

Monticello

3Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



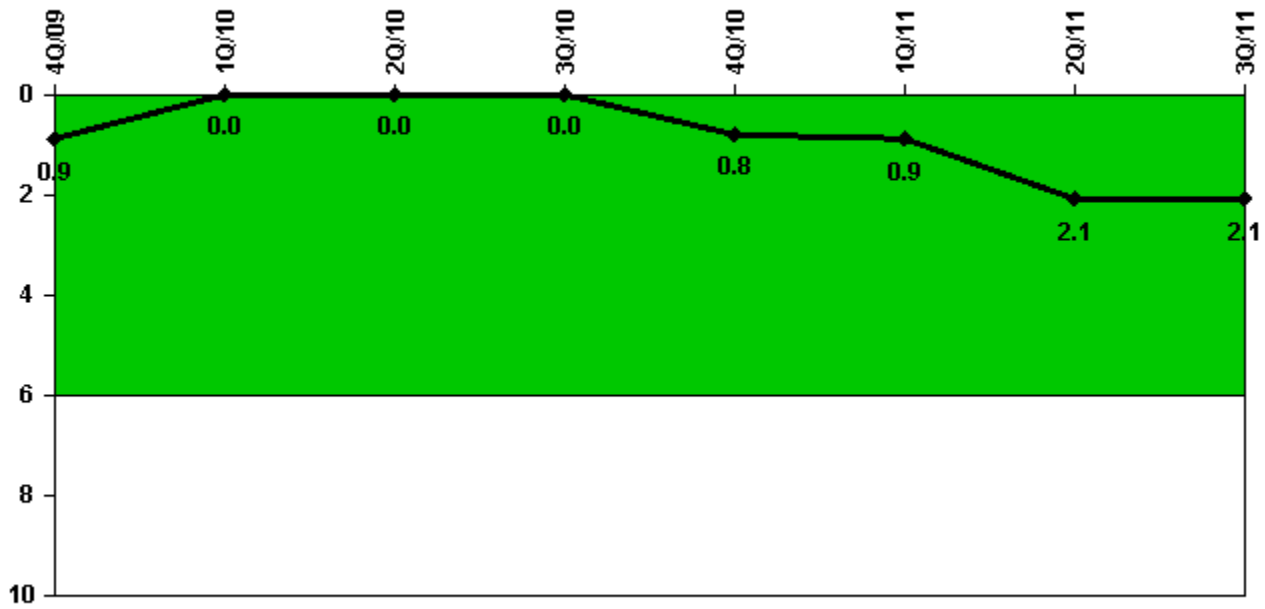
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	2079.9	1514.7	888.5	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	0	0	0	0	1.0	0	1.0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	2079.9	1514.7	888.5	2208.0
Indicator value	0.9	0	0	0	0.8	0.9	2.1	2.1

Licensee Comments: none

Unplanned Scrams with Complications



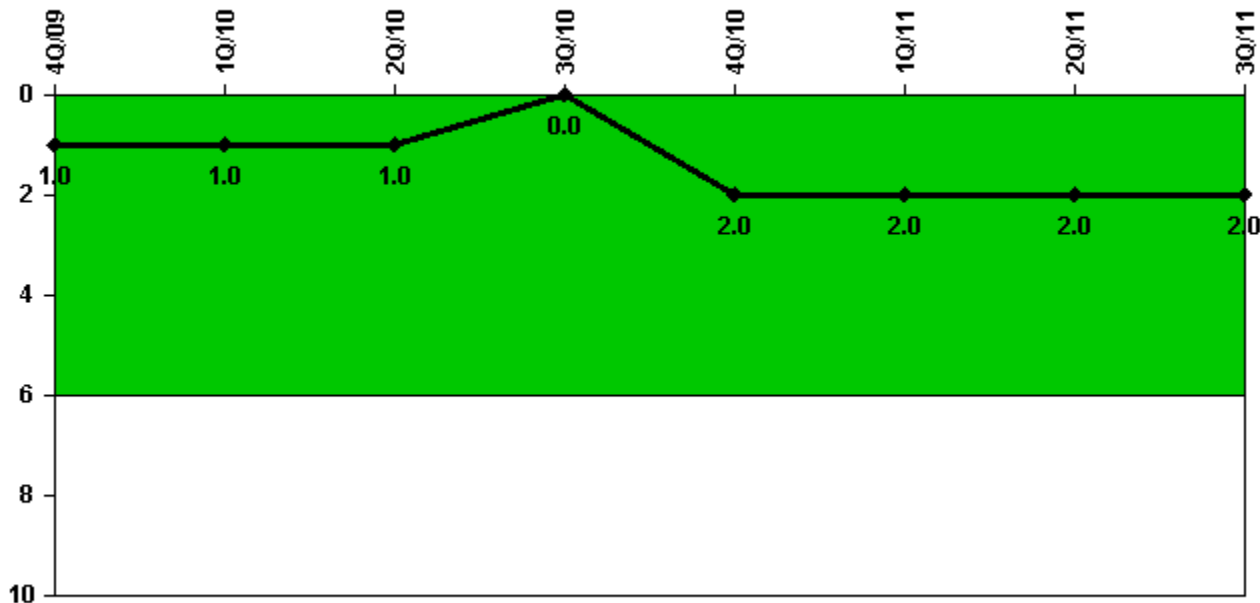
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
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 (BWR)



Thresholds: White > 6.0

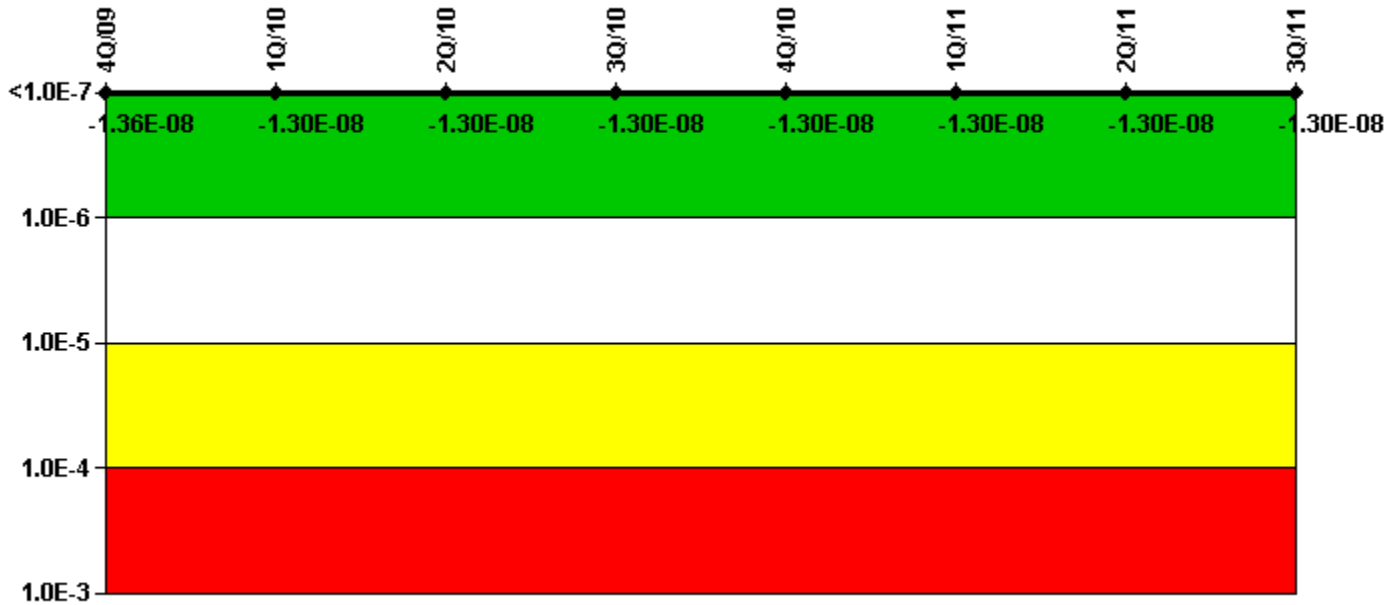
Notes

Safety System Functional Failures (BWR)	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Safety System Functional Failures	0	0	0	0	2	0	0	0
Indicator value	1	1	1	0	2	2	2	2

Licensee Comments:

3Q/10: LER 2010-002. This LER was previously submitted as a SSFF. A subsequent Secondary Containment Capability test performed and evaluation confirmed that the Standby Gas Treatment system remained capable of performing its safety function in the plant configuration that existed on June 3, 2010, including consideration for penetrations that were or may have been open at the time. LER 2010-002, Supplement 1 was submitted to NRC on June 13, 2011. No color change affected.

Mitigating Systems Performance Index, Emergency AC Power System



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

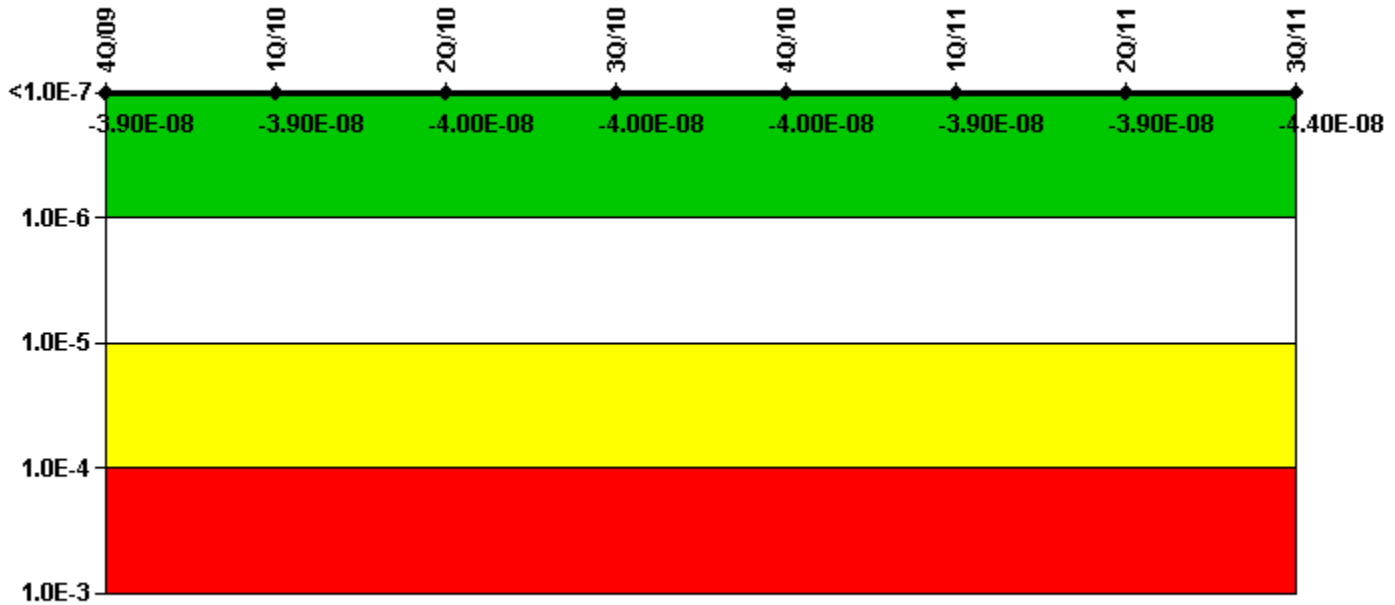
Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-1.60E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09
URI (Δ CDF)	-1.20E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.16E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.36E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011 to incorporate changes from FAQ 11-07: Fuel Oil Transfer Pump Failures.

Mitigating Systems Performance Index, High Pressure Injection System



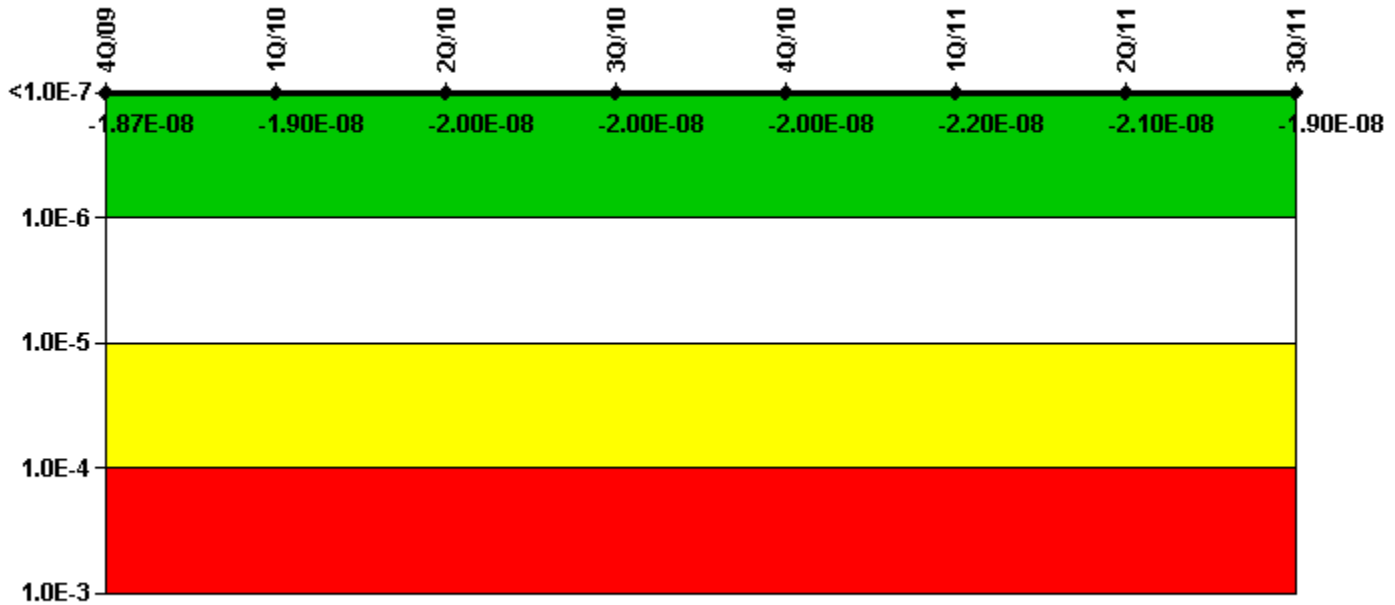
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-1.10E-08	-1.16E-08	-1.18E-08	-1.18E-08	-1.17E-08	-1.16E-08	-1.13E-08	-1.68E-08
URI (Δ CDF)	-2.80E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.90E-08	-3.90E-08	-4.00E-08	-4.00E-08	-4.00E-08	-3.90E-08	-3.90E-08	-4.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

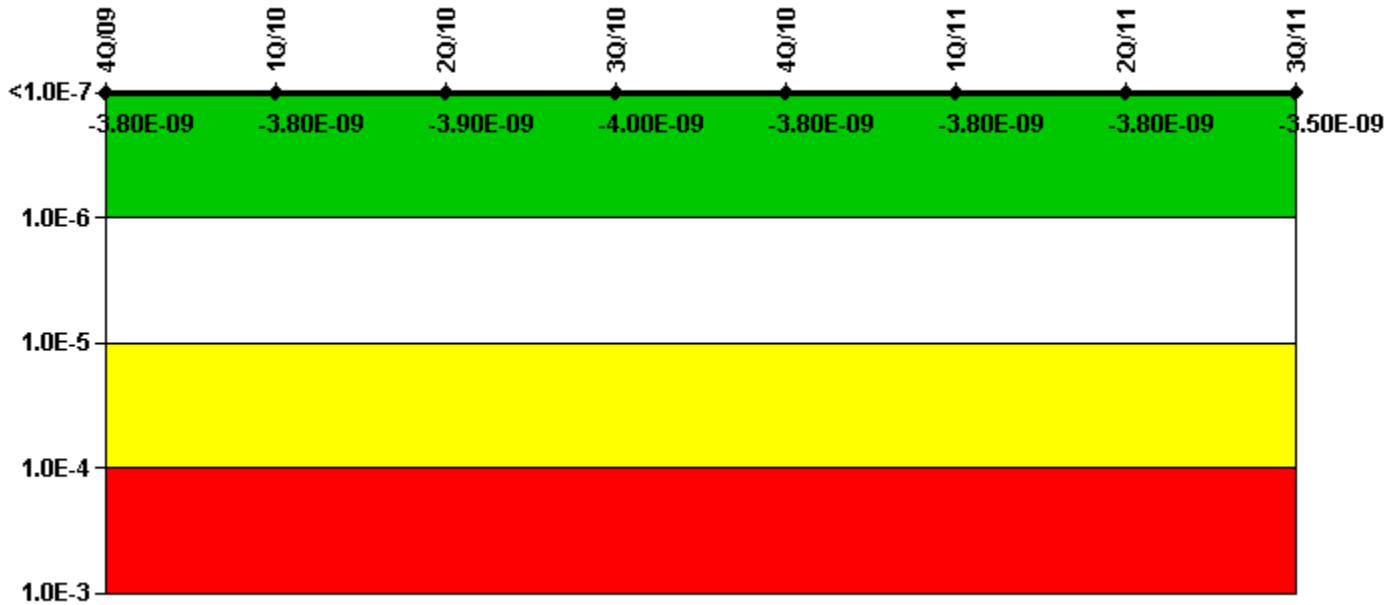
Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	3.30E-09	2.76E-09	2.34E-09	2.34E-09	2.43E-09	-2.66E-10	5.44E-10	2.31E-09
URI (Δ CDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.87E-08	-1.90E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.20E-08	-2.10E-08	-1.90E-08

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing.

Mitigating Systems Performance Index, Residual Heat Removal System



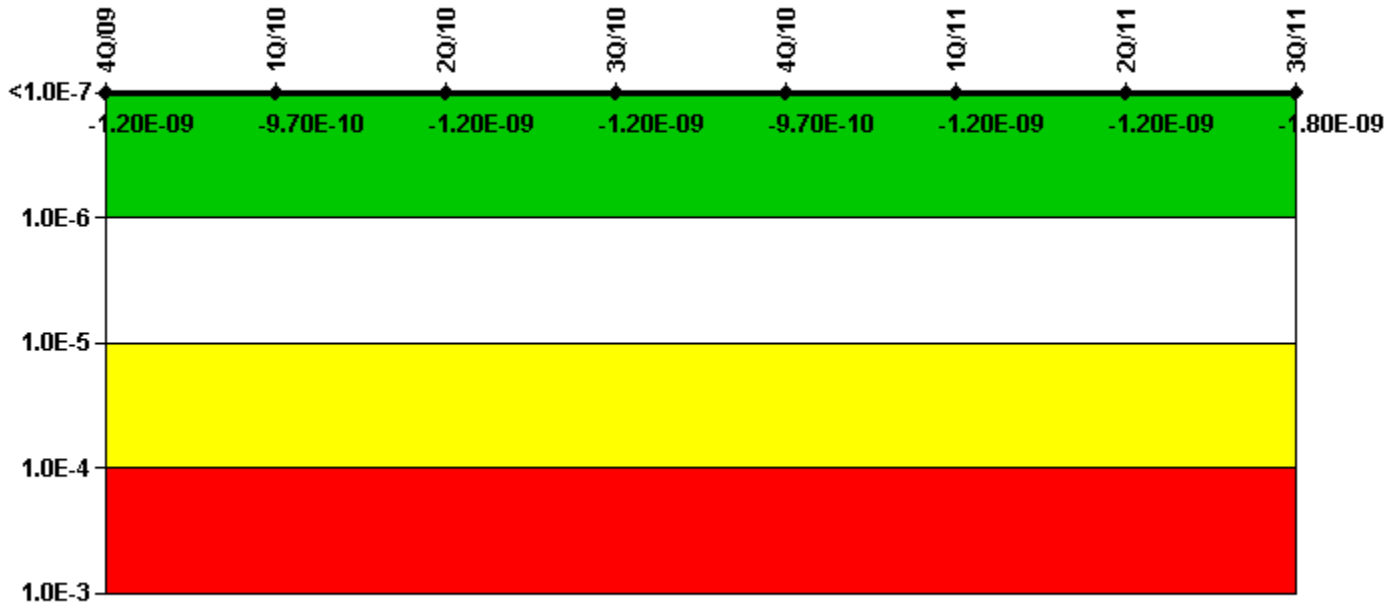
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-1.76E-10	-2.01E-10	-2.61E-10	-3.06E-10	-1.61E-10	-1.89E-10	-1.56E-10	1.05E-10
URI (Δ CDF)	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.80E-09	-3.80E-09	-3.90E-09	-4.00E-09	-3.80E-09	-3.80E-09	-3.80E-09	-3.50E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

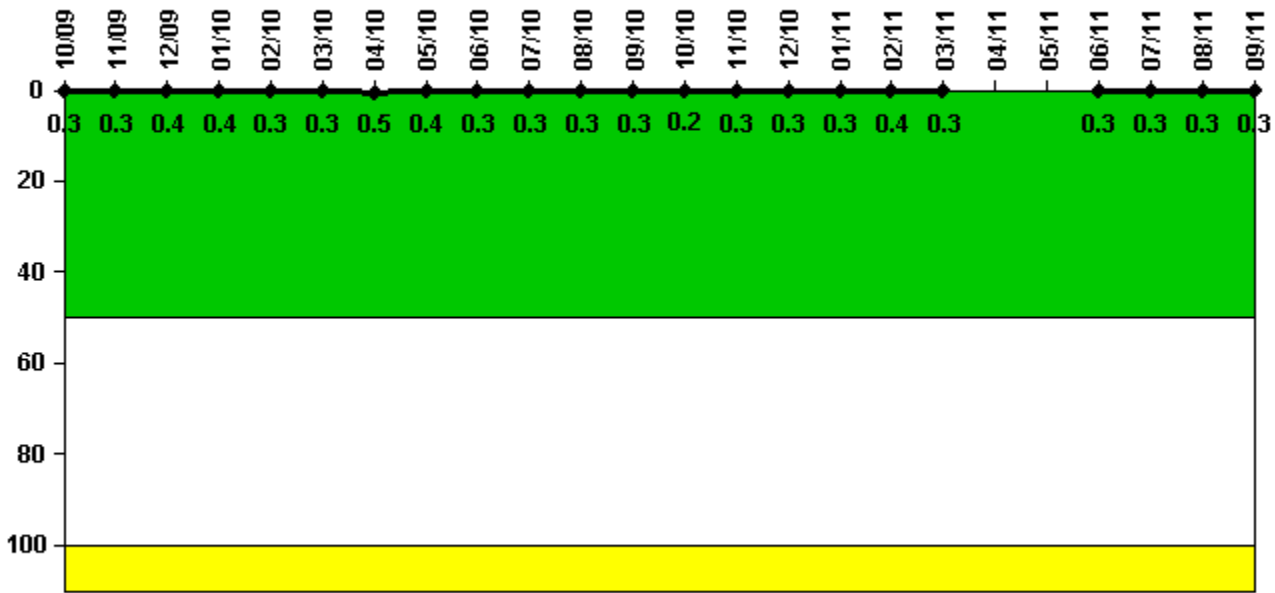
Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-1.16E-09	-9.71E-10	-1.18E-09	-1.18E-09	-9.73E-10	-1.18E-09	-1.19E-09	-1.74E-09
URI (Δ CDF)	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	-1.25E-11	-1.25E-11	-1.24E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-9.70E-10	-1.20E-09	-1.20E-09	-9.70E-10	-1.20E-09	-1.20E-09	-1.80E-09

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Updated RHRSW system boundaries to exclude SV-4397A, SV-4397B, PCV-3004, and PCV-3005. The listed valves had their internals removed.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

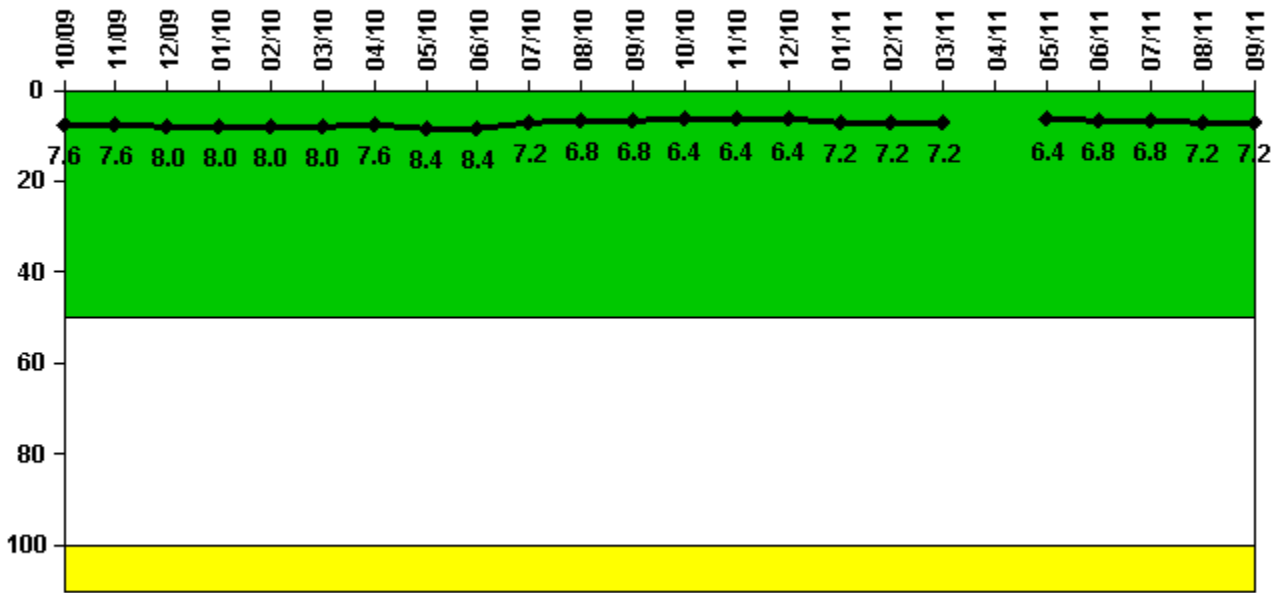
Notes

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	0.000599	0.000519	0.000758	0.000739	0.000678	0.000647	0.000943	0.000823	0.000607	0.000509	0.000628	0.000544
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.3	0.3	0.4	0.4	0.3	0.3	0.5	0.4	0.3	0.3	0.3	0.3

Reactor Coolant System Activity	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum activity	0.000489	0.000620	0.000621	0.000662	0.000704	0.000590	N/A	N/A	0.000568	0.000554	0.000535	0.000511
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.2	0.3	0.3	0.3	0.4	0.3	N/A	N/A	0.3	0.3	0.3	0.3

Licensee Comments: none

Reactor Coolant System Leakage



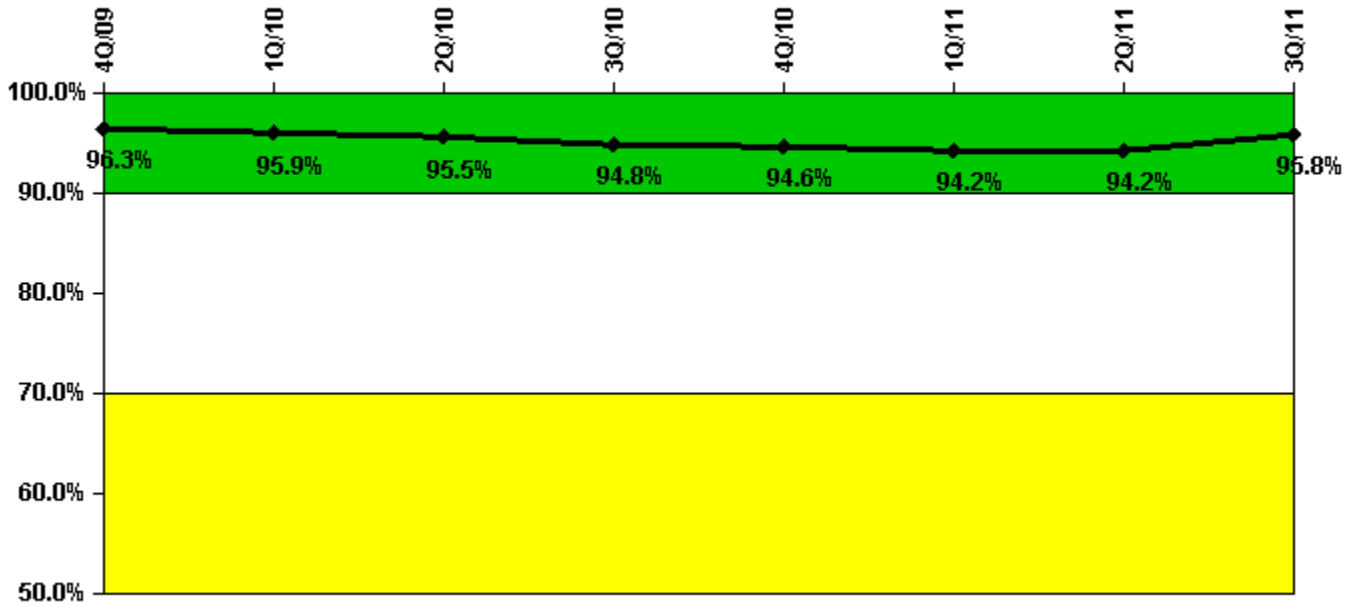
Thresholds: White > 50.0 Yellow > 100.0

Notes

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	1.900	1.900	2.000	2.000	2.000	2.000	1.900	2.100	2.100	1.800	1.700	1.700
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	7.6	7.6	8.0	8.0	8.0	8.0	7.6	8.4	8.4	7.2	6.8	6.8
Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	1.600	1.600	1.600	1.800	1.800	1.800	N/A	1.600	1.700	1.700	1.800	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	6.4	6.4	6.4	7.2	7.2	7.2	N/A	6.4	6.8	6.8	7.2	7.2

Licensee Comments: none

Drill/Exercise Performance



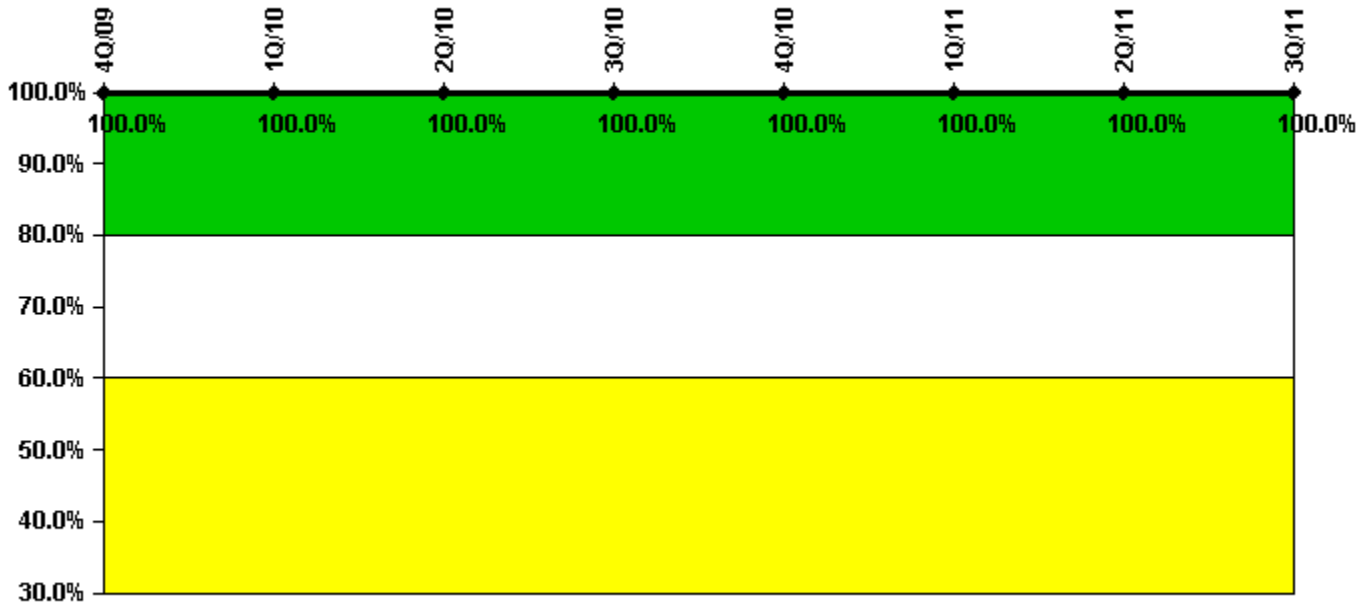
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful opportunities	29.0	36.0	30.0	41.0	16.0	18.0	17.0	62.0
Total opportunities	30.0	36.0	31.0	43.0	17.0	19.0	17.0	67.0
Indicator value	96.3%	95.9%	95.5%	94.8%	94.6%	94.2%	94.2%	95.8%

Licensee Comments: none

ERO Drill Participation



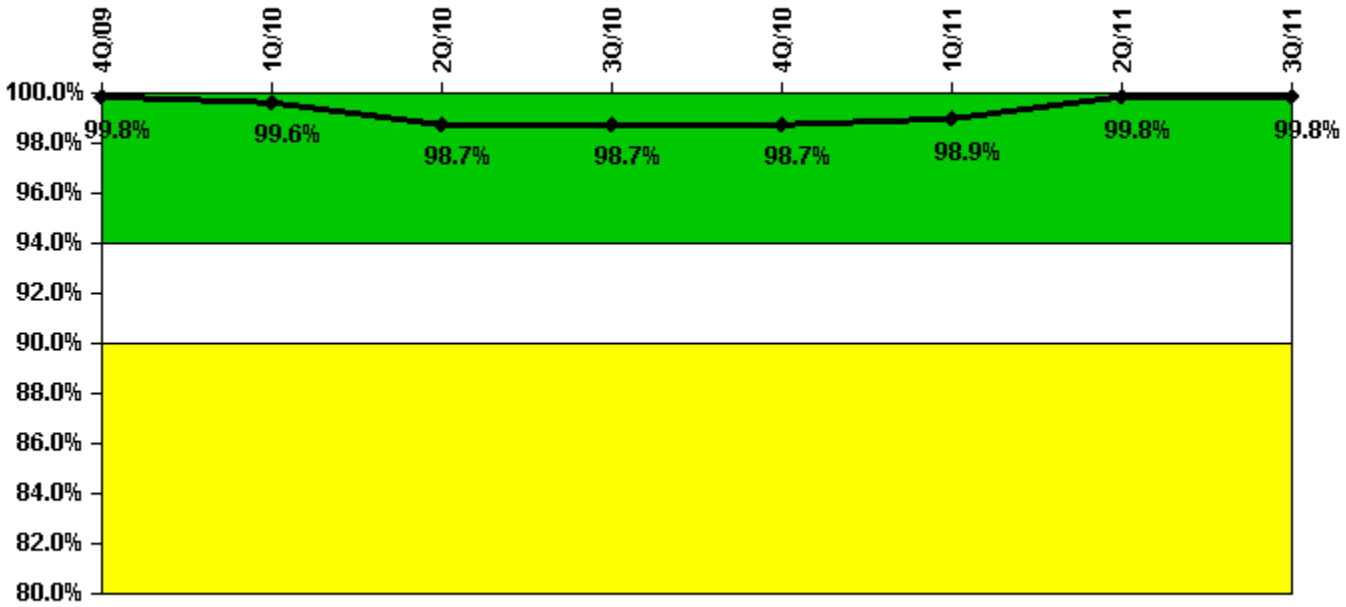
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Participating Key personnel	144.0	147.0	145.0	138.0	136.0	145.0	146.0	143.0
Total Key personnel	144.0	147.0	145.0	138.0	136.0	145.0	146.0	143.0
Indicator value	100.0%	100.0%	100.0%	100.0%	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	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	1373	1364	1327	1375	1376	1373	1377	1373
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	99.8%	99.6%	98.7%	98.7%	98.7%	98.9%	99.8%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
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	0	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	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
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.