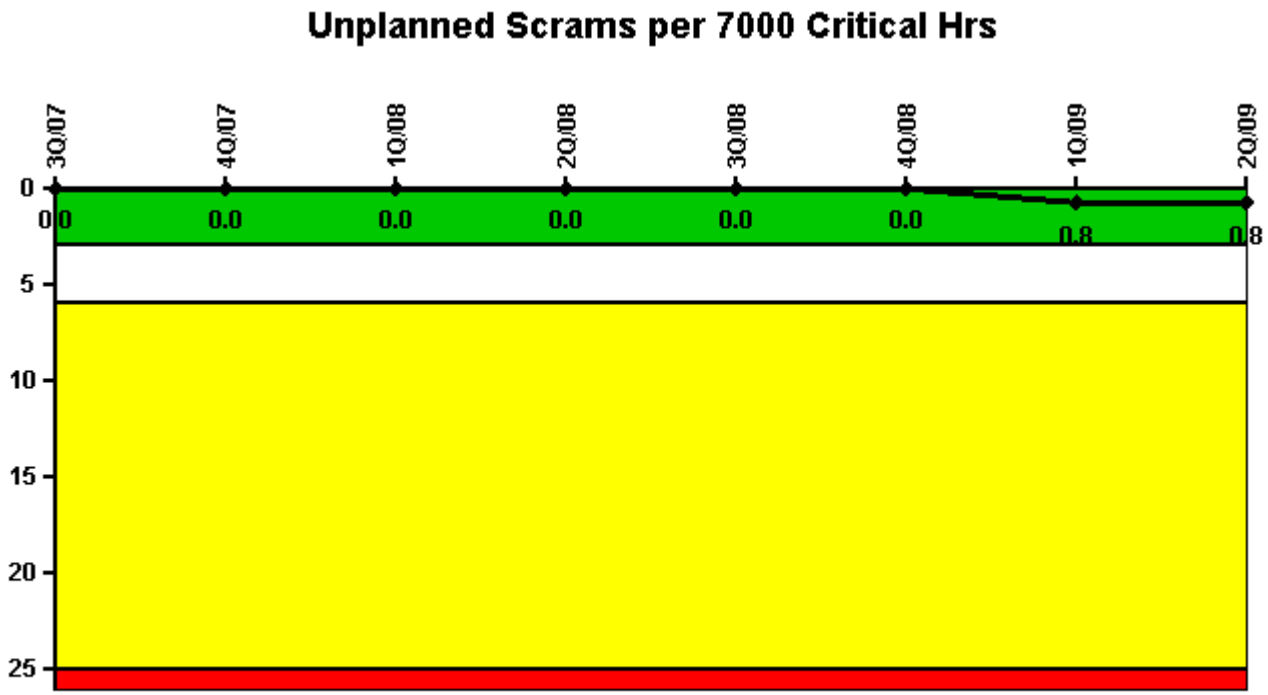
Arkansas Nuclear 2

2Q/2009 Performance Indicators

Licensee's General Comments: none



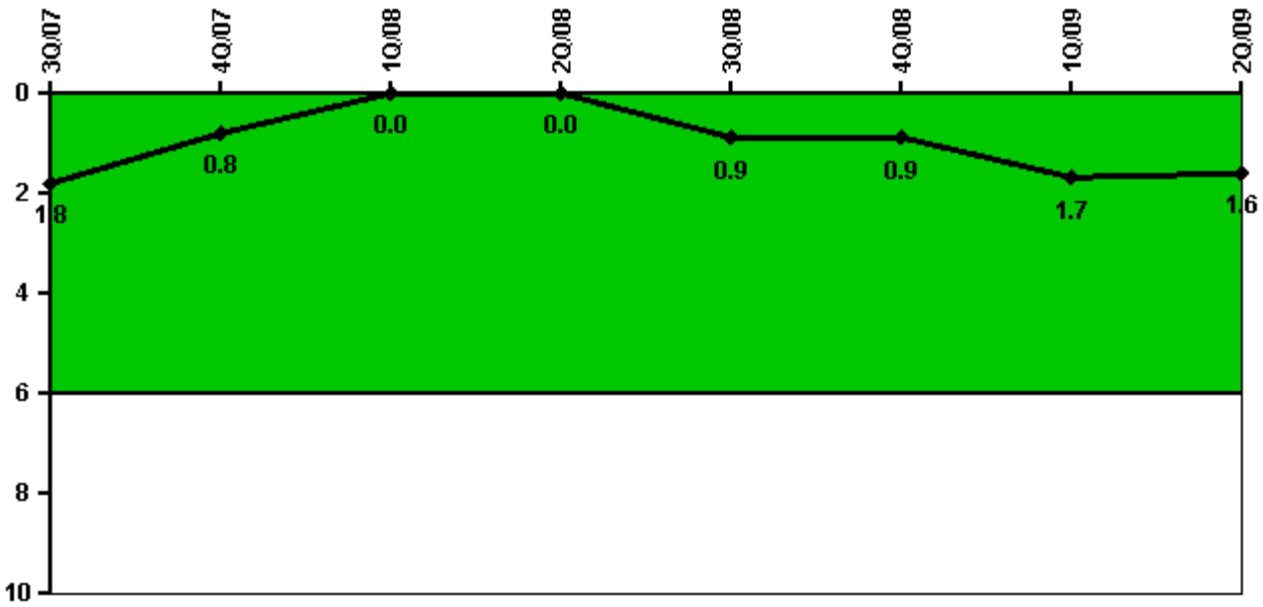
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	0	0	1.0	0
Critical hours	2208.0	2209.0	1807.9	1953.3	2208.0	2209.0	2054.5	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.8**	**0.8**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



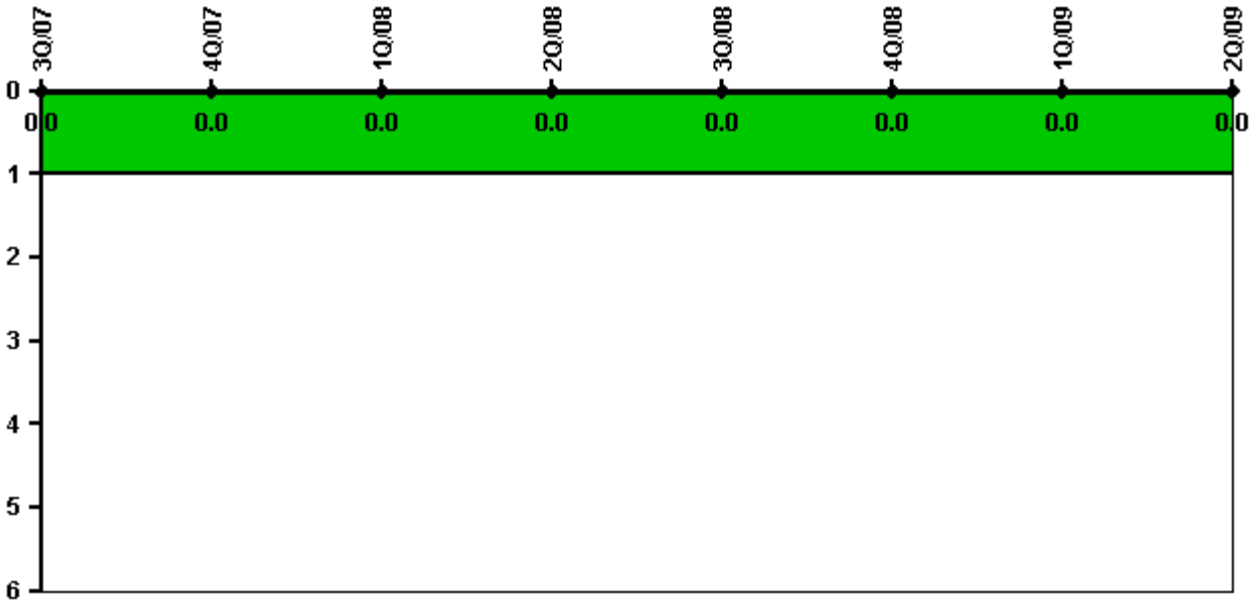
Thresholds: White > 6.0

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	0	0	1.0	0	1.0	0
Critical hours	2208.0	2209.0	1807.9	1953.3	2208.0	2209.0	2054.5	2184.0
Indicator value	**1.8**	**0.8**	**0**	**0**	**0.9**	**0.9**	**1.7**	**1.6**

Licensee Comments: none

Unplanned Scrams with Complications



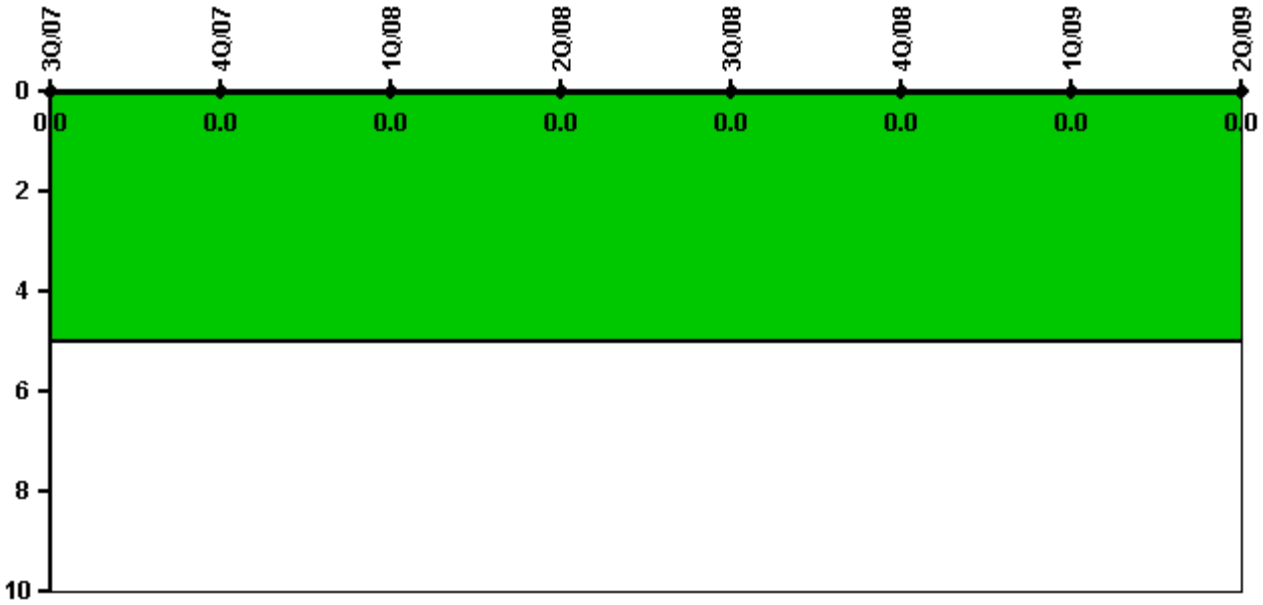
Thresholds: White > 1.0

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)



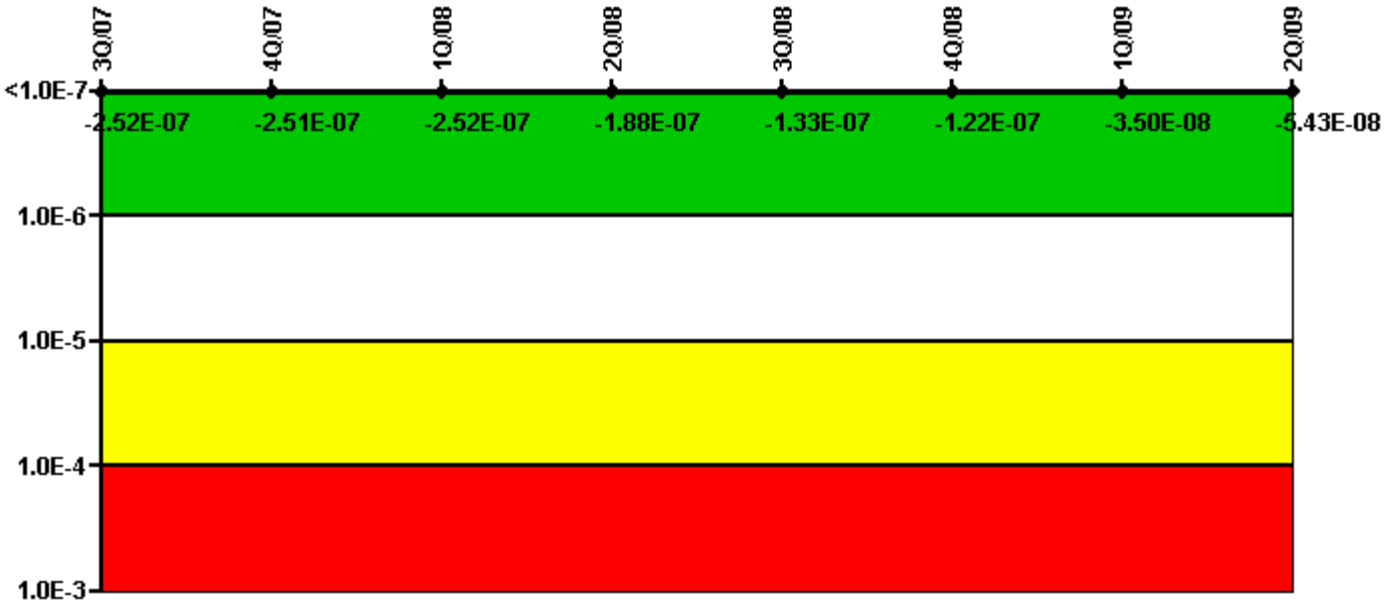
Thresholds: White > 5.0

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



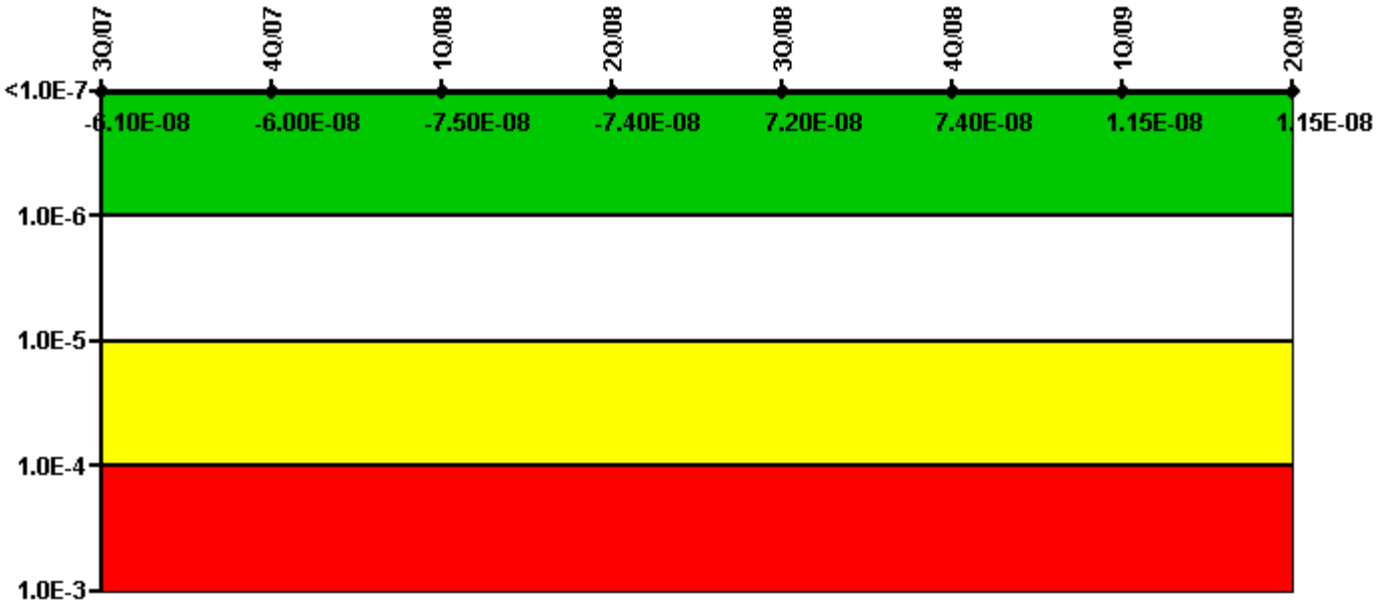
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (ΔCDF)	-2.20E-08	-2.10E-08	-2.20E-08	3.20E-08	7.70E-08	9.80E-08	2.40E-08	2.70E-09
URI (ΔCDF)	-2.30E-07	-2.30E-07	-2.30E-07	-2.20E-07	-2.10E-07	-2.20E-07	-5.90E-08	-5.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.52E-07**	**-2.51E-07**	**-2.52E-07**	**-1.88E-07**	**-1.33E-07**	**-1.22E-07**	**-3.50E-08**	**-5.43E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



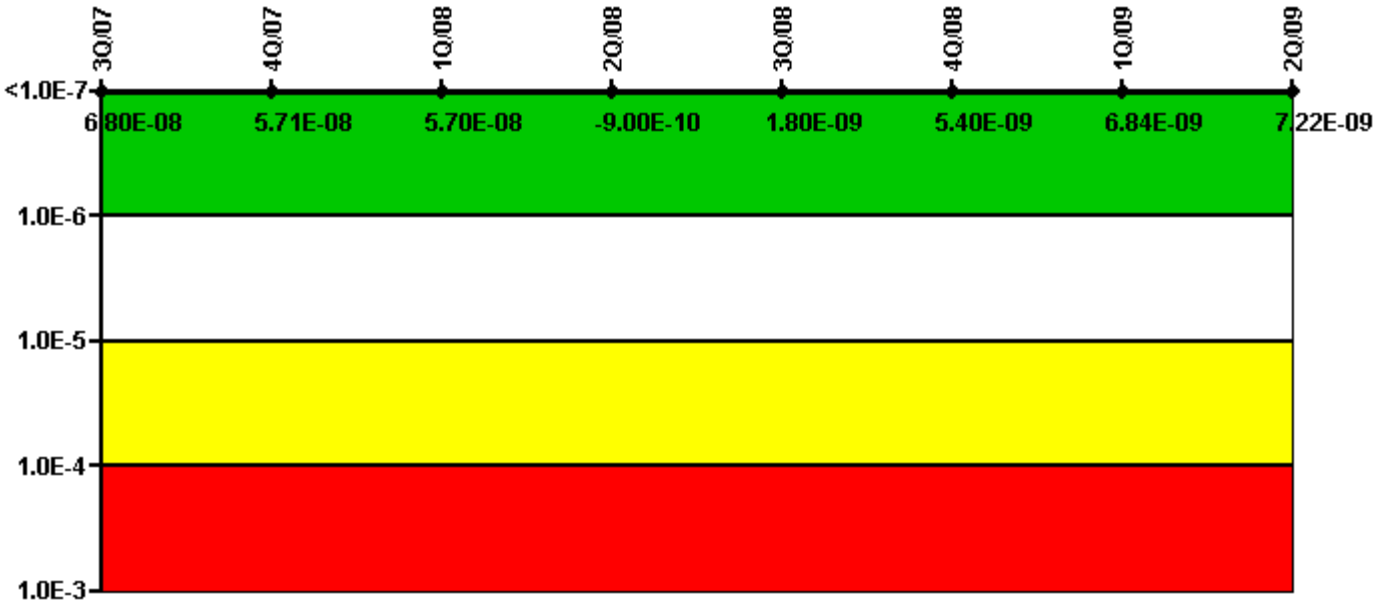
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-1.10E-08	-1.10E-08	-2.50E-08	-2.50E-08	-2.50E-08	-2.50E-08	-4.50E-09	-4.50E-09
URI (ΔCDF)	-5.00E-08	-4.90E-08	-5.00E-08	-4.90E-08	9.70E-08	9.90E-08	1.60E-08	1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.10E-08**	**-6.00E-08**	**-7.50E-08**	**-7.40E-08**	**7.20E-08**	**7.40E-08**	**1.15E-08**	**1.15E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



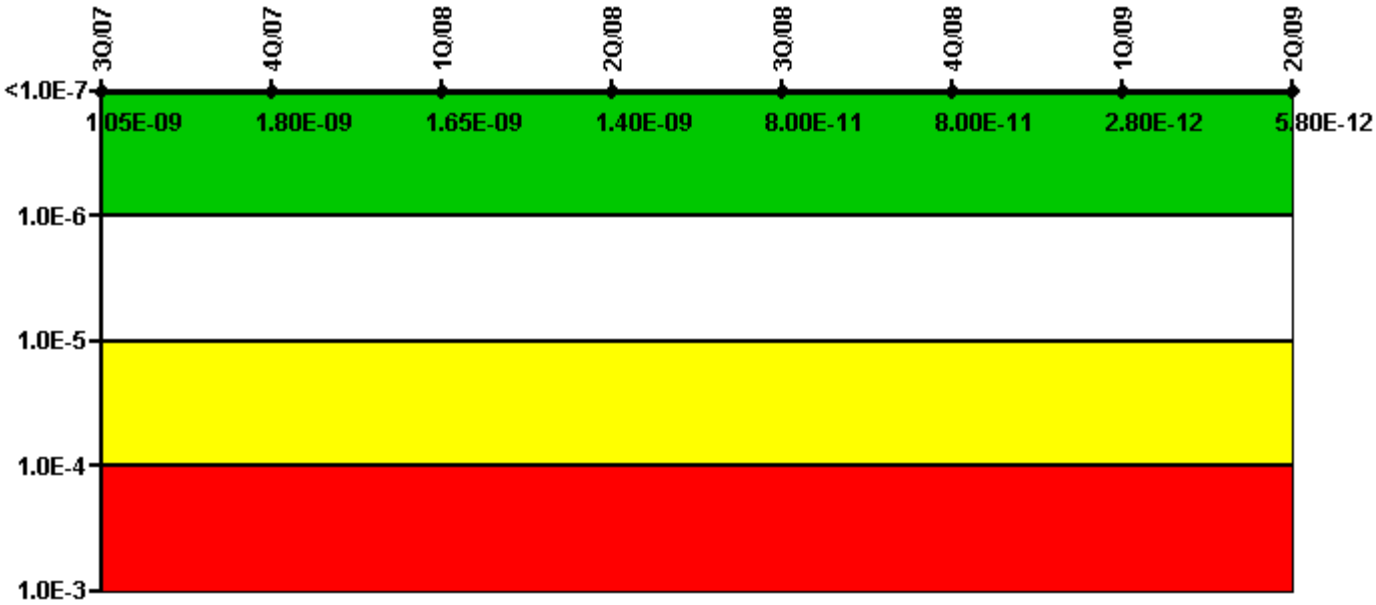
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	1.20E-08	1.10E-09	1.00E-09	-1.00E-08	-7.40E-09	-3.80E-09	-8.60E-10	-5.80E-10
URI (ΔCDF)	5.60E-08	5.60E-08	5.60E-08	9.10E-09	9.20E-09	9.20E-09	7.70E-09	7.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**6.80E-08**	**5.71E-08**	**5.70E-08**	**-9.00E-10**	**1.80E-09**	**5.40E-09**	**6.84E-09**	**7.22E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



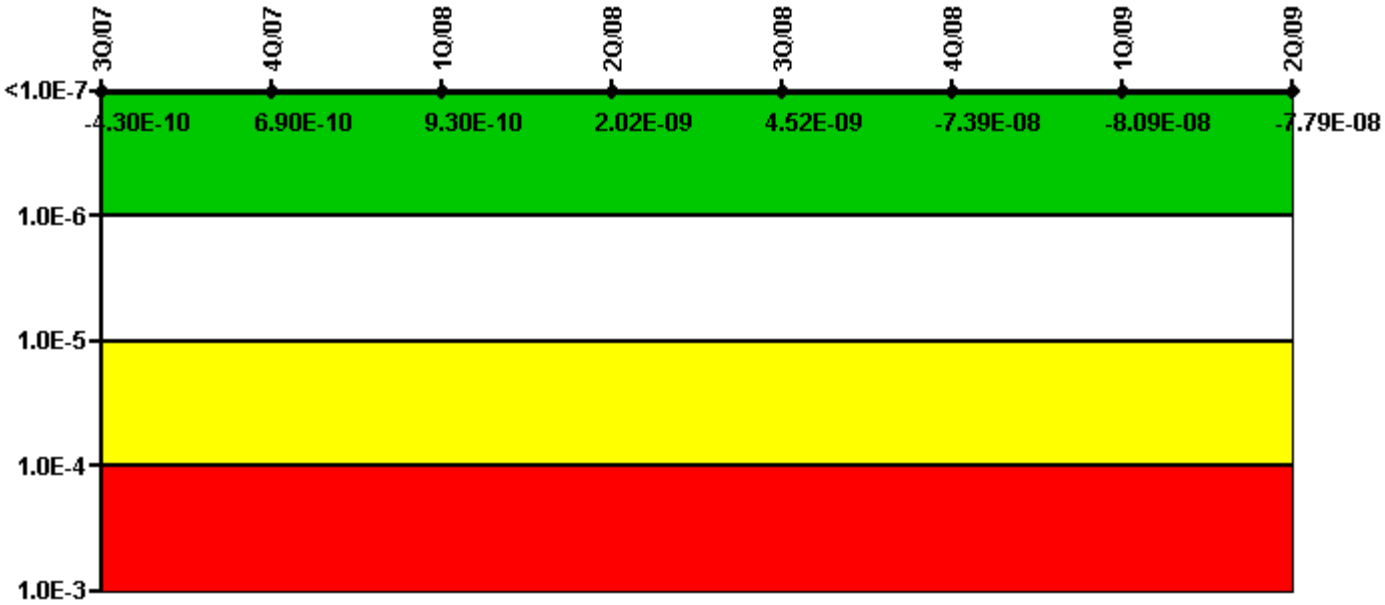
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (ΔCDF)	-1.50E-10	6.00E-10	4.50E-10	2.00E-10	2.00E-10	2.00E-10	4.60E-12	7.70E-12
URI (ΔCDF)	1.20E-09	1.20E-09	1.20E-09	1.20E-09	-1.20E-10	-1.20E-10	-1.80E-12	-1.90E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.05E-09**	**1.80E-09**	**1.65E-09**	**1.40E-09**	**8.00E-11**	**8.00E-11**	**2.80E-12**	**5.80E-12**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



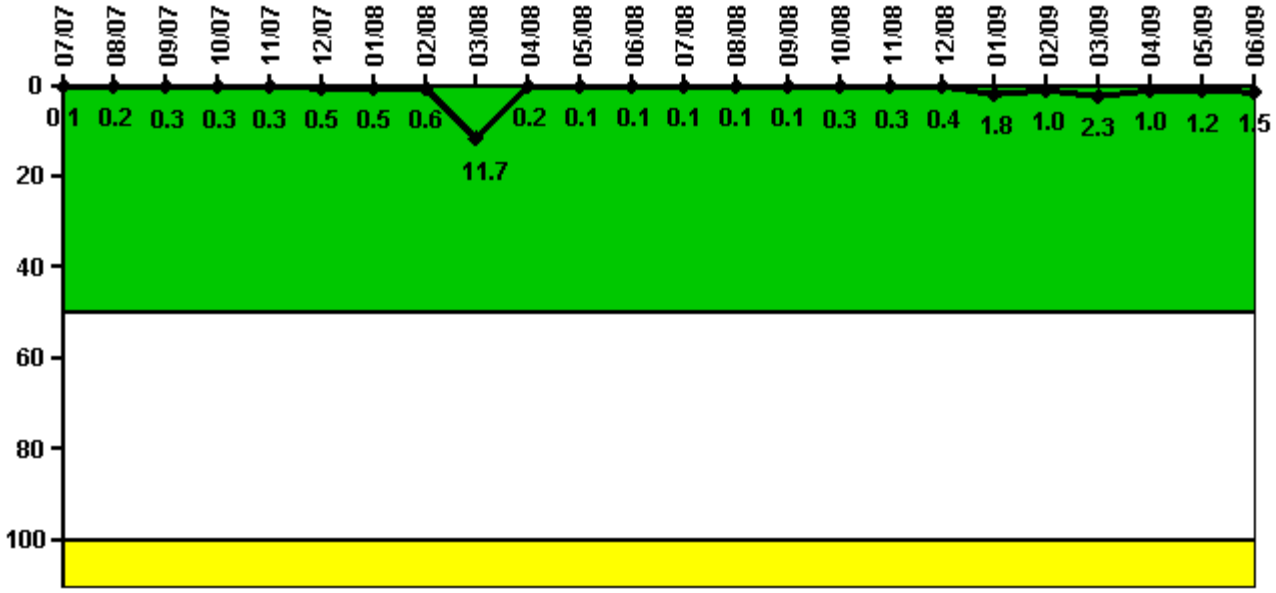
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (ΔCDF)	0.00E+00	1.20E-10	1.20E-10	1.20E-10	1.20E-10	1.20E-10	9.90E-11	9.90E-11
URI (ΔCDF)	-4.30E-10	5.70E-10	8.10E-10	1.90E-09	4.40E-09	-7.40E-08	-8.10E-08	-7.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.30E-10**	**6.90E-10**	**9.30E-10**	**2.02E-09**	**4.52E-09**	**-7.39E-08**	**-8.09E-08**	**-7.79E-08**

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

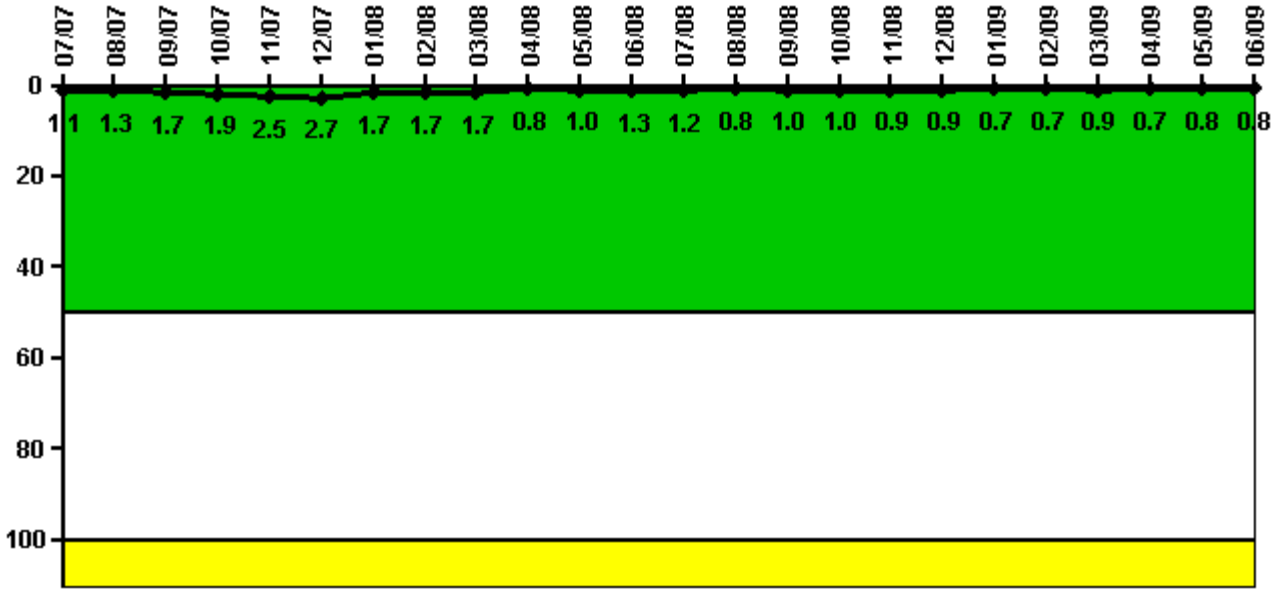
Notes

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	0.001280	0.001620	0.002750	0.003240	0.003400	0.005420	0.005270	0.005540	0.117000	0.001850	0.000594	0.000644
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**	**0.2**	**0.3**	**0.3**	**0.3**	**0.5**	**0.5**	**0.6**	**11.7**	**0.2**	**0.1**	**0.1**

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	0.000671	0.000712	0.000960	0.002760	0.002960	0.003860	0.017700	0.009900	0.022900	0.010200	0.012400	0.014900
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**	**0.3**	**0.3**	**0.4**	**1.8**	**1.0**	**2.3**	**1.0**	**1.2**	**1.5**

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

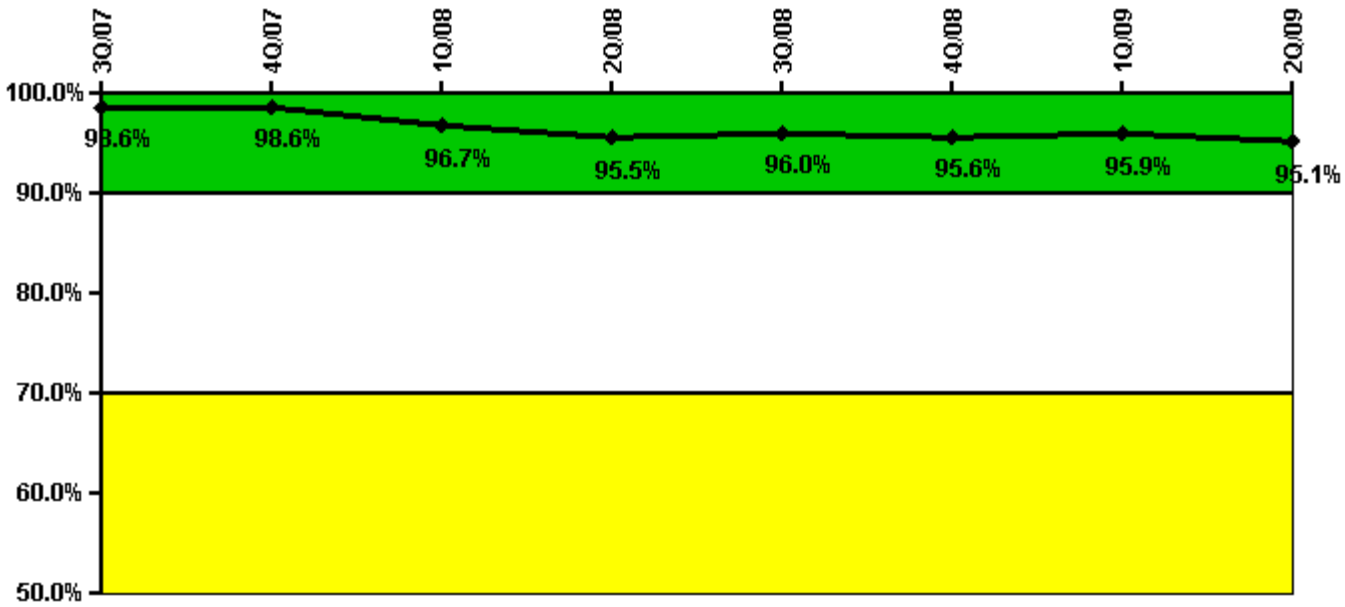
Notes

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	0.114	0.131	0.167	0.185	0.251	0.268	0.172	0.169	0.166	0.084	0.101	0.128
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	**1.1**	**1.3**	**1.7**	**1.9**	**2.5**	**2.7**	**1.7**	**1.7**	**1.7**	**0.8**	**1.0**	**1.3**
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	0.123	0.083	0.103	0.100	0.086	0.087	0.072	0.069	0.092	0.065	0.077	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	**1.2**	**0.8**	**1.0**	**1.0**	**0.9**	**0.9**	**0.7**	**0.7**	**0.9**	**0.7**	**0.8**	**0.8**

Licensee Comments:

6/09: Total Leakage is being reported in lieu of Identified Leakage.

Drill/Exercise Performance

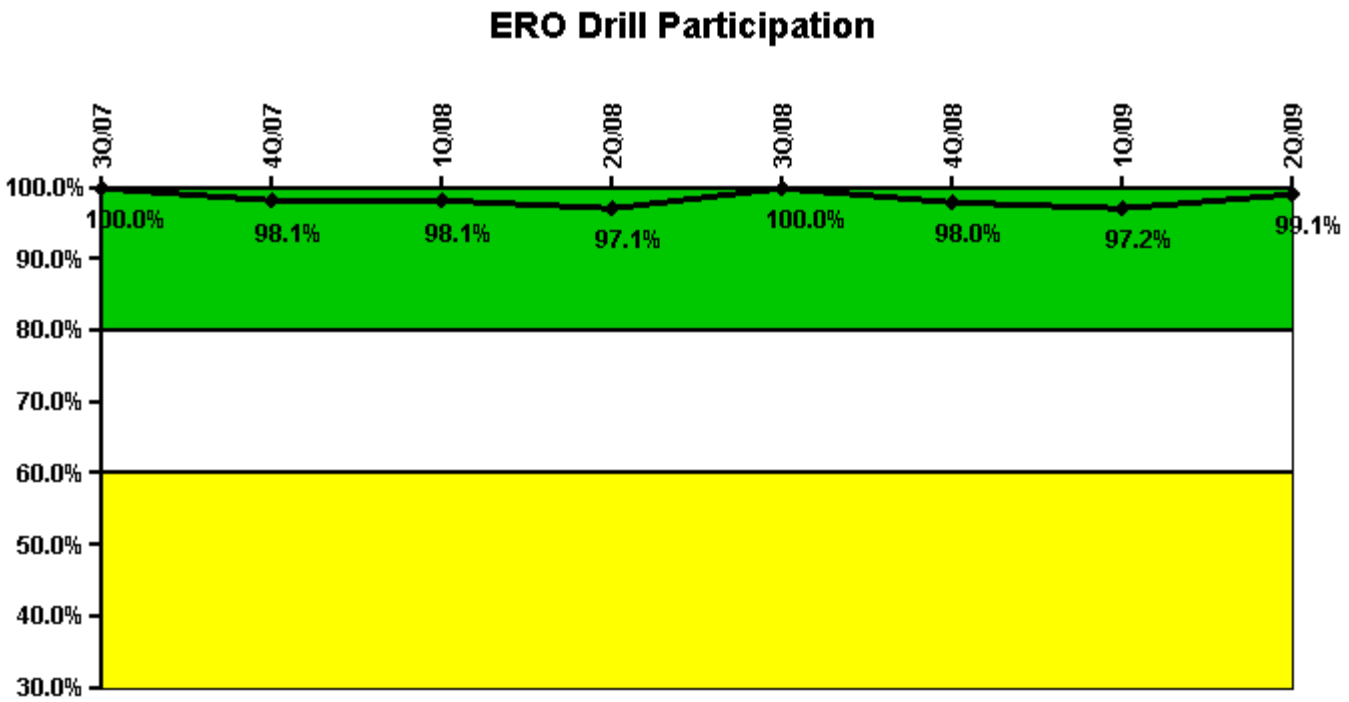


Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful opportunities	21.0	4.0	11.0	34.0	26.0	4.0	18.0	38.0
Total opportunities	22.0	4.0	14.0	36.0	26.0	4.0	18.0	40.0
Indicator value	**98.6%**	**98.6%**	**96.7%**	**95.5%**	**96.0%**	**95.6%**	**95.9%**	**95.1%**

Licensee Comments: none



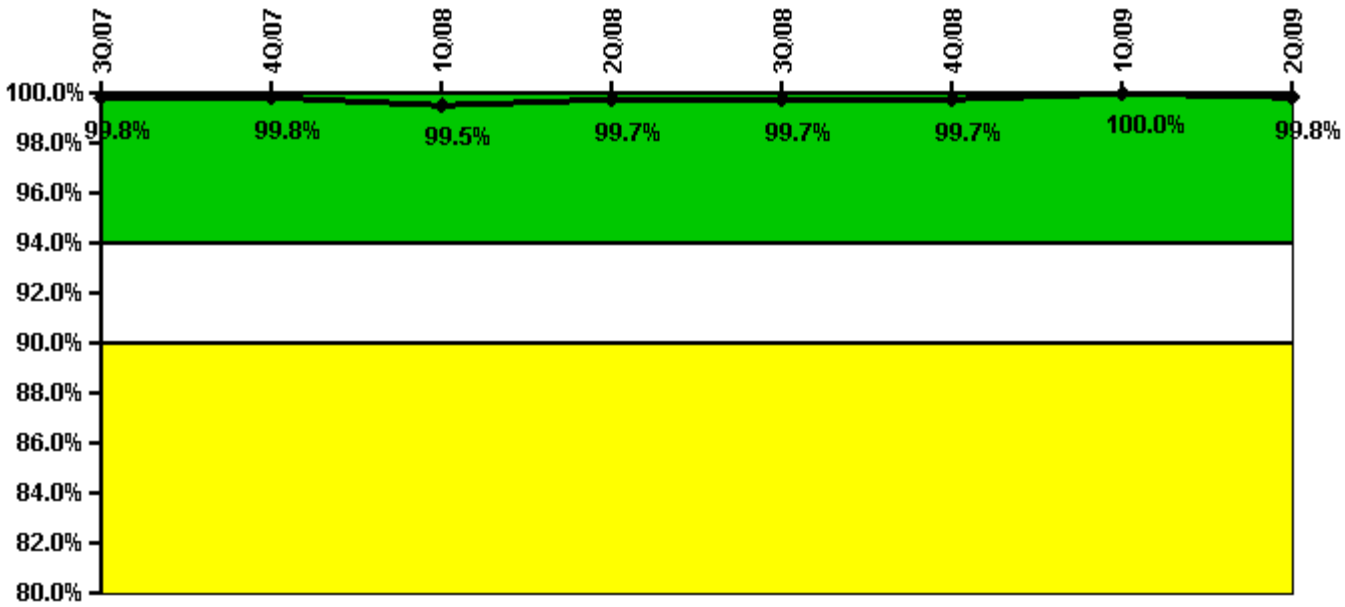
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Participating Key personnel	107.0	103.0	103.0	101.0	105.0	100.0	103.0	108.0
Total Key personnel	107.0	105.0	105.0	104.0	105.0	102.0	106.0	109.0
Indicator value	**100.0%**	**98.1%**	**98.1%**	**97.1%**	**100.0%**	**98.0%**	**97.2%**	**99.1%**

Licensee Comments: none

Alert & Notification System



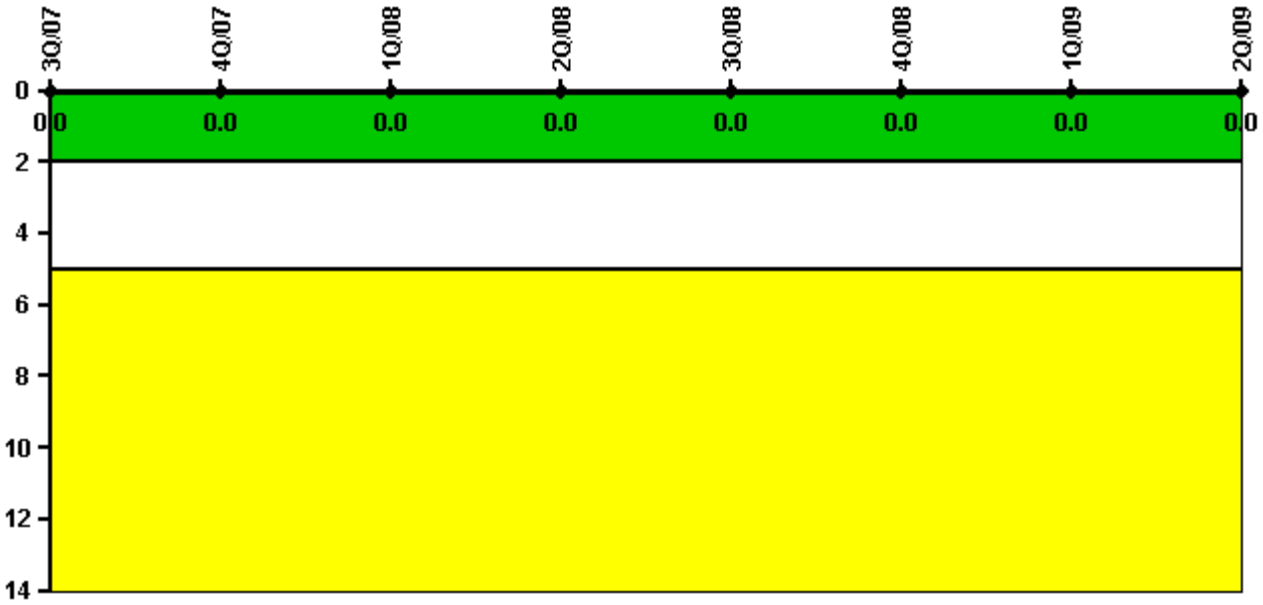
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful siren-tests	147	147	145	147	147	147	147	146
Total sirens-tests	147	147	147	147	147	147	147	147
Indicator value	**99.8%**	**99.8%**	**99.5%**	**99.7%**	**99.7%**	**99.7%**	**100.0%**	**99.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness



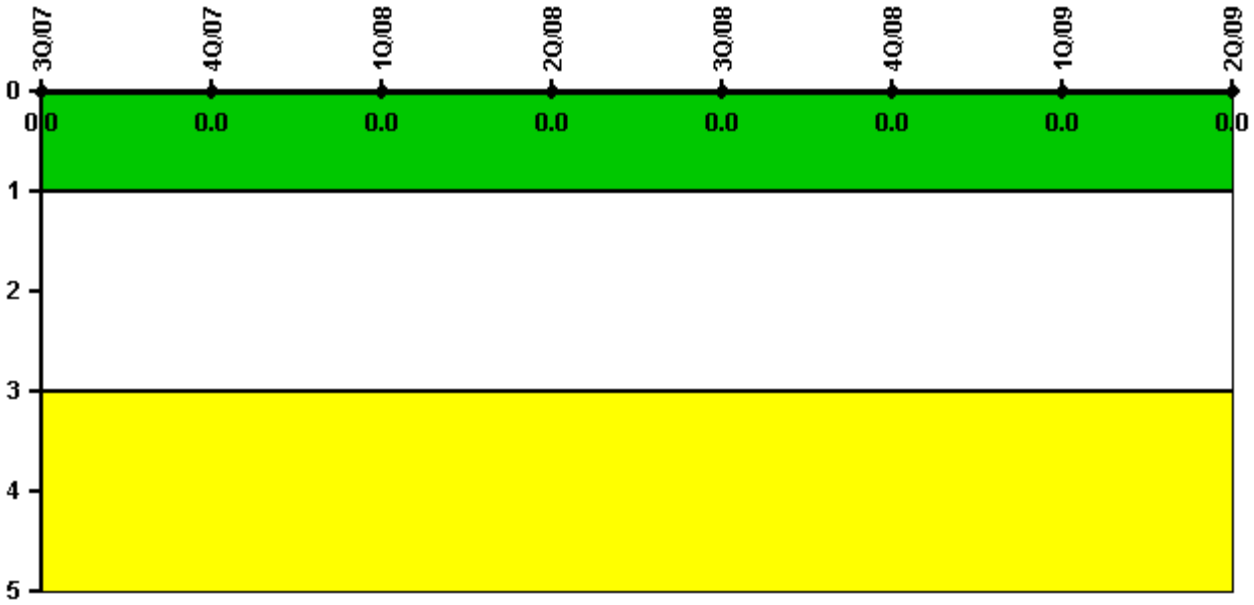
Thresholds: White > 2.0 Yellow > 5.0

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.