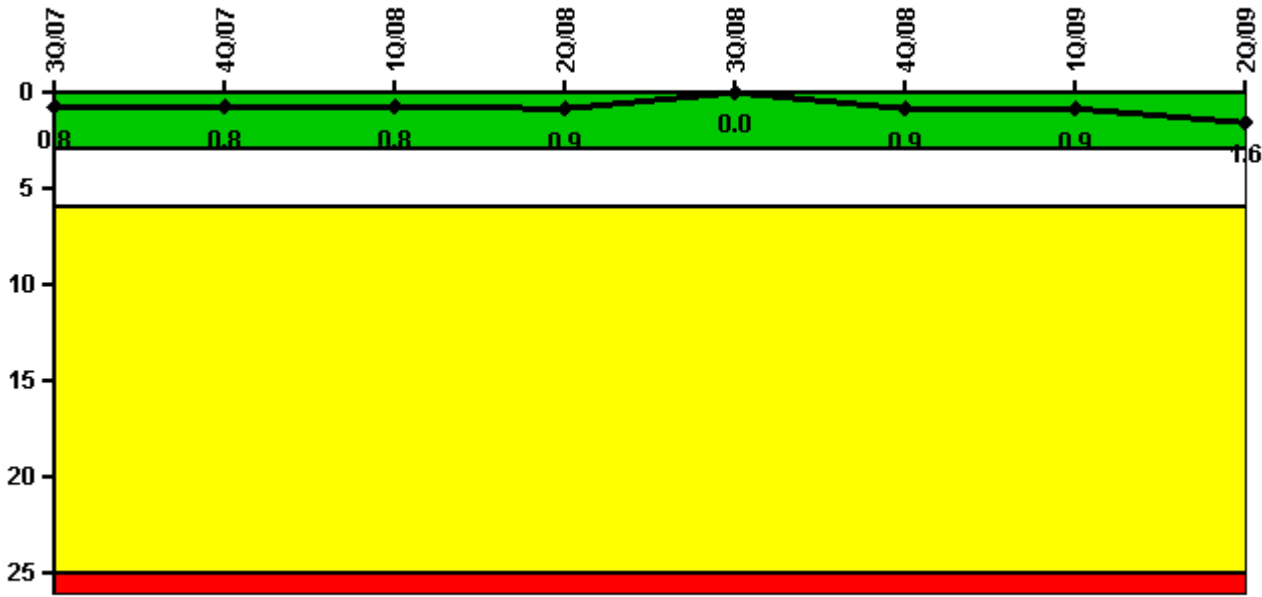


Braidwood 2

2Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



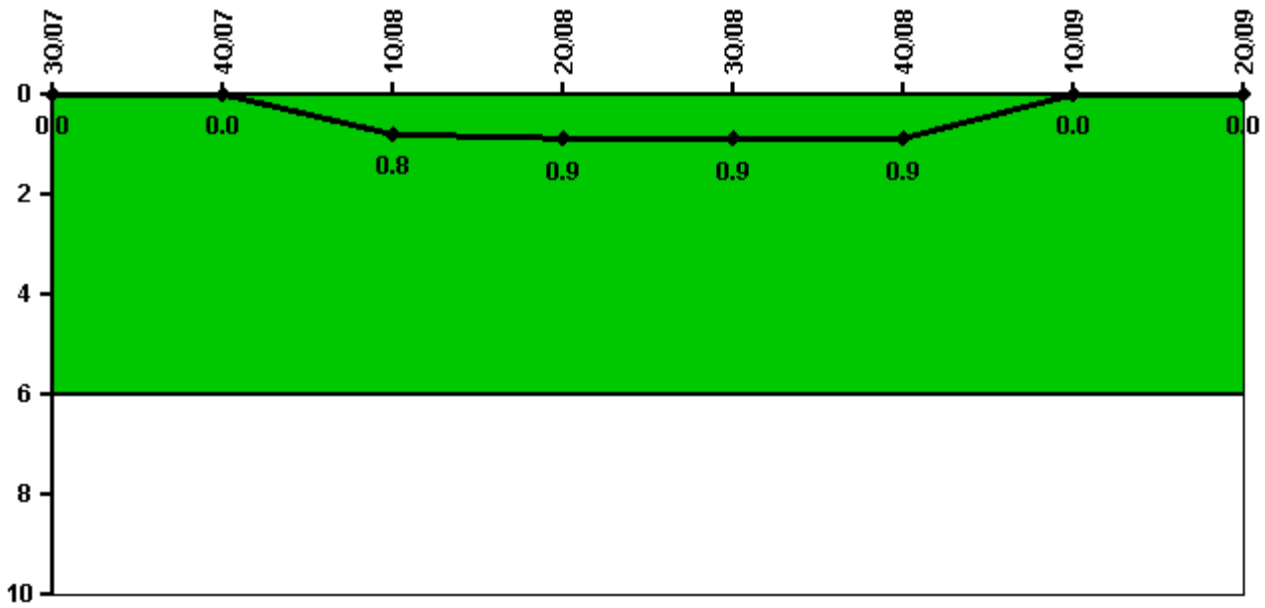
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned scrams	1.0	0	0	0	0	1.0	0	1.0
Critical hours	2181.0	2209.0	2183.0	1567.6	2208.0	2174.3	2159.0	2157.5
Indicator value	0.8	0.8	0.8	0.9	0	0.9	0.9	1.6

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



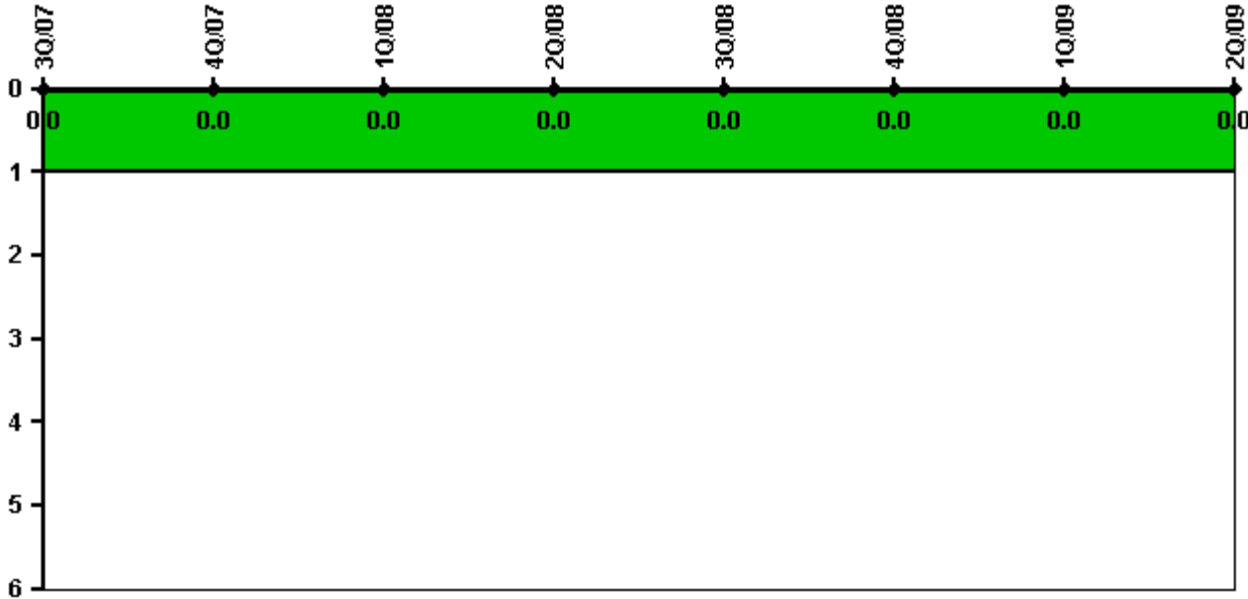
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2181.0	2209.0	2183.0	1567.6	2208.0	2174.3	2159.0	2157.5
Indicator value	0	0	0.8	0.9	0.9	0.9	0	0

Licensee Comments: none

Unplanned Scrams with Complications



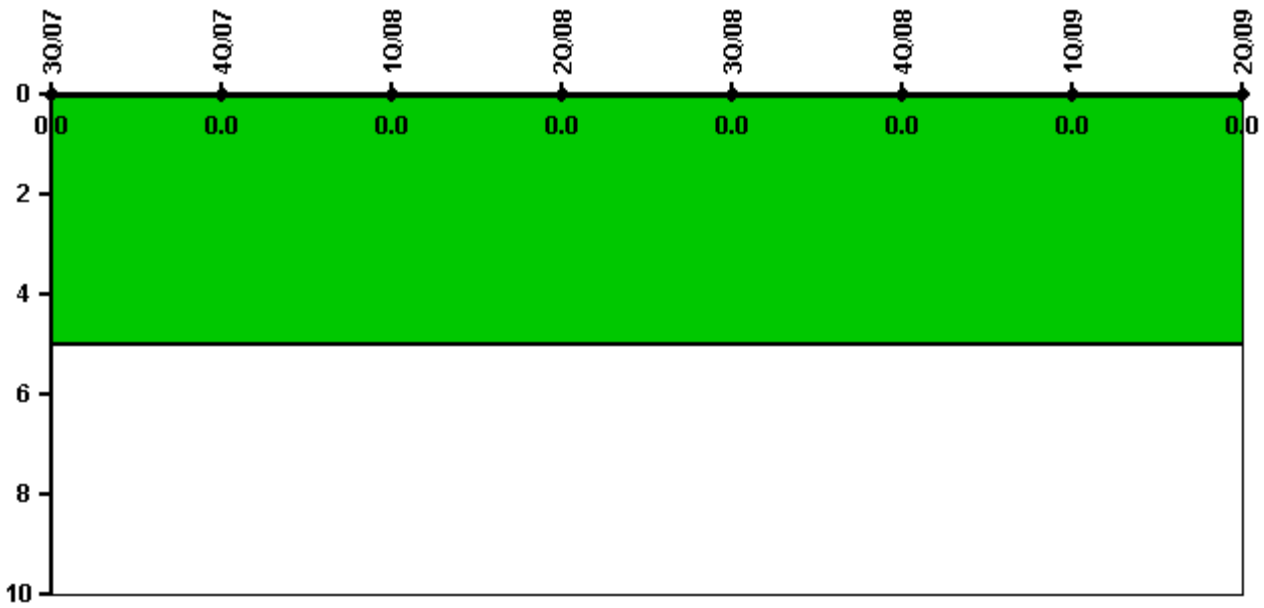
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/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)



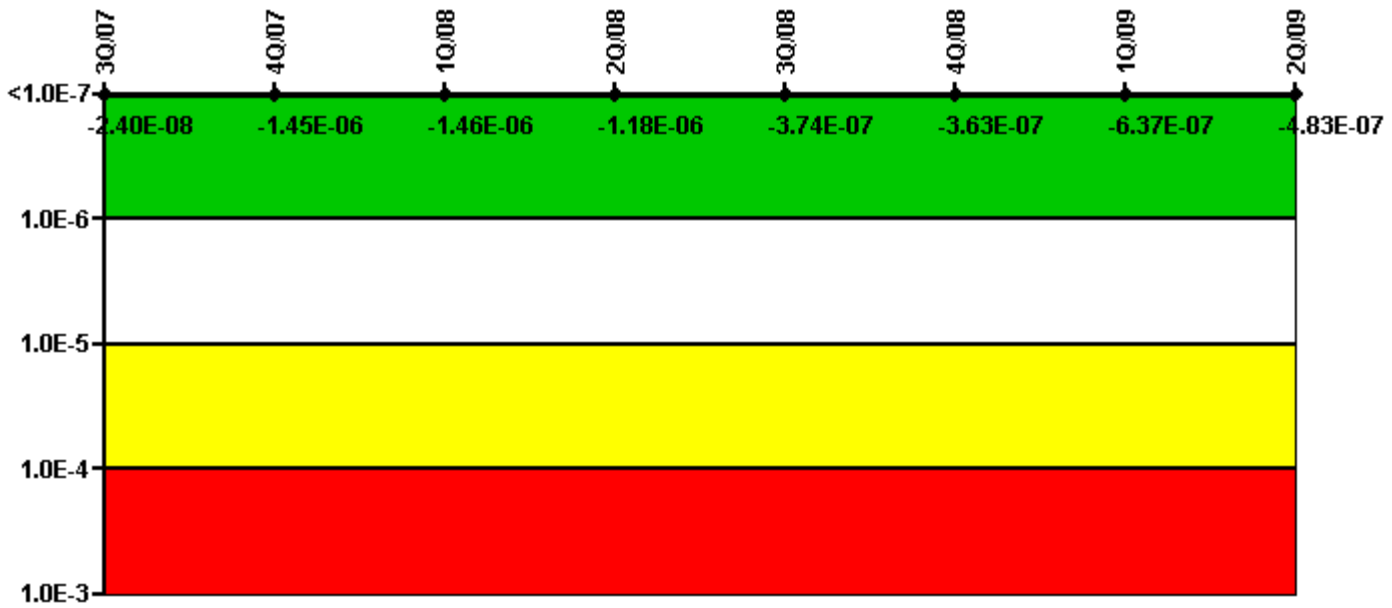
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



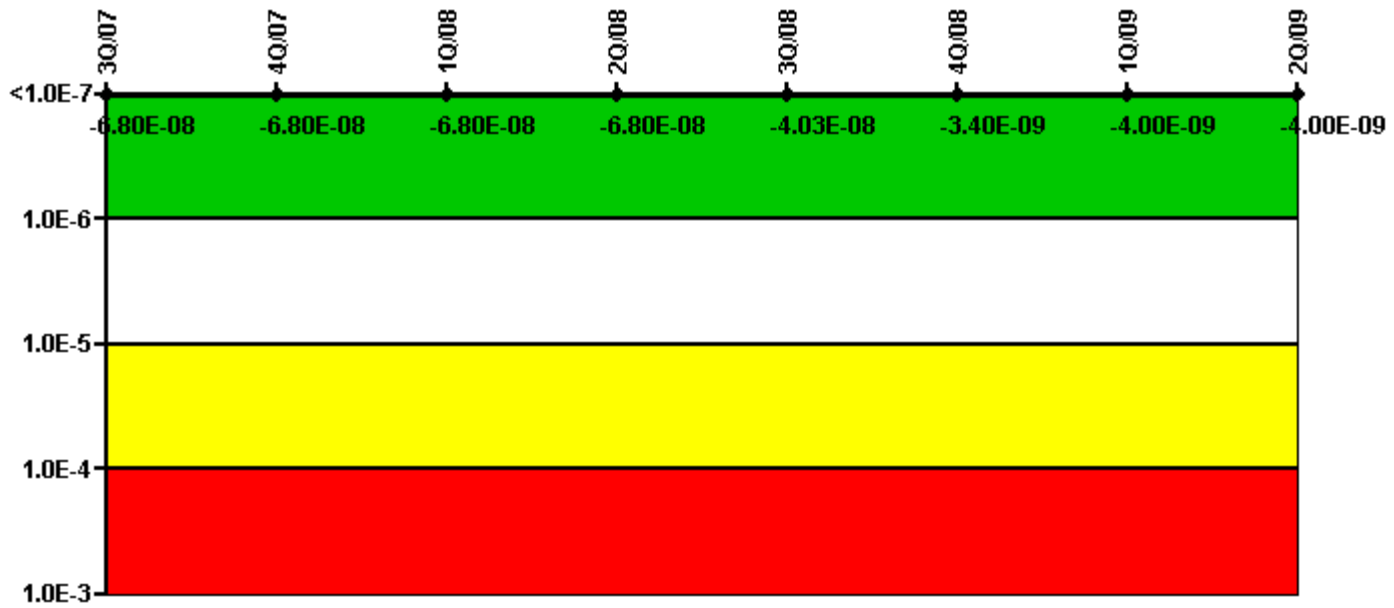
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (Δ CDF)	2.30E-08	4.70E-08	4.00E-08	2.40E-08	5.90E-09	6.80E-09	1.30E-08	7.30E-09
URI (Δ CDF)	-4.70E-08	-1.50E-06	-1.50E-06	-1.20E-06	-3.80E-07	-3.70E-07	-6.50E-07	-4.90E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-08	-1.45E-06	-1.46E-06	-1.18E-06	-3.74E-07	-3.63E-07	-6.37E-07	-4.83E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



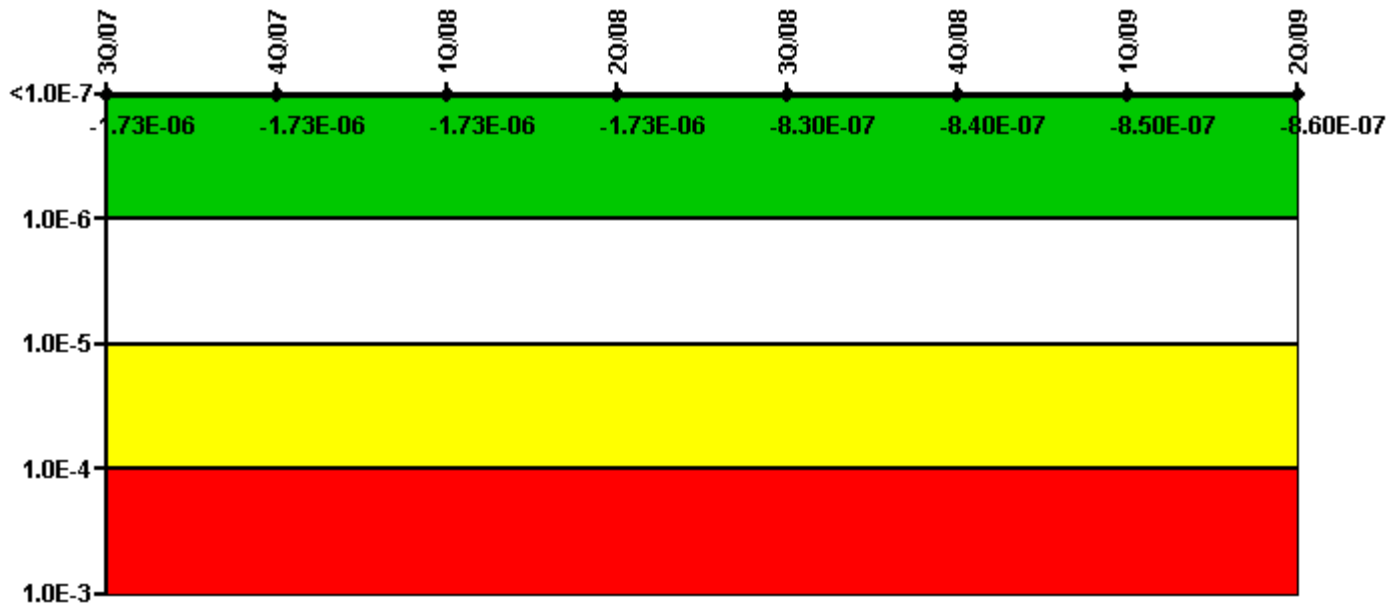
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (Δ CDF)	-5.40E-08	-5.40E-08	-5.40E-08	-5.40E-08	-3.10E-08	5.90E-09	1.10E-08	1.10E-08
URI (Δ CDF)	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-9.30E-09	-9.30E-09	-1.50E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.80E-08	-6.80E-08	-6.80E-08	-6.80E-08	-4.03E-08	-3.40E-09	-4.00E-09	-4.00E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



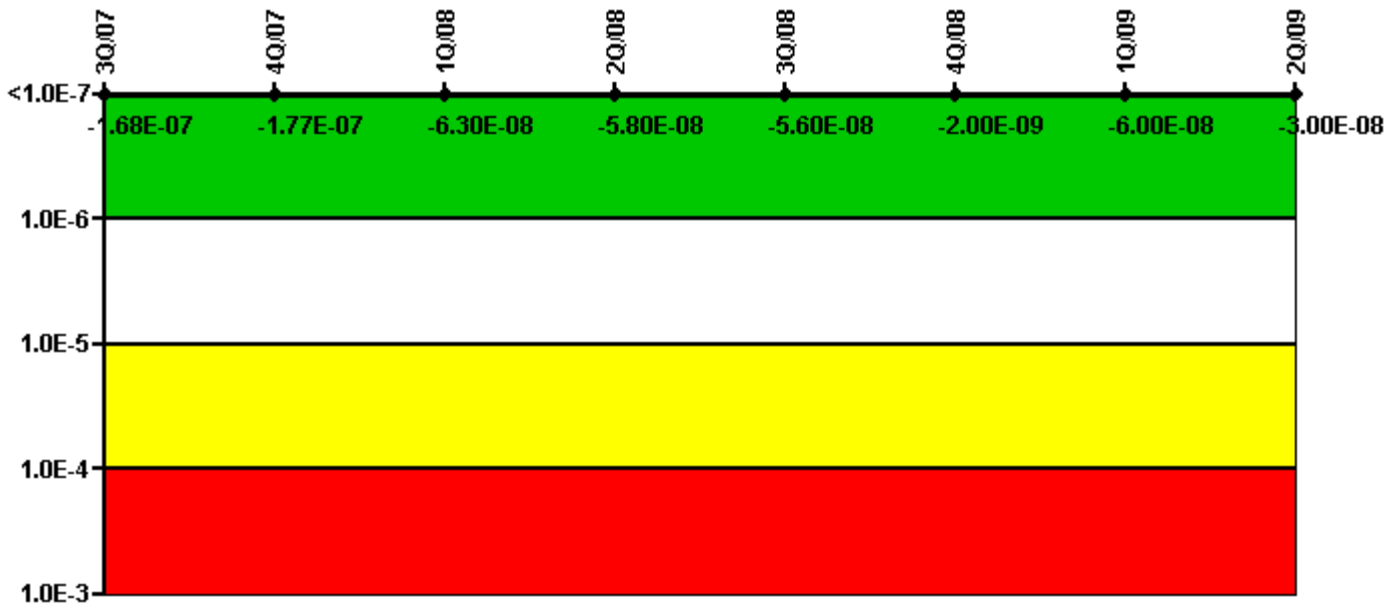
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (Δ CDF)	-6.30E-07	-6.30E-07	-6.30E-07	-6.30E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07
URI (Δ CDF)	-1.10E-06	-1.10E-06	-1.10E-06	-1.10E-06	-6.10E-07	-6.20E-07	-6.30E-07	-6.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.73E-06	-1.73E-06	-1.73E-06	-1.73E-06	-8.30E-07	-8.40E-07	-8.50E-07	-8.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



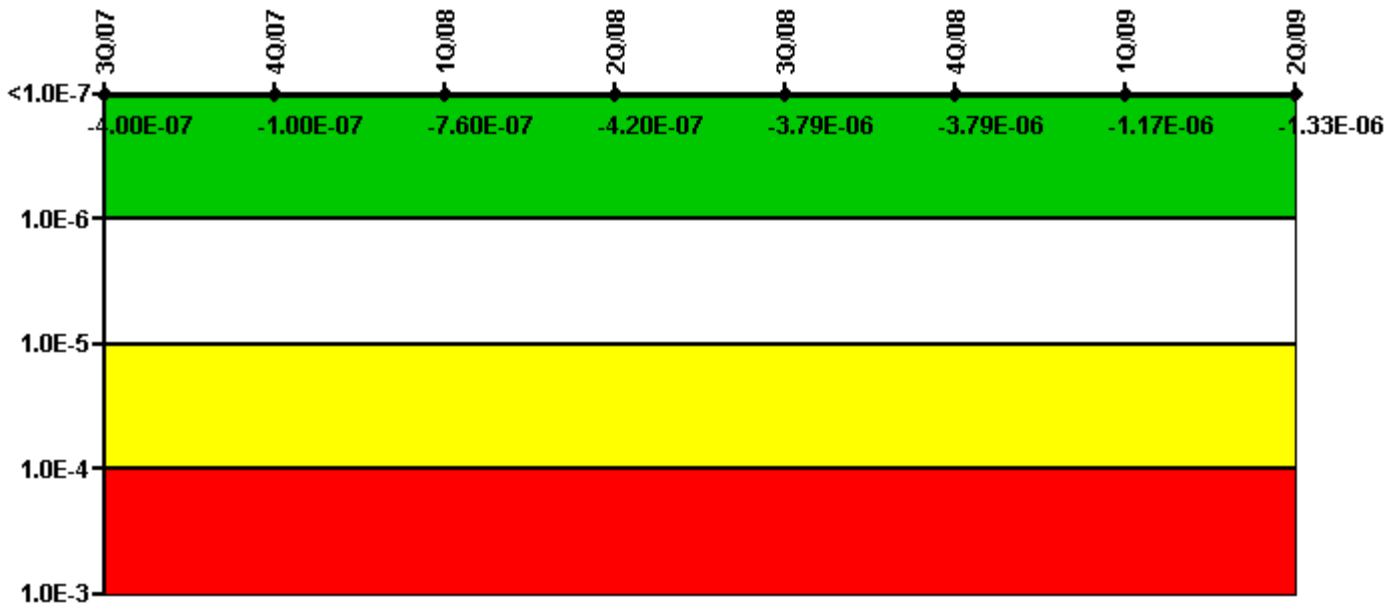
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (Δ CDF)	-3.80E-08	-4.70E-08	6.70E-08	7.20E-08	3.60E-08	9.20E-08	1.10E-07	1.40E-07
URI (Δ CDF)	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-9.20E-08	-9.40E-08	-1.70E-07	-1.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.68E-07	-1.77E-07	-6.30E-08	-5.80E-08	-5.60E-08	-2.00E-09	-6.00E-08	-3.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

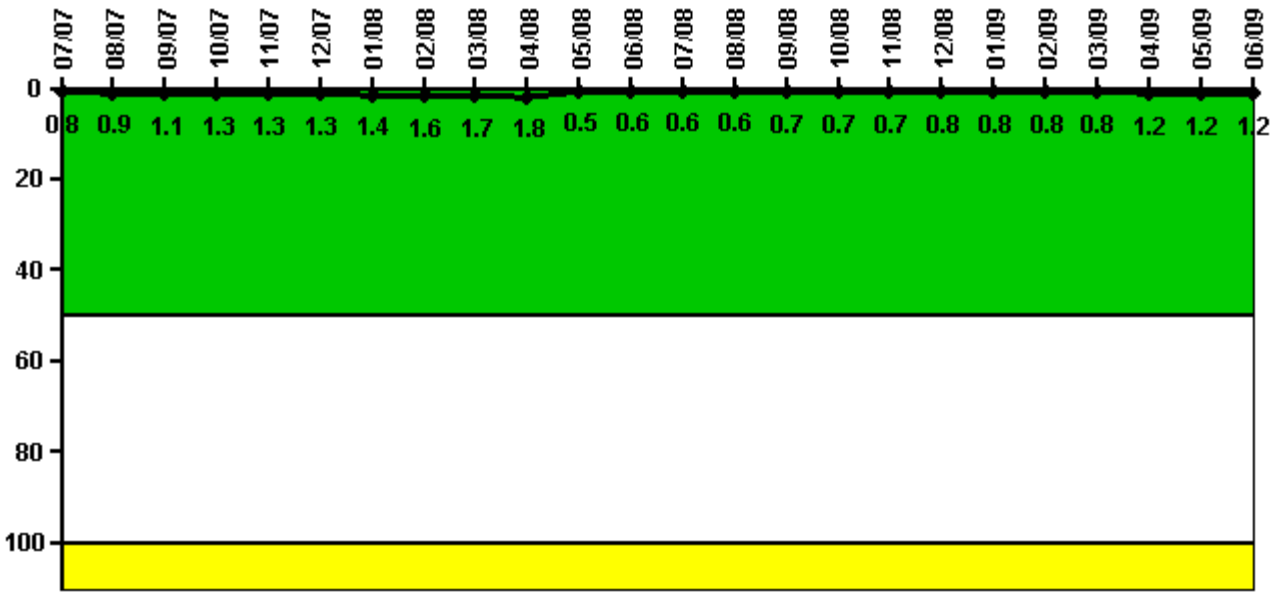
Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (Δ CDF)	1.10E-06	1.20E-06	5.40E-07	6.80E-07	2.10E-07	2.10E-07	1.30E-07	1.70E-07
URI (Δ CDF)	-1.50E-06	-1.30E-06	-1.30E-06	-1.10E-06	-4.00E-06	-4.00E-06	-1.30E-06	-1.50E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.00E-07	-1.00E-07	-7.60E-07	-4.20E-07	-3.79E-06	-3.79E-06	-1.17E-06	-1.33E-06

Licensee Comments:

2Q/09: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

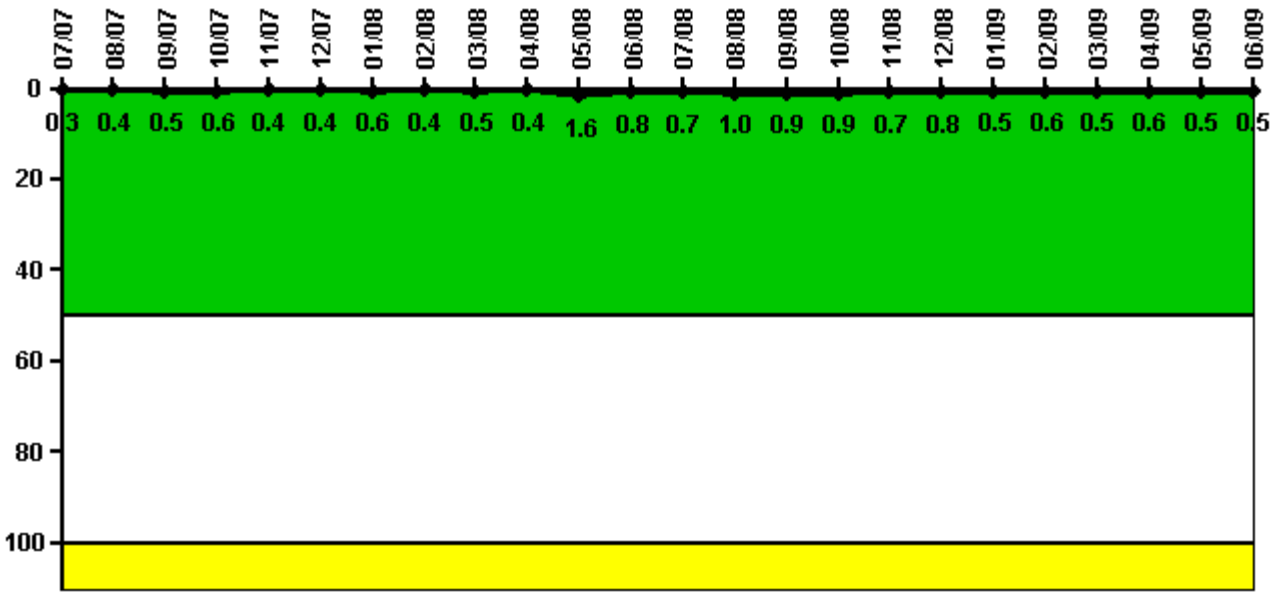
Notes

Reactor Coolant System Activity	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum activity	0.008130	0.008740	0.010600	0.012700	0.012600	0.013200	0.013600	0.015600	0.016800	0.017500	0.005090	0.005760
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	0.8	0.9	1.1	1.3	1.3	1.3	1.4	1.6	1.7	1.8	0.5	0.6

Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.005880	0.006260	0.007050	0.006880	0.007080	0.007670	0.007790	0.007950	0.008320	0.012300	0.011500	0.011700
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	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	1.2	1.2	1.2

Licensee Comments: none

Reactor Coolant System Leakage



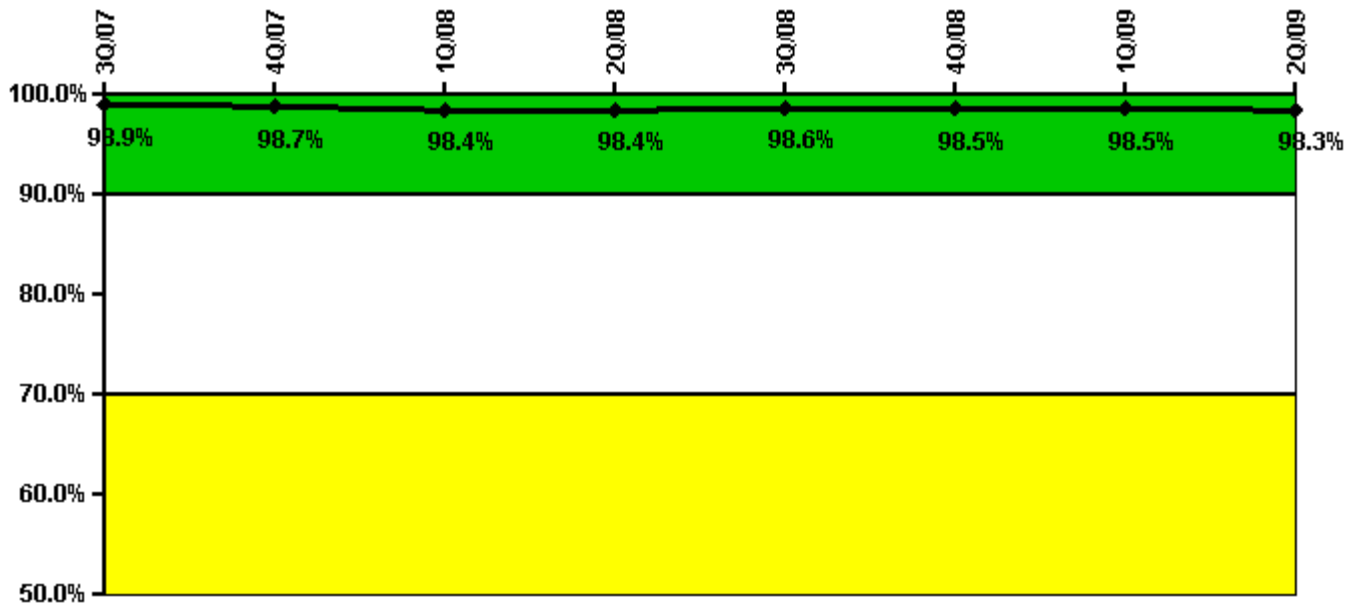
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum leakage	0.034	0.035	0.045	0.056	0.040	0.043	0.062	0.042	0.045	0.038	0.159	0.075
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	0.4	0.5	0.6	0.4	0.4	0.6	0.4	0.5	0.4	1.6	0.8
Reactor Coolant System Leakage	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum leakage	0.065	0.100	0.094	0.088	0.071	0.081	0.054	0.060	0.053	0.064	0.051	0.046
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	0.7	1.0	0.9	0.9	0.7	0.8	0.5	0.6	0.5	0.6	0.5	0.5

Licensee Comments: none

Drill/Exercise Performance



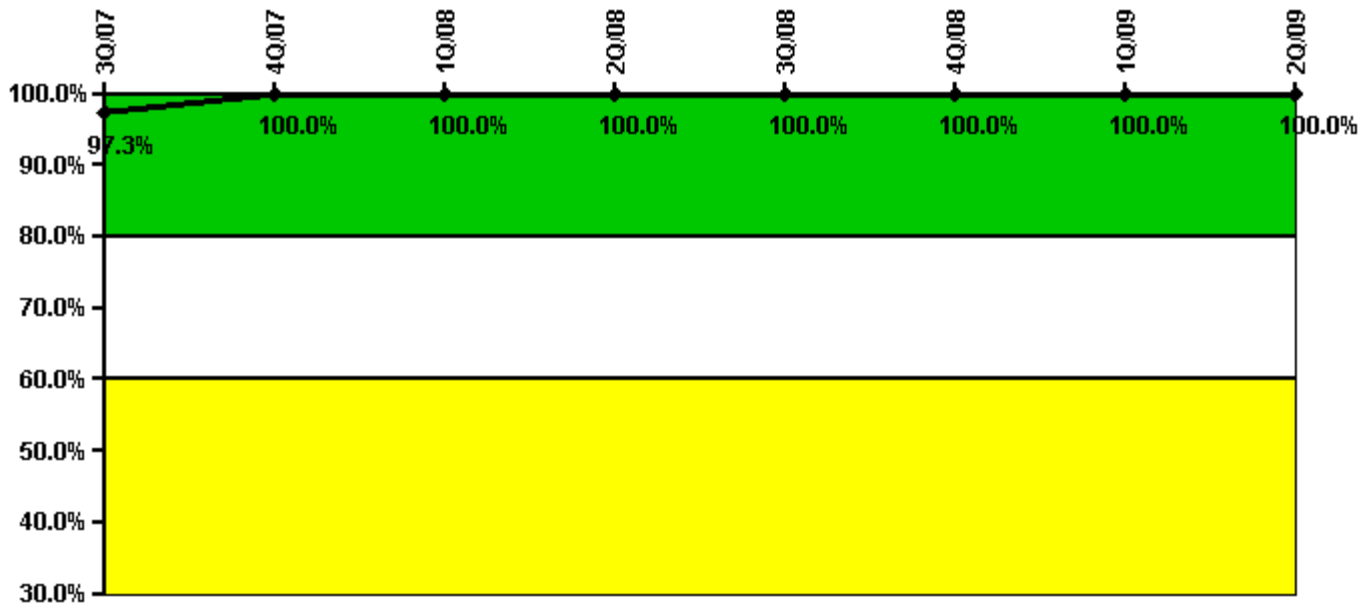
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful opportunities	84.0	18.0	20.0	26.0	134.0	45.0	24.0	47.0
Total opportunities	84.0	19.0	22.0	26.0	136.0	46.0	24.0	48.0
Indicator value	98.9%	98.7%	98.4%	98.4%	98.6%	98.5%	98.5%	98.3%

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

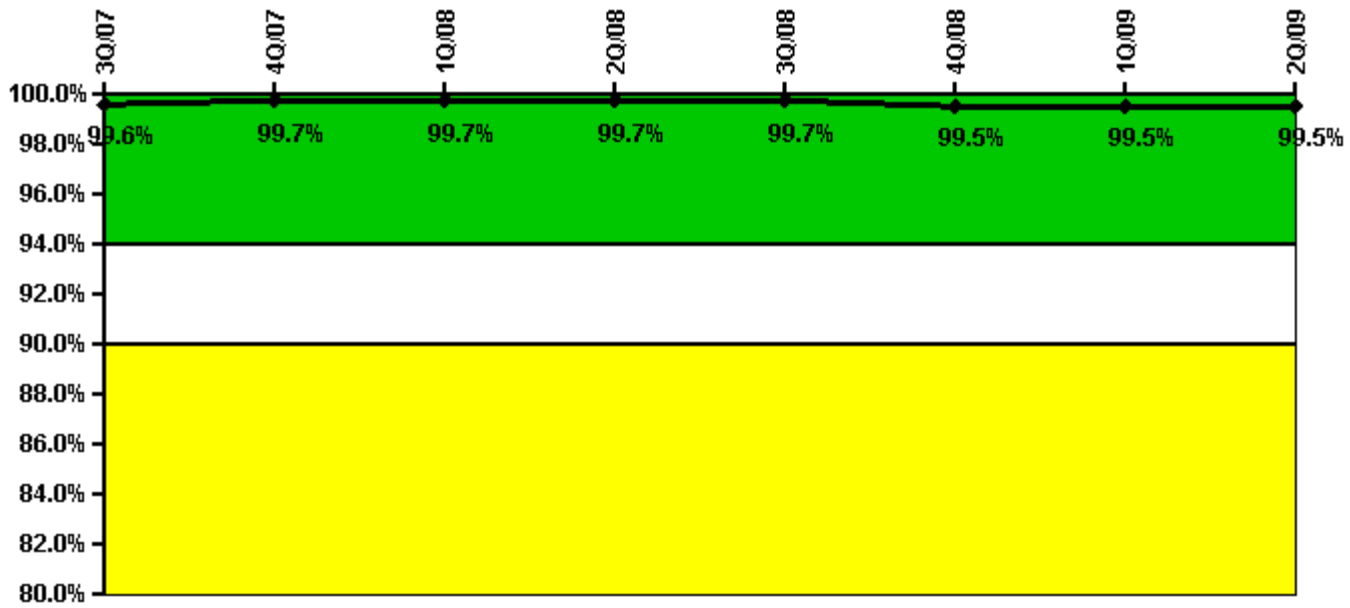
Notes

ERO Drill Participation	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Participating Key personnel	73.0	75.0	72.0	69.0	67.0	65.0	68.0	69.0
Total Key personnel	75.0	75.0	72.0	69.0	67.0	65.0	68.0	69.0
Indicator value	97.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

1Q/08: 07/16/09 - Correction made to March 2008 EP02 - Drill Participation.

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful siren-tests	4448	4474	4473	4465	4516	4438	4405	4463
Total sirens-tests	4480	4480	4478	4479	4550	4480	4410	4480
Indicator value	99.6%	99.7%	99.7%	99.7%	99.7%	99.5%	99.5%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/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	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/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.