

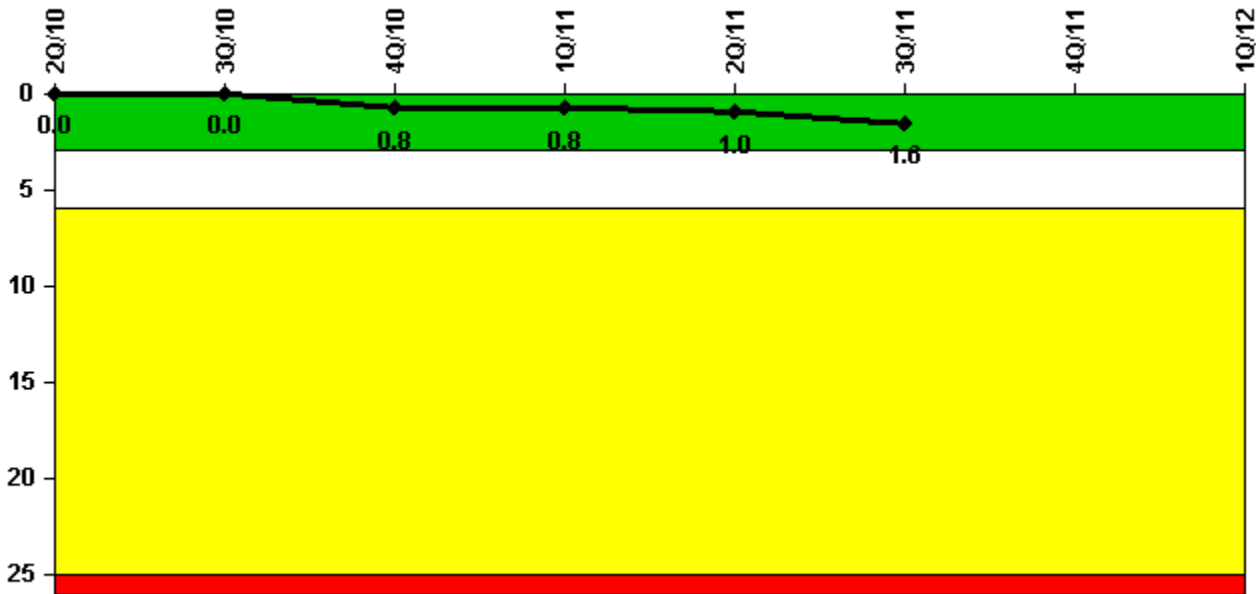
Fort Calhoun

1Q/2012 Performance Indicators

Fort Calhoun has been shutdown since April 2011. Because the Unplanned Scrams with Complications (USwC) and Mitigating Systems Performance Index (MSPI) performance indicators (PIs) are heavily influenced by the operational status of the reactor, NRC staff has evaluated the validity of these PIs. Because the reactor has not been critical, there have been no recent opportunities for a scram that would count in the USwC indicator. Similarly, the MSPI values can become skewed because of a lack of critical hours. For these reasons, the staff has determined that these PIs no longer provide valid indications of performance.

Licensee's General Comments: LER 2011-006, "Inoperability of Both Trains of Containment Coolers Due to a Mispositioned Valve" was cancelled removing the item from earlier reporting.

Unplanned Scrams per 7000 Critical Hrs



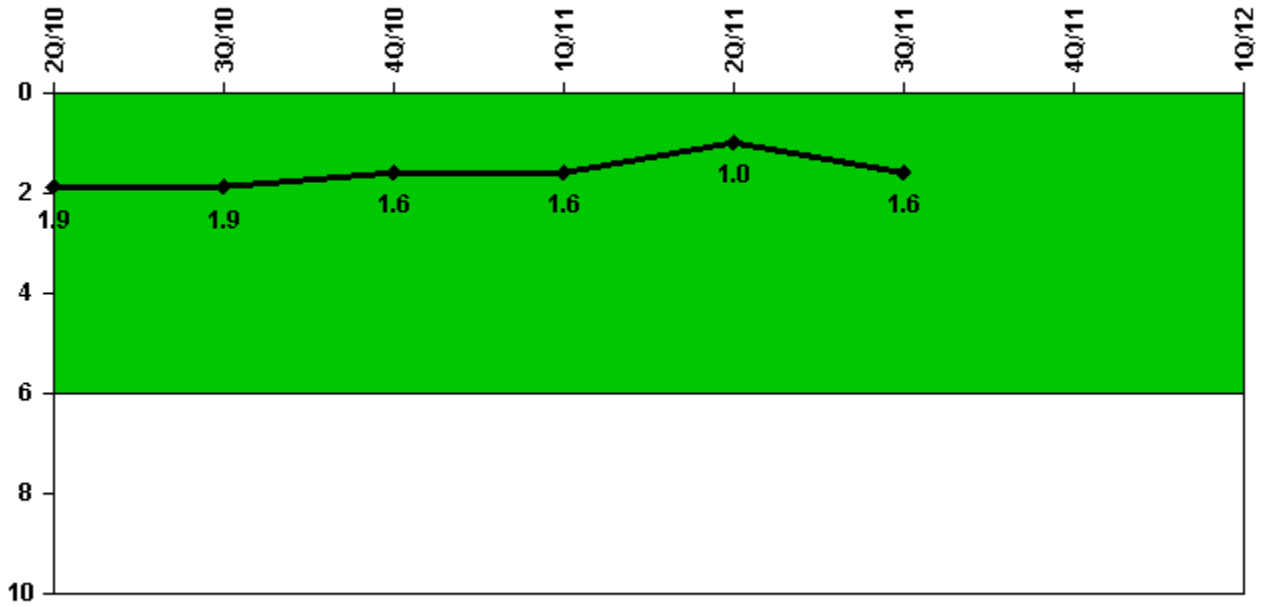
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0
Critical hours	2105.6	2208.0	2160.0	2135.4	215.8	0	0	0
Indicator value	0	0	0.8	0.8	1.0	1.6	N/A	N/A

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



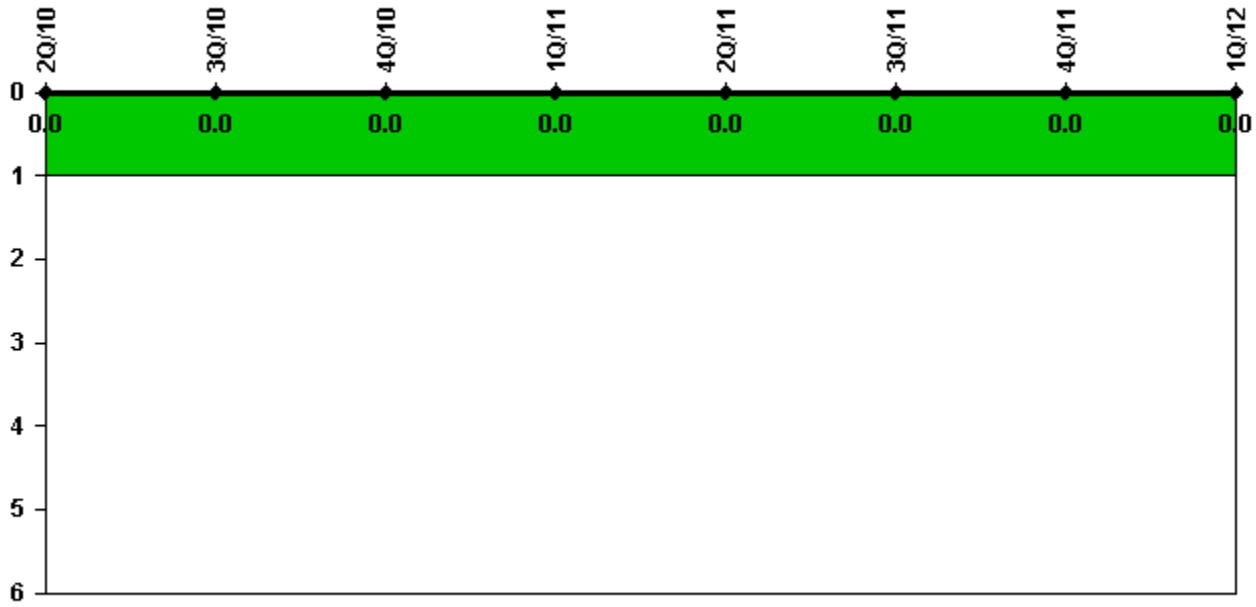
Thresholds: White > 6.0

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	1.0	0	1.0	0	0	0	0	0
Critical hours	2105.6	2208.0	2160.0	2135.4	215.8	0	0	0
Indicator value	1.9	1.9	1.6	1.6	1.0	1.6	N/A	N/A

Licensee Comments: none

Unplanned Scrams with Complications



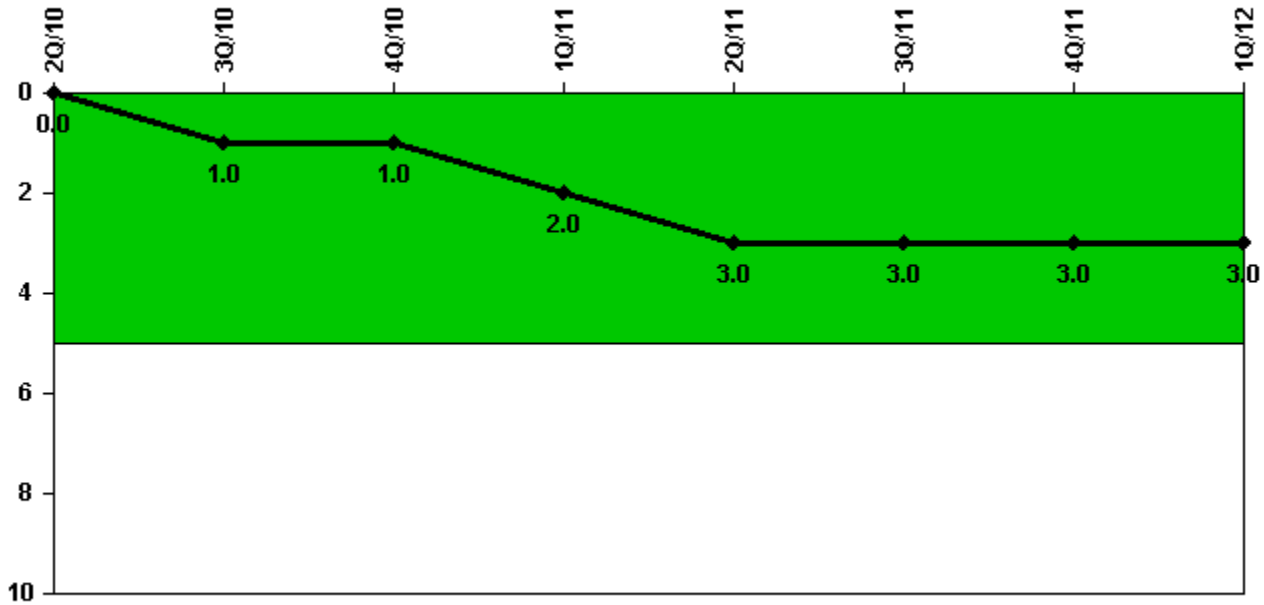
Thresholds: White > 1.0

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	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	0	1	0	1	1	1	0	1
Indicator value	0	1	1	2	3	3	3	3

Licensee Comments:

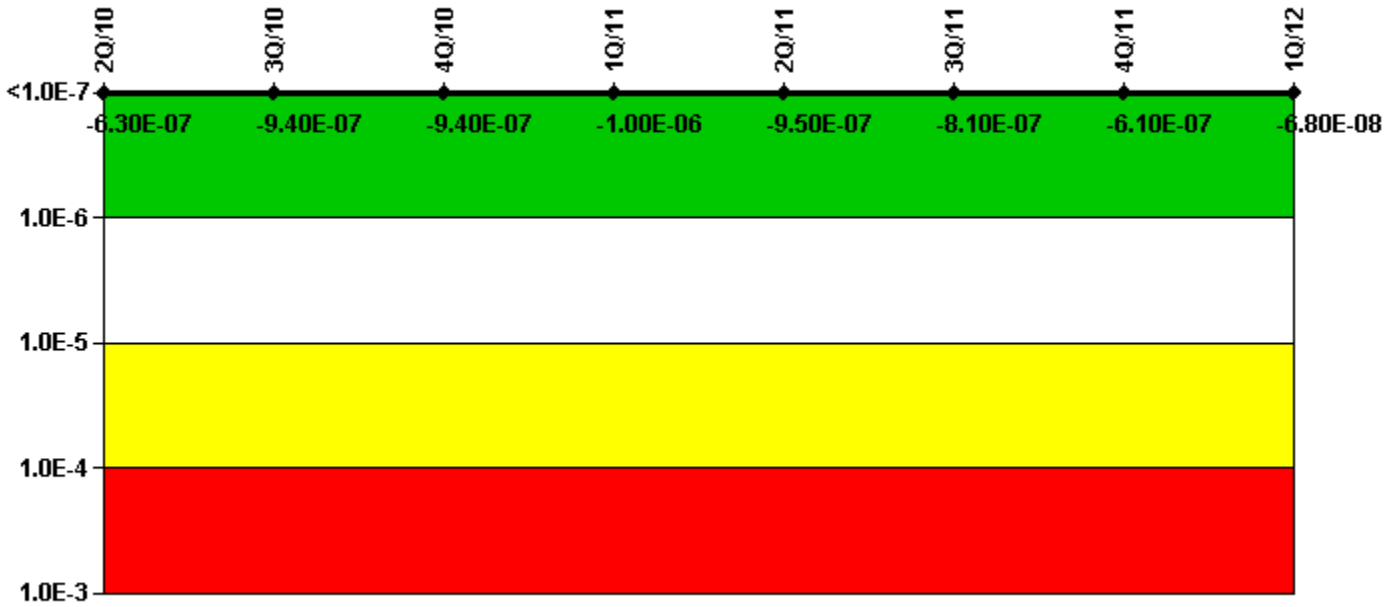
1Q/12: LER 2011-010, "Fire Causes a Circuit Breaker to Open Outside Design Assumptions" was issued January 2012 and LER 2011-006, "Inoperability of Both Trains of Containment Coolers Due to a Mispositioned Valve" was cancelled removing the item from earlier reporting.

3Q/11: The following information is being provided to correct an oversight in the original submittals. LER 2011-003, "Inadequate Flooding Protection Due To Ineffective Oversight," effective first quarter 2011. LER 2011-004, "Isolation of Both Trains of Safety Related Auxiliary Feedwater," effective second quarter 2011. LER 2011-006, "Inoperability of Both Trains of Containment Coolers Due to a Mispositioned Valve," effective second quarter 2011. LER 2011-008, "Fire in Safety Related 480 Volt Electrical Bus" effective third quarter 2011.

1Q/11: LER 2011-001 "Inadequate Flooding Protection Due To Ineffective Oversight"

3Q/10: LER 2010-003, "Inadequate Margin Renders Auxiliary Feedwater Pump Inoperable"

Mitigating Systems Performance Index, Emergency AC Power System



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

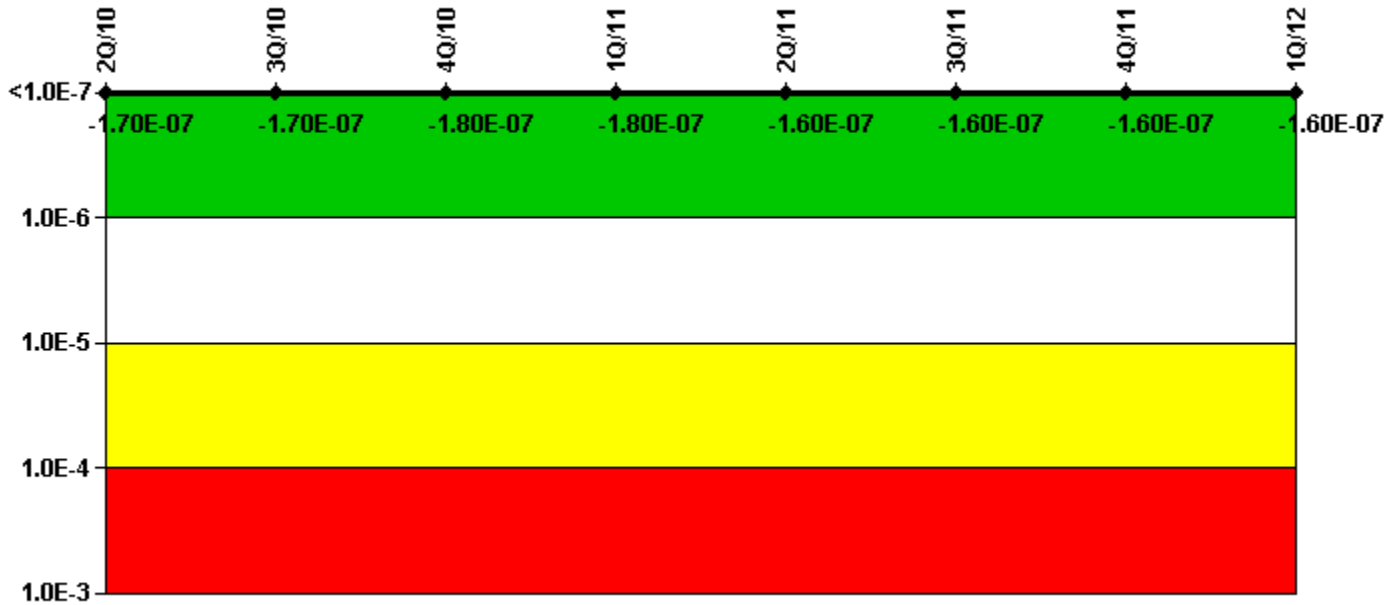
Notes

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 (Δ CDF)	5.46E-07	1.93E-07	1.76E-07	1.89E-08	4.38E-08	1.14E-07	2.86E-07	3.94E-07
URI (Δ CDF)	-1.18E-06	-1.13E-06	-1.11E-06	-1.01E-06	-9.90E-07	-9.27E-07	-8.99E-07	-4.62E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.30E-07	-9.40E-07	-9.40E-07	-1.00E-06	-9.50E-07	-8.10E-07	-6.10E-07	-6.80E-08

Licensee Comments:

1Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



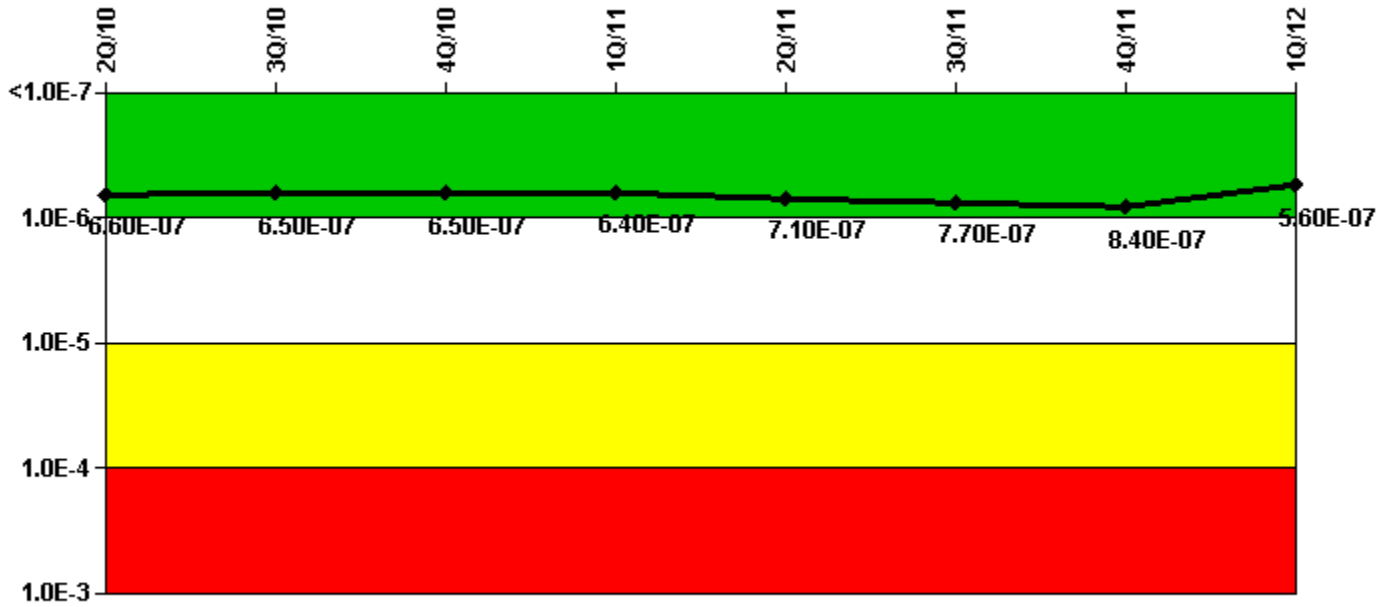
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	-8.98E-08	-8.92E-08	-8.90E-08	-8.65E-08	-6.91E-08	-7.33E-08	-7.07E-08	-7.03E-08
URI (Δ CDF)	-8.21E-08	-8.46E-08	-9.21E-08	-9.22E-08	-9.10E-08	-9.02E-08	-8.96E-08	-8.93E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.60E-07	-1.60E-07	-1.60E-07	-1.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



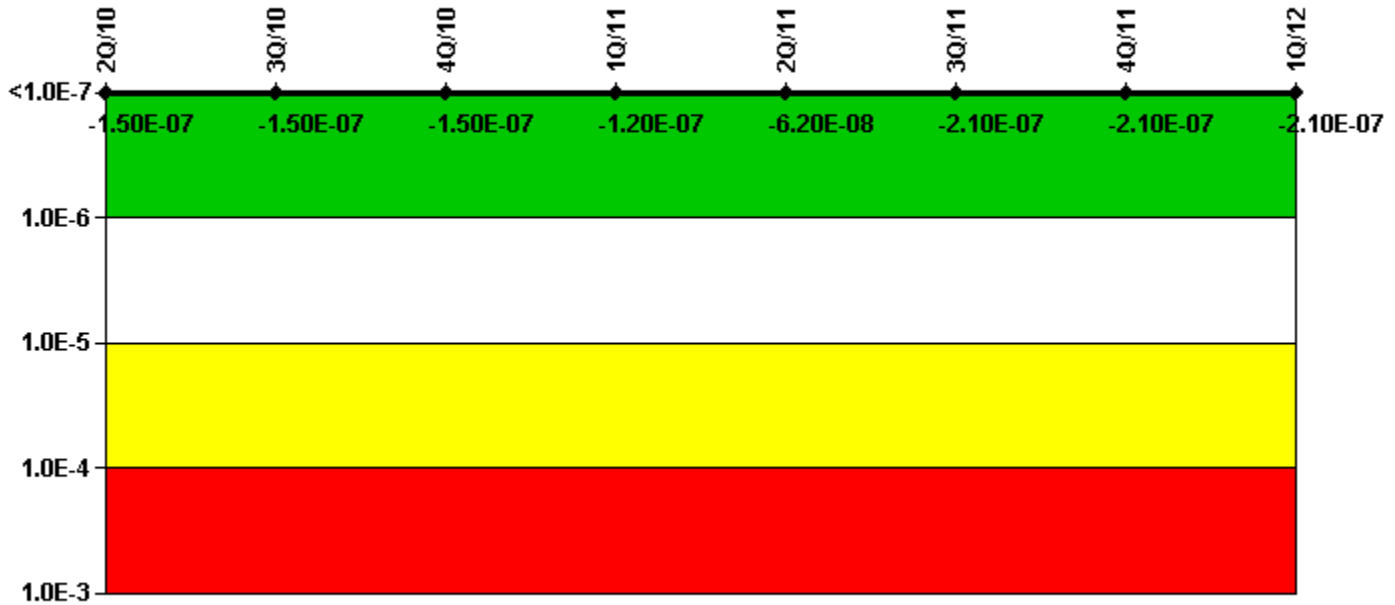
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	4.54E-09	-1.38E-09	-6.39E-09	-3.49E-08	-3.47E-08	-2.78E-08	-1.58E-08	-3.05E-08
URI (Δ CDF)	6.54E-07	6.47E-07	6.57E-07	6.77E-07	7.49E-07	7.95E-07	8.54E-07	5.92E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.60E-07	6.50E-07	6.50E-07	6.40E-07	7.10E-07	7.70E-07	8.40E-07	5.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



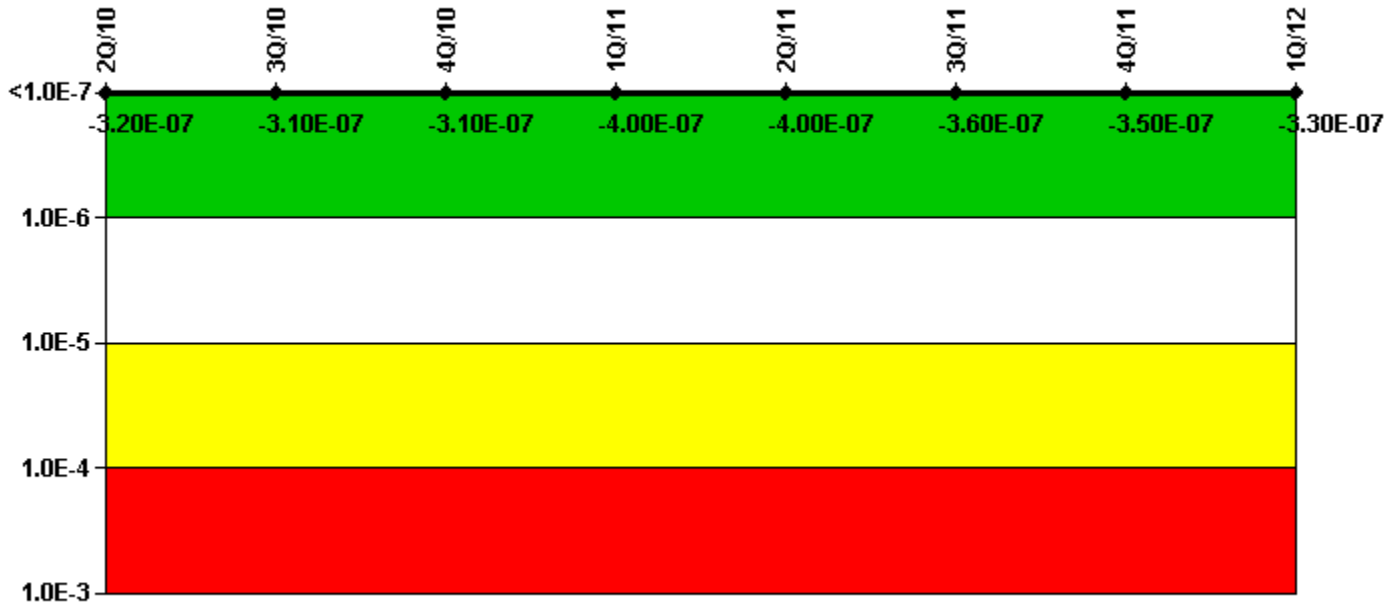
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-8.67E-08	-8.67E-08	-8.65E-08	-5.36E-08	3.84E-09	-1.48E-07	-1.45E-07	-1.43E-07
URI (Δ CDF)	-6.53E-08	-6.45E-08	-6.48E-08	-6.51E-08	-6.62E-08	-6.70E-08	-6.95E-08	-6.99E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-07	-1.50E-07	-1.50E-07	-1.20E-07	-6.20E-08	-2.10E-07	-2.10E-07	-2.10E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



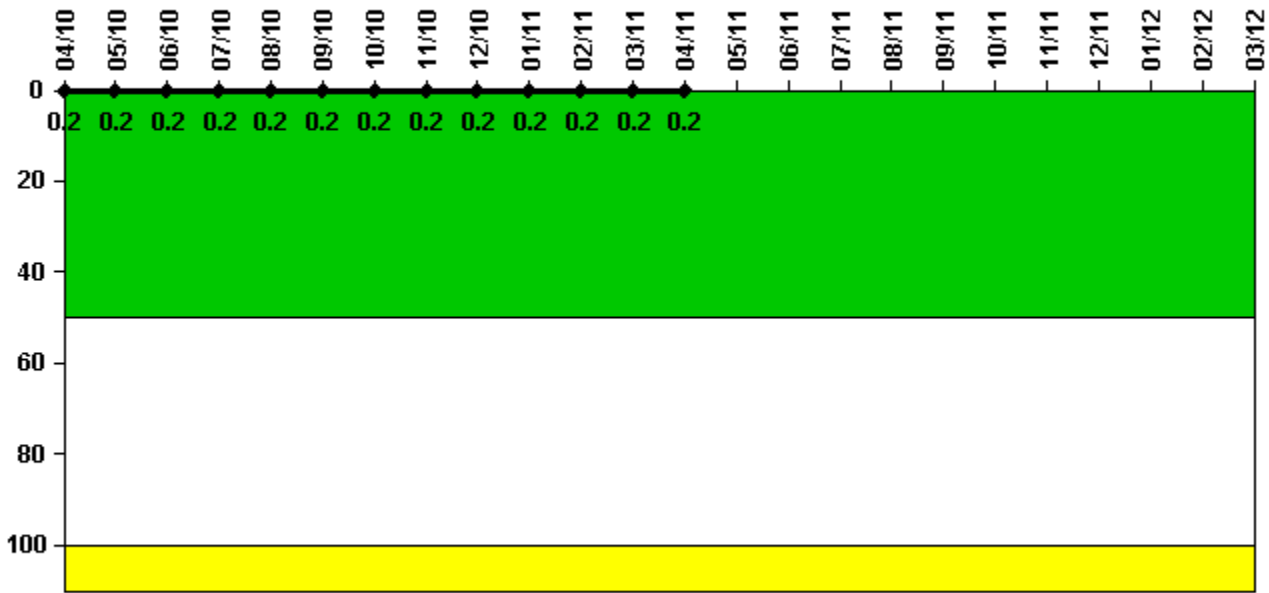
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	-3.22E-07	-3.14E-07	-2.95E-07	-3.52E-07	-3.53E-07	-3.17E-07	-3.09E-07	-2.85E-07
URI (Δ CDF)	4.58E-09	4.96E-09	-1.98E-08	-4.71E-08	-4.64E-08	-4.60E-08	-4.55E-08	-4.51E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.20E-07	-3.10E-07	-3.10E-07	-4.00E-07	-4.00E-07	-3.60E-07	-3.50E-07	-3.30E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

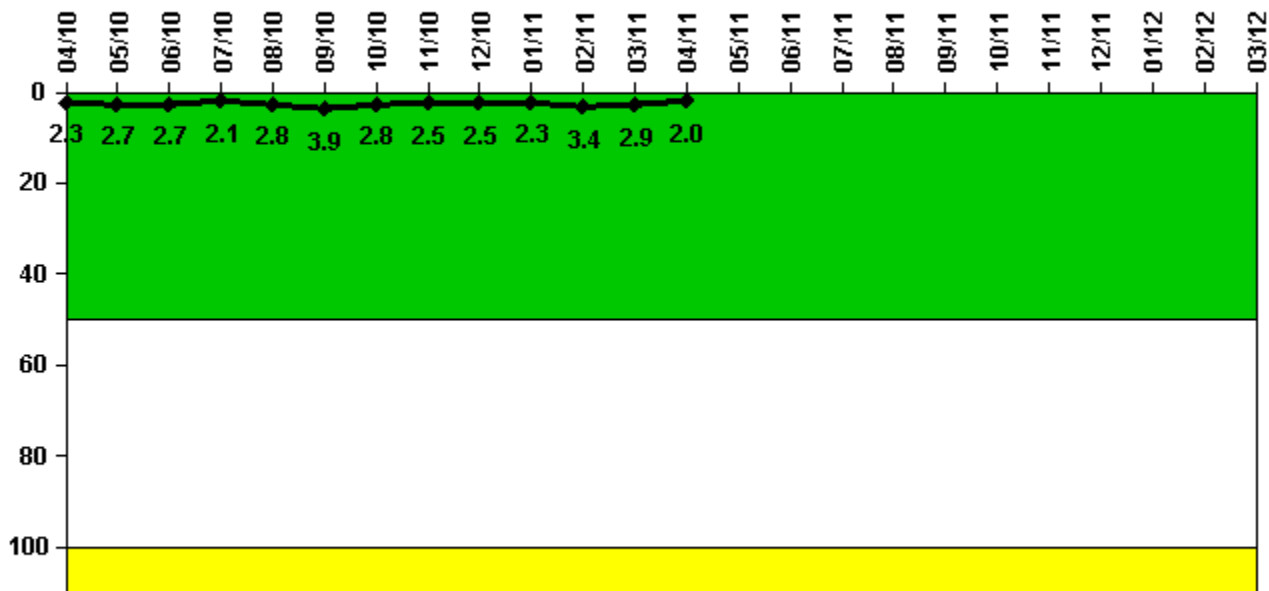
Notes

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	0.001710	0.001760	0.002170	0.001780	0.001950	0.001990	0.001960	0.002010	0.002140	0.002140	0.002110	0.002290
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

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	0.002090	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

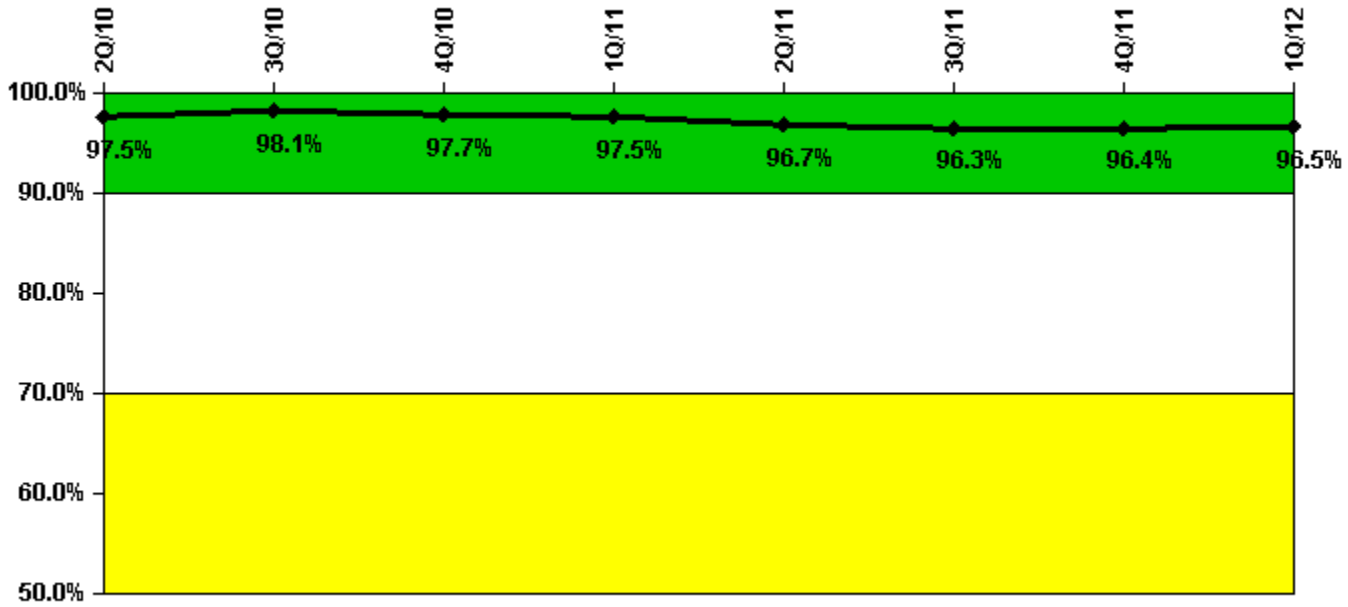
Notes

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	0.231	0.269	0.273	0.213	0.277	0.386	0.284	0.248	0.245	0.231	0.336	0.286
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	2.3	2.7	2.7	2.1	2.8	3.9	2.8	2.5	2.5	2.3	3.4	2.9

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	0.196	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Licensee Comments: none

Drill/Exercise Performance



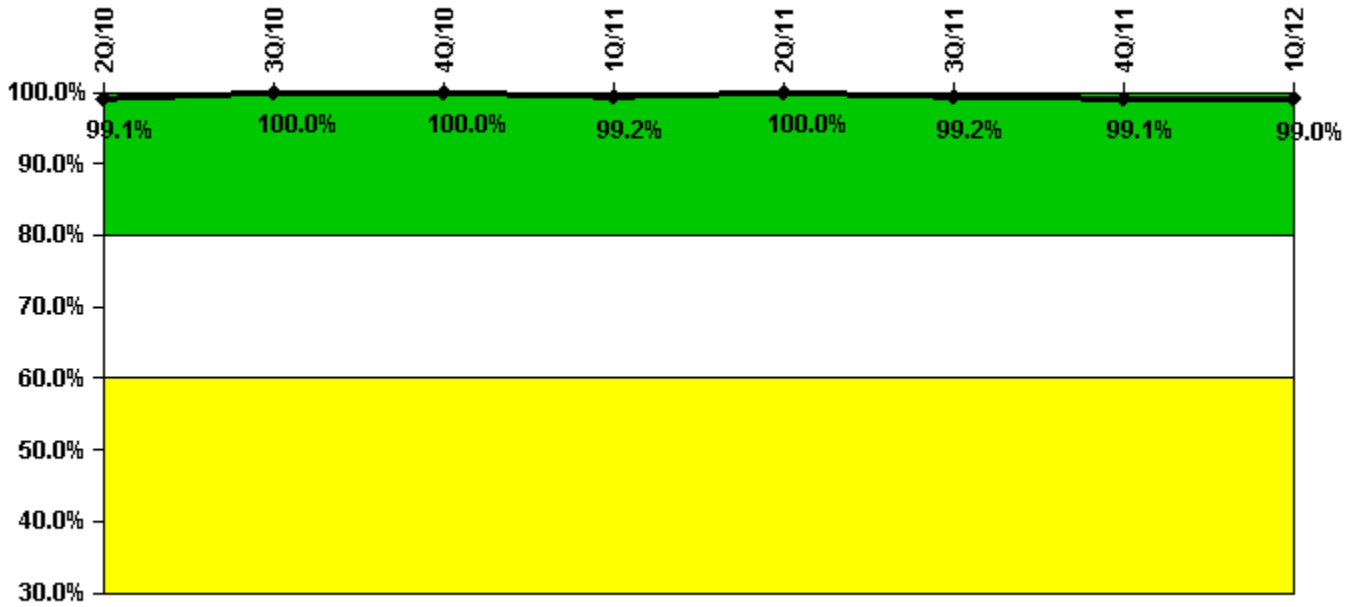
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	58.0	73.0	49.0	61.0	11.0	33.0	12.0	59.0
Total opportunities	61.0	73.0	50.0	62.0	13.0	36.0	12.0	62.0
Indicator value	97.5%	98.1%	97.7%	97.5%	96.7%	96.3%	96.4%	96.5%

Licensee Comments: none

ERO Drill Participation



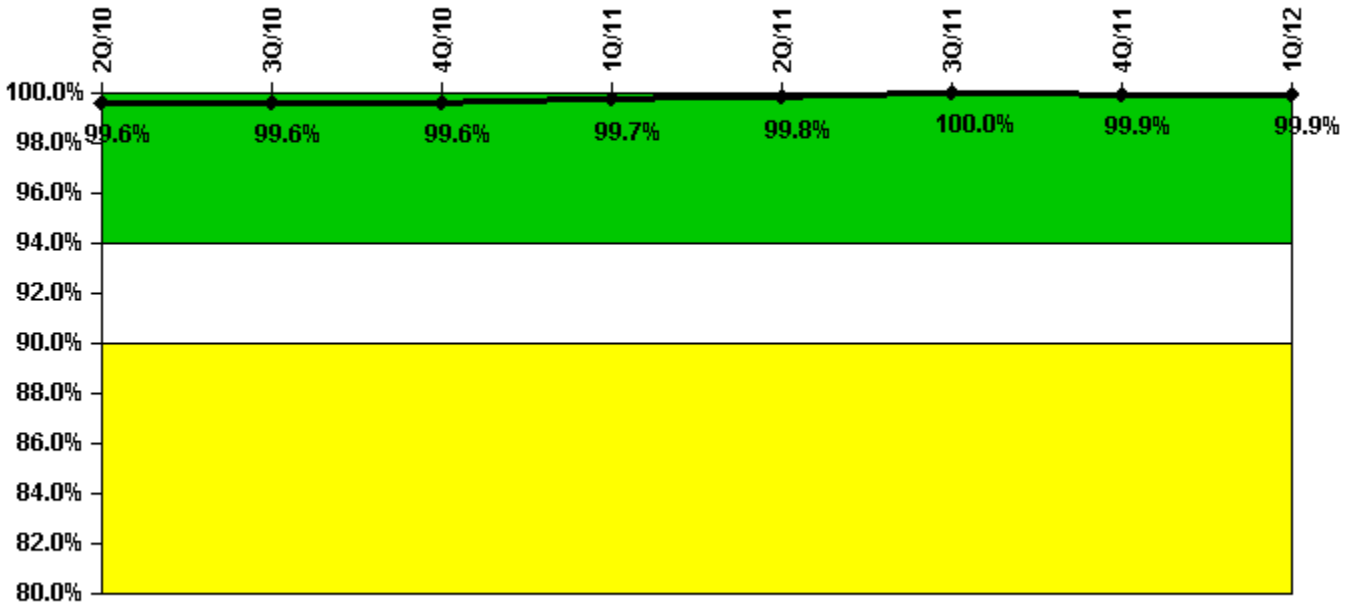
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	116.0	122.0	118.0	123.0	124.0	118.0	107.0	102.0
Total Key personnel	117.0	122.0	118.0	124.0	124.0	119.0	108.0	103.0
Indicator value	99.1%	100.0%	100.0%	99.2%	100.0%	99.2%	99.1%	99.0%

Licensee Comments: none

Alert & Notification System



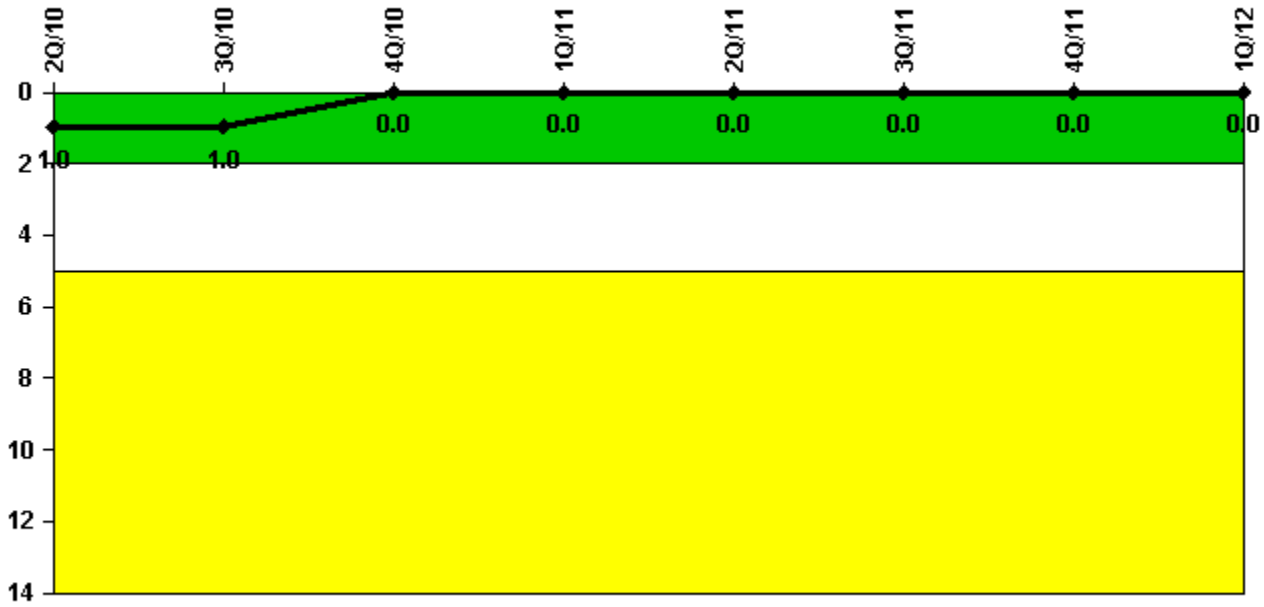
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	803	804	808	707	801	737	876	704
Total sirens-tests	808	808	808	707	802	737	878	705
Indicator value	99.6%	99.6%	99.6%	99.7%	99.8%	100.0%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



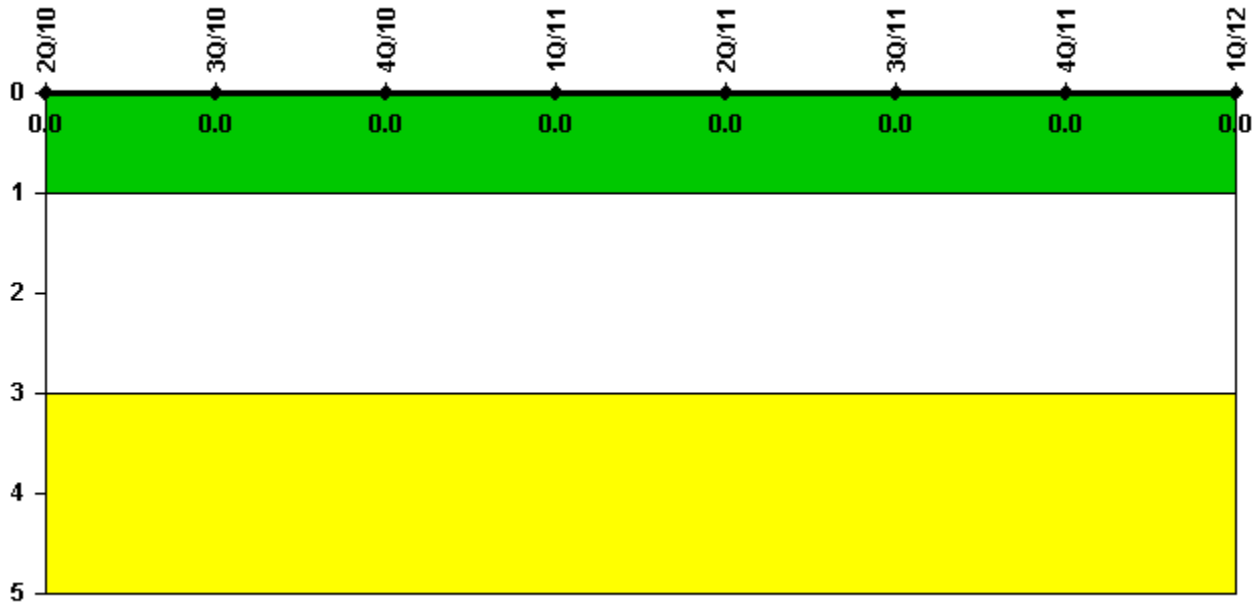
Thresholds: White > 2.0 Yellow > 5.0

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	1	1	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.