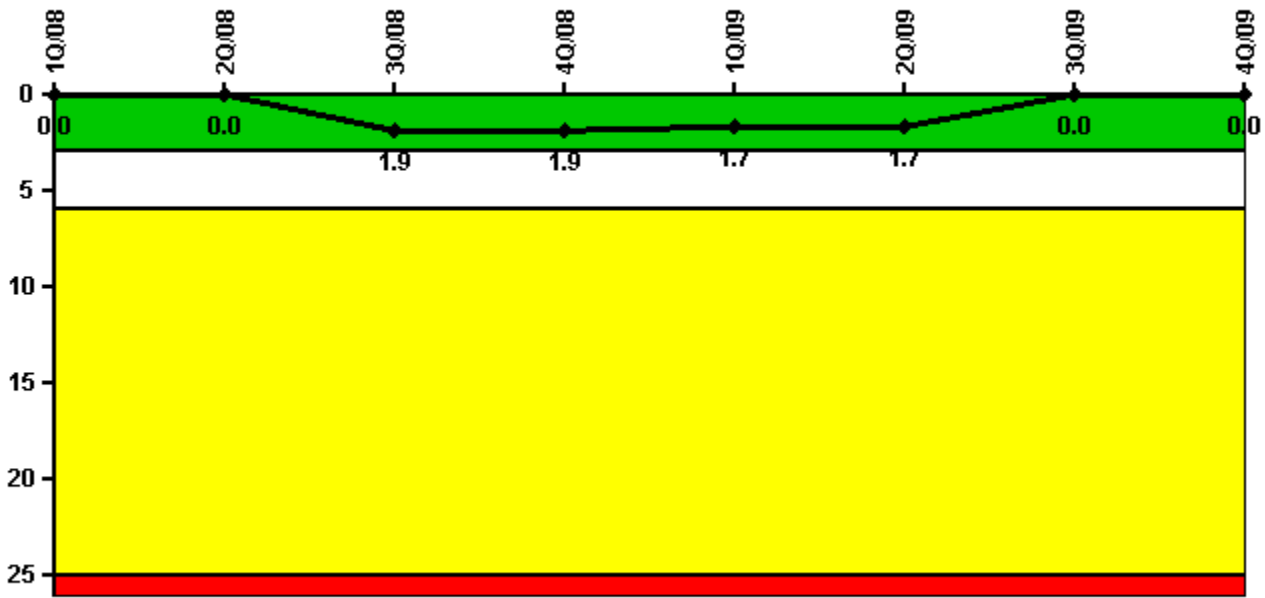


Watts Bar 1

4Q/2009 Performance Indicators

Licensee's General Comments: Corrections were made to the CY2009 Consolidated Data Entry for Maximum Dose Equivalent Iodine I-131. PER 213277 was initiated to document these errors in January, April, and September 2009 data.

Unplanned Scrams per 7000 Critical Hrs



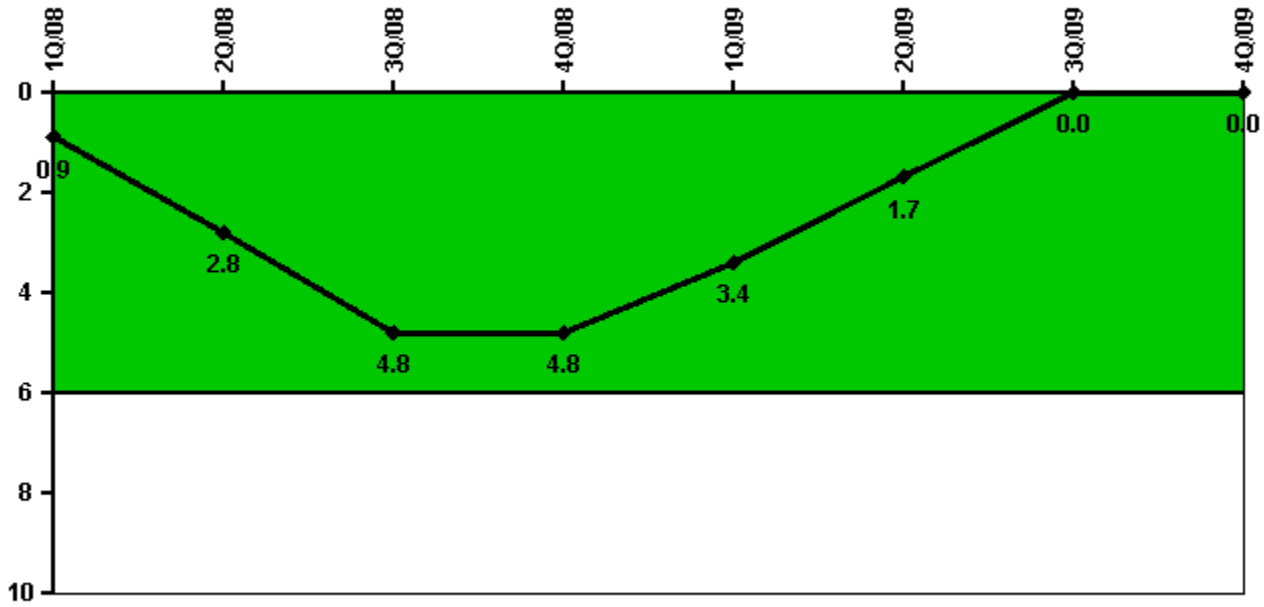
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned scrams	0	0	2.0	0	0	0	0	0
Critical hours	1164.2	2004.3	1930.2	2209.0	2159.0	2184.0	1968.0	1753.9
Indicator value	0	0	1.9	1.9	1.7	1.7	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/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	1.0	2.0	2.0	0	0	0	0	0
Critical hours	1164.2	2004.3	1930.2	2209.0	2159.0	2184.0	1968.0	1753.9
Indicator value	0.9	2.8	4.8	4.8	3.4	1.7	0	0

Licensee Comments: none

Unplanned Scrams with Complications



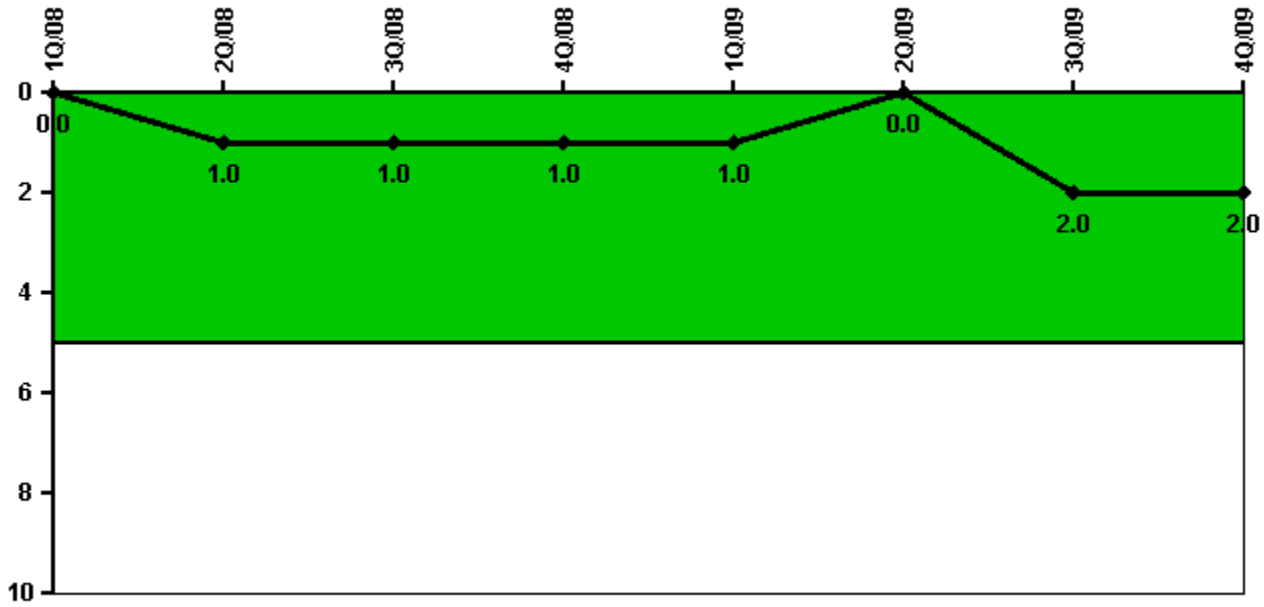
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
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)



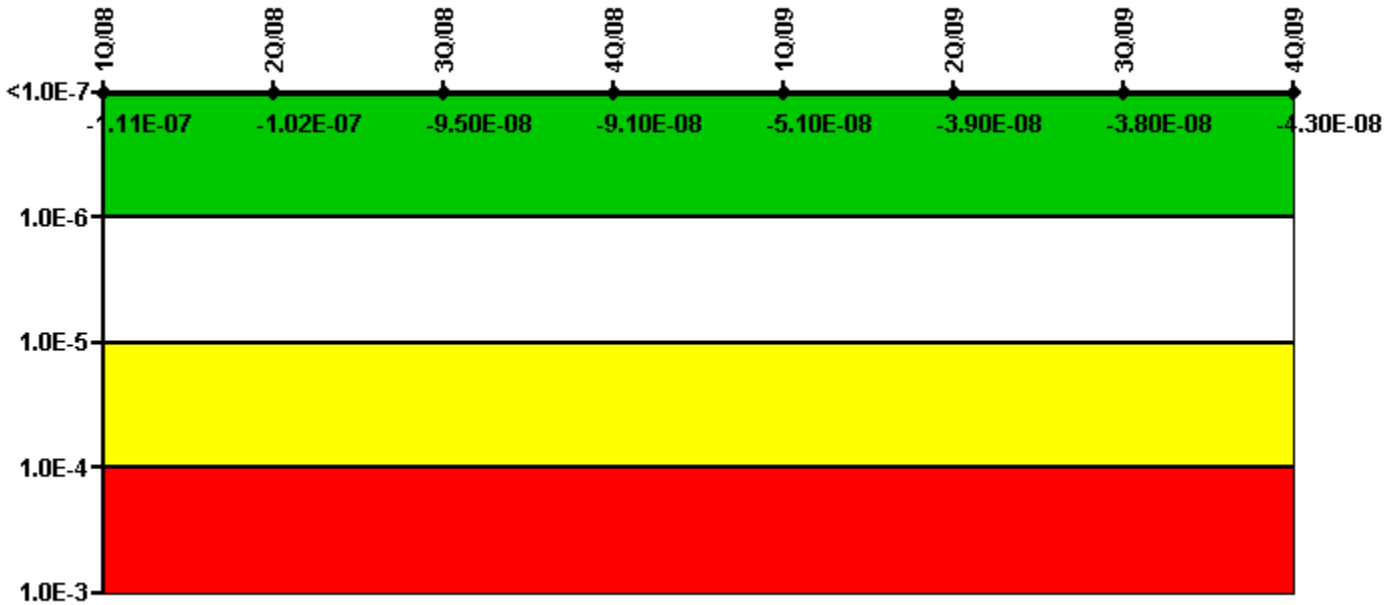
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



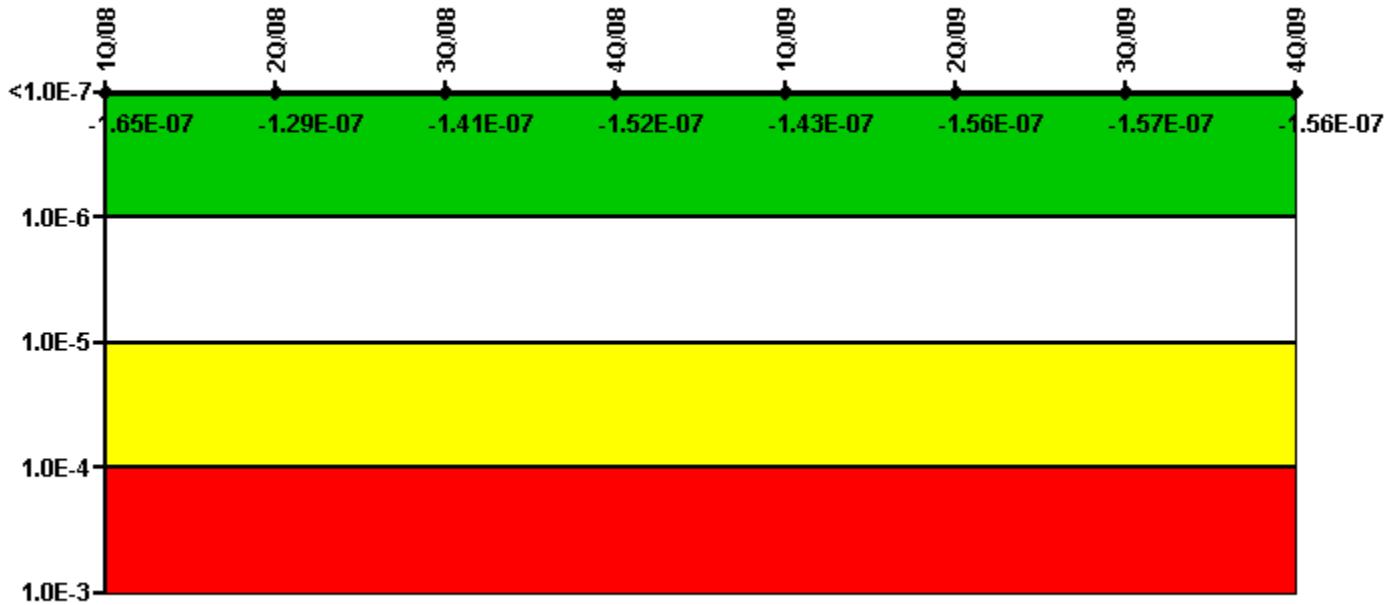
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	1.90E-08	2.80E-08	3.50E-08	3.90E-08	4.20E-08	5.40E-08	5.70E-08	5.20E-08
URI (Δ CDF)	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-9.30E-08	-9.30E-08	-9.50E-08	-9.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.11E-07	-1.02E-07	-9.50E-08	-9.10E-08	-5.10E-08	-3.90E-08	-3.80E-08	-4.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



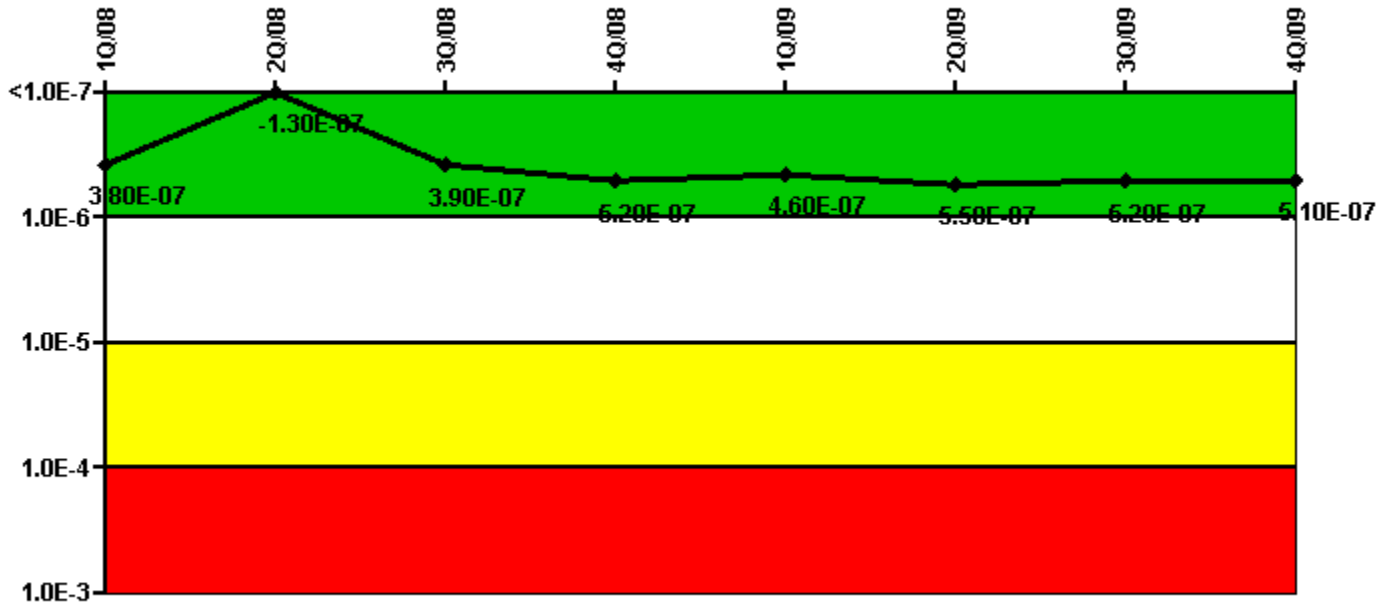
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	1.50E-08	2.10E-08	8.70E-09	-2.10E-09	7.00E-09	-6.00E-09	-7.30E-09	-5.50E-09
URI (Δ CDF)	-1.80E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.65E-07	-1.29E-07	-1.41E-07	-1.52E-07	-1.43E-07	-1.56E-07	-1.57E-07	-1.56E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



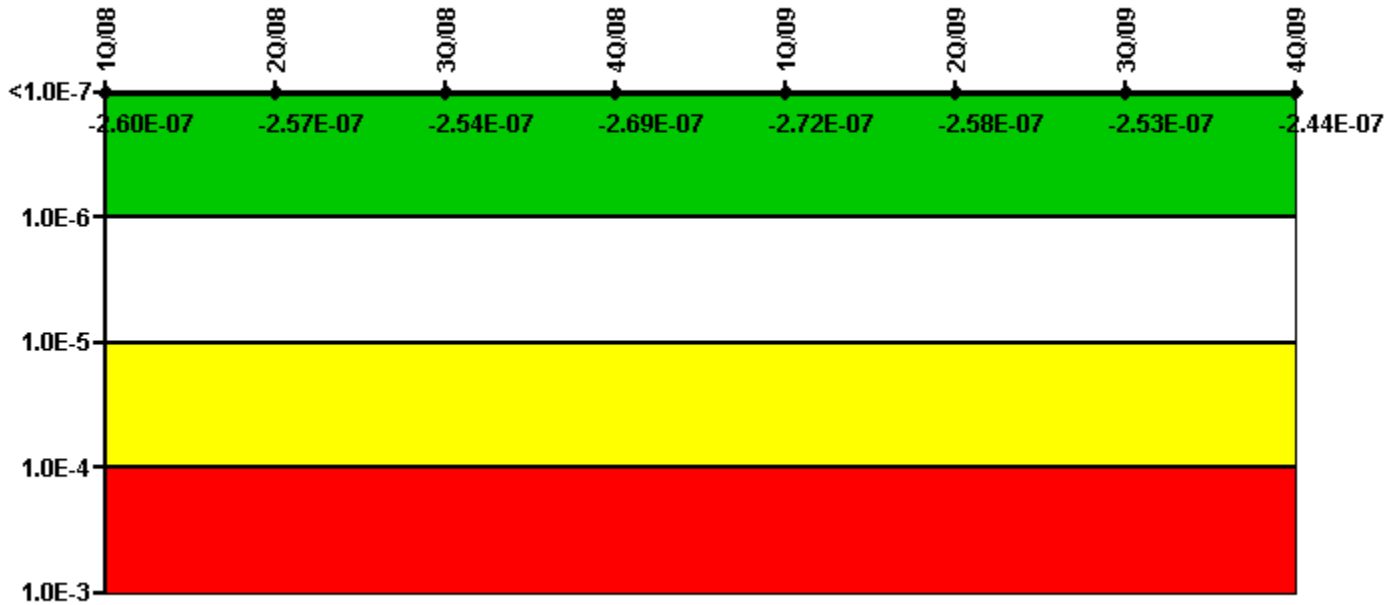
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	2.10E-07	1.60E-07	2.20E-07	2.60E-07	2.00E-07	2.00E-07	1.60E-07	1.50E-07
URI (Δ CDF)	1.70E-07	-2.90E-07	1.70E-07	2.60E-07	2.60E-07	3.50E-07	3.60E-07	3.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.80E-07	-1.30E-07	3.90E-07	5.20E-07	4.60E-07	5.50E-07	5.20E-07	5.10E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



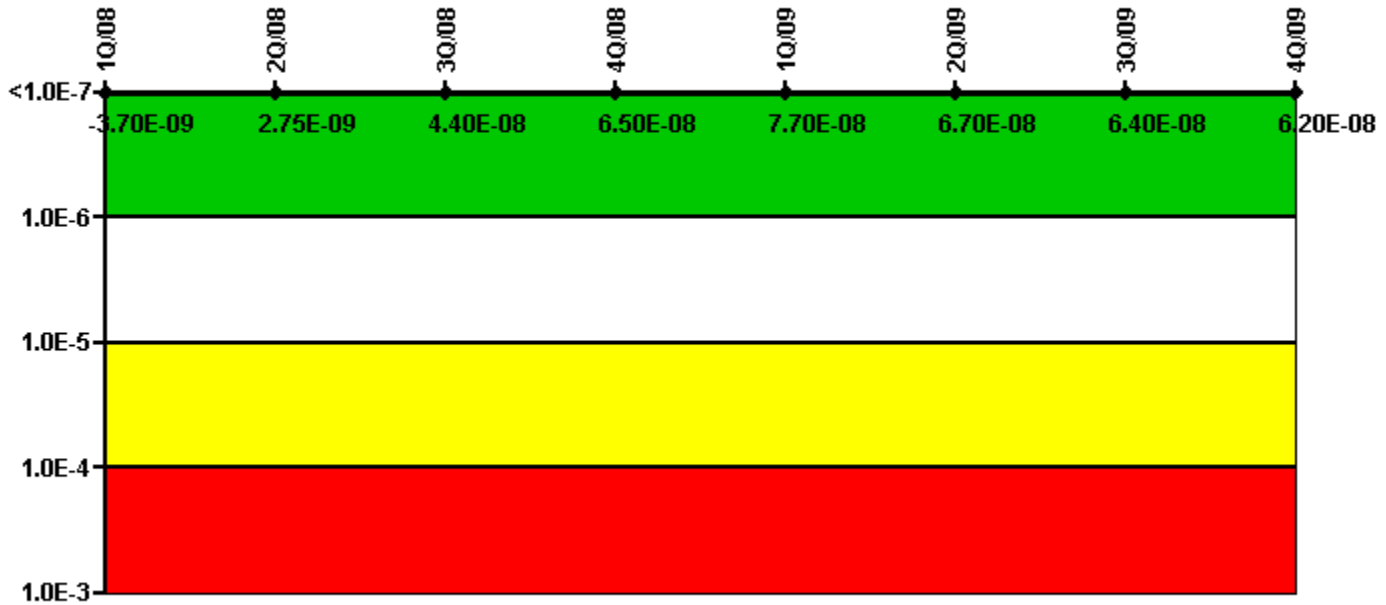
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-9.50E-09	-6.70E-09	-3.50E-09	-1.90E-08	-2.20E-08	-8.20E-09	-3.00E-09	5.60E-09
URI (Δ CDF)	-2.50E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-07	-2.57E-07	-2.54E-07	-2.69E-07	-2.72E-07	-2.58E-07	-2.53E-07	-2.44E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



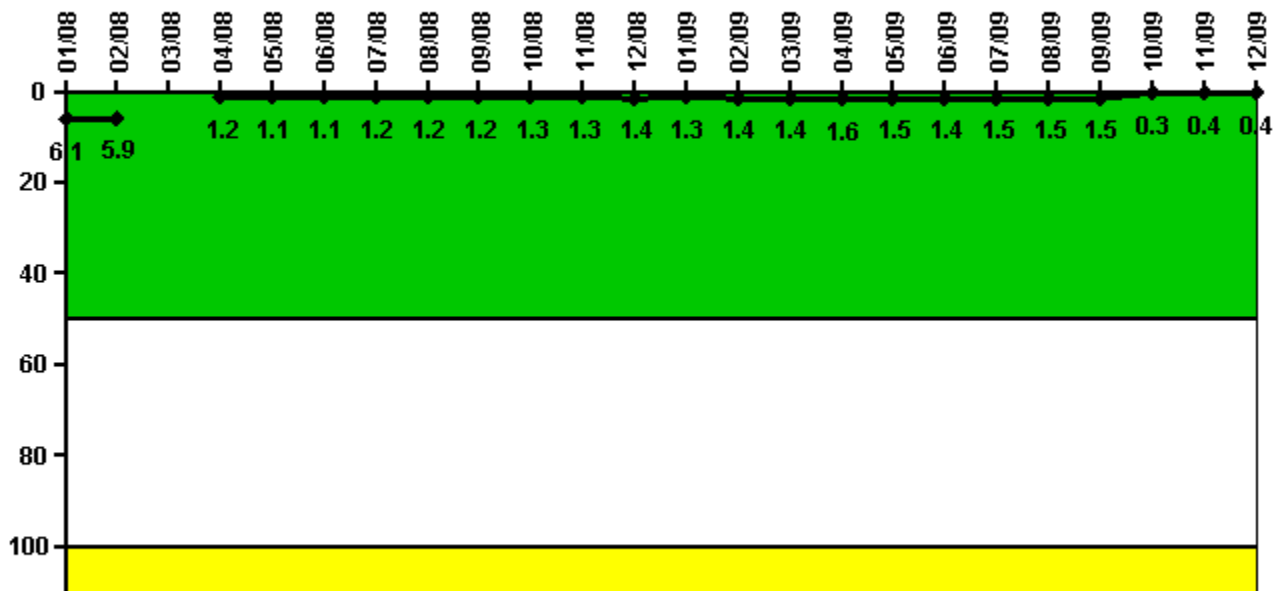
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	4.30E-09	3.00E-09	3.20E-08	5.30E-08	6.50E-08	5.50E-08	5.20E-08	5.00E-08
URI (Δ CDF)	-8.00E-09	-2.50E-10	1.20E-08	1.20E-08	1.20E-08	1.20E-08	1.20E-08	1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.70E-09	2.75E-09	4.40E-08	6.50E-08	7.70E-08	6.70E-08	6.40E-08	6.20E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

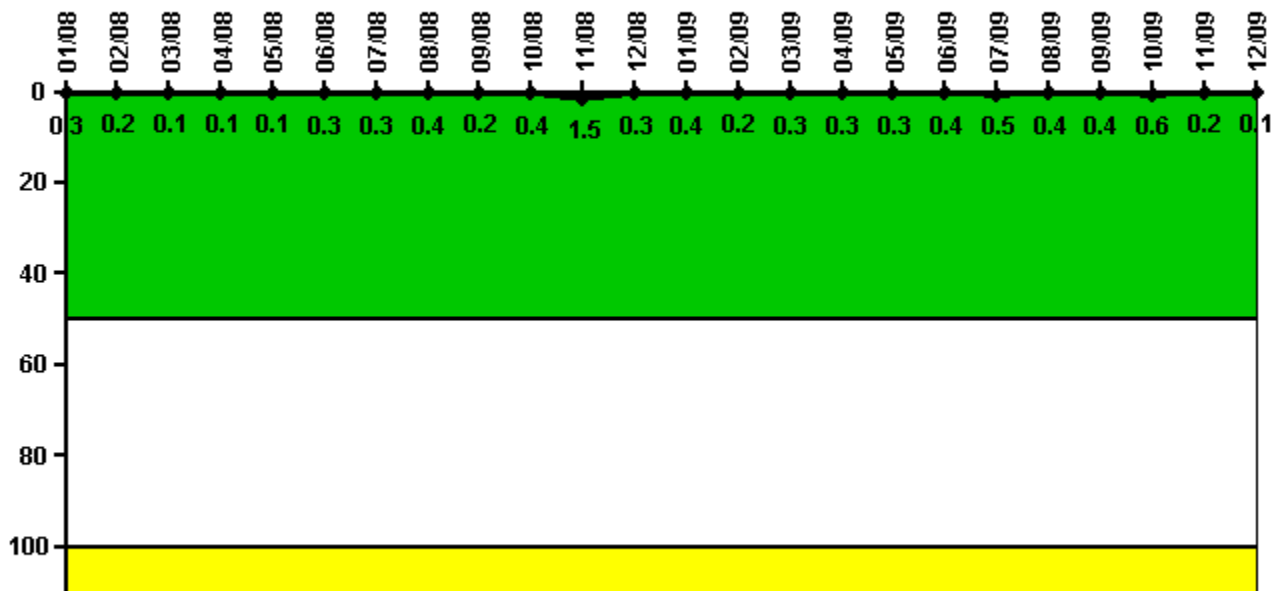
Notes

Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.016100	0.015600	N/A	0.003098	0.002874	0.003022	0.003092	0.003093	0.003252	0.003368	0.003390	0.003801
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	6.1	5.9	N/A	1.2	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.4

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	0.003481	0.003693	0.003662	0.004110	0.003844	0.003790	0.003882	0.004091	0.004052	0.000819	0.001042	0.000935
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	1.3	1.4	1.4	1.6	1.5	1.4	1.5	1.5	1.5	0.3	0.4	0.4

Licensee Comments: none

Reactor Coolant System Leakage



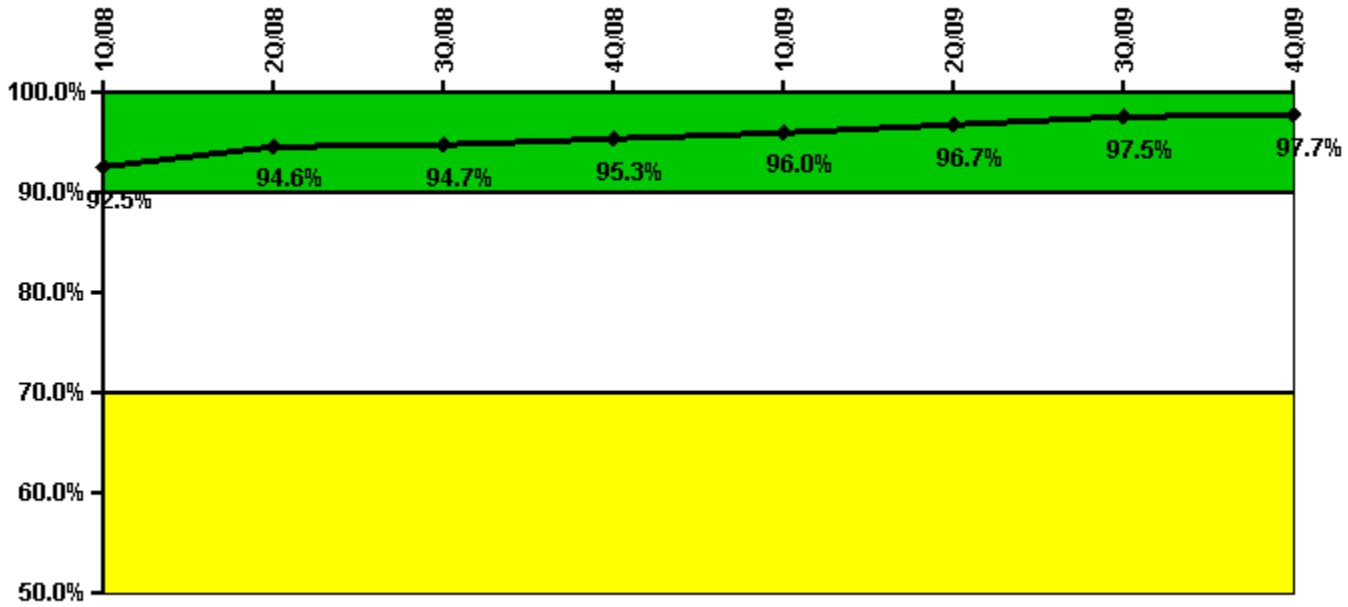
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	0.030	0.020	0.010	0.010	0.010	0.030	0.030	0.040	0.020	0.040	0.150	0.030
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	0.3	0.2	0.1	0.1	0.1	0.3	0.3	0.4	0.2	0.4	1.5	0.3
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	0.040	0.020	0.030	0.030	0.030	0.040	0.050	0.040	0.040	0.060	0.020	0.010
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	0.4	0.2	0.3	0.3	0.3	0.4	0.5	0.4	0.4	0.6	0.2	0.1

Licensee Comments: none

Drill/Exercise Performance



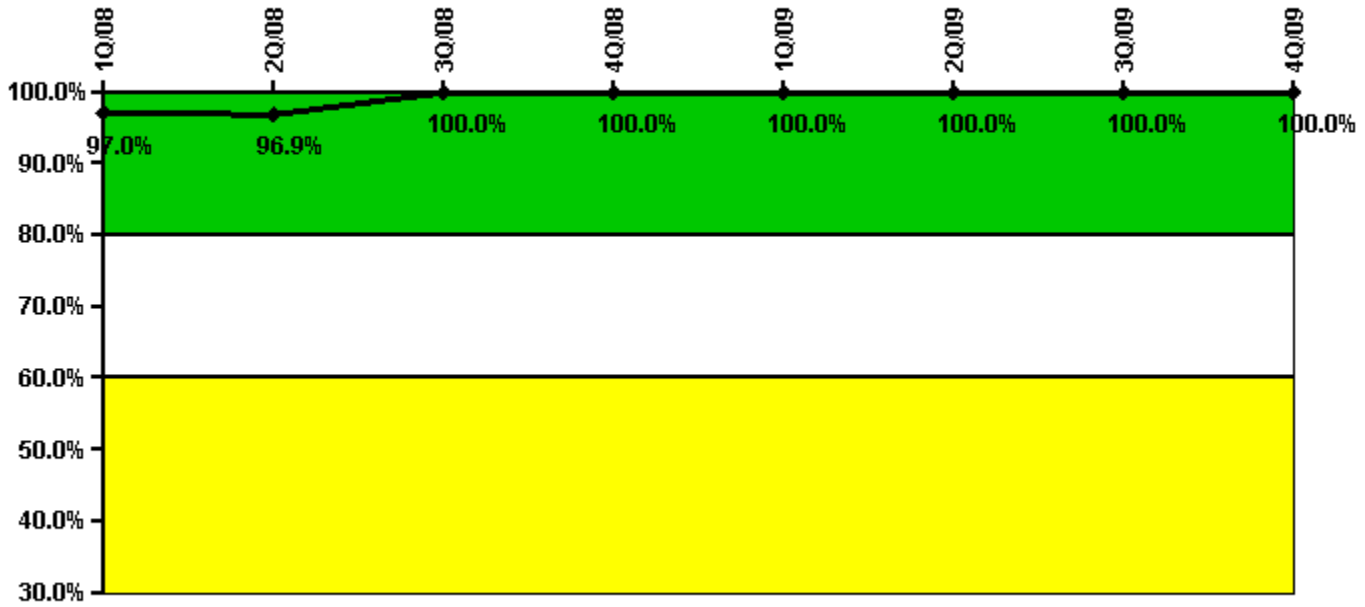
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	7.0	47.0	18.0	41.0	54.0	108.0	46.0	18.0
Total opportunities	9.0	48.0	18.0	42.0	56.0	110.0	46.0	18.0
Indicator value	92.5%	94.6%	94.7%	95.3%	96.0%	96.7%	97.5%	97.7%

Licensee Comments: none

ERO Drill Participation



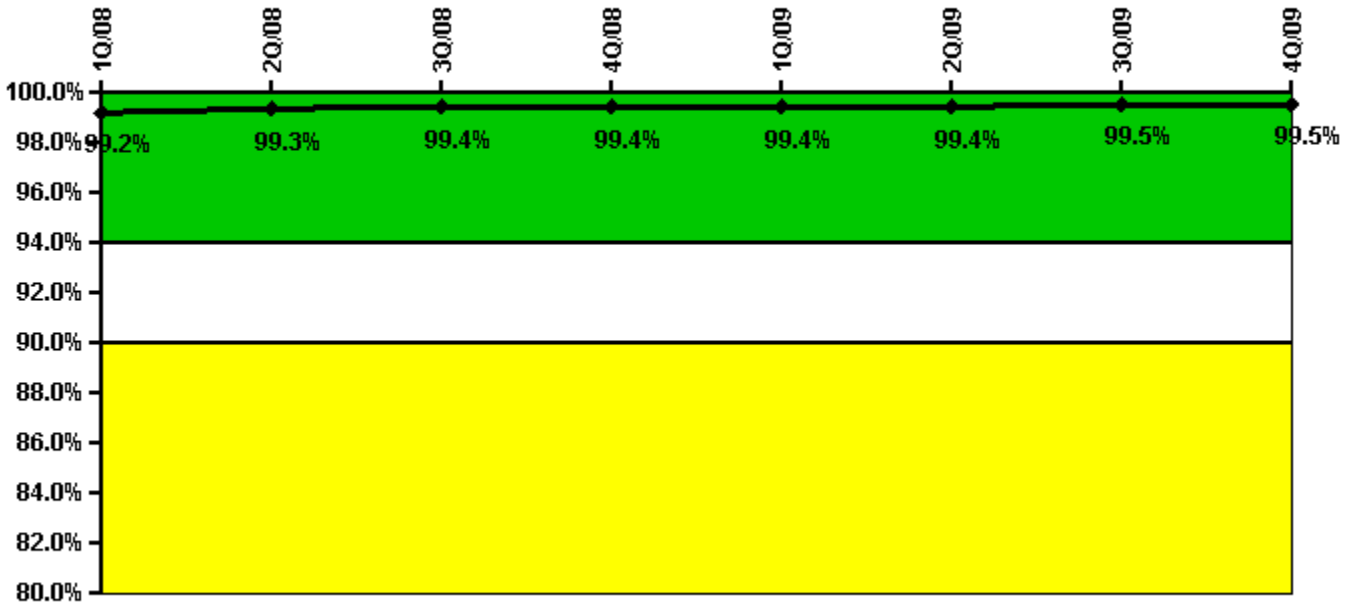
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	64.0	62.0	69.0	73.0	76.0	72.0	65.0	68.0
Total Key personnel	66.0	64.0	69.0	73.0	76.0	72.0	65.0	68.0
Indicator value	97.0%	96.9%	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	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	689	690	687	887	591	887	788	886
Total sirens-tests	693	693	693	891	594	891	792	891
Indicator value	99.2%	99.3%	99.4%	99.4%	99.4%	99.4%	99.5%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
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/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
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.