

Palo Verde 2

4Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



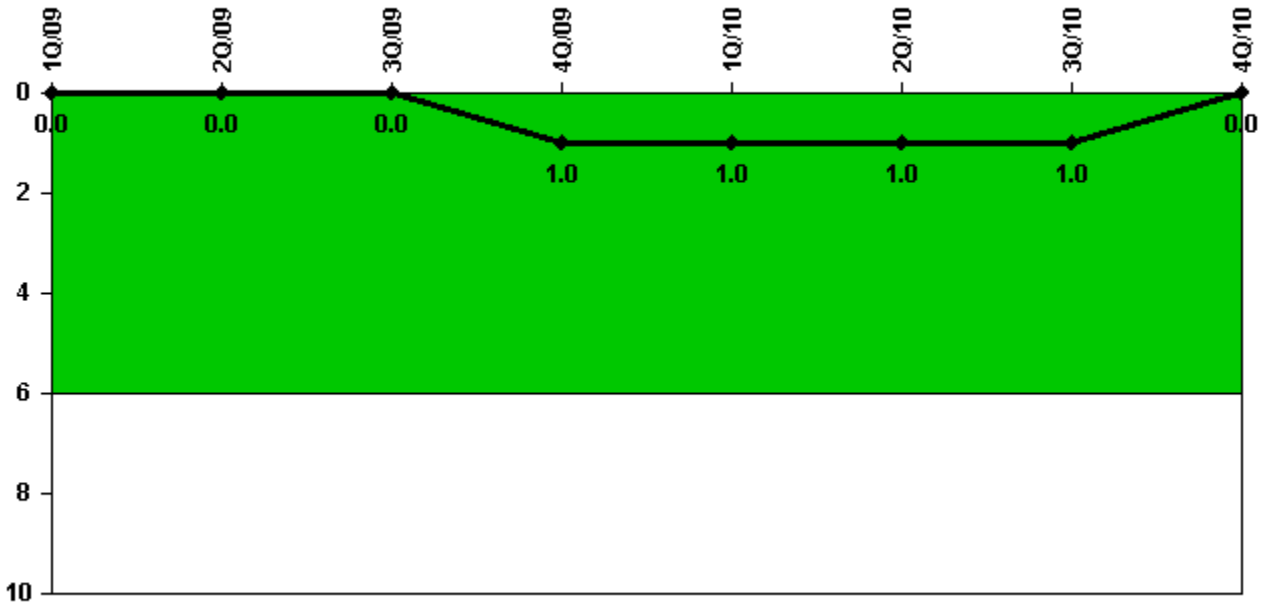
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	0	0
Critical hours	2160.0	2184.0	2208.0	787.4	2160.0	2184.0	2208.0	2208.0
Indicator value	1.0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



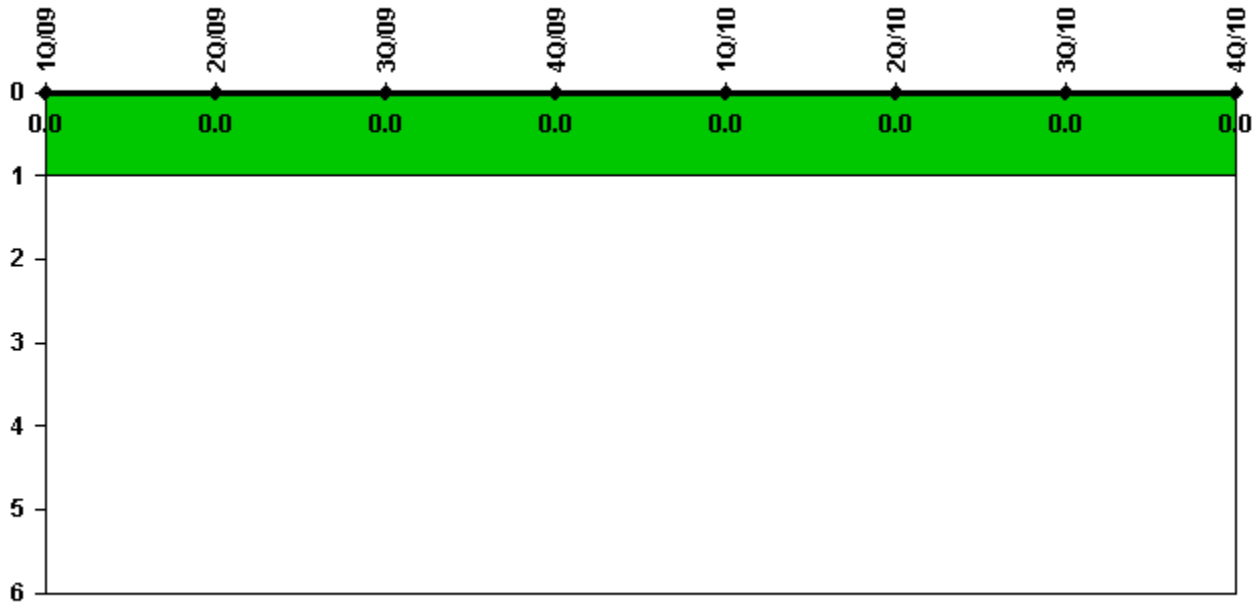
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2160.0	2184.0	2208.0	787.4	2160.0	2184.0	2208.0	2208.0
Indicator value	0	0	0	1.0	1.0	1.0	1.0	0

Licensee Comments: none

Unplanned Scrams with Complications



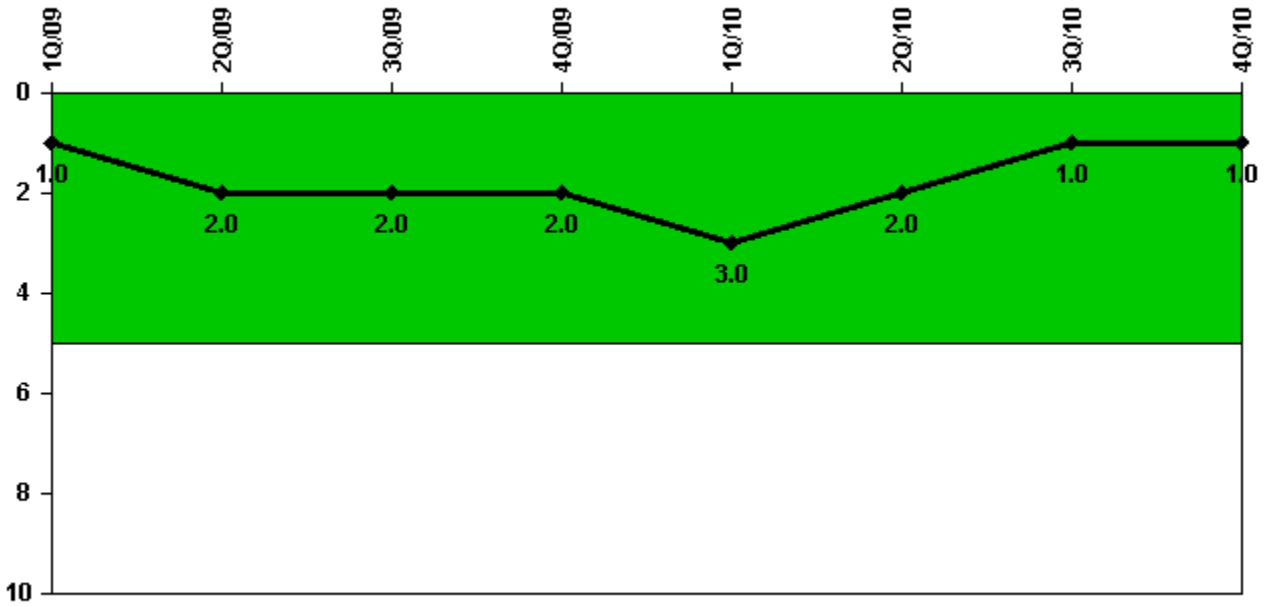
Thresholds: White > 1.0

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 (PWR)



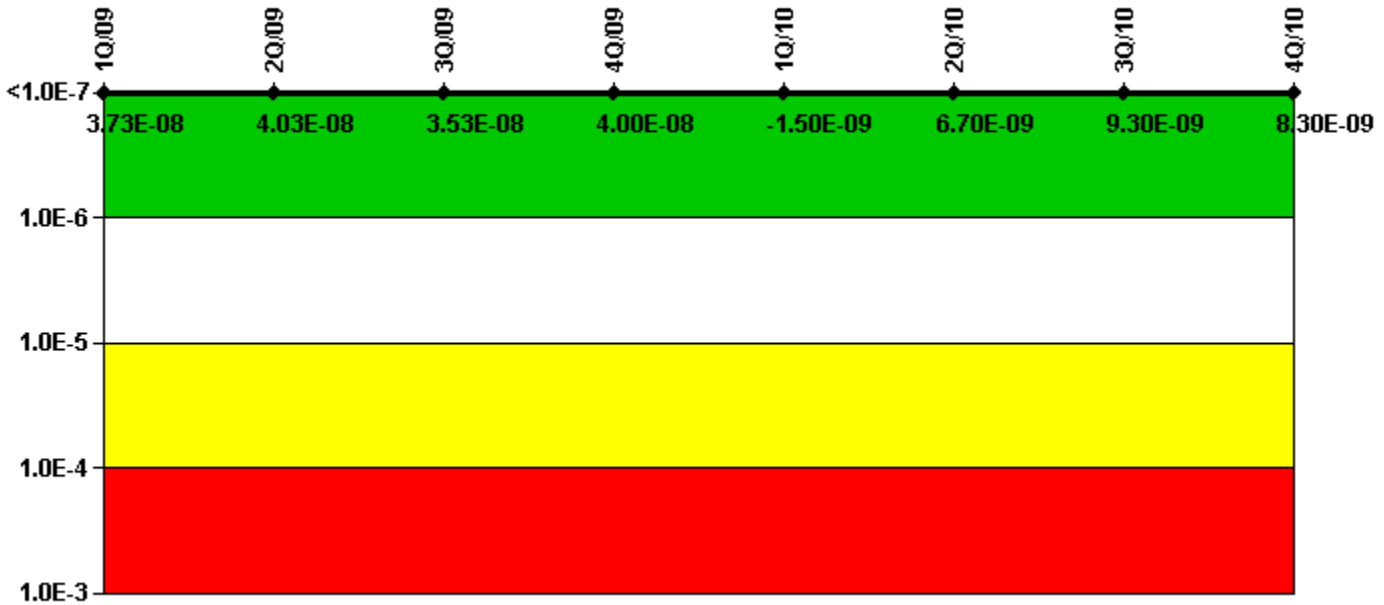
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



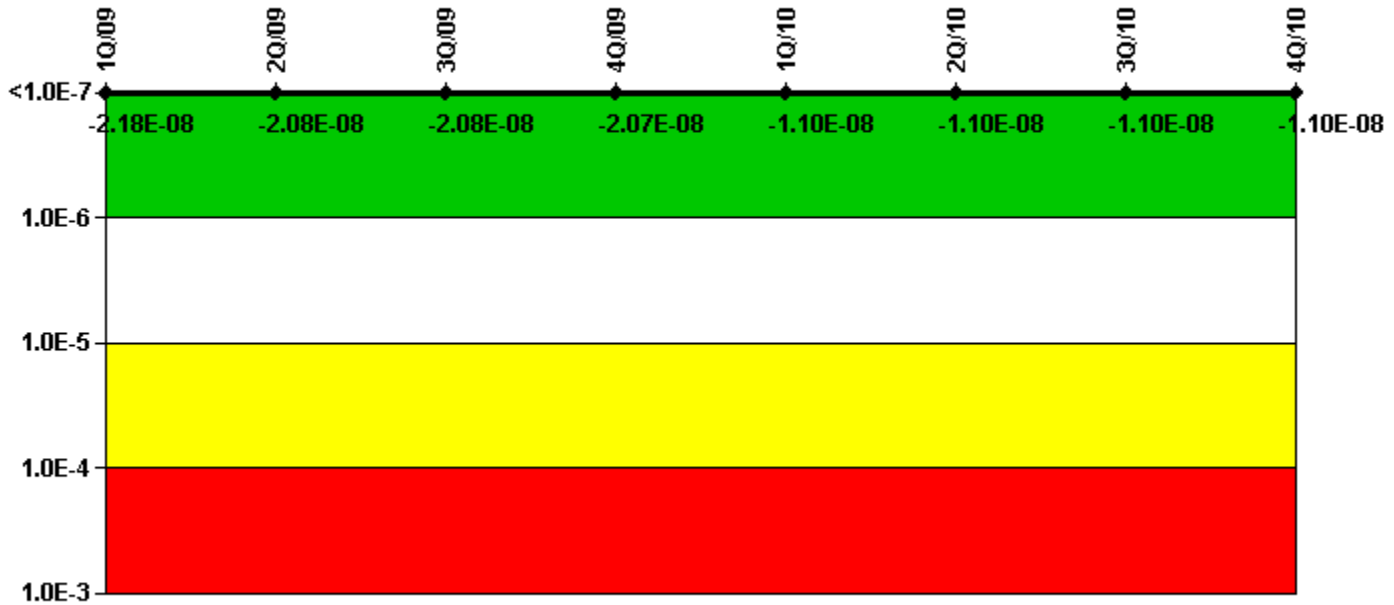
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	4.60E-08	4.90E-08	4.40E-08	5.40E-08	1.82E-08	1.60E-08	2.03E-08	2.09E-08
URI (Δ CDF)	-8.70E-09	-8.70E-09	-8.70E-09	-1.40E-08	-1.97E-08	-9.34E-09	-1.10E-08	-1.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.73E-08	4.03E-08	3.53E-08	4.00E-08	-1.50E-09	6.70E-09	9.30E-09	8.30E-09

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	1.20E-09	1.20E-09	1.30E-09	2.80E-09	2.19E-09	1.72E-09	1.54E-09
URI (Δ CDF)	-2.30E-08	-2.20E-08	-2.20E-08	-2.20E-08	-1.40E-08	-1.34E-08	-1.32E-08	-1.29E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.18E-08	-2.08E-08	-2.08E-08	-2.07E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



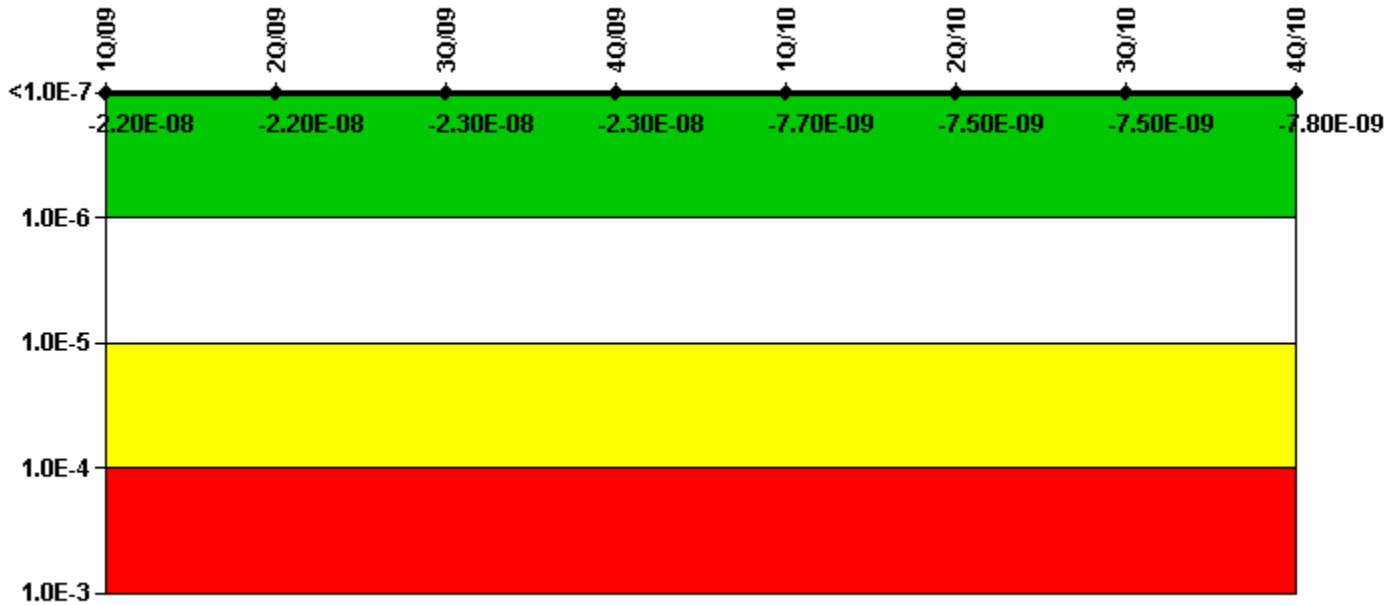
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-8.90E-09	-6.20E-08	-6.00E-08	-6.00E-08	-1.08E-07	-4.30E-08	-4.30E-08	-4.33E-08
URI (Δ CDF)	-9.70E-08	-9.70E-08	-9.70E-08	-1.00E-07	-1.42E-07	-5.81E-08	-5.98E-08	-6.15E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.06E-07	-1.59E-07	-1.57E-07	-1.60E-07	-2.50E-07	-1.00E-07	-1.00E-07	-1.00E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



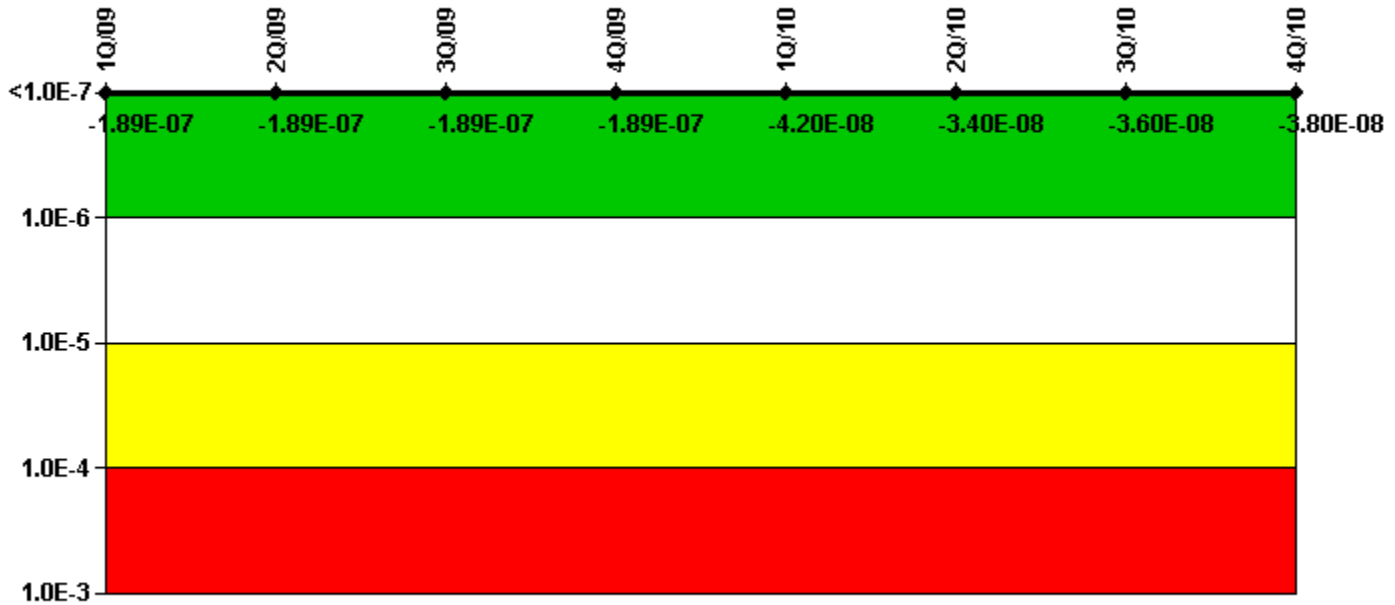
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	8.18E-10	5.08E-10	-7.31E-10	-6.52E-10	-5.35E-10	-5.76E-10	-6.87E-10	-1.10E-09
URI (Δ CDF)	-2.31E-08	-2.28E-08	-2.25E-08	-2.23E-08	-7.14E-09	-6.90E-09	-6.78E-09	-6.67E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-2.20E-08	-2.30E-08	-2.30E-08	-7.70E-09	-7.50E-09	-7.50E-09	-7.80E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



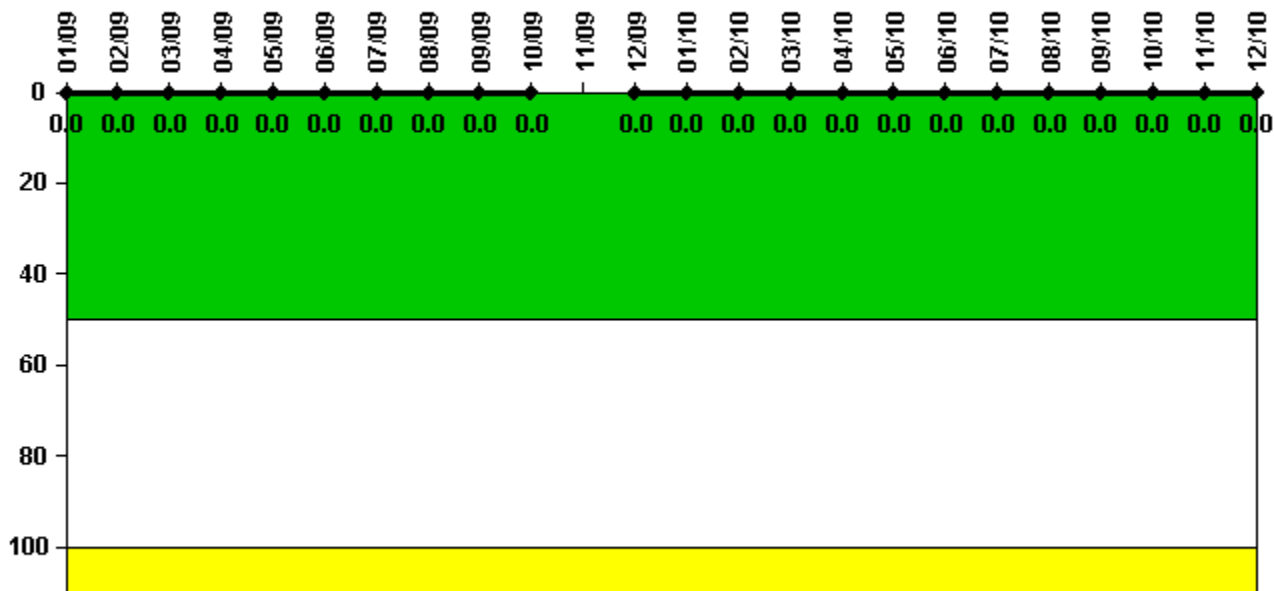
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.30E-09	1.30E-09	1.30E-09	1.30E-09	7.54E-09	6.91E-09	4.90E-09	2.93E-09
URI (Δ CDF)	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-4.99E-08	-4.05E-08	-4.09E-08	-4.13E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.89E-07	-1.89E-07	-1.89E-07	-1.89E-07	-4.20E-08	-3.40E-08	-3.60E-08	-3.80E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

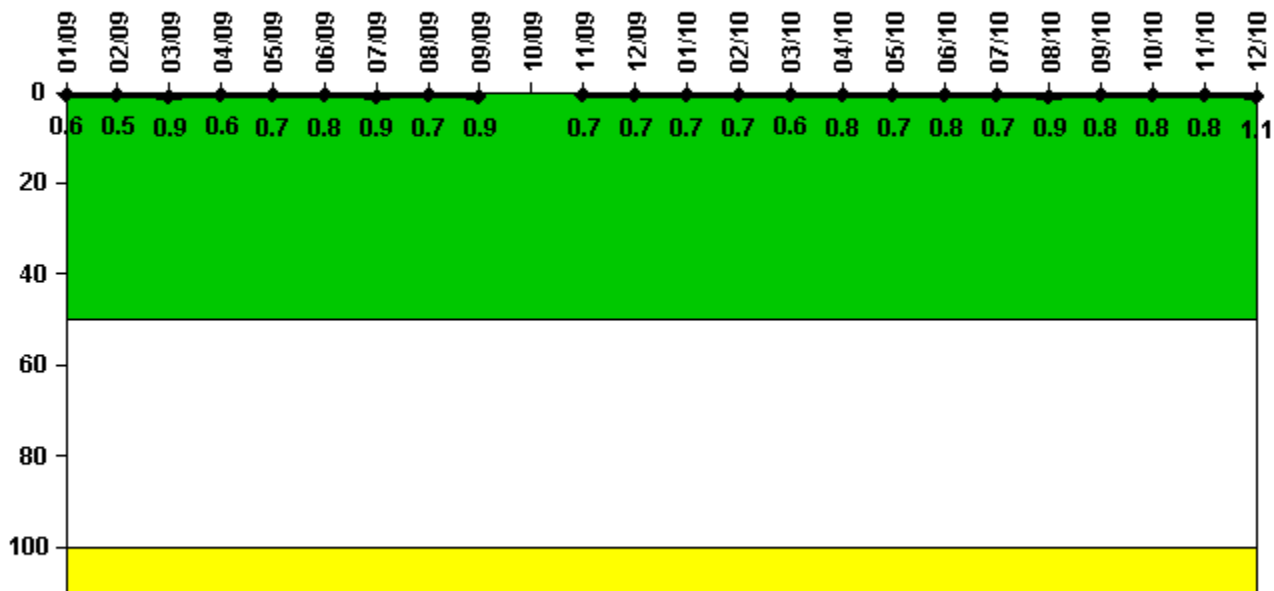
Notes

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	0.000265	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

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	0.000226	0.000229	0.000237	0.000242	0.000250	0.000260	0.000253	0.000258	0.000269	0.000270	0.000273	0.000278
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



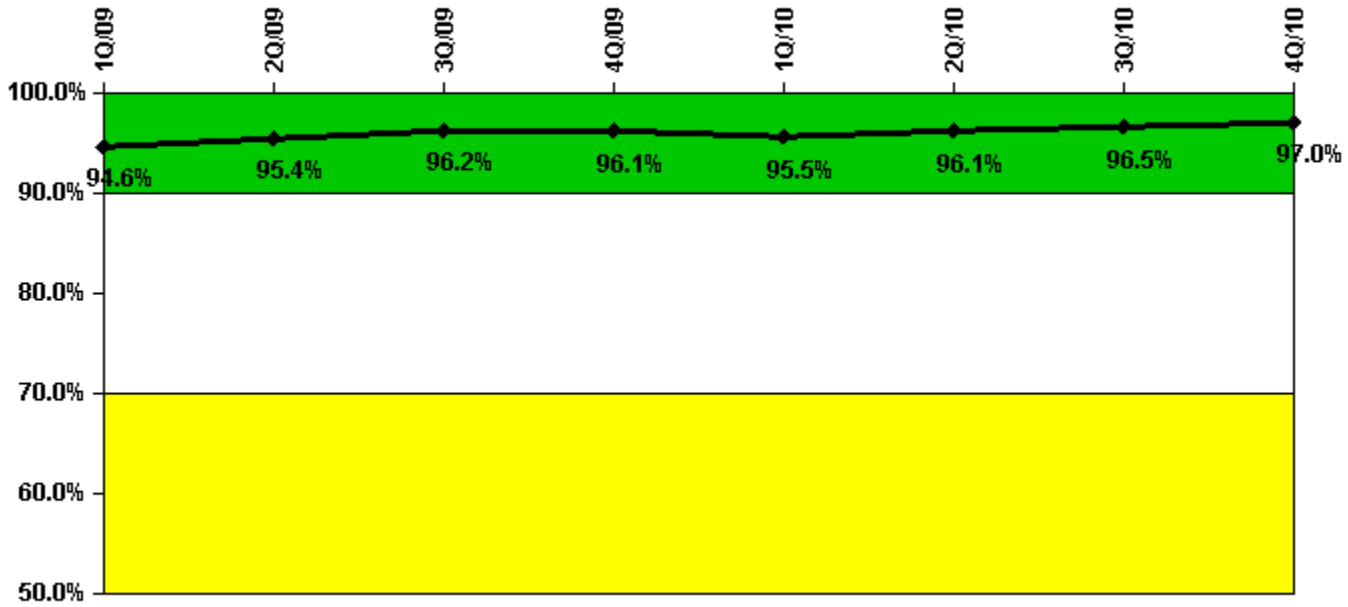
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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
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	0.068	0.067	0.058	0.076	0.067	0.077	0.074	0.091	0.079	0.081	0.082	0.112
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	0.7	0.6	0.8	0.7	0.8	0.7	0.9	0.8	0.8	0.8	1.1

Licensee Comments: none

Drill/Exercise Performance



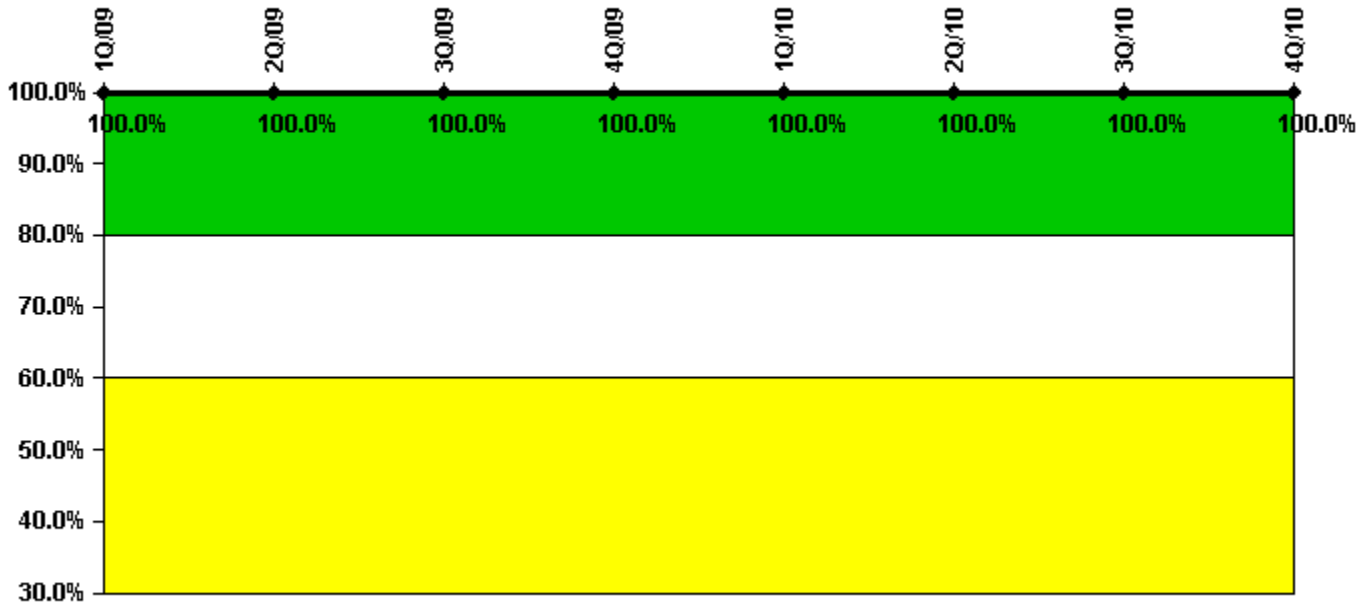
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	75.0	109.0	49.0	13.0	86.0	81.0	126.0	20.0
Total opportunities	79.0	112.0	50.0	14.0	90.0	84.0	127.0	20.0
Indicator value	94.6%	95.4%	96.2%	96.1%	95.5%	96.1%	96.5%	97.0%

Licensee Comments: none

ERO Drill Participation



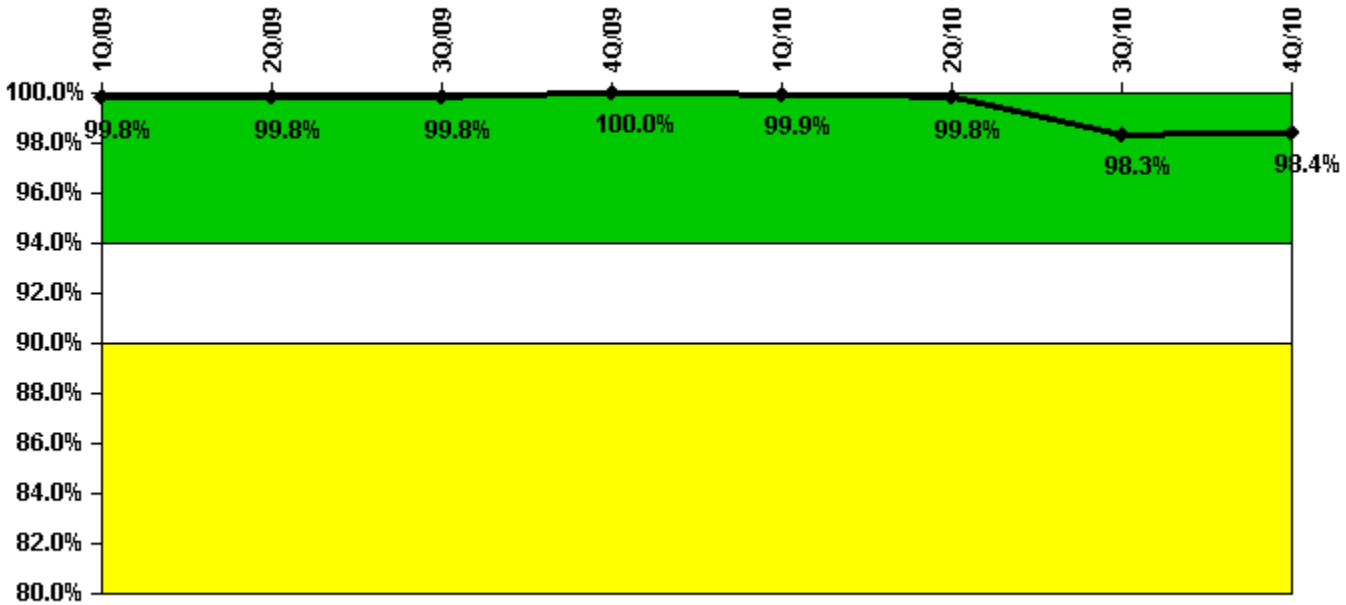
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	78.0	87.0	95.0	92.0	97.0	102.0	97.0	101.0
Total Key personnel	78.0	87.0	95.0	92.0	97.0	102.0	97.0	101.0
Indicator value	100.0%	100.0%	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%

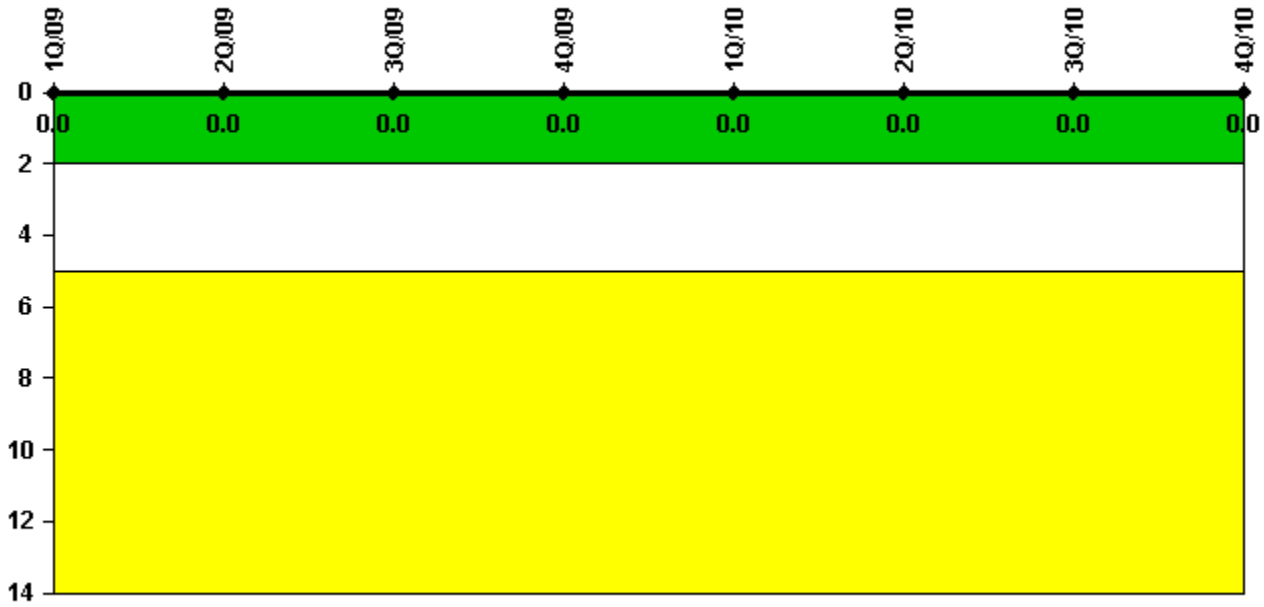
Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	296	296	296	333	911	909	864	1000
Total sirens-tests	296	296	296	333	912	912	912	1008
Indicator value	99.8%	99.8%	99.8%	100.0%	99.9%	99.8%	98.3%	98.4%

Licensee Comments:

1Q/10: The ANS total number of siren tests conducted in March 2010 was correct. The number of successes and total were revised. No color change resulted.

Occupational Exposure Control Effectiveness



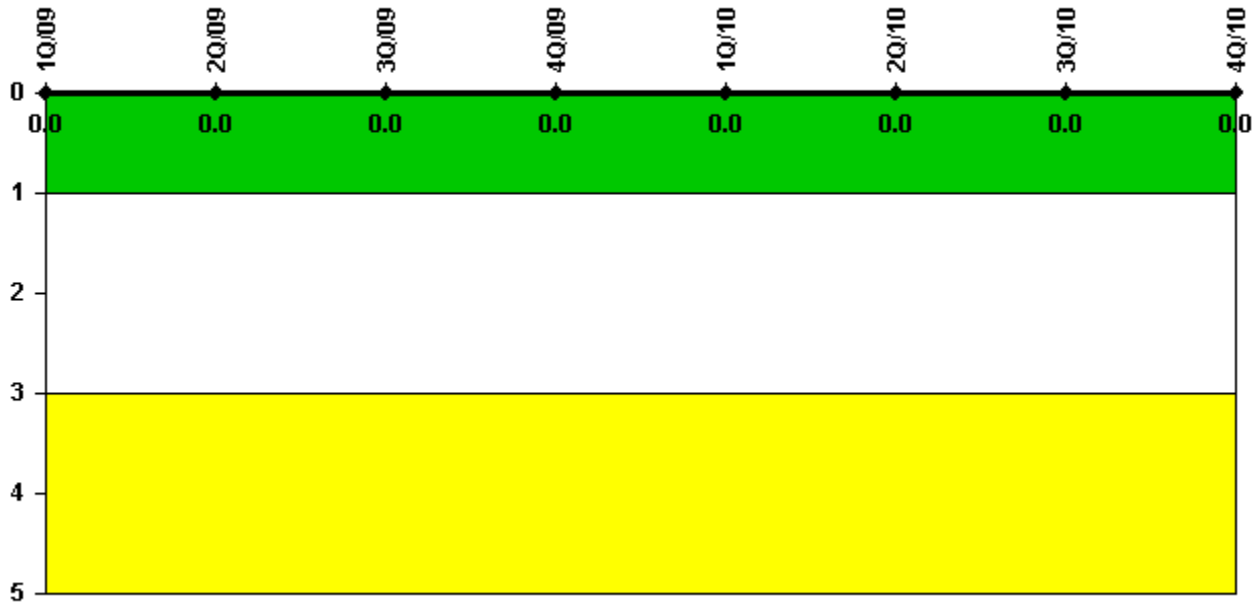
Thresholds: White > 2.0 Yellow > 5.0

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.