

River Bend 1

4Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



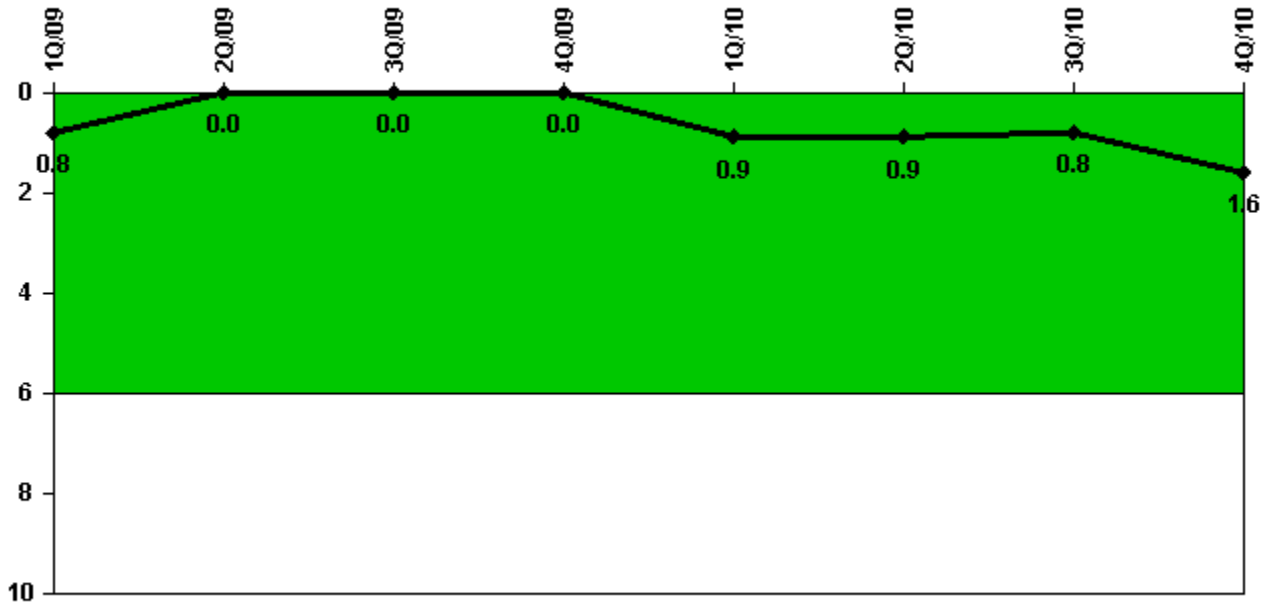
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2159.0	2184.0	1961.8	1805.2	2159.0	2184.0	2111.5	2209.0
Indicator value	0	0	0.8	0.9	0.9	0.9	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	0	0	0	0	1.0	0	0	1.0
Critical hours	2159.0	2184.0	1961.8	1805.2	2159.0	2184.0	2111.5	2209.0
Indicator value	0.8	0	0	0	0.9	0.9	0.8	1.6

Licensee Comments: none

Unplanned Scrams with Complications



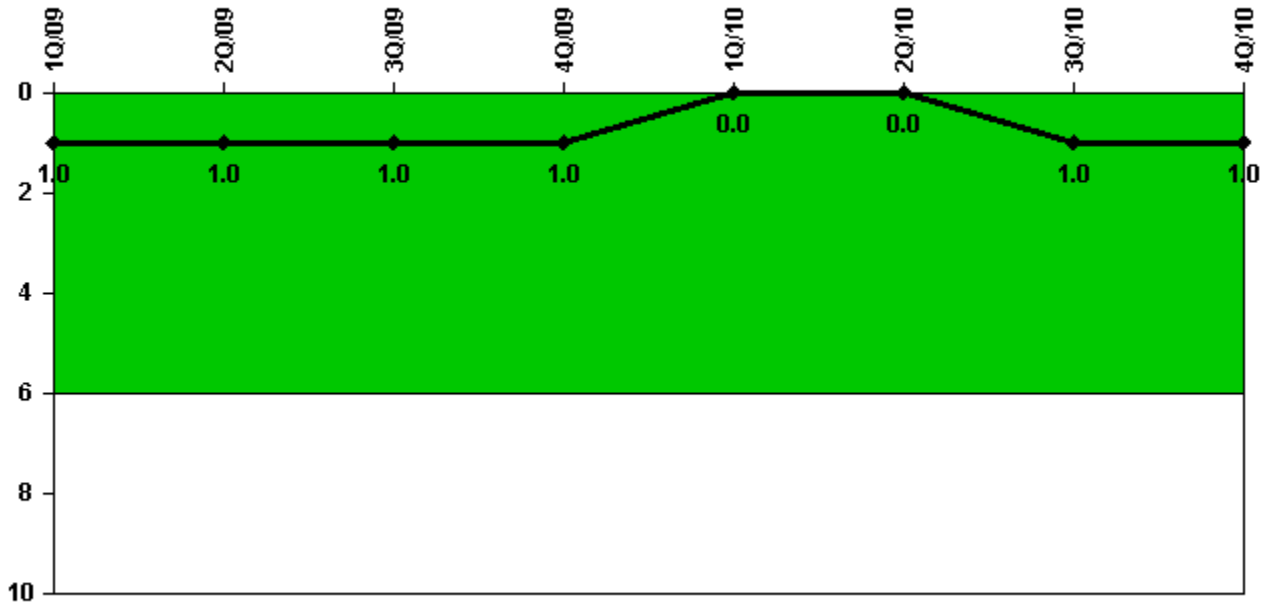
Thresholds: White > 1.0

Notes

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



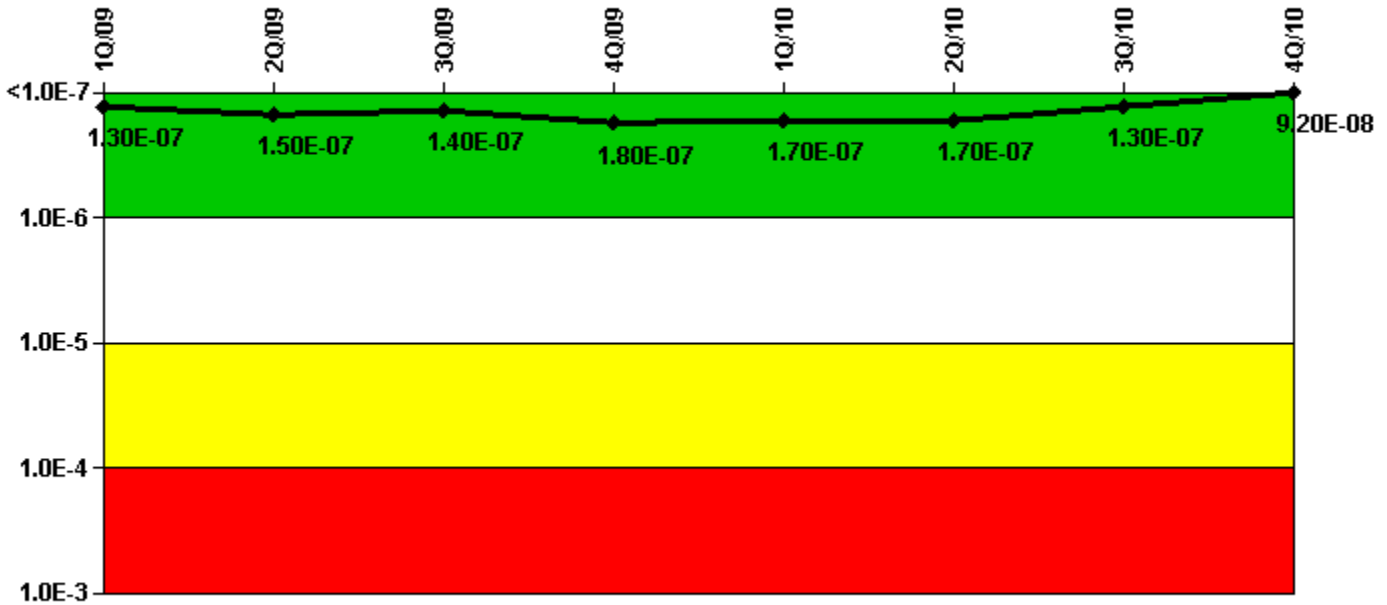
Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



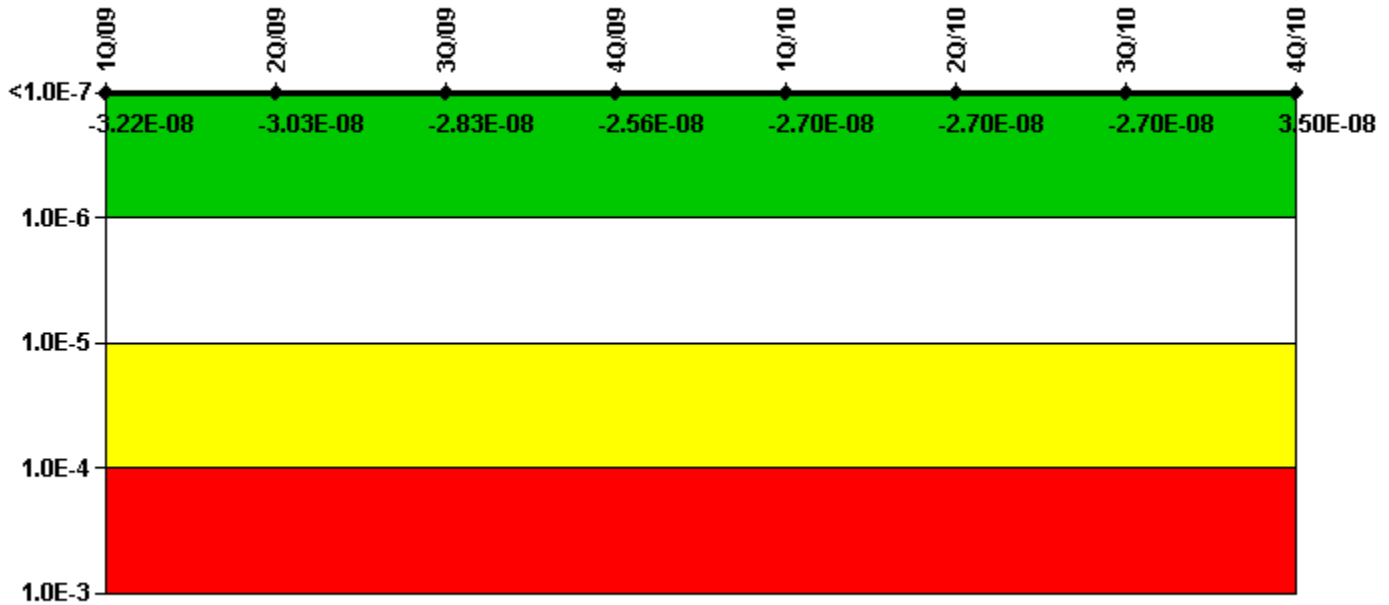
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	2.40E-08	3.40E-08	3.39E-08	3.82E-08	1.12E-08	1.10E-08	8.95E-09	2.43E-08
URI (Δ CDF)	1.09E-07	1.12E-07	1.06E-07	1.47E-07	1.57E-07	1.57E-07	1.22E-07	6.74E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.50E-07	1.40E-07	1.80E-07	1.70E-07	1.70E-07	1.30E-07	9.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



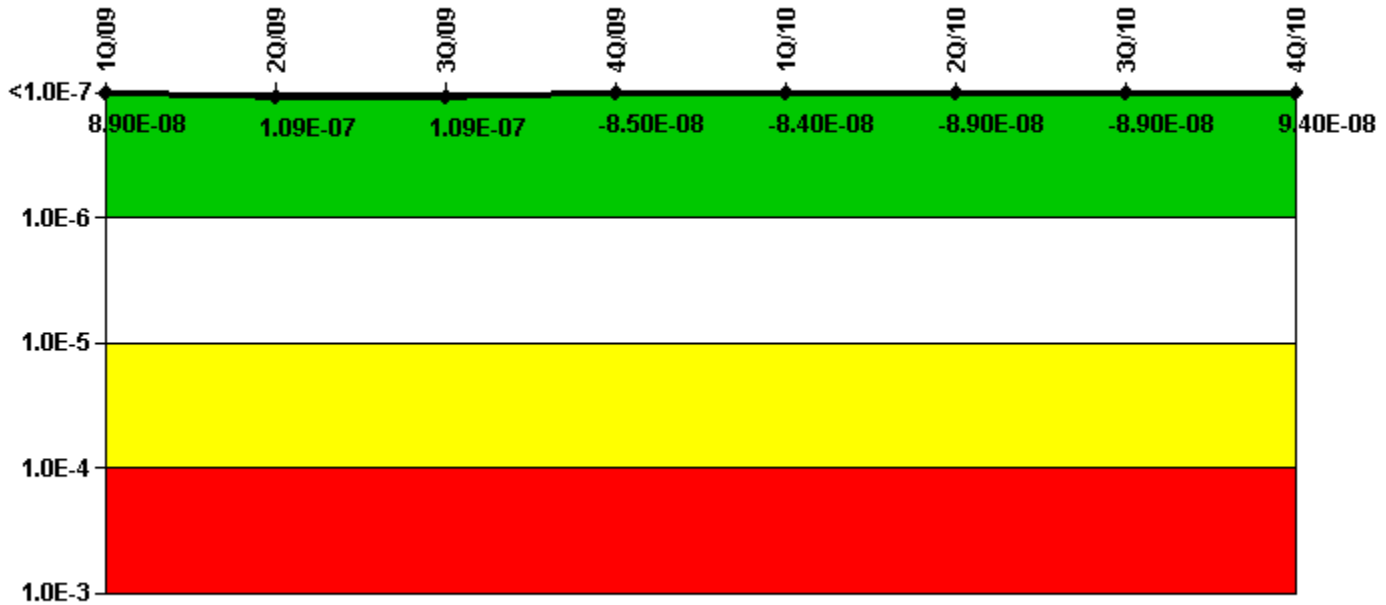
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	-1.20E-09	-1.30E-09	-1.30E-09	1.40E-09	2.40E-09	2.28E-09	2.28E-09	1.01E-08
URI (Δ CDF)	-3.10E-08	-2.90E-08	-2.70E-08	-2.70E-08	-2.95E-08	-2.96E-08	-2.94E-08	2.47E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.22E-08	-3.03E-08	-2.83E-08	-2.56E-08	-2.70E-08	-2.70E-08	-2.70E-08	3.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



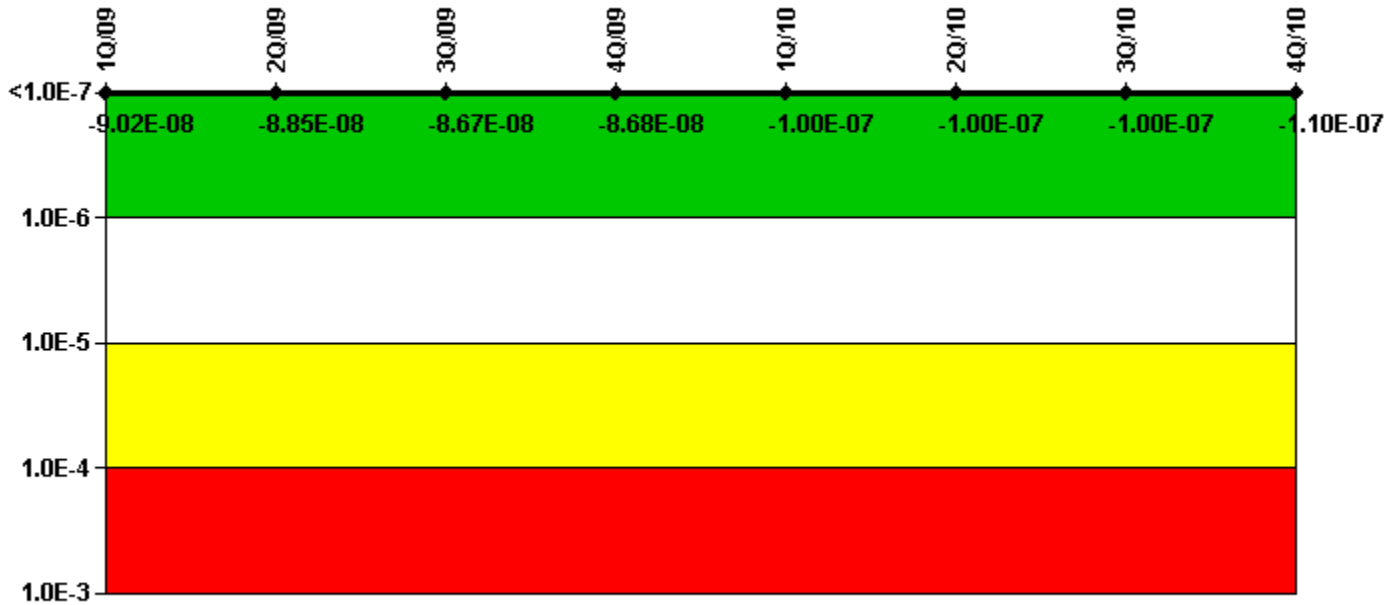
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.15E-08	-2.16E-08	-2.16E-08	-1.35E-08
URI (Δ CDF)	1.10E-07	1.30E-07	1.30E-07	-6.40E-08	-6.30E-08	-6.73E-08	-6.69E-08	1.07E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.90E-08	1.09E-07	1.09E-07	-8.50E-08	-8.40E-08	-8.90E-08	-8.90E-08	9.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



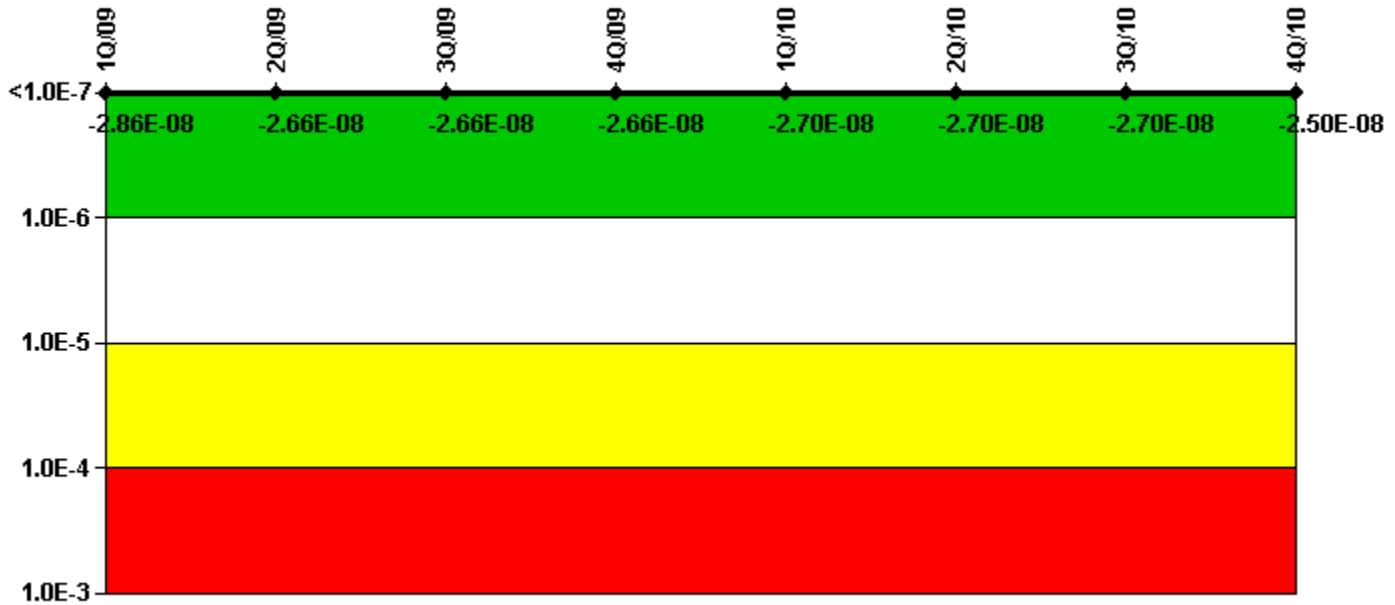
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	-8.20E-09	-9.50E-09	-8.70E-09	-7.80E-09	-2.22E-08	-2.25E-08	-2.25E-08	-3.47E-08
URI (Δ CDF)	-8.20E-08	-7.90E-08	-7.80E-08	-7.90E-08	-7.99E-08	-7.84E-08	-7.74E-08	-7.69E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.02E-08	-8.85E-08	-8.67E-08	-8.68E-08	-1.00E-07	-1.00E-07	-1.00E-07	-1.10E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



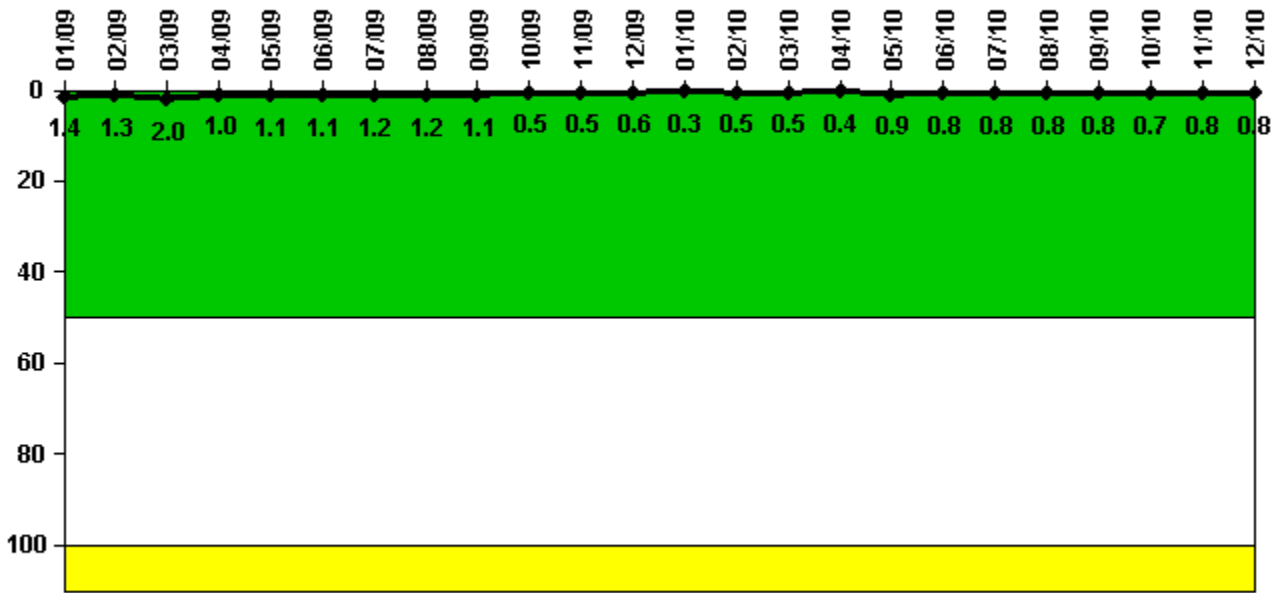
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	-2.60E-09	-2.60E-09	-2.60E-09	-2.60E-09	-2.64E-09	-2.64E-09	-2.64E-09	-2.64E-09
URI (Δ CDF)	-2.60E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.43E-08	-2.43E-08	-2.43E-08	-2.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.86E-08	-2.66E-08	-2.66E-08	-2.66E-08	-2.70E-08	-2.70E-08	-2.70E-08	-2.50E-08

Licensee Comments: none

Reactor Coolant System Activity



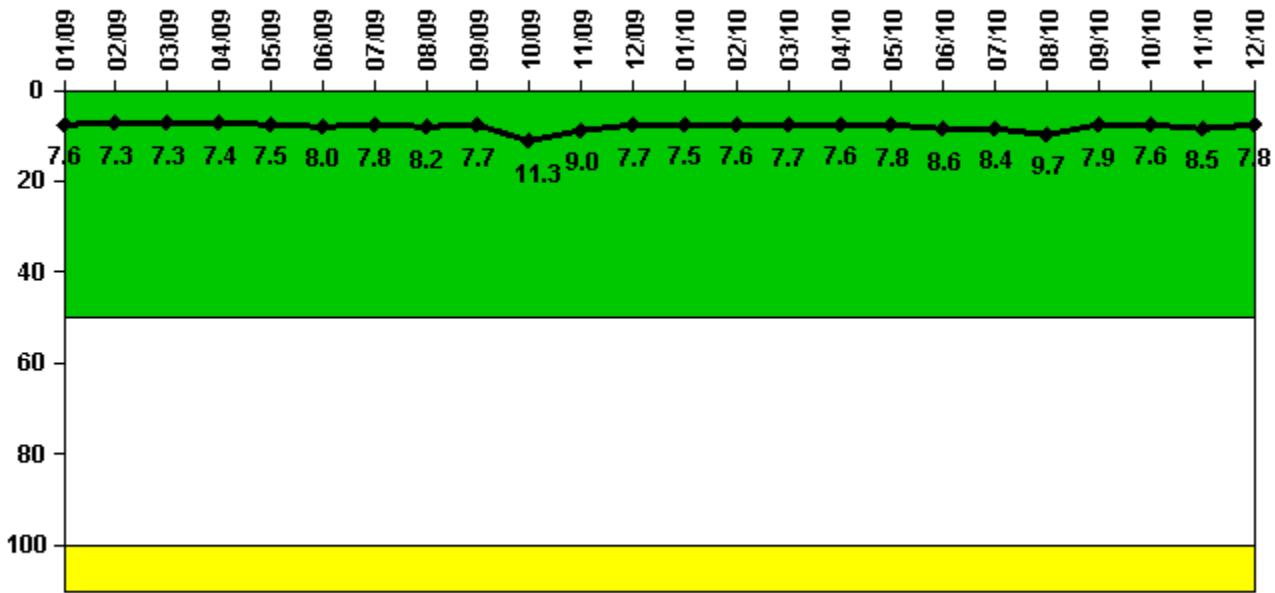
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.002710	0.002530	0.003920	0.001950	0.002260	0.002165	0.002410	0.002420	0.002210	0.001090	0.001040	0.001160
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	1.4	1.3	2.0	1.0	1.1	1.1	1.2	1.2	1.1	0.5	0.5	0.6
Reactor Coolant System Activity	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum activity	0.000696	0.001080	0.000994	0.000866	0.001880	0.001670	0.001640	0.001670	0.001540	0.001380	0.001520	0.001530
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	0.5	0.5	0.4	0.9	0.8	0.8	0.8	0.8	0.7	0.8	0.8

License Comments: none

Reactor Coolant System Leakage



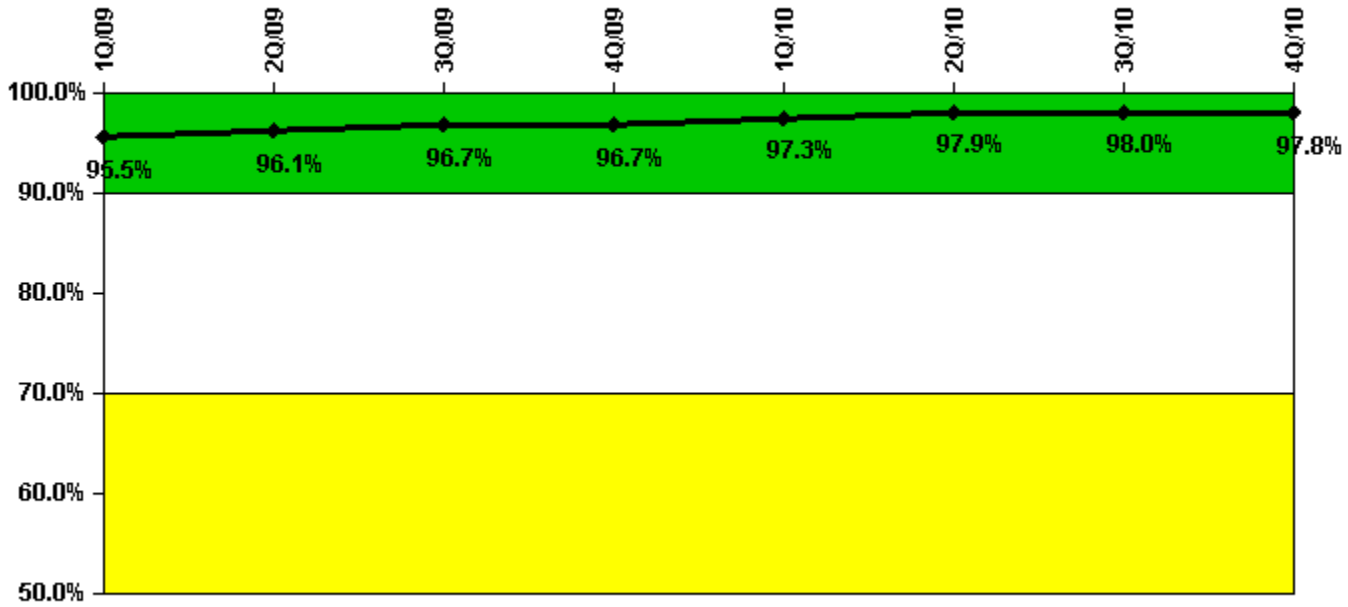
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum leakage	2.290	2.180	2.200	2.210	2.260	2.400	2.340	2.450	2.310	3.390	2.700	2.300
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.6	7.3	7.3	7.4	7.5	8.0	7.8	8.2	7.7	11.3	9.0	7.7
Reactor Coolant System Leakage	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum leakage	2.260	2.270	2.320	2.290	2.330	2.590	2.510	2.920	2.360	2.270	2.540	2.330
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.5	7.6	7.7	7.6	7.8	8.6	8.4	9.7	7.9	7.6	8.5	7.8

Licensee Comments: none

Drill/Exercise Performance



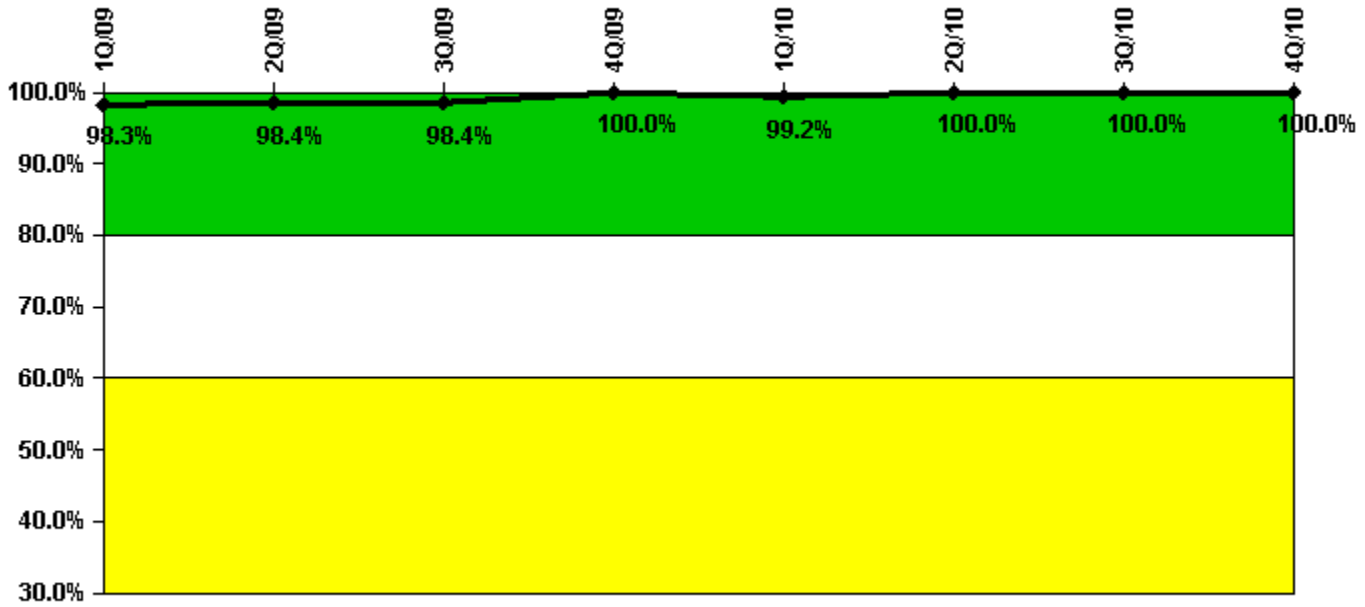
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	28.0	30.0	27.0	0	28.0	54.0	43.0	10.0
Total opportunities	28.0	30.0	28.0	0	30.0	56.0	43.0	10.0
Indicator value	95.5%	96.1%	96.7%	96.7%	97.3%	97.9%	98.0%	97.8%

Licensee Comments: none

ERO Drill Participation



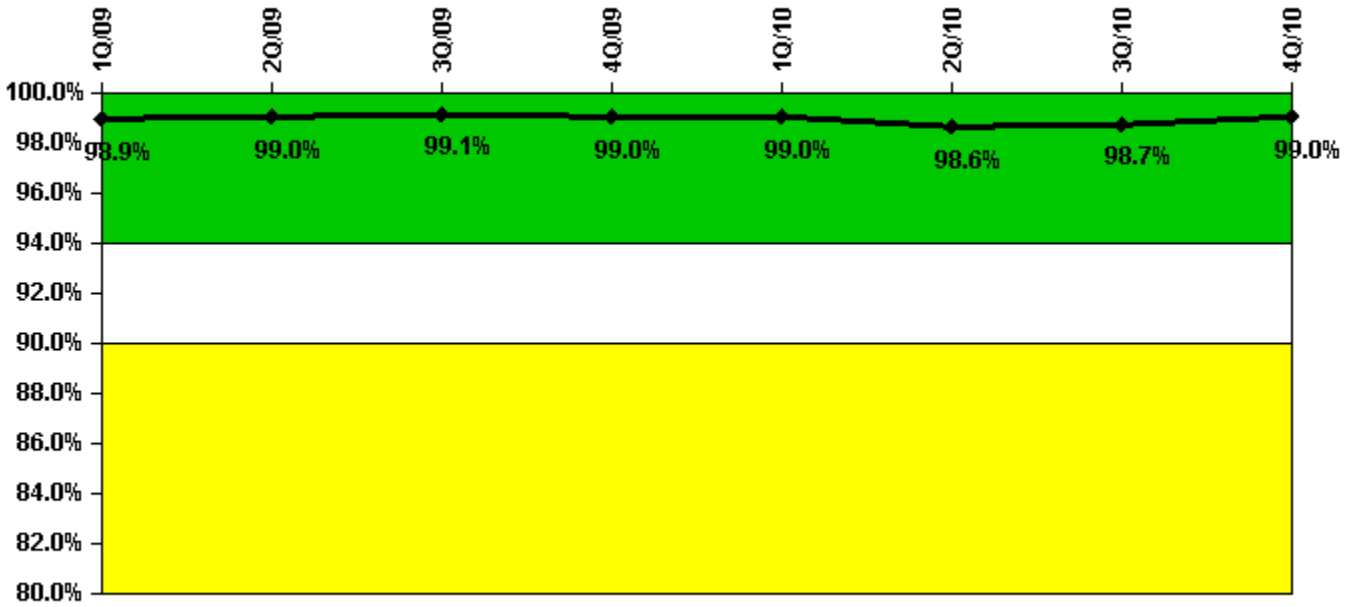
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	117.0	121.0	120.0	128.0	126.0	128.0	132.0	96.0
Total Key personnel	119.0	123.0	122.0	128.0	127.0	128.0	132.0	96.0
Indicator value	98.3%	98.4%	98.4%	100.0%	99.2%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	1099	1204	1289	1011	1100	1184	1201	1209
Total sirens-tests	1116	1209	1302	1023	1116	1209	1209	1209
Indicator value	98.9%	99.0%	99.1%	99.0%	99.0%	98.6%	98.7%	99.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

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