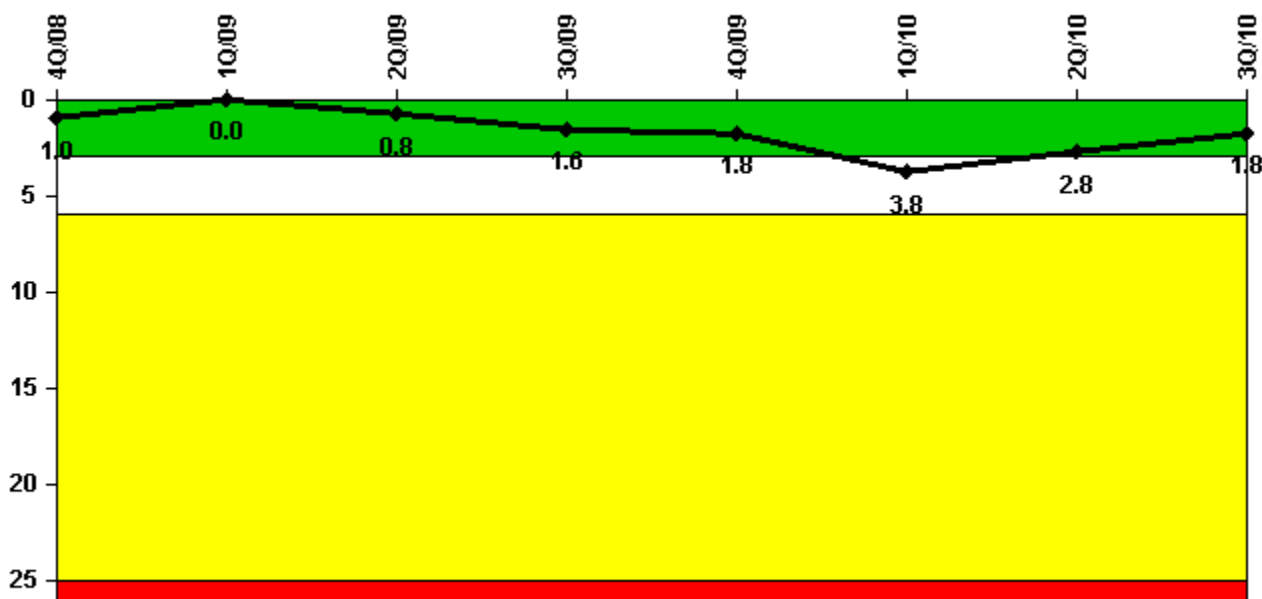


Wolf Creek 1

3Q/2010 Performance Indicators

Licensee's General Comments: 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.

Unplanned Scrams per 7000 Critical Hrs



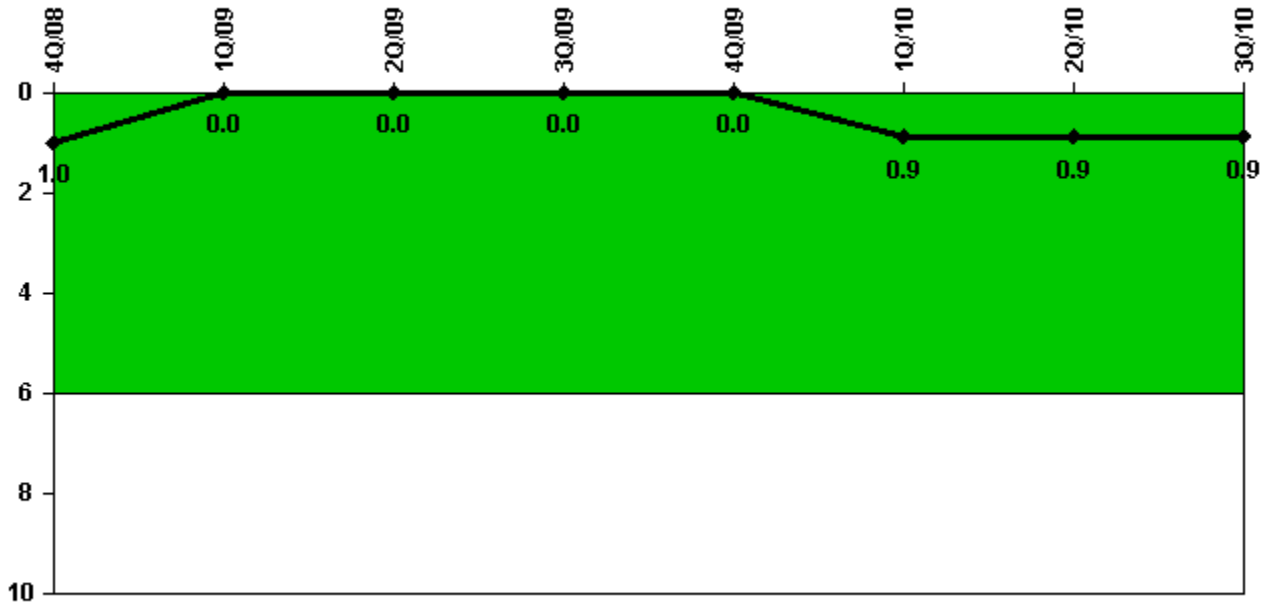
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned scrams	0	0	1.0	1.0	0	2.0	0	0
Critical hours	2209.0	2159.0	2126.9	2115.9	1207.1	2005.2	2184.0	2208.0
Indicator value	1.0	0	0.8	1.6	1.8	3.8	2.8	1.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



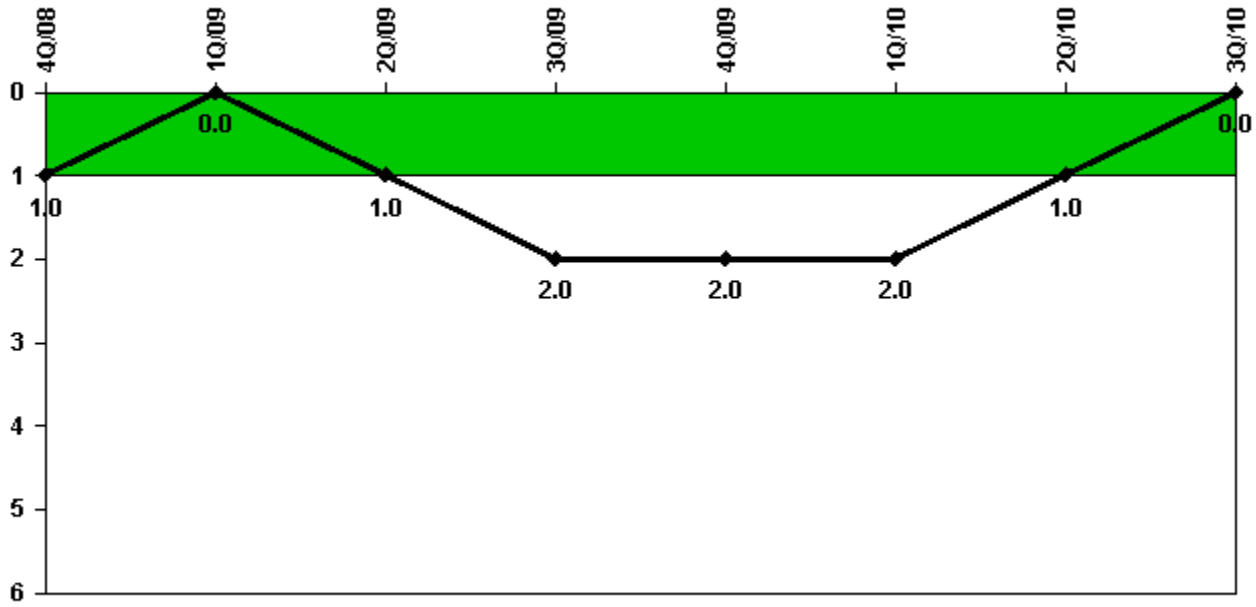
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2209.0	2159.0	2126.9	2115.9	1207.1	2005.2	2184.0	2208.0
Indicator value	1.0	0	0	0	0	0.9	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



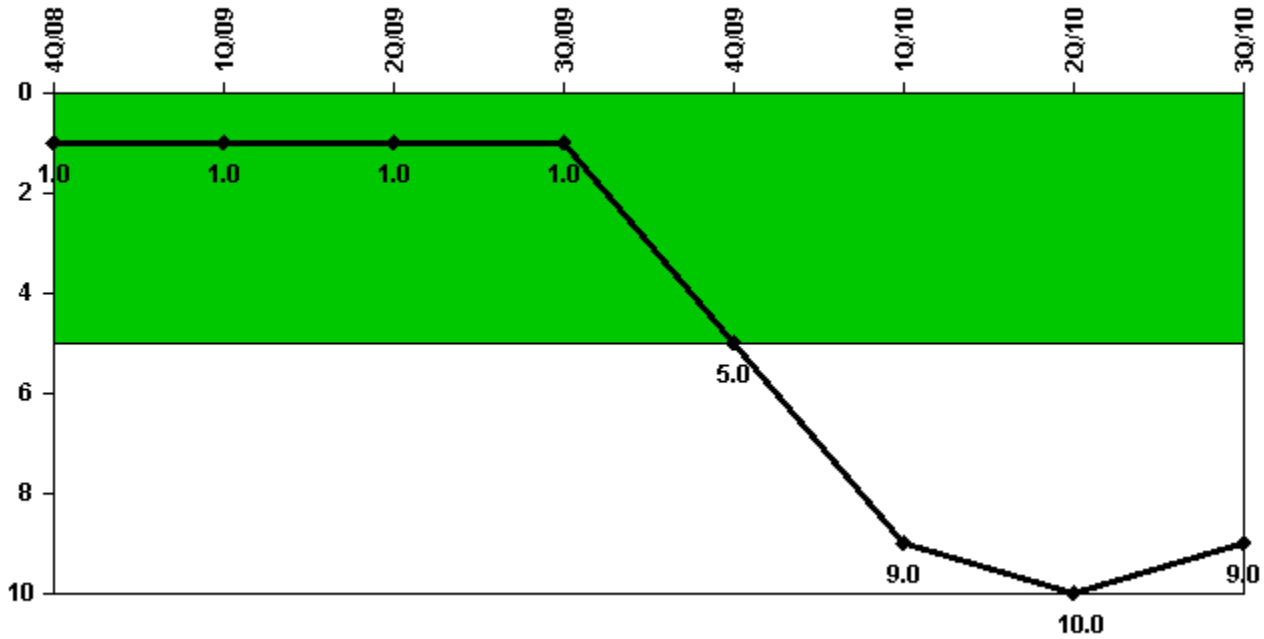
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

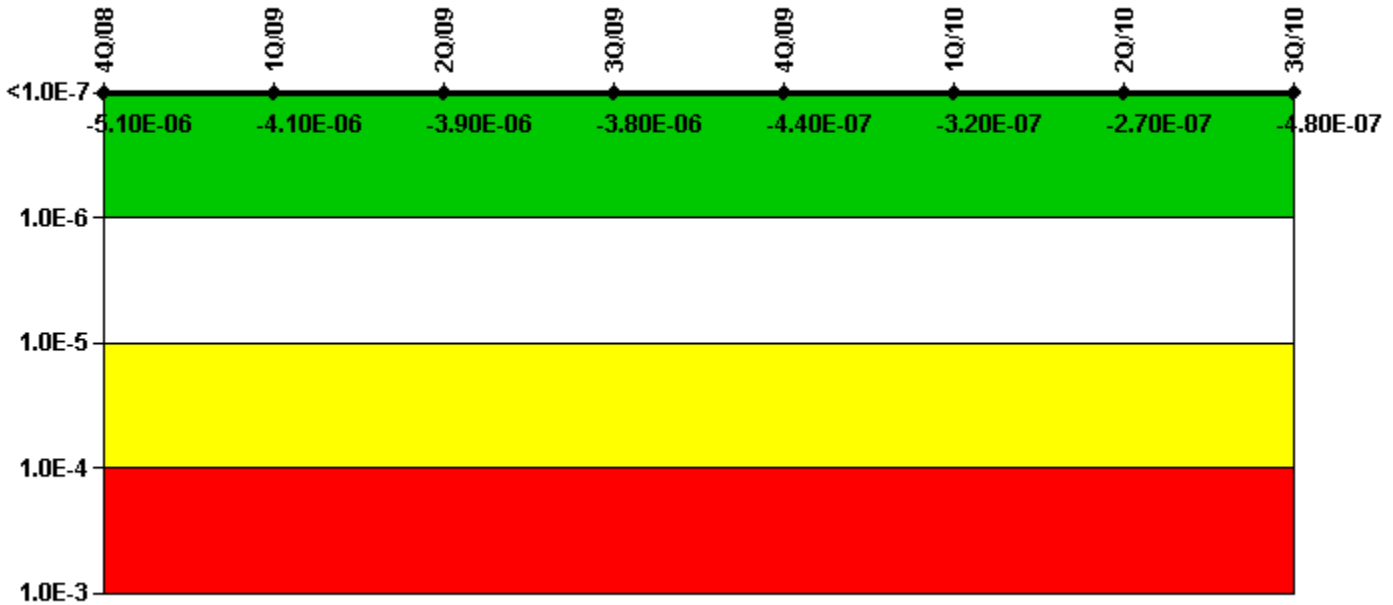
Notes

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

Licensee Comments:

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 Tavq 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

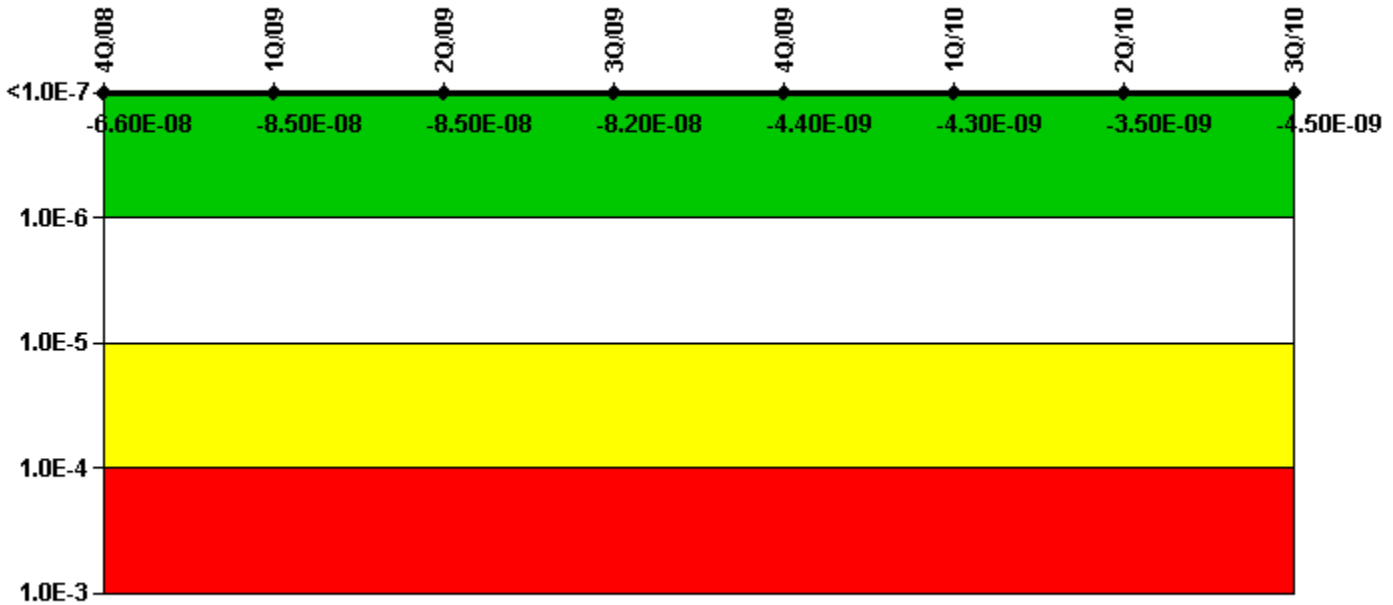
Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	8.06E-07	1.97E-06	2.16E-06	2.41E-06	8.18E-07	9.58E-07	1.00E-06	8.16E-07
URI (Δ CDF)	-5.95E-06	-6.07E-06	-6.10E-06	-6.21E-06	-1.26E-06	-1.28E-06	-1.28E-06	-1.30E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.10E-06	-4.10E-06	-3.90E-06	-3.80E-06	-4.40E-07	-3.20E-07	-2.70E-07	-4.80E-07

Licensee Comments:

3Q/10: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



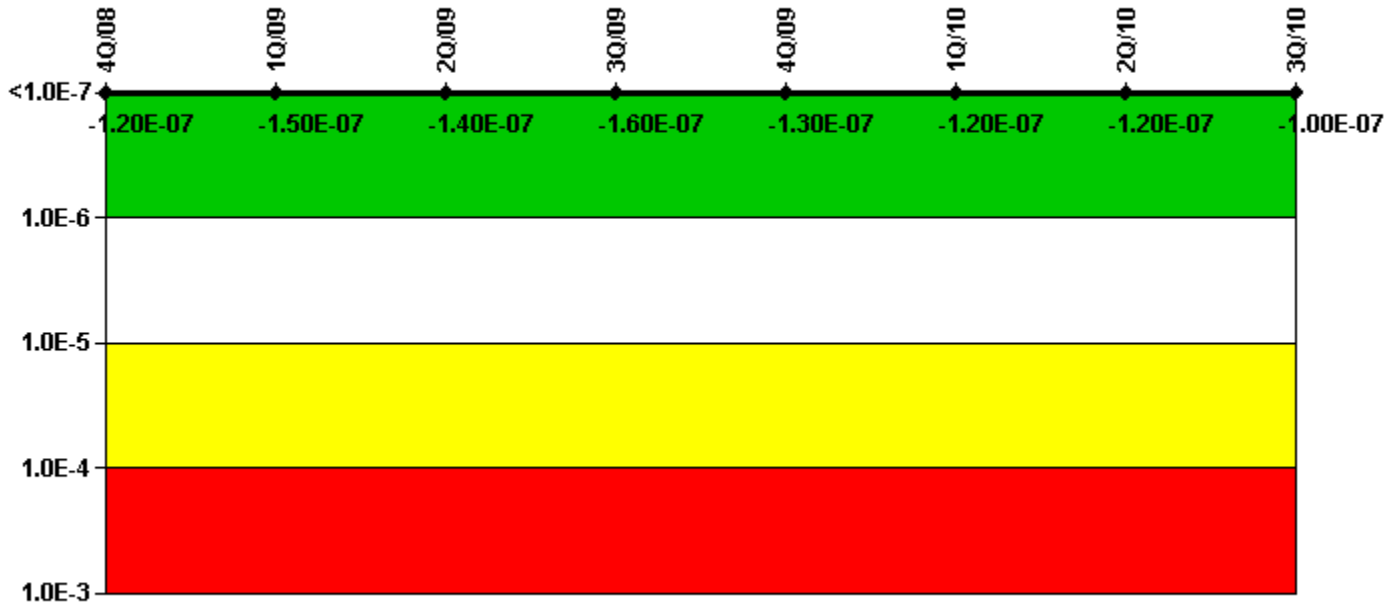
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	1.58E-08	-2.93E-09	-1.52E-09	1.90E-09	-2.18E-09	-2.13E-09	-2.14E-09	-2.08E-09
URI (Δ CDF)	-8.23E-08	-8.22E-08	-8.35E-08	-8.35E-08	-2.21E-09	-2.22E-09	-1.37E-09	-2.44E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.60E-08	-8.50E-08	-8.50E-08	-8.20E-08	-4.40E-09	-4.30E-09	-3.50E-09	-4.50E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



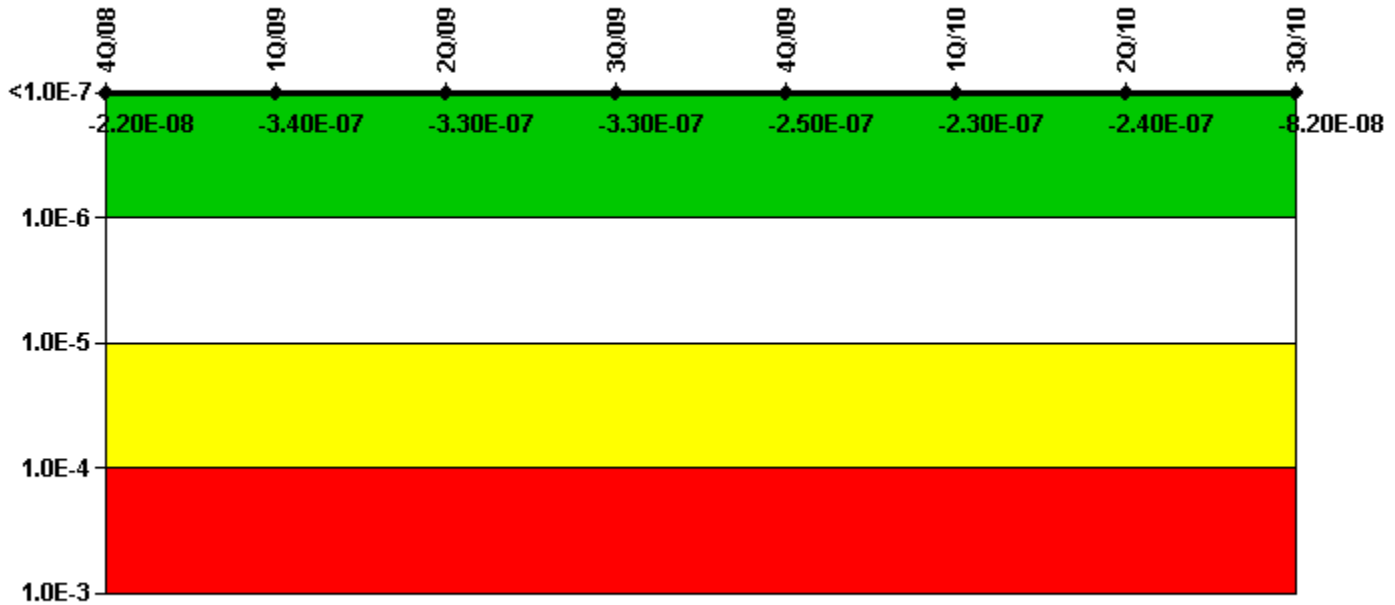
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	$3.95E-08$	$1.18E-08$	$9.44E-09$	$-6.15E-10$	$8.61E-10$	$5.82E-09$	$9.14E-09$	$3.08E-08$
URI (Δ CDF)	$-1.61E-07$	$-1.60E-07$	$-1.54E-07$	$-1.61E-07$	$-1.26E-07$	$-1.28E-07$	$-1.28E-07$	$-1.30E-07$
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	$-1.20E-07$	$-1.50E-07$	$-1.40E-07$	$-1.60E-07$	$-1.30E-07$	$-1.20E-07$	$-1.20E-07$	$-1.00E-07$

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



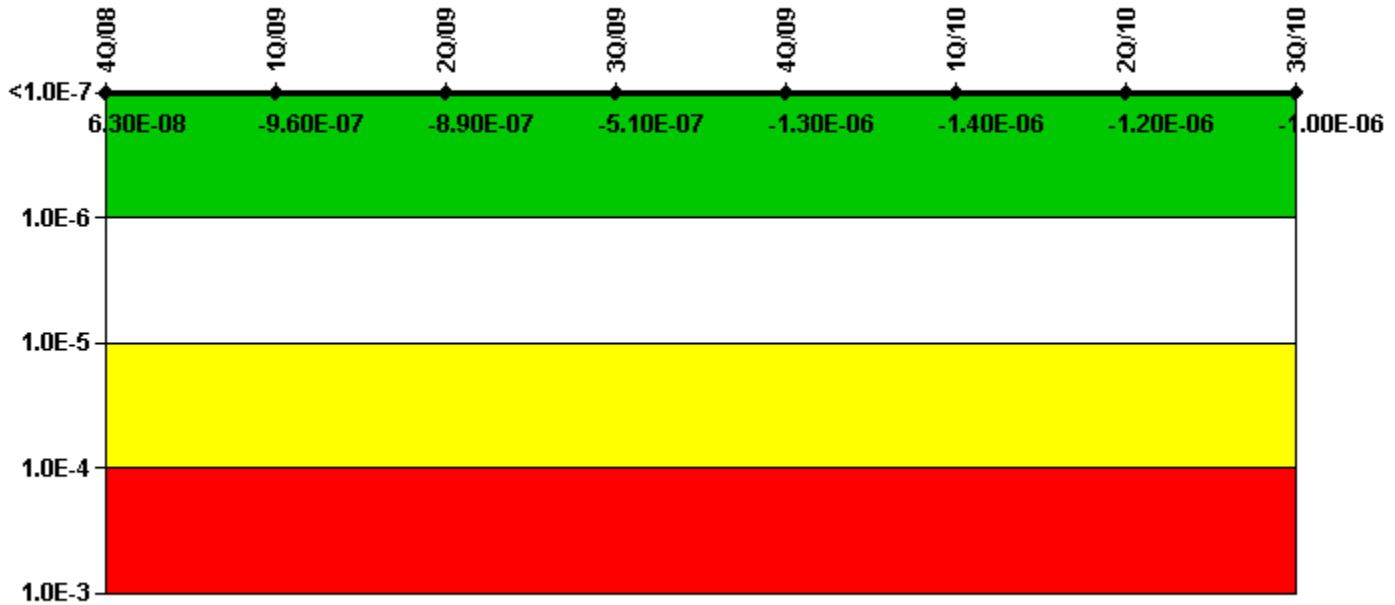
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	2.64E-07	-5.21E-08	-4.51E-08	-3.68E-08	-1.56E-08	2.29E-09	-6.74E-09	1.70E-07
URI (Δ CDF)	-2.86E-07	-2.86E-07	-2.87E-07	-2.91E-07	-2.30E-07	-2.32E-07	-2.36E-07	-2.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-3.40E-07	-3.30E-07	-3.30E-07	-2.50E-07	-2.30E-07	-2.40E-07	-8.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



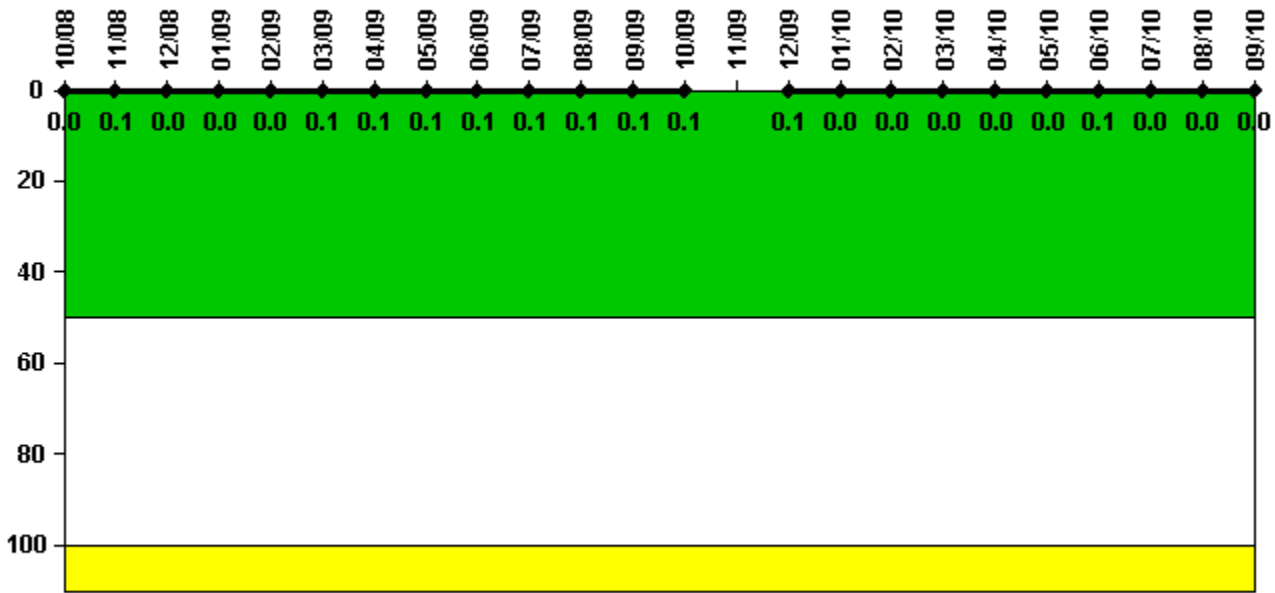
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	7.87E-07	-2.22E-07	-1.56E-07	2.20E-07	7.65E-08	4.71E-08	2.64E-07	4.26E-07
URI (Δ CDF)	-7.24E-07	-7.35E-07	-7.36E-07	-7.33E-07	-1.42E-06	-1.42E-06	-1.43E-06	-1.44E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.30E-08	-9.60E-07	-8.90E-07	-5.10E-07	-1.30E-06	-1.40E-06	-1.20E-06	-1.00E-06

Licensee Comments: none

Reactor Coolant System Activity



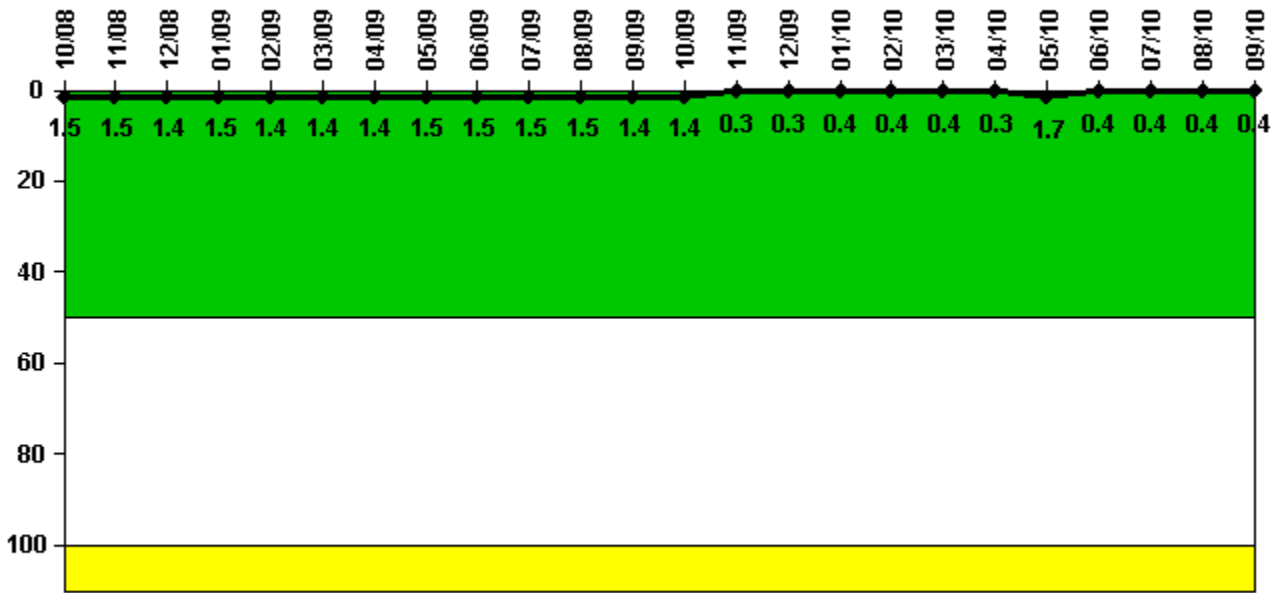
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum activity	0.000400	0.000500	0.000400	0.000400	0.000400	0.000500	0.000500	0.000500	0.000500	0.000500	0.000600	0.000600
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	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum activity	0.000600	N/A	0.000600	0.000300	0.000300	0.000300	0.000300	0.000400	0.000500	0.000400	0.000400	0.000400
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	N/A	0.1	0	0	0	0	0	0.1	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



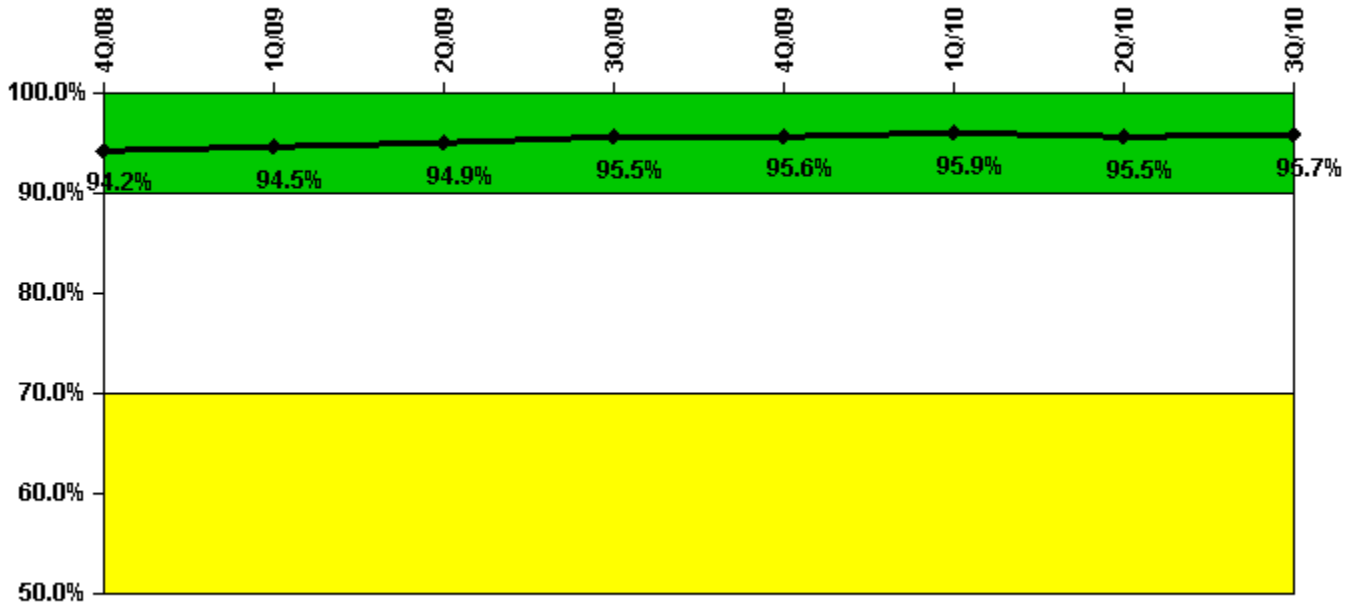
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum leakage	0.150	0.150	0.140	0.150	0.140	0.140	0.140	0.150	0.150	0.150	0.150	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	1.5	1.5	1.4	1.5	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.4
Reactor Coolant System Leakage	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum leakage	0.140	0.030	0.030	0.040	0.040	0.040	0.030	0.170	0.040	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	0.3	0.3	0.4	0.4	0.4	0.3	1.7	0.4	0.4	0.4	0.4

Licensee Comments: none

Drill/Exercise Performance



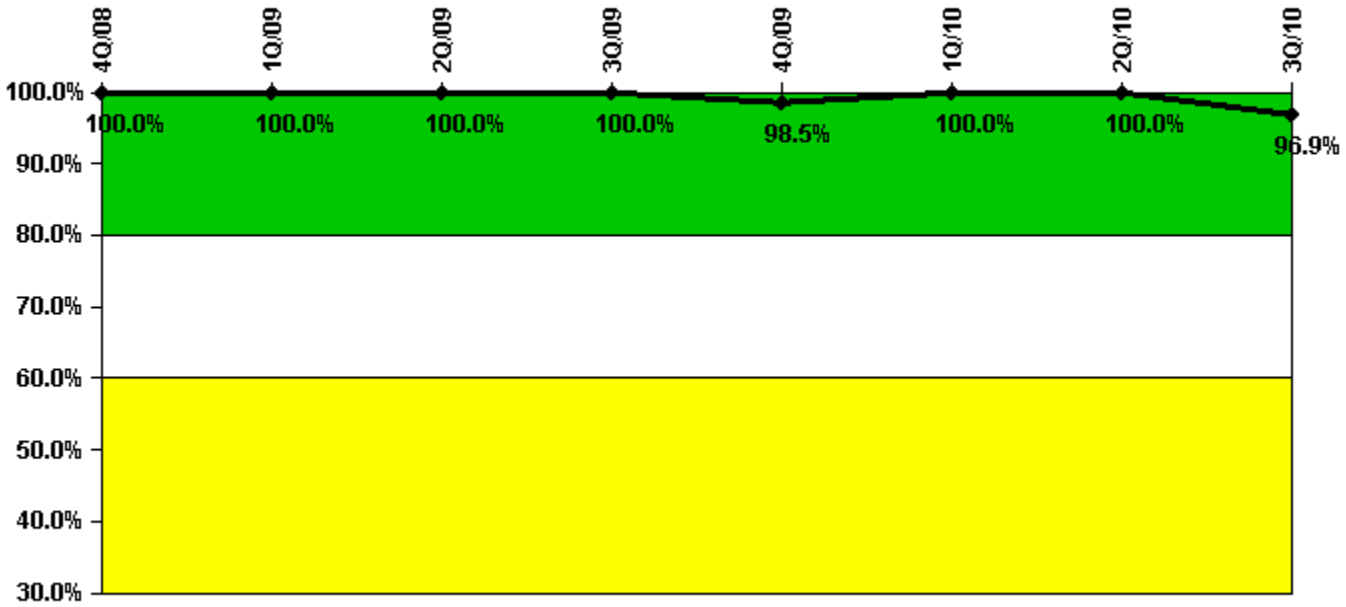
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful opportunities	224.0	27.0	66.0	39.0	1.0	128.0	37.0	31.0
Total opportunities	232.0	27.0	69.0	40.0	2.0	131.0	41.0	36.0
Indicator value	94.2%	94.5%	94.9%	95.5%	95.6%	95.9%	95.5%	95.7%

Licensee Comments: none

ERO Drill Participation



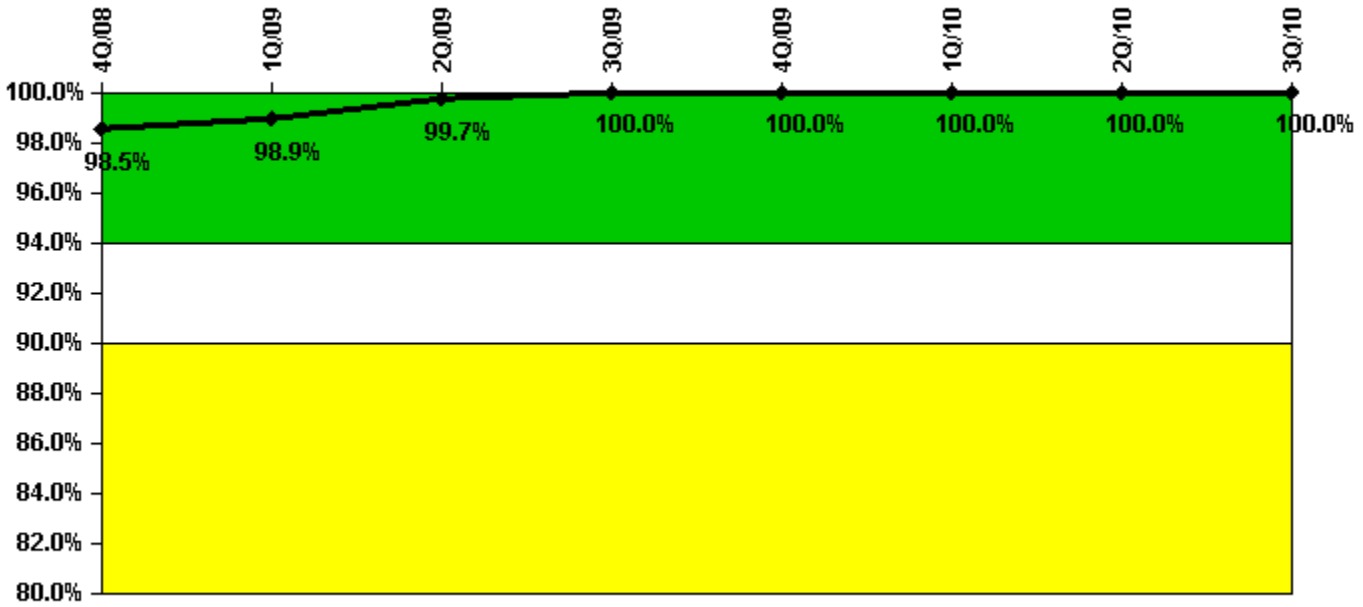
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Participating Key personnel	64.0	67.0	65.0	65.0	64.0	69.0	66.0	63.0
Total Key personnel	64.0	67.0	65.0	65.0	65.0	69.0	66.0	65.0
Indicator value	100.0%	100.0%	100.0%	100.0%	98.5%	100.0%	100.0%	96.9%

Licensee Comments: none

Alert & Notification System



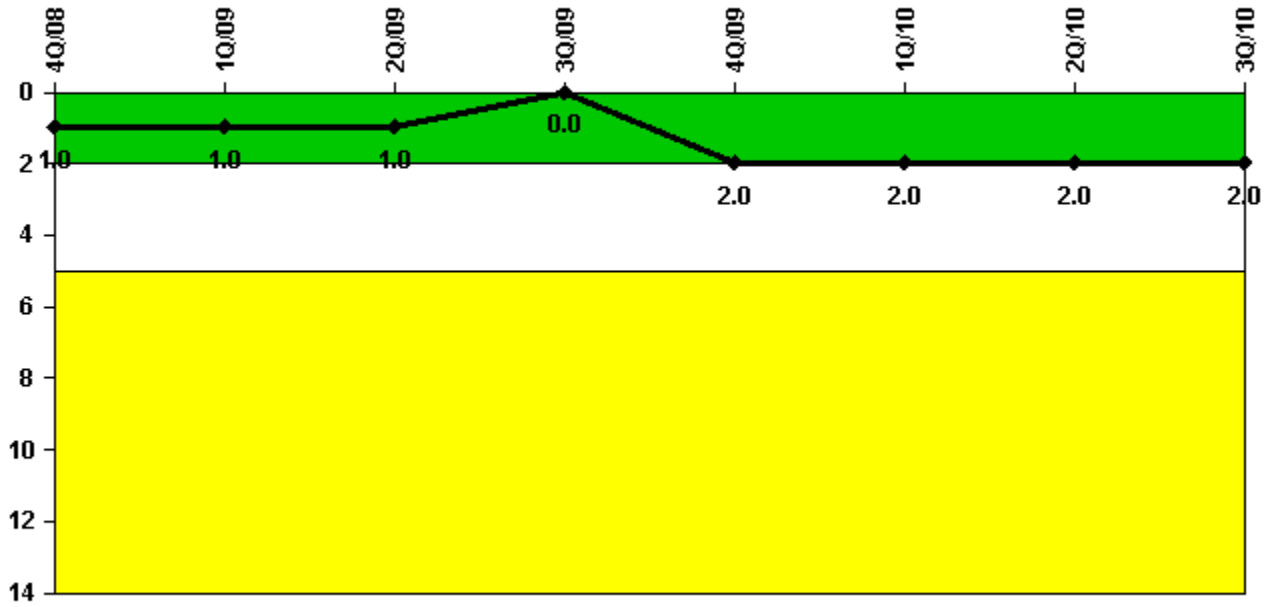
Thresholds: White < 94.0% Yellow < 90.0%

Notes

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

Licensee Comments: none

Occupational Exposure Control Effectiveness



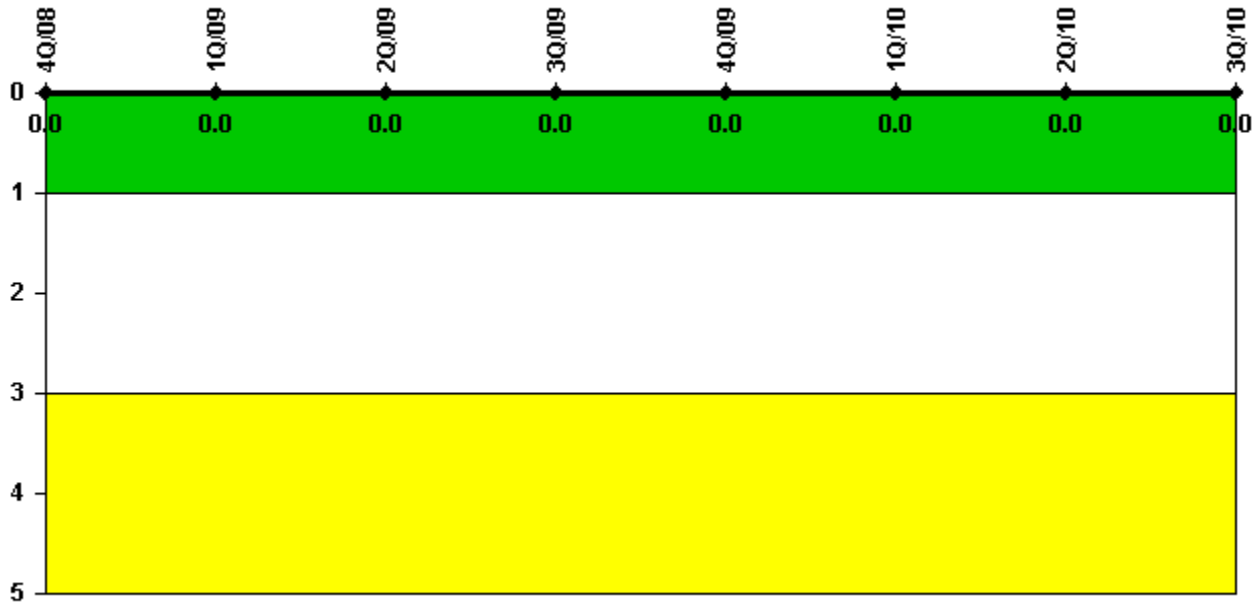
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/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.