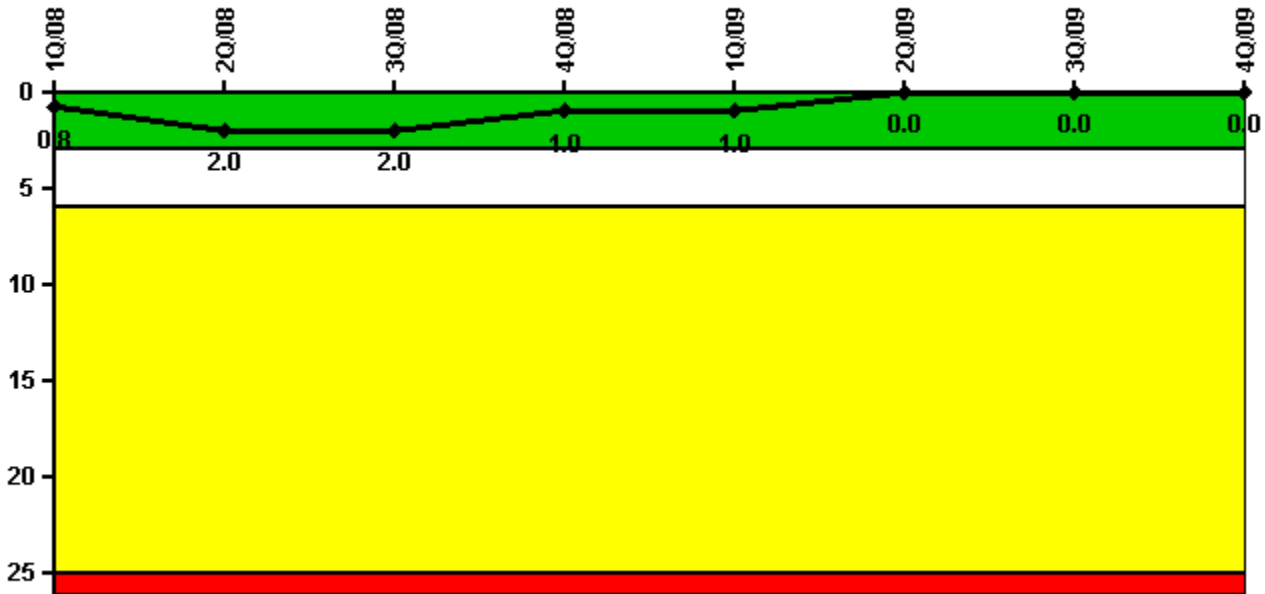


Palo Verde 2

4Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



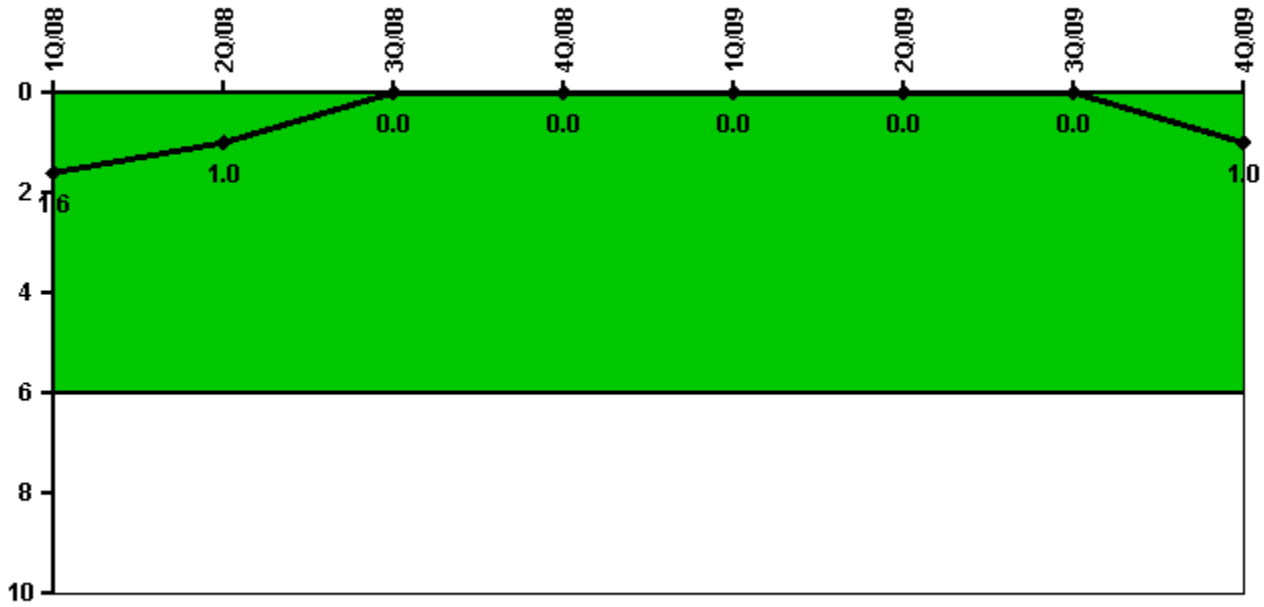
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2112.0	687.6	2208.0	1673.3	2160.0	2184.0	2208.0	787.4
Indicator value	0.8	2.0	2.0	1.0	1.0	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	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2112.0	687.6	2208.0	1673.3	2160.0	2184.0	2208.0	787.4
Indicator value	1.6	1.0	0	0	0	0	0	1.0

Licensee Comments: none

Unplanned Scrams with Complications



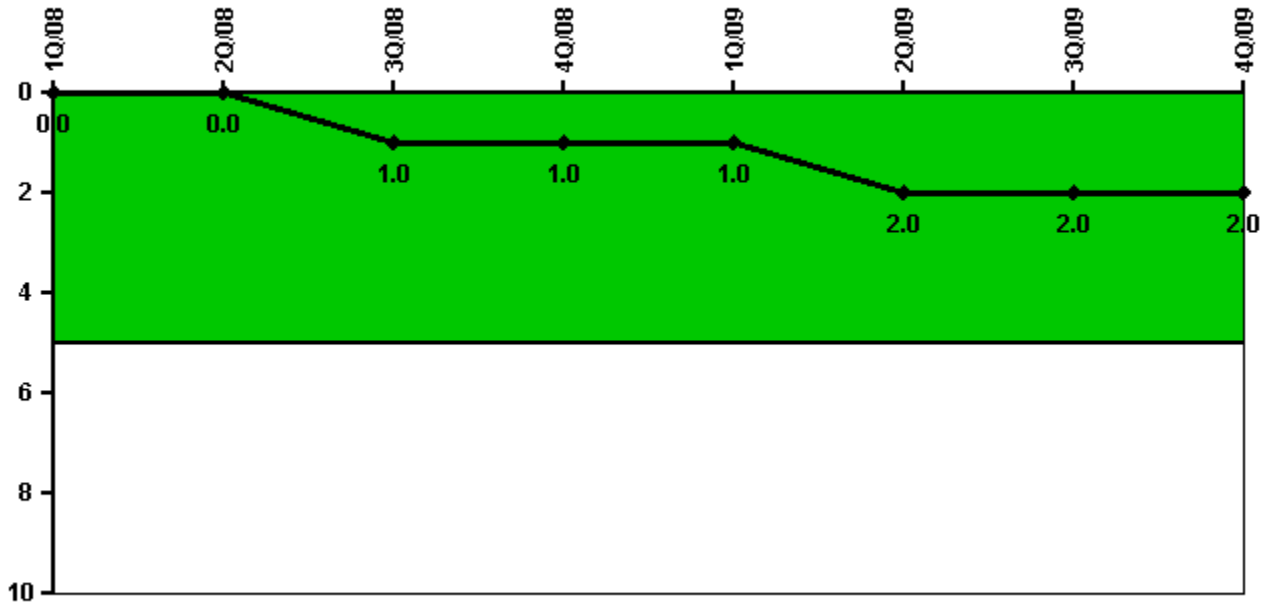
Thresholds: White > 1.0

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)



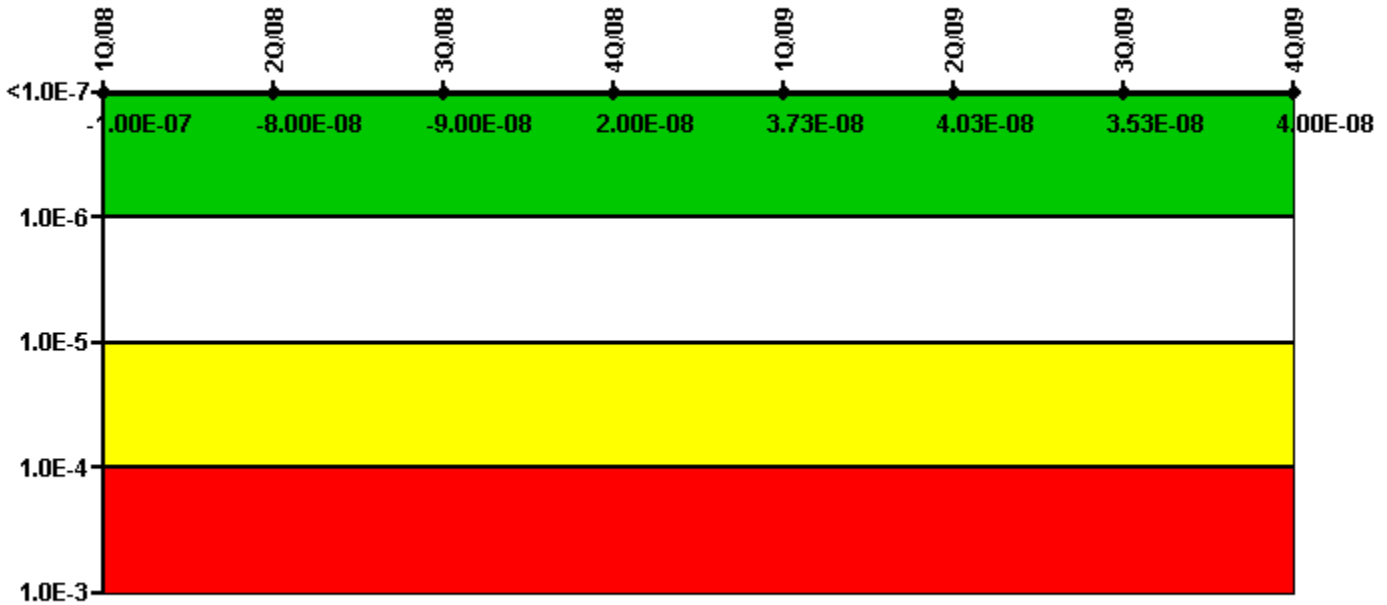
Thresholds: White > 5.0

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	0	1	0	0	1	1	0
Indicator value	0	0	1	1	1	2	2	2

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



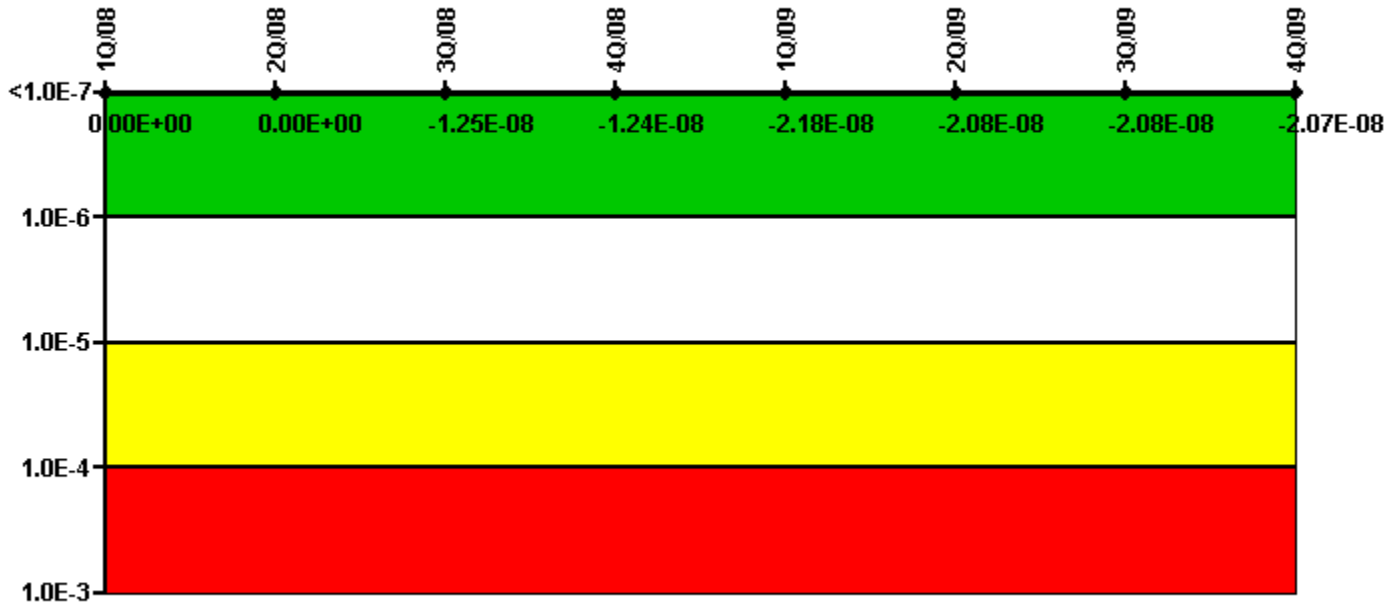
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (ΔCDF)	1.20E-07	1.40E-07	1.30E-07	1.60E-07	4.60E-08	4.90E-08	4.40E-08	5.40E-08
URI (ΔCDF)	-2.20E-07	-2.20E-07	-2.20E-07	-1.40E-07	-8.70E-09	-8.70E-09	-8.70E-09	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-07	-8.00E-08	-9.00E-08	2.00E-08	3.73E-08	4.03E-08	3.53E-08	4.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



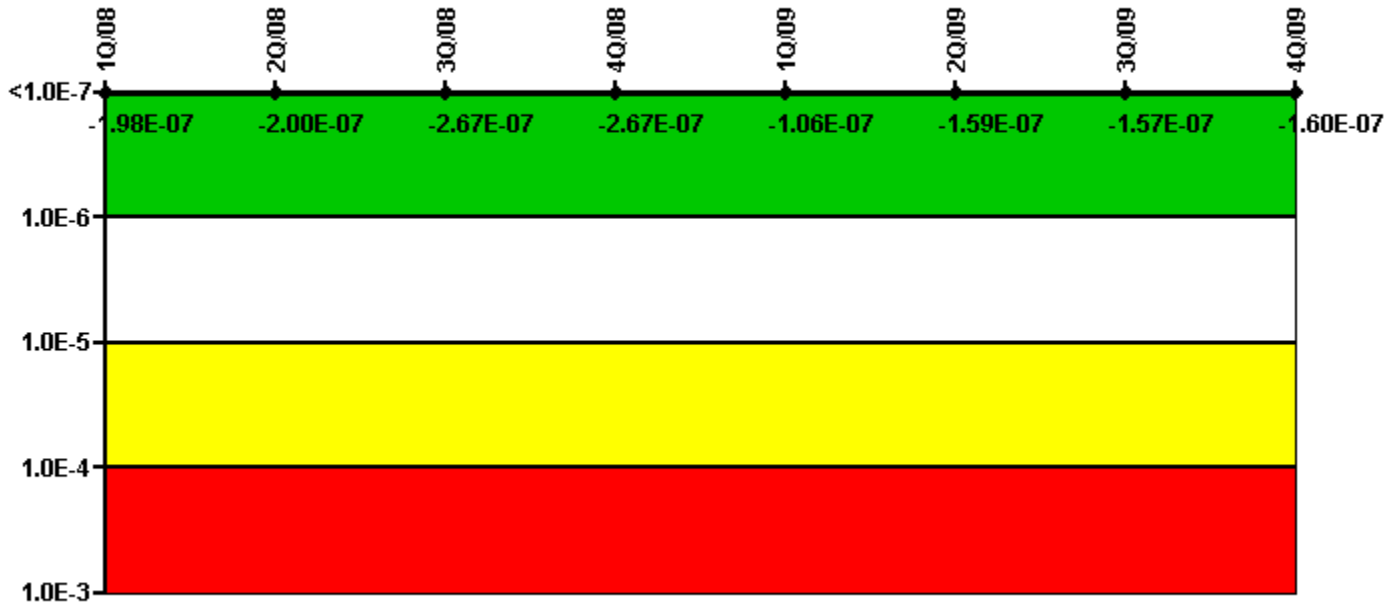
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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	1.50E-08	2.50E-09	2.60E-09	1.20E-09	1.20E-09	1.20E-09	1.30E-09
URI (Δ CDF)	-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08	-2.30E-08	-2.20E-08	-2.20E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	0.00E+00	0.00E+00	-1.25E-08	-1.24E-08	-2.18E-08	-2.08E-08	-2.08E-08	-2.07E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



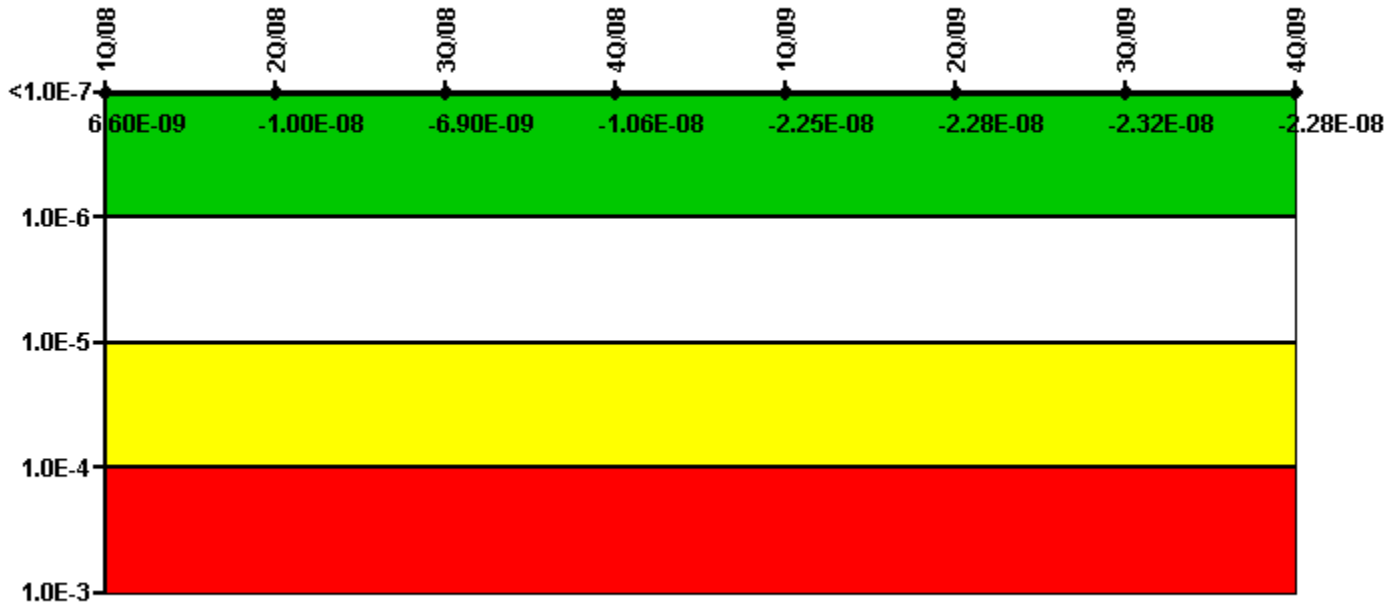
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	2.20E-08	2.00E-08	-4.70E-08	-4.70E-08	-8.90E-09	-6.20E-08	-6.00E-08	-6.00E-08
URI (Δ CDF)	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-9.70E-08	-9.70E-08	-9.70E-08	-1.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.98E-07	-2.00E-07	-2.67E-07	-2.67E-07	-1.06E-07	-1.59E-07	-1.57E-07	-1.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



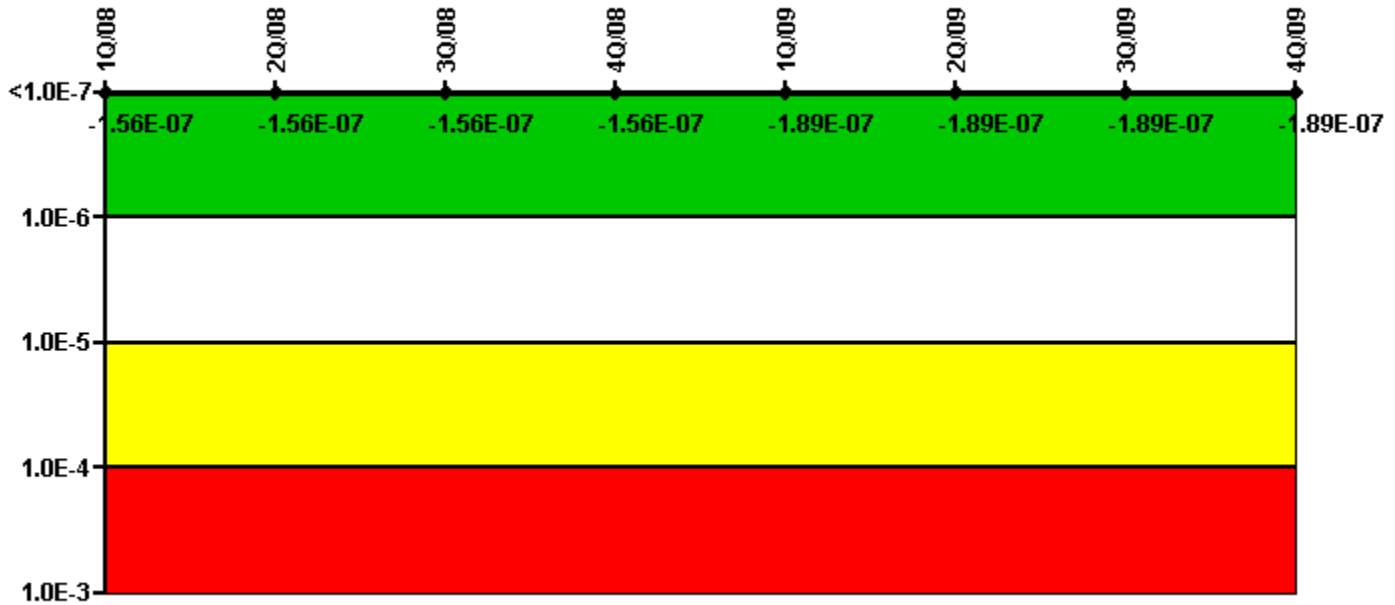
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-2.80E-09	-1.00E-09	2.10E-09	-1.60E-09	5.40E-10	1.80E-10	-1.20E-09	-8.20E-10
URI (Δ CDF)	9.40E-09	-9.00E-09	-9.00E-09	-9.00E-09	-2.30E-08	-2.30E-08	-2.20E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.60E-09	-1.00E-08	-6.90E-09	-1.06E-08	-2.25E-08	-2.28E-08	-2.32E-08	-2.28E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



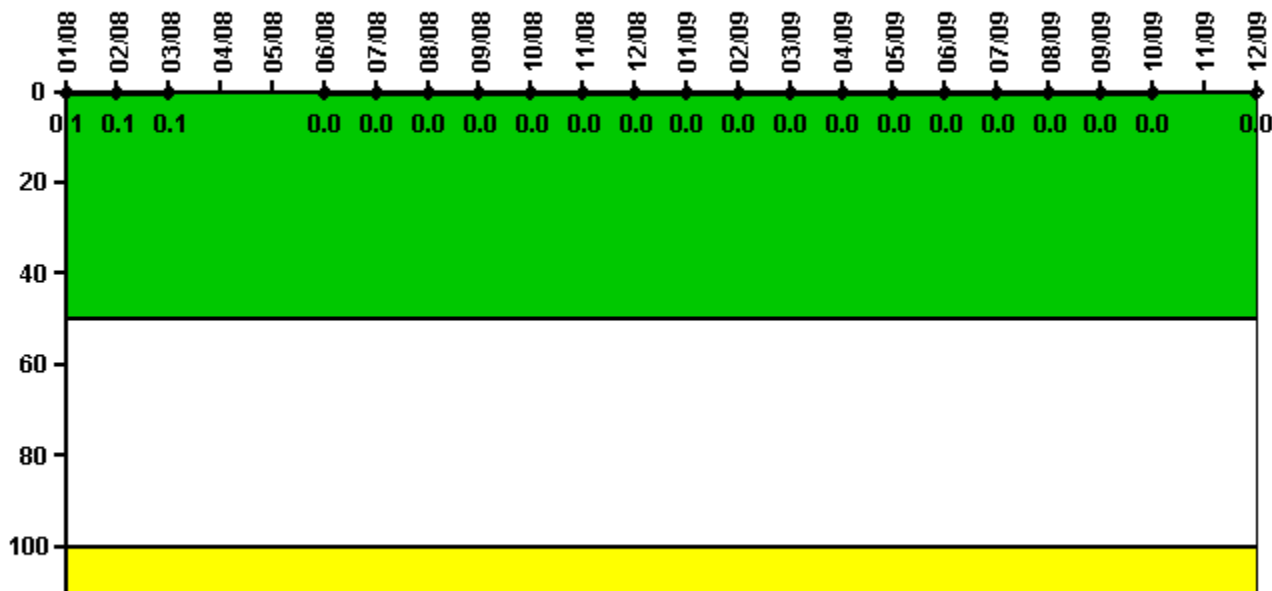
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	4.20E-09	4.30E-09	4.30E-09	4.30E-09	1.30E-09	1.30E-09	1.30E-09	1.30E-09
URI (Δ CDF)	-1.60E-07	-1.60E-07	-1.60E-07	-1.60E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.56E-07	-1.56E-07	-1.56E-07	-1.56E-07	-1.89E-07	-1.89E-07	-1.89E-07	-1.89E-07

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	0.000563	0.000739	0.000743	N/A	N/A	0.000221	0.000238	0.000238	0.000234	0.000248	0.000250	0.000253
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	0.1	0.1	0.1	N/A	N/A	0	0	0	0	0	0	0

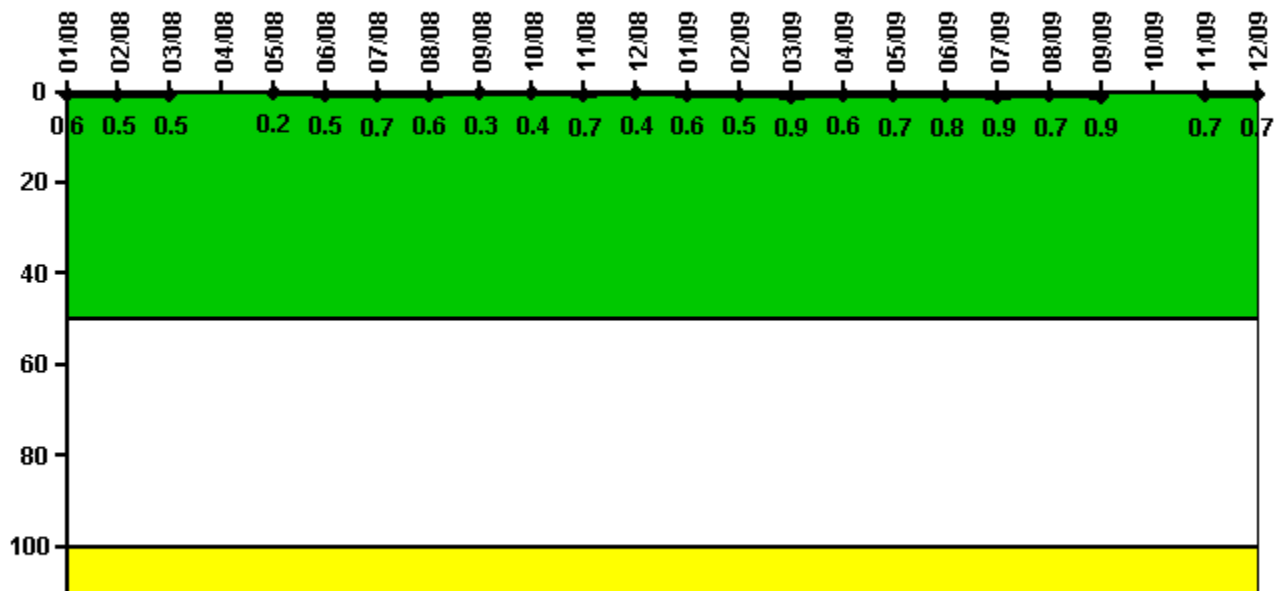
Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.000265	0.000267	0.000267	0.000274	0.000276	0.000285	0.000297	0.000295	0.000301	0.000292	N/A	0.000224
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	N/A	0

Licensee Comments:

12/09: Maximum I-131 activity was measured during November 2009 due to the refueling outage.

6/08: The station was unable to perform Unit 2 I-131 during the refueling outage in April and May 2008 .

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

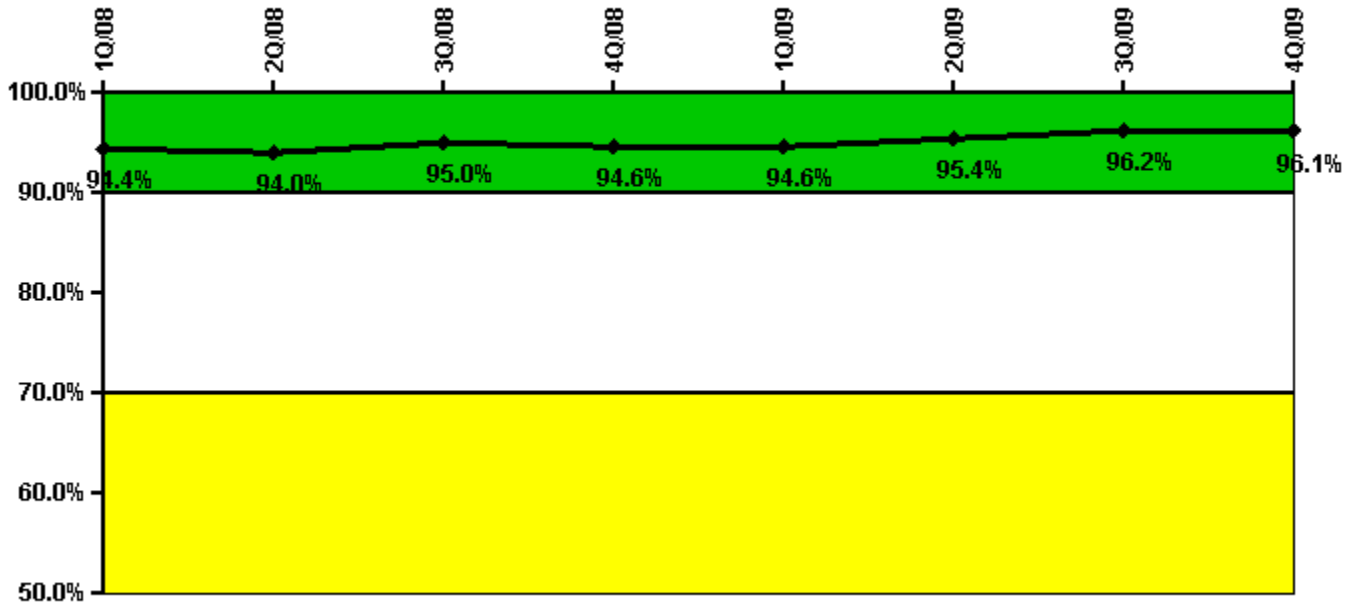
Notes

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	0.058	0.049	0.050	N/A	0.021	0.049	0.066	0.059	0.032	0.044	0.065	0.043
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	0.6	0.5	0.5	N/A	0.2	0.5	0.7	0.6	0.3	0.4	0.7	0.4
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	0.058	0.052	0.085	0.063	0.065	0.084	0.085	0.069	0.087	N/A	0.068	0.068
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	0.6	0.5	0.9	0.6	0.7	0.8	0.9	0.7	0.9	N/A	0.7	0.7

Licensee Comments:

12/09: RCS leakage was not measured prior to commencement of the outate on October 3, 2009.

Drill/Exercise Performance



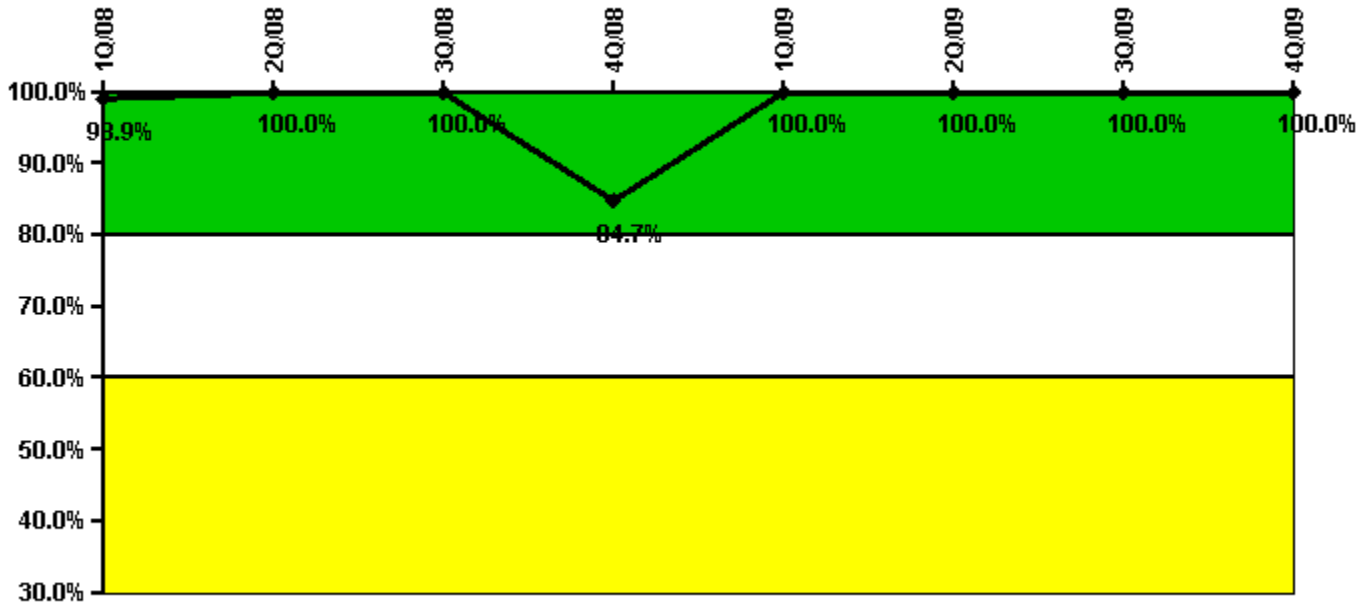
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	129.0	35.0	43.0	35.0	75.0	109.0	49.0	13.0
Total opportunities	132.0	39.0	43.0	39.0	79.0	112.0	50.0	14.0
Indicator value	94.4%	94.0%	95.0%	94.6%	94.6%	95.4%	96.2%	96.1%

Licensee Comments: none

ERO Drill Participation



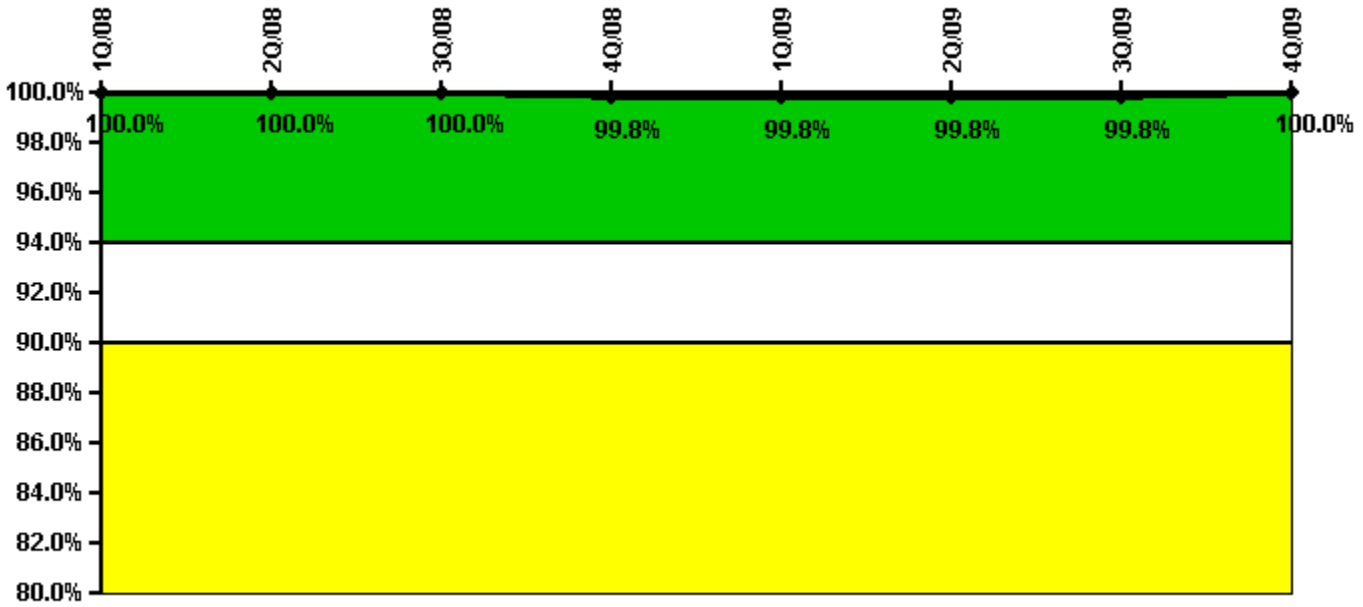
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	188.0	191.0	183.0	72.0	78.0	87.0	95.0	92.0
Total Key personnel	190.0	191.0	183.0	85.0	78.0	87.0	95.0	92.0
Indicator value	98.9%	100.0%	100.0%	84.7%	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	296	296	296	331	296	296	296	333
Total sirens-tests	296	296	296	333	296	296	296	333
Indicator value	100.0%	100.0%	100.0%	99.8%	99.8%	99.8%	99.8%	100.0%

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.