

Surry 2

1Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



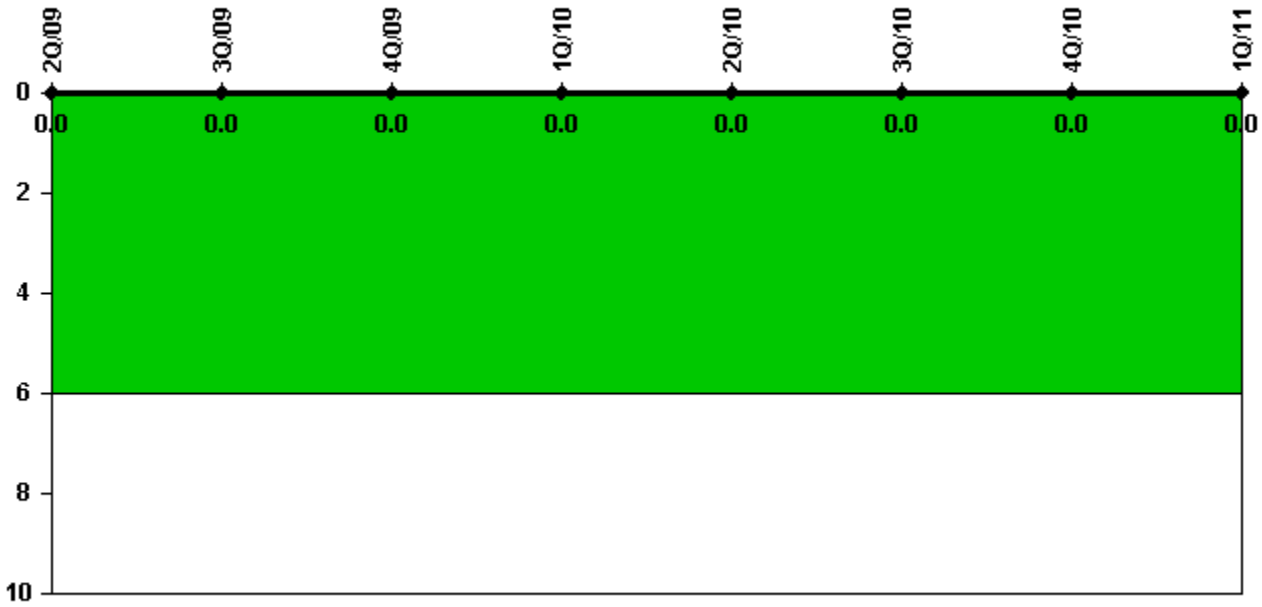
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned scrams	0	0	1.0	0	0	0	0	1.0
Critical hours	2184.0	2208.0	1520.0	2159.0	2184.0	2107.9	2209.0	1789.4
Indicator value	0	0	0.9	0.9	0.9	0.9	0	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	1520.0	2159.0	2184.0	2107.9	2209.0	1789.4
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



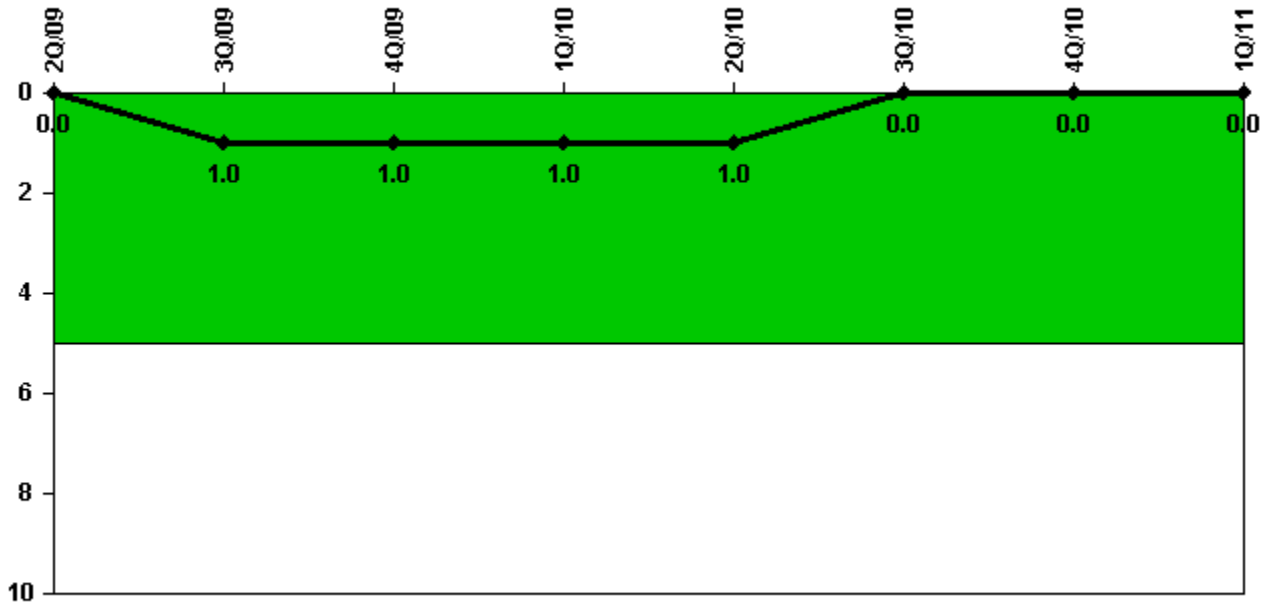
Thresholds: White > 1.0

Notes

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



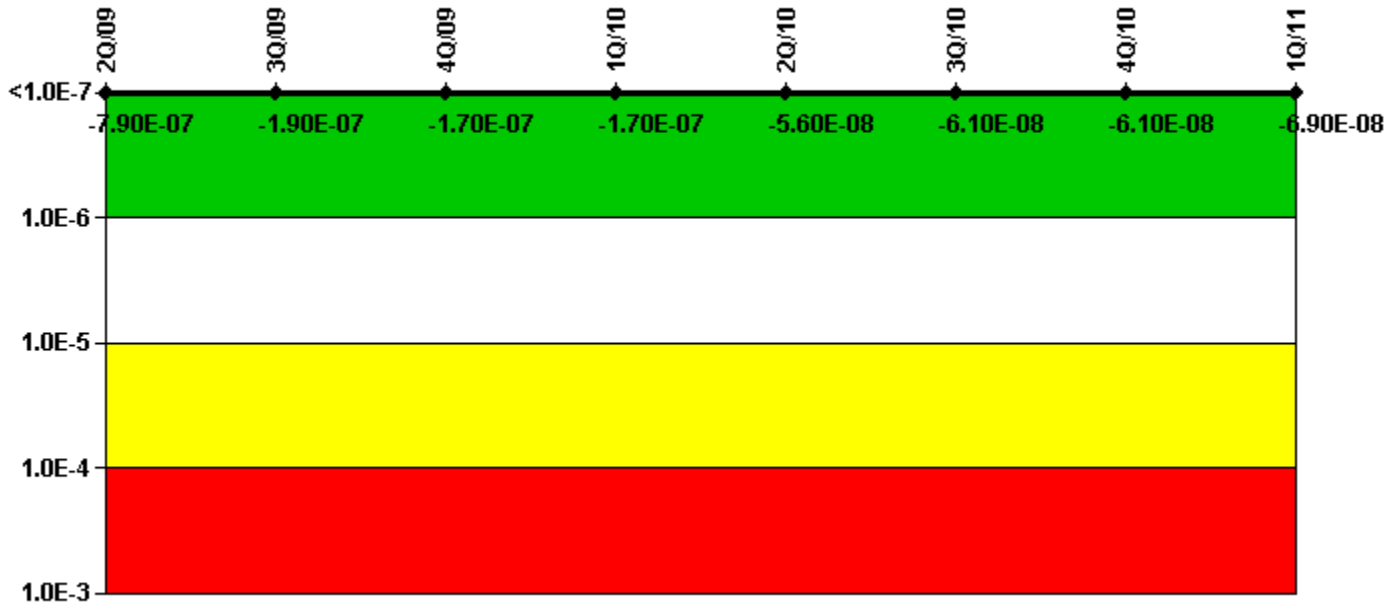
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

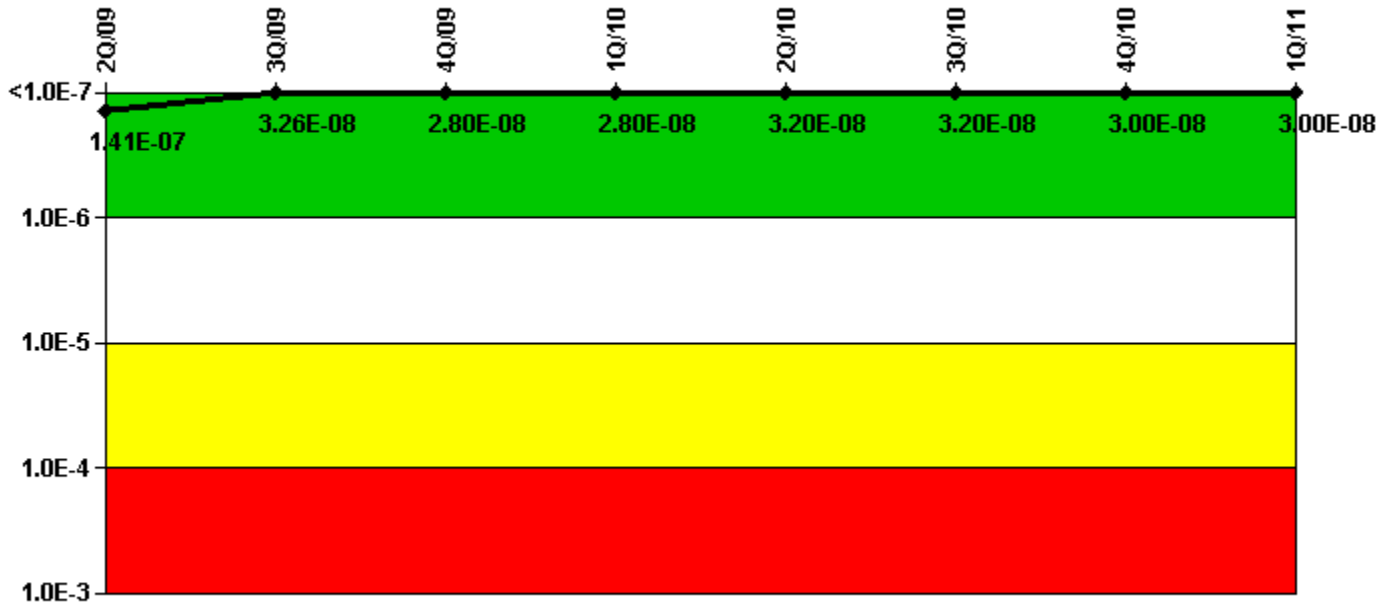
Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-4.93E-08	-9.44E-09	2.06E-09	1.72E-09	2.19E-08	9.34E-09	1.01E-08	-2.16E-09
URI (Δ CDF)	-7.45E-07	-1.85E-07	-1.71E-07	-1.71E-07	-7.78E-08	-7.06E-08	-7.12E-08	-6.72E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.90E-07	-1.90E-07	-1.70E-07	-1.70E-07	-5.60E-08	-6.10E-08	-6.10E-08	-6.90E-08

Licensee Comments:

1Q/11: An NRC assessment identified several instances of unplanned unavailability and post maintenance test demands that were reported incorrectly. Historical data was corrected with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



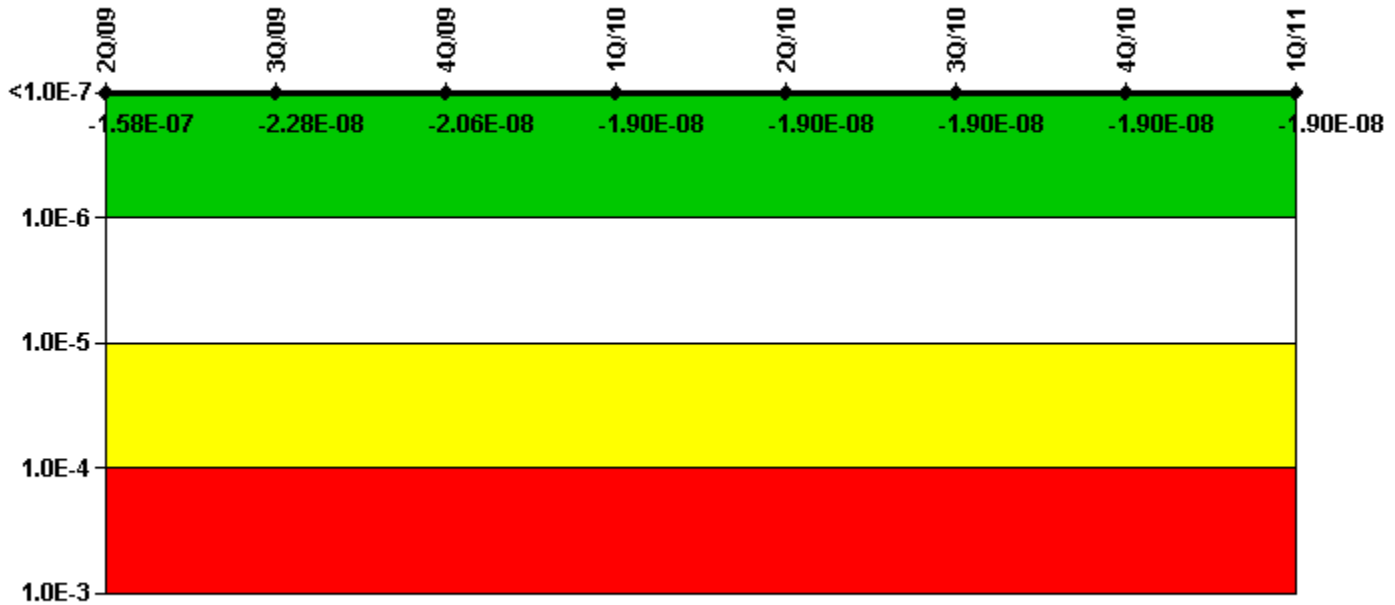
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	1.10E-08	2.60E-09	-4.60E-11	5.19E-11	4.06E-09	3.92E-09	3.92E-09	4.47E-09
URI (Δ CDF)	1.30E-07	3.00E-08	2.80E-08	2.78E-08	2.80E-08	2.82E-08	2.58E-08	2.57E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.41E-07	3.26E-08	2.80E-08	2.80E-08	3.20E-08	3.20E-08	3.00E-08	3.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



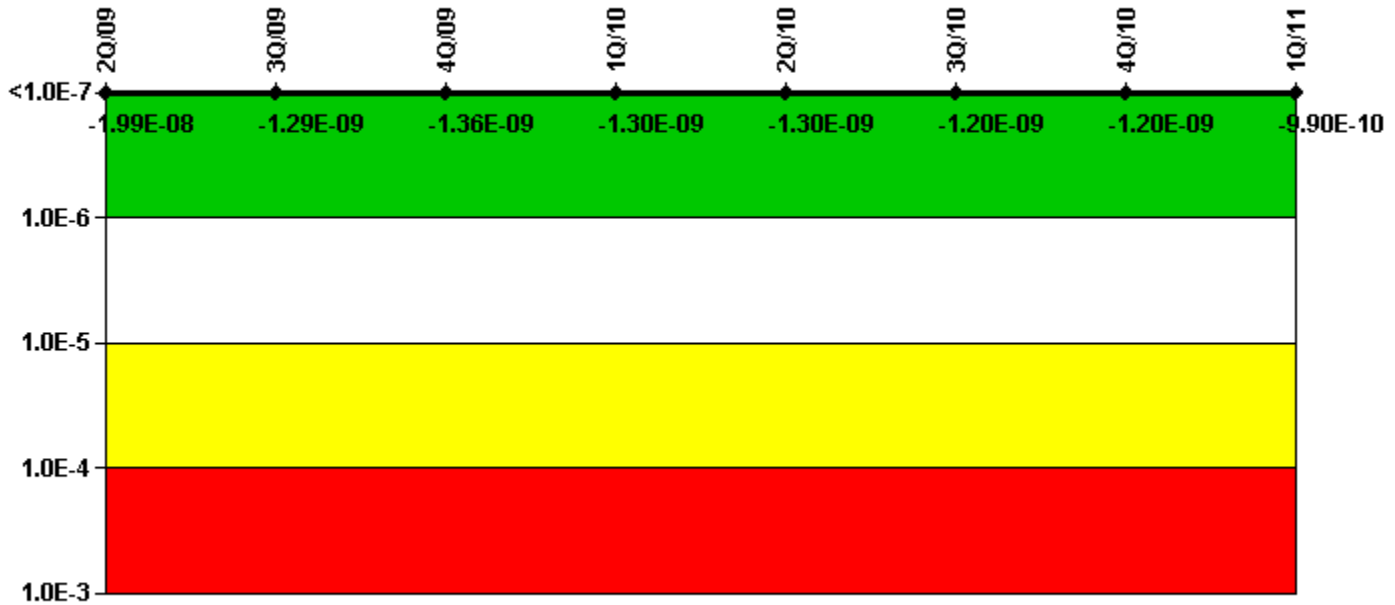
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-2.80E-08	-3.80E-09	-3.60E-09	-3.59E-09	-3.39E-09	-3.43E-09	-3.56E-09	-2.36E-09
URI (Δ CDF)	-1.30E-07	-1.90E-08	-1.70E-08	-1.59E-08	-1.59E-08	-1.59E-08	-1.59E-08	-1.65E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.58E-07	-2.28E-08	-2.06E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



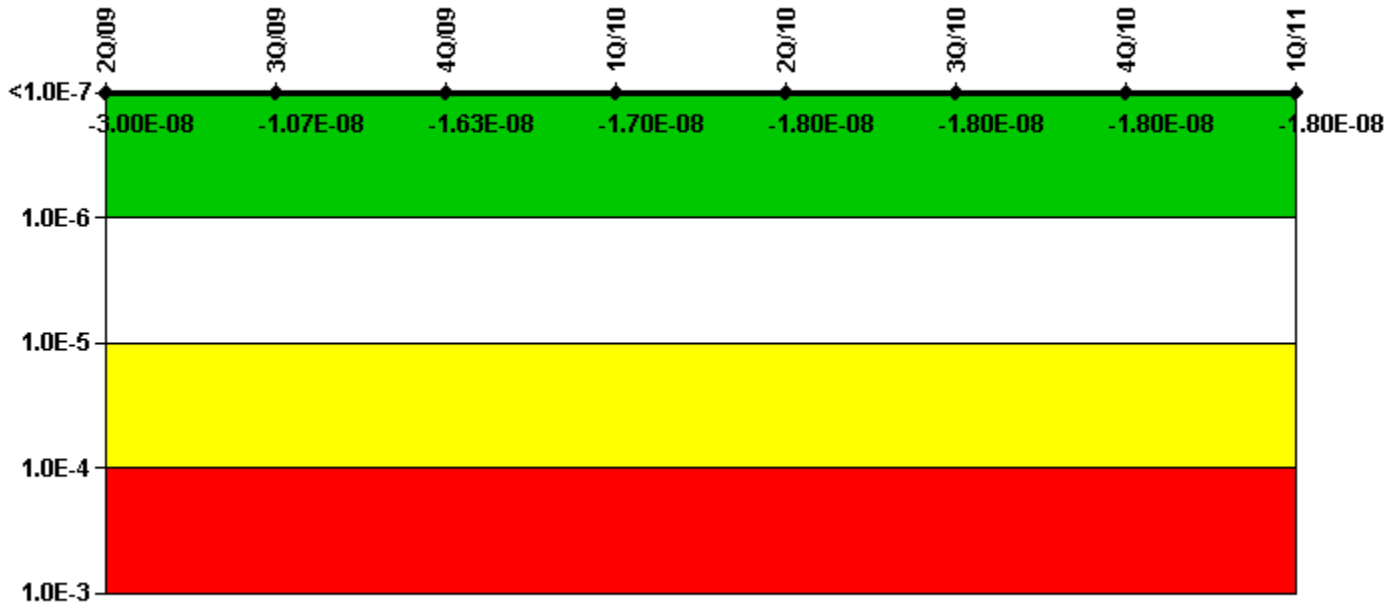
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-4.90E-09	-2.90E-10	-2.60E-10	-2.58E-10	-2.52E-10	-1.94E-10	-1.79E-10	9.76E-11
URI (Δ CDF)	-1.50E-08	-1.00E-09	-1.10E-09	-1.04E-09	-1.04E-09	-1.04E-09	-1.06E-09	-1.08E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.99E-08	-1.29E-09	-1.36E-09	-1.30E-09	-1.30E-09	-1.20E-09	-1.20E-09	-9.90E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



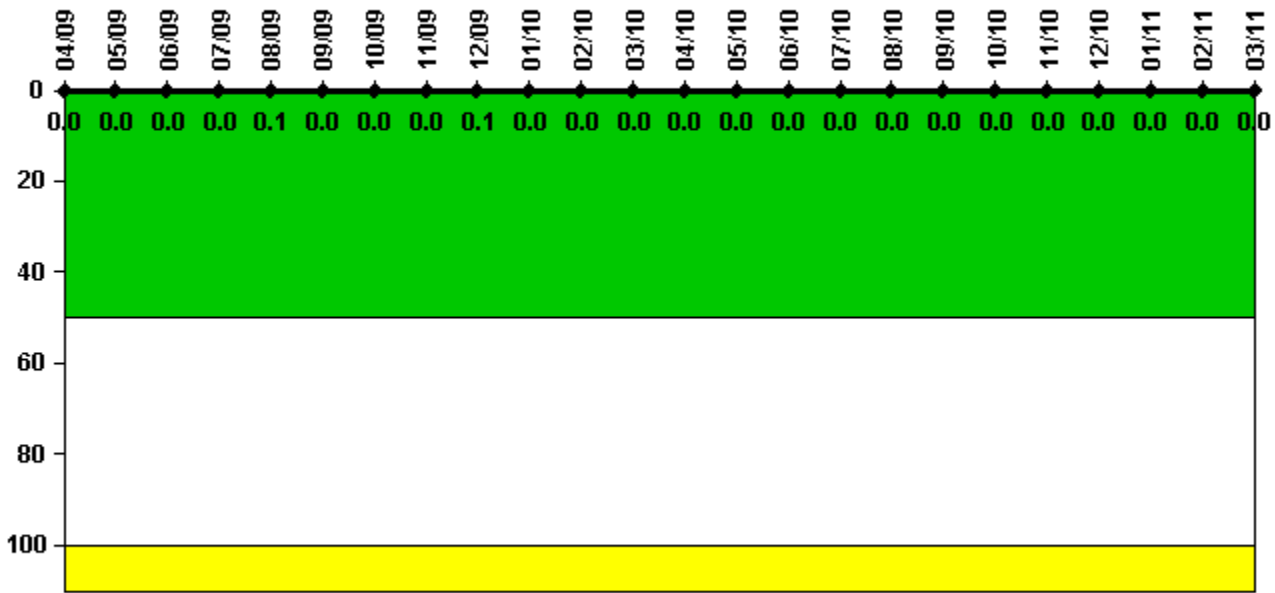
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	1.20E-07	9.30E-09	3.70E-09	3.43E-09	3.24E-09	3.50E-09	3.57E-09	4.37E-09
URI (Δ CDF)	-1.50E-07	-2.00E-08	-2.00E-08	-1.99E-08	-2.09E-08	-2.13E-08	-2.18E-08	-2.23E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-08	-1.07E-08	-1.63E-08	-1.70E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08

Licensee Comments: none

Reactor Coolant System Activity



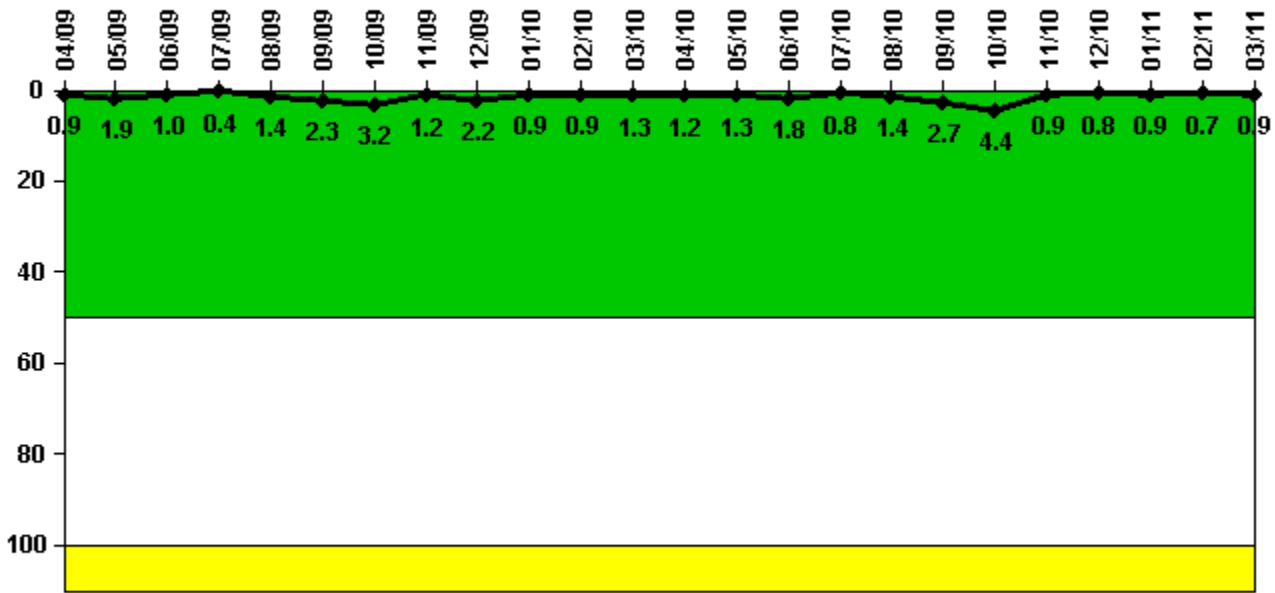
Thresholds: White > 50.0 Yellow > 100.0

Notes

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	0.000256	0.000234	0.000237	0.000327	0.000572	0.000318	0.000279	0.000037	0.000664	0.000161	0.000185	0.000263
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	0	0	0.1	0	0	0	0.1	0	0	0
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	0.000236	0.000248	0.000204	0.000375	0.000316	0.000209	0.000270	0.000219	0.000250	0.000256	0.000266	0.000277
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	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



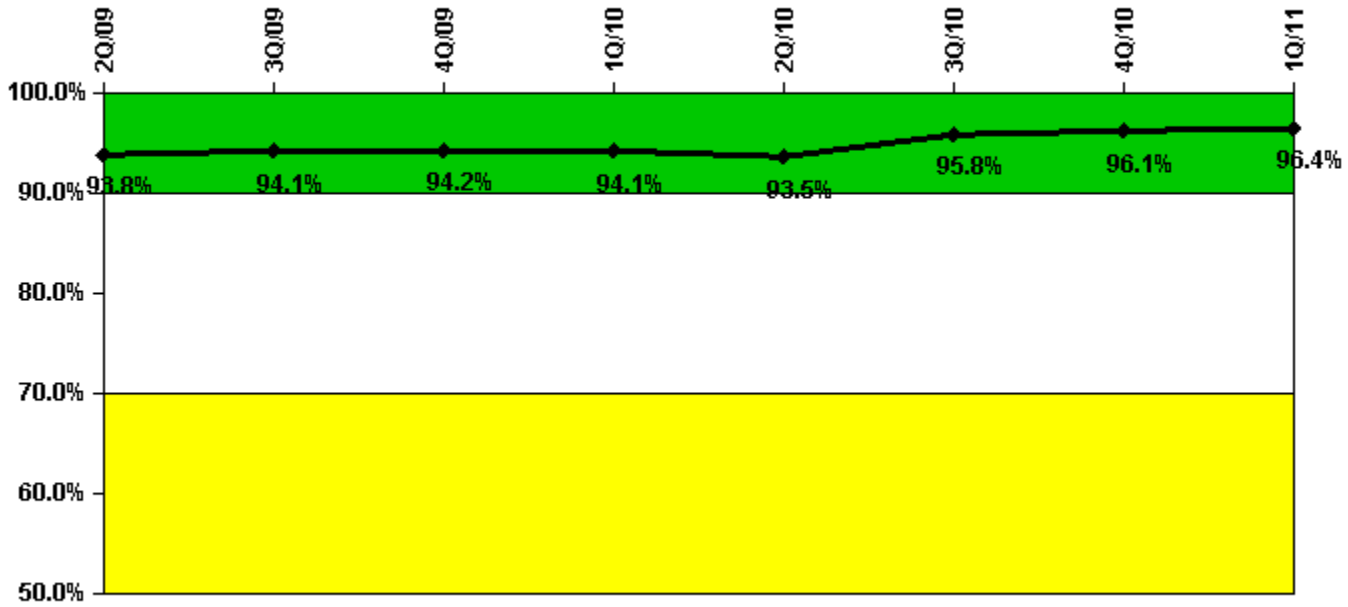
Thresholds: White > 50.0 Yellow > 100.0

Notes

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	0.090	0.190	0.100	0.040	0.140	0.230	0.320	0.120	0.220	0.090	0.090	0.130
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	0.9	1.9	1.0	0.4	1.4	2.3	3.2	1.2	2.2	0.9	0.9	1.3
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	0.120	0.130	0.180	0.080	0.140	0.270	0.440	0.090	0.080	0.090	0.070	0.090
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	1.2	1.3	1.8	0.8	1.4	2.7	4.4	0.9	0.8	0.9	0.7	0.9

Licensee Comments: none

Drill/Exercise Performance



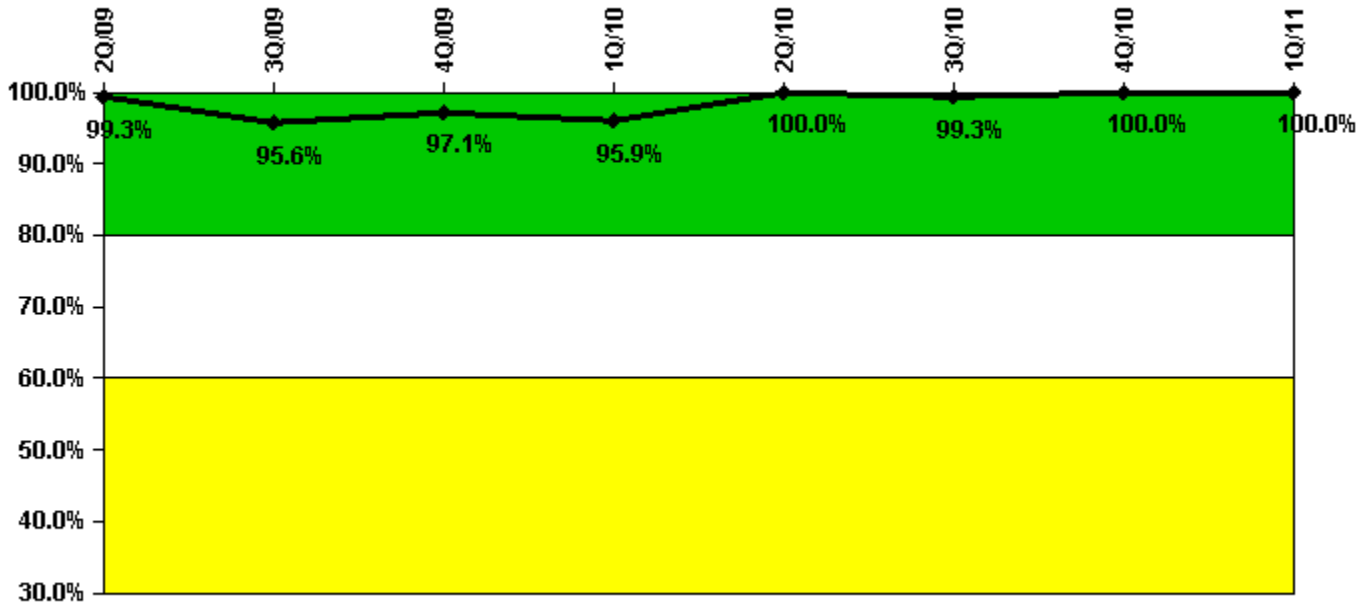
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful opportunities	36.0	20.0	26.0	38.0	33.0	41.0	15.0	31.0
Total opportunities	39.0	21.0	26.0	40.0	35.0	41.0	15.0	32.0
Indicator value	93.8%	94.1%	94.2%	94.1%	93.5%	95.8%	96.1%	96.4%

Licensee Comments: none

ERO Drill Participation



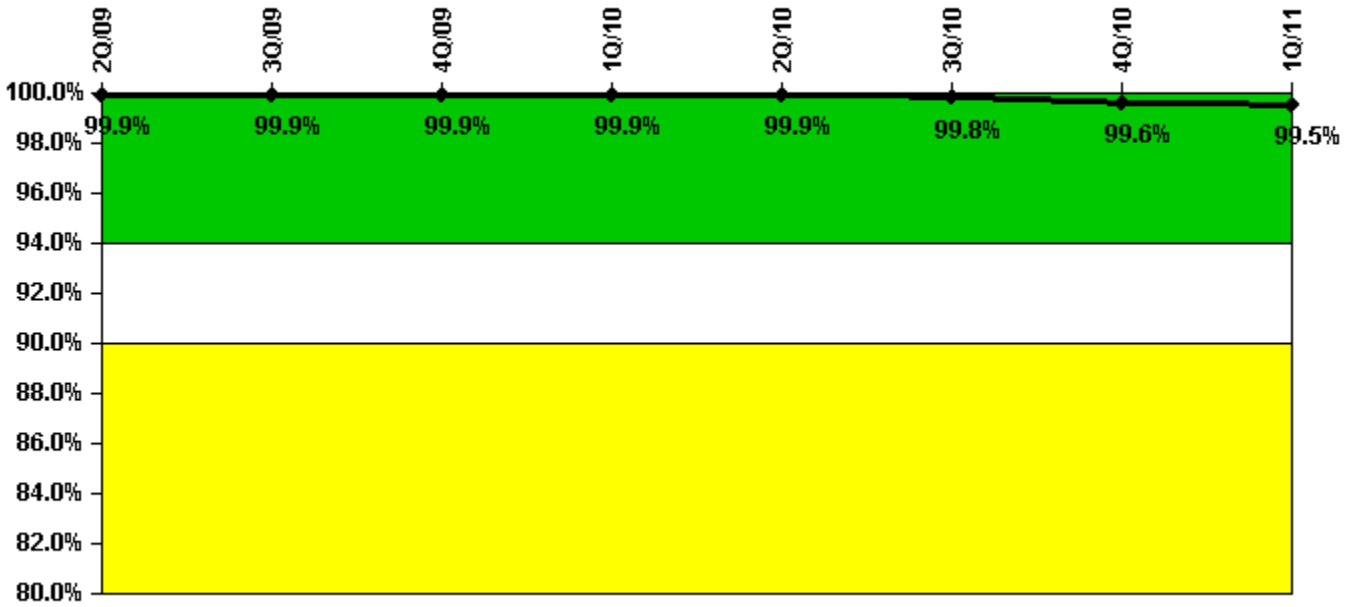
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Participating Key personnel	136.0	130.0	135.0	142.0	145.0	143.0	128.0	132.0
Total Key personnel	137.0	136.0	139.0	148.0	145.0	144.0	128.0	132.0
Indicator value	99.3%	95.6%	97.1%	95.9%	100.0%	99.3%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	475	543	544	476	542	473	540	408
Total sirens-tests	476	544	544	476	544	476	544	408
Indicator value	99.9%	99.9%	99.9%	99.9%	99.9%	99.8%	99.6%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

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