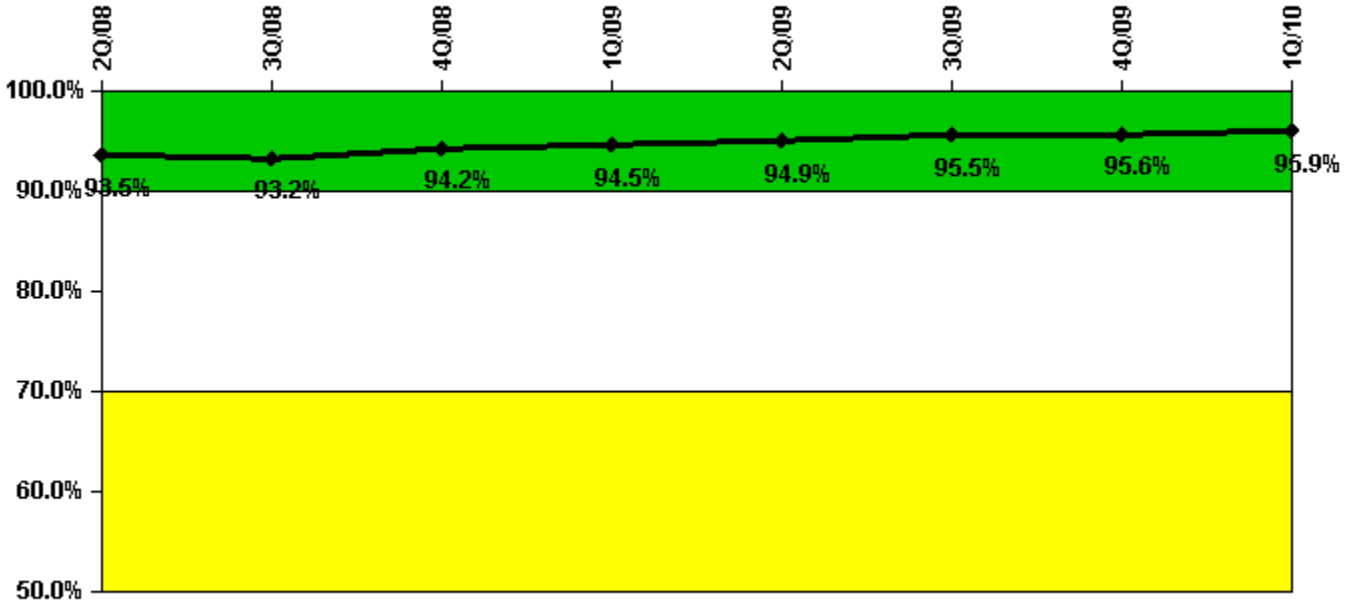
Notes

Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	N/A	0.150	0.150	0.150	0.170	0.150	0.150	0.150	0.140	0.150	0.140	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	**N/A**	**1.5**	**1.5**	**1.5**	**1.7**	**1.5**	**1.5**	**1.5**	**1.4**	**1.5**	**1.4**	**1.4**

Reactor Coolant System Leakage	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum leakage	0.140	0.150	0.150	0.150	0.150	0.140	0.140	0.030	0.030	0.040	0.040	0.040
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	**1.4**	**1.5**	**1.5**	**1.5**	**1.5**	**1.4**	**1.4**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**

Licensee Comments: none

Drill/Exercise Performance



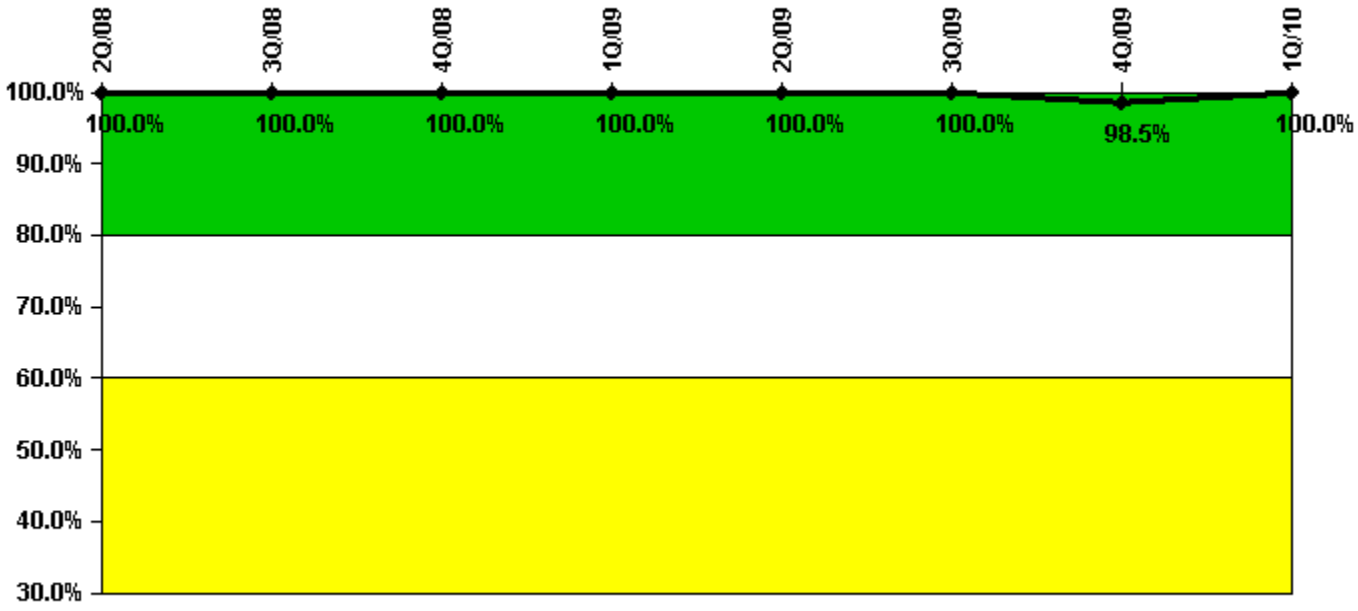
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	2.0	49.0	224.0	27.0	66.0	39.0	1.0	128.0
Total opportunities	2.0	56.0	232.0	27.0	69.0	40.0	2.0	131.0
Indicator value	**93.5%**	**93.2%**	**94.2%**	**94.5%**	**94.9%**	**95.5%**	**95.6%**	**95.9%**

Licensee Comments: none

ERO Drill Participation



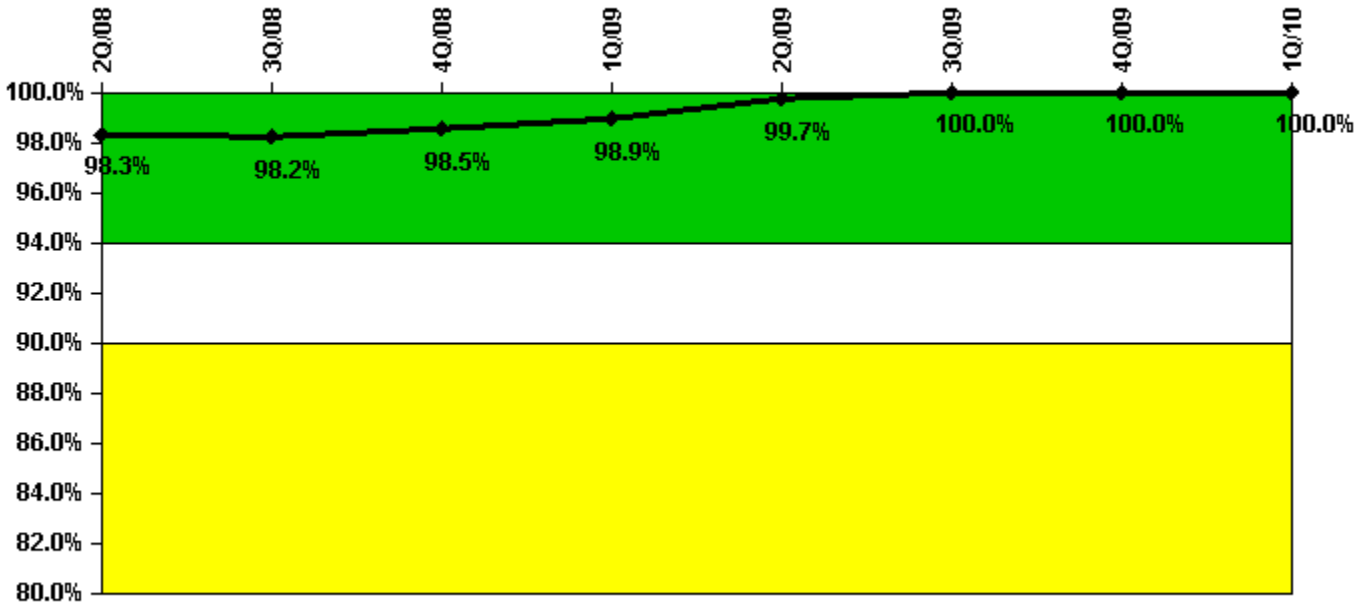
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	62.0	65.0	64.0	67.0	65.0	65.0	64.0	69.0
Total Key personnel	62.0	65.0	64.0	67.0	65.0	65.0	65.0	69.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.5%**	**100.0%**

Licensee Comments: none

Alert & Notification System



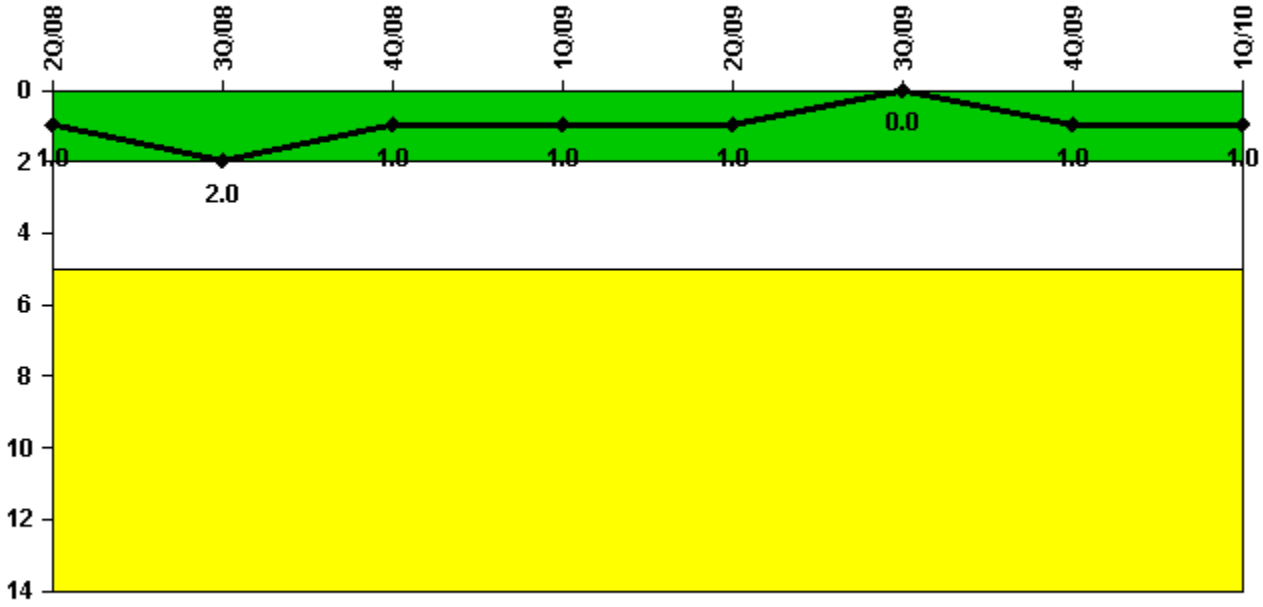
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	64	65	66	77	77	66	77	77
Total sirens-tests	66	66	66	77	77	66	77	77
Indicator value	**98.3%**	**98.2%**	**98.5%**	**98.9%**	**99.7%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness



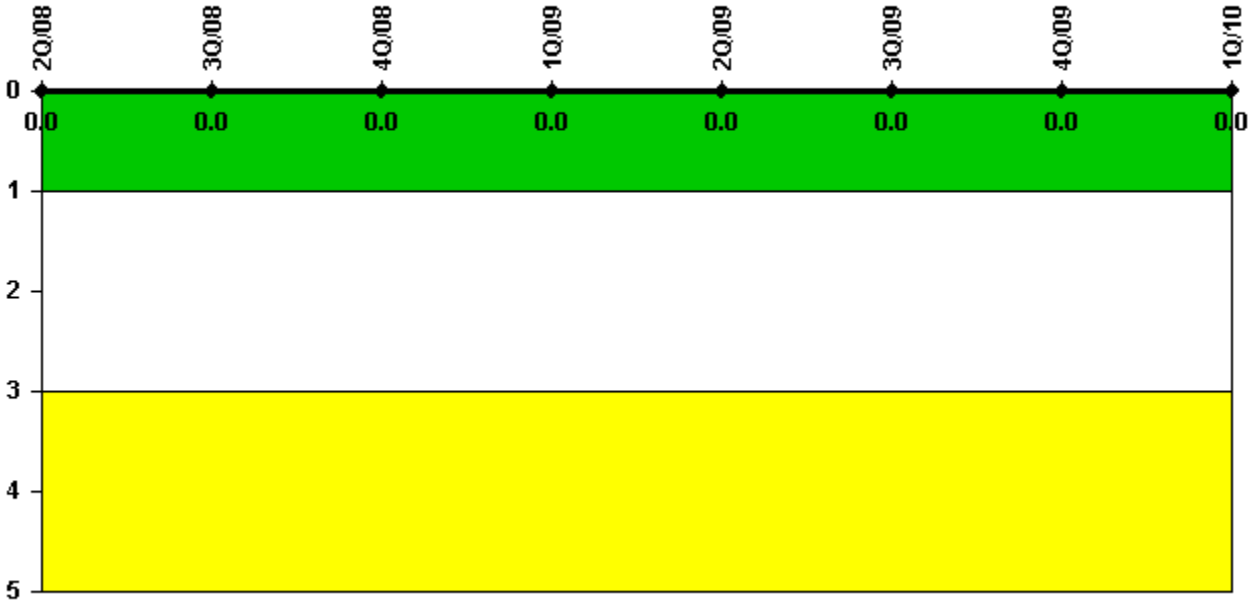
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
High radiation area occurrences	0	1	0	0	0	0	1	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	**1**	**2**	**1**	**1**	**1**	**0**	**1**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
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: June 2, 2010