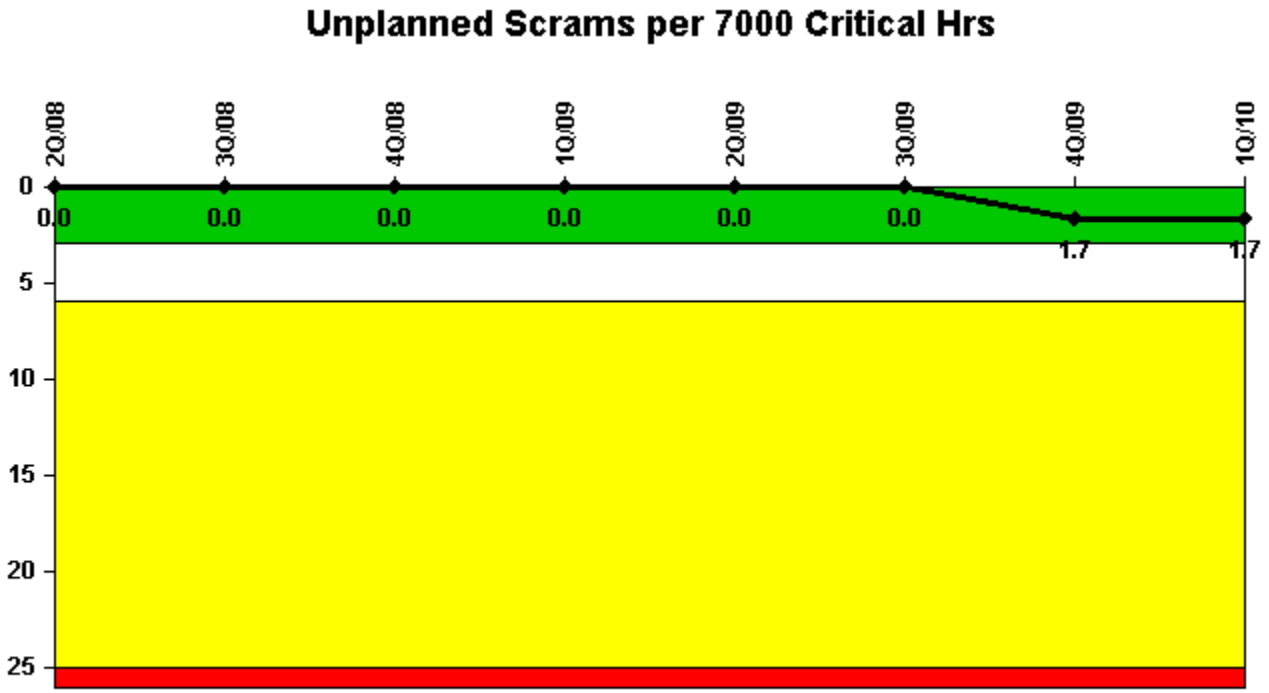
Vogtle 1

1Q/2010 Performance Indicators

Licensee's General Comments: none



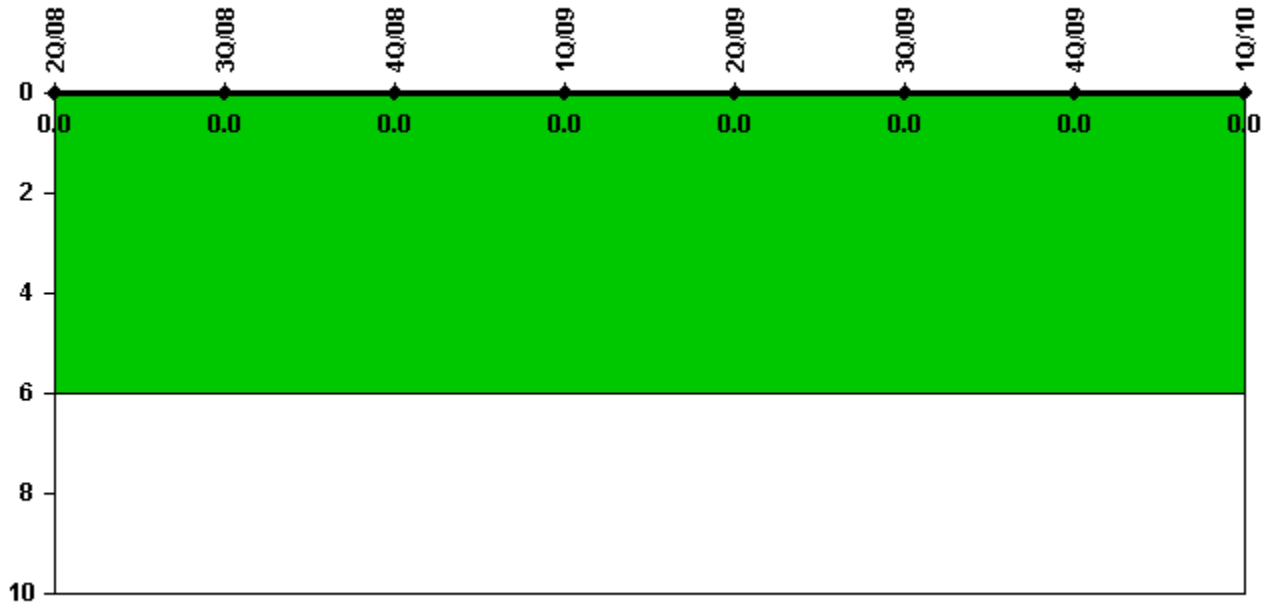
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	0	0	0	0	0	0	2.0	0
Critical hours	1655.9	2208.0	2209.0	2159.0	2184.0	1950.0	1736.2	2159.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1.7**	**1.7**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



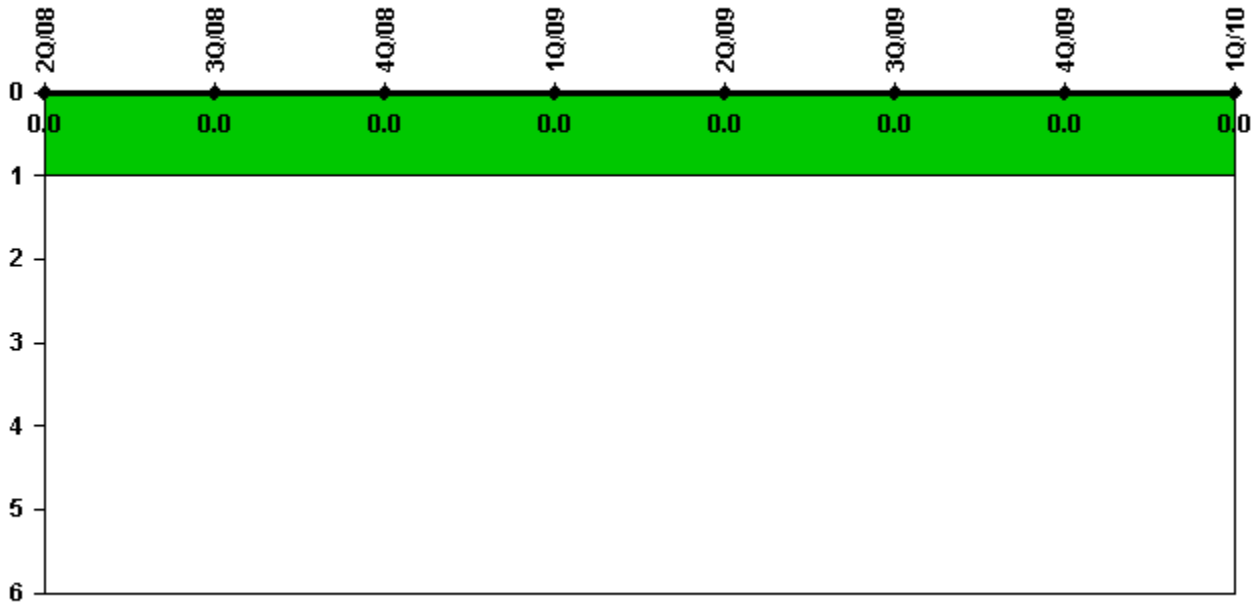
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1655.9	2208.0	2209.0	2159.0	2184.0	1950.0	1736.2	2159.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications



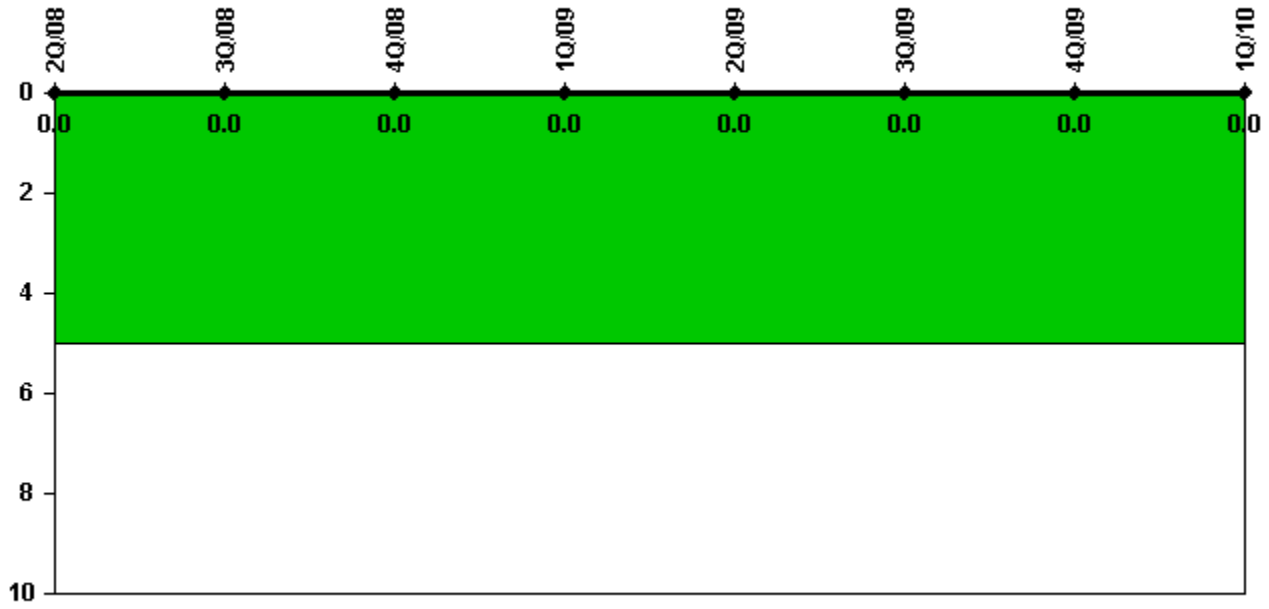
Thresholds: White > 1.0

Notes

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



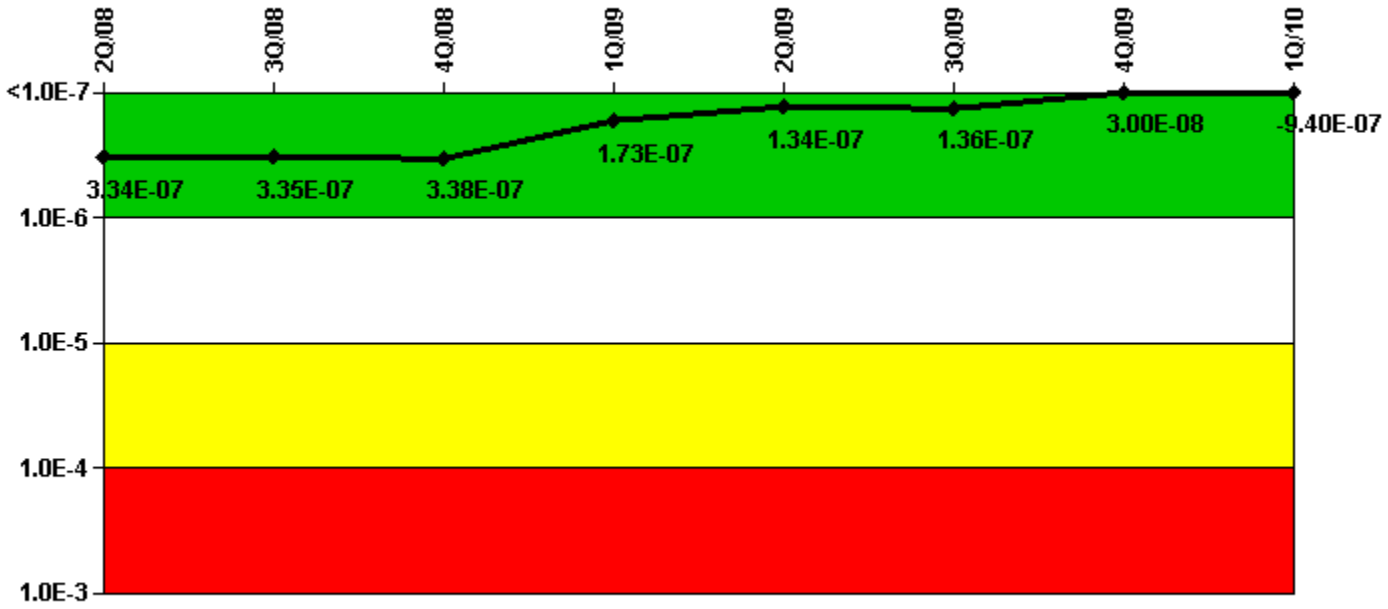
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
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



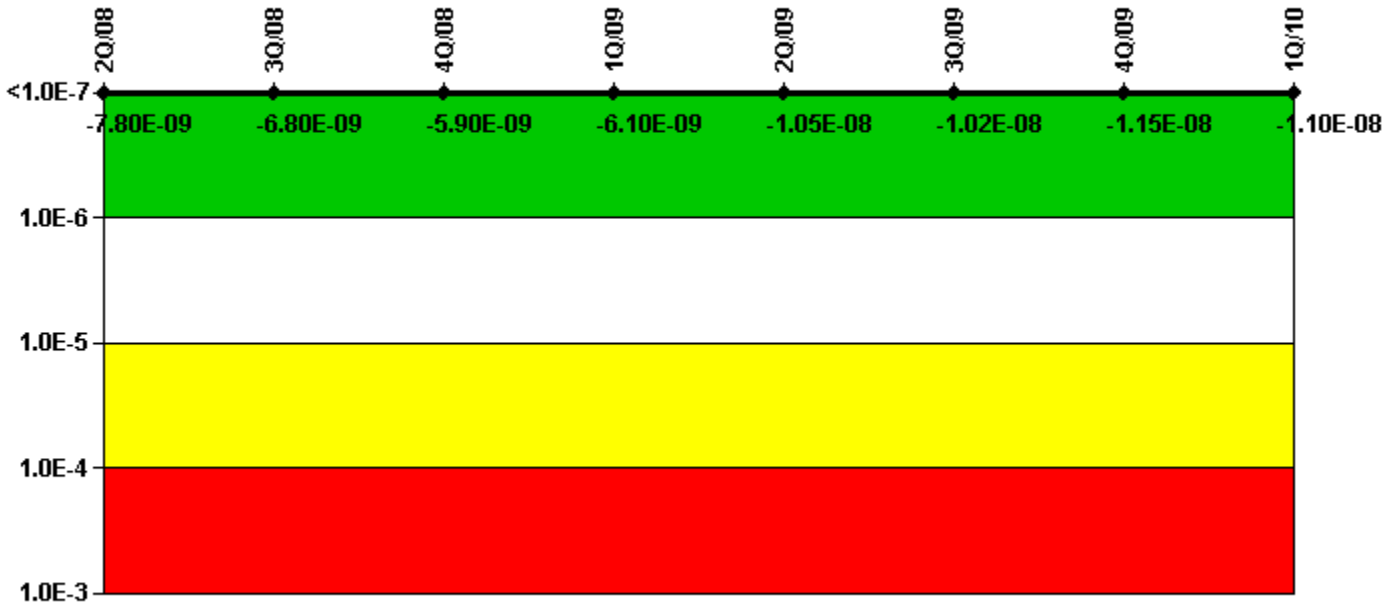
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	8.40E-08	8.50E-08	8.80E-08	2.30E-08	-1.60E-08	-2.40E-08	-1.20E-07	-1.75E-07
URI (ΔCDF)	2.50E-07	2.50E-07	2.50E-07	1.50E-07	1.50E-07	1.60E-07	1.50E-07	-7.64E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.34E-07**	**3.35E-07**	**3.38E-07**	**1.73E-07**	**1.34E-07**	**1.36E-07**	**3.00E-08**	**-9.40E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



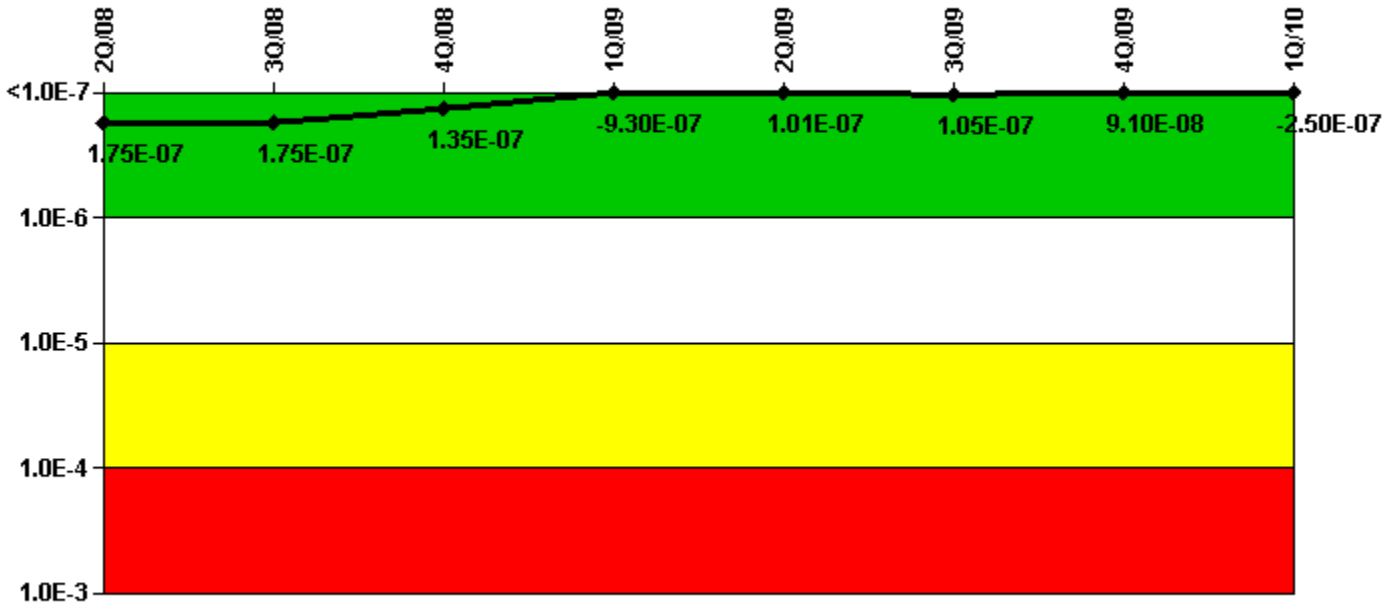
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	1.40E-09	2.40E-09	3.10E-09	3.00E-09	-1.30E-09	-9.10E-10	-2.20E-09	-1.65E-09
URI (ΔCDF)	-9.20E-09	-9.20E-09	-9.00E-09	-9.10E-09	-9.20E-09	-9.30E-09	-9.30E-09	-9.41E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.80E-09**	**-6.80E-09**	**-5.90E-09**	**-6.10E-09**	**-1.05E-08**	**-1.02E-08**	**-1.15E-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

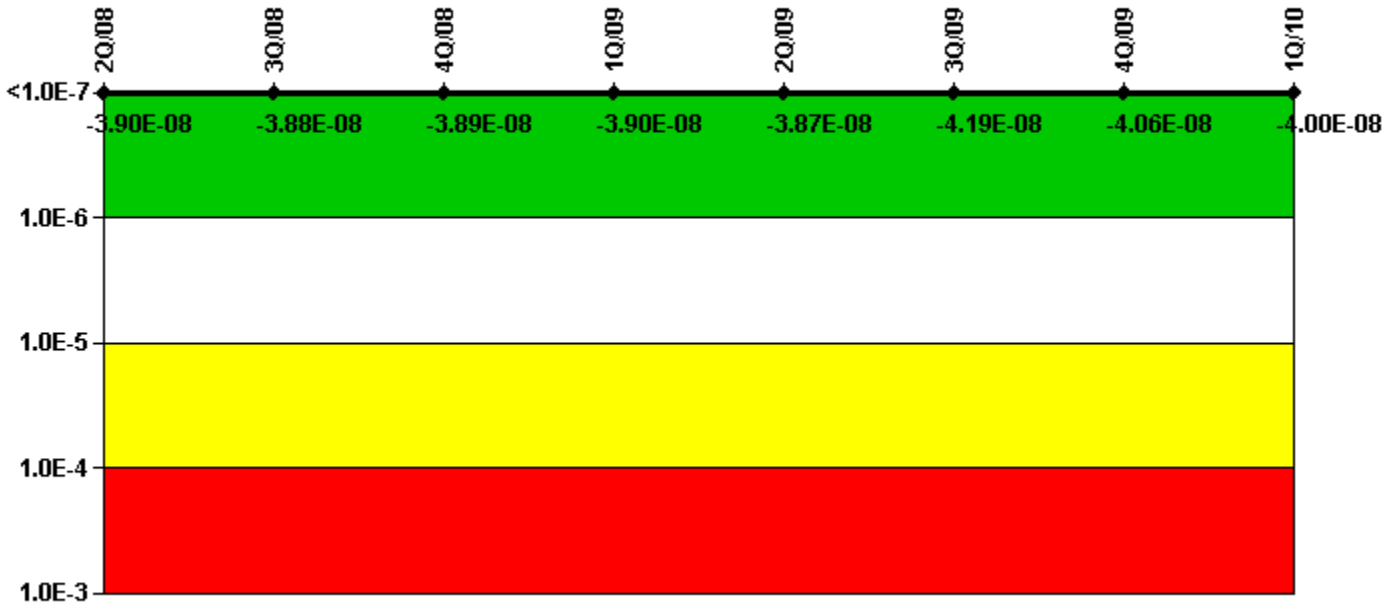
Notes

Mitigating Systems Performance Index, Heat Removal System	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	2.50E-08	2.50E-08	-1.50E-08	-1.60E-07	-5.90E-08	-5.50E-08	-4.90E-08	2.41E-08
URI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	-7.70E-07	1.60E-07	1.60E-07	1.40E-07	-2.77E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.75E-07**	**1.75E-07**	**1.35E-07**	**-9.30E-07**	**1.01E-07**	**1.05E-07**	**9.10E-08**	**-2.50E-07**

Licensee Comments:

1Q/10: Risk Cap Invoked.

Mitigating Systems Performance Index, Residual Heat Removal System



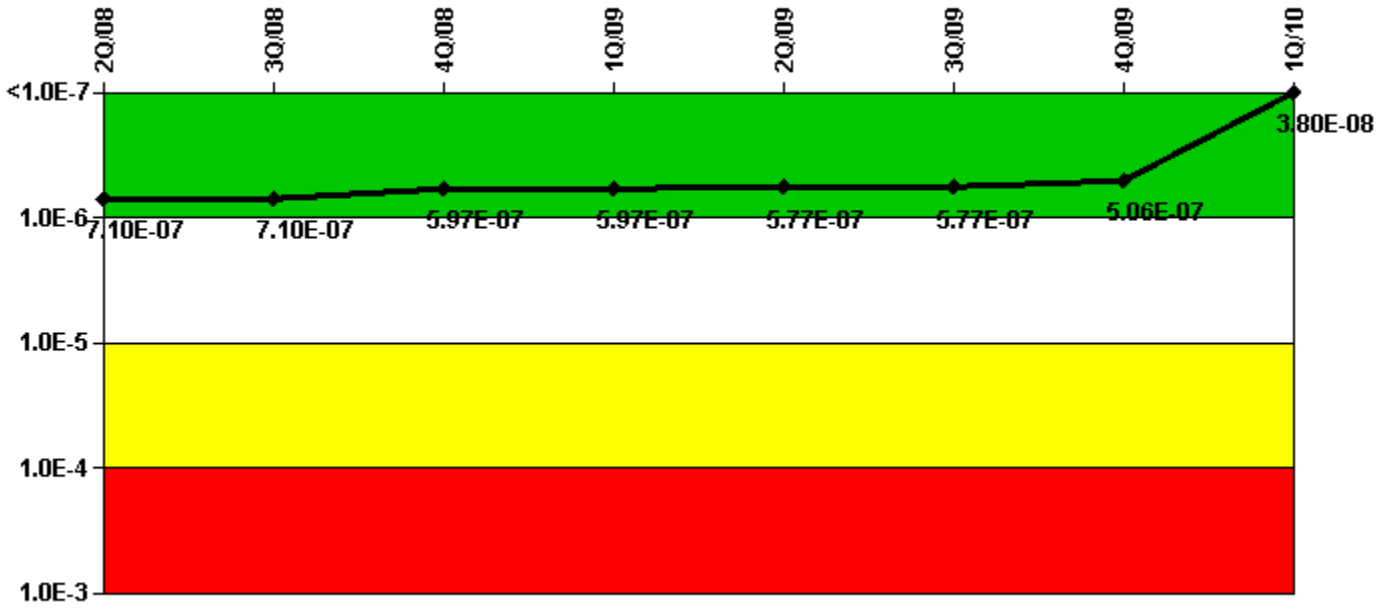
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	-6.00E-09	-5.80E-09	-5.90E-09	-6.00E-09	-6.70E-09	-9.90E-09	-9.60E-09	-9.57E-09
URI (ΔCDF)	-3.30E-08	-3.30E-08	-3.30E-08	-3.30E-08	-3.20E-08	-3.20E-08	-3.10E-08	-3.07E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.90E-08**	**-3.88E-08**	**-3.89E-08**	**-3.90E-08**	**-3.87E-08**	**-4.19E-08**	**-4.06E-08**	**-4.00E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



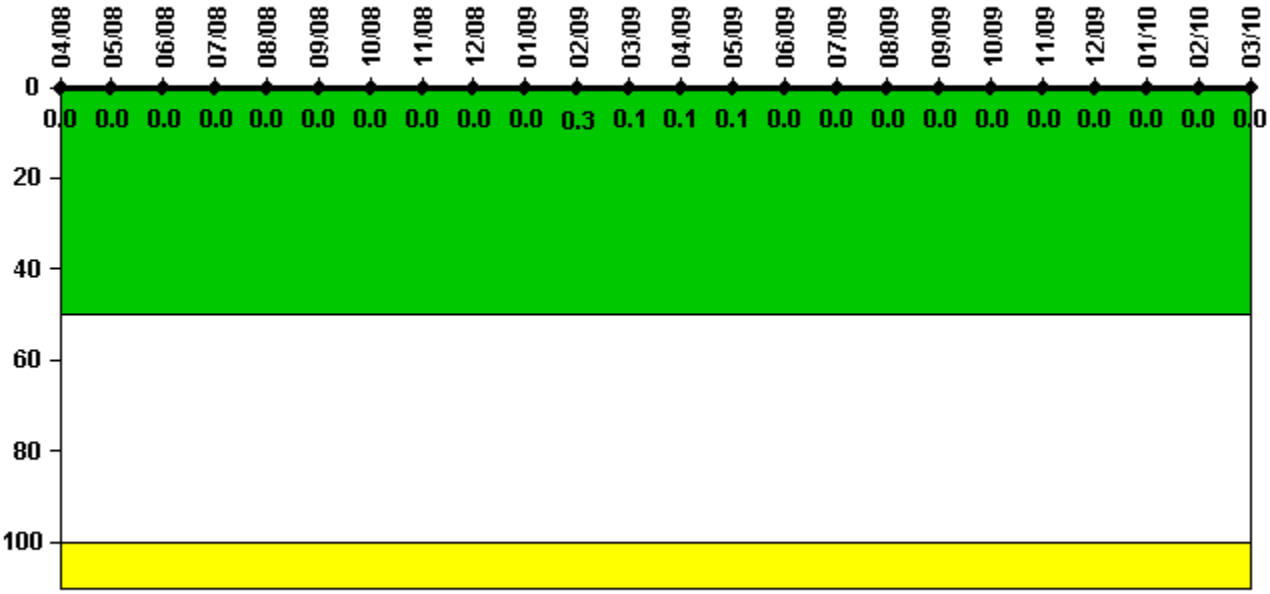
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	1.50E-07	1.50E-07	3.70E-08	3.70E-08	3.70E-08	3.70E-08	3.60E-08	2.78E-08
URI (ΔCDF)	5.60E-07	5.60E-07	5.60E-07	5.60E-07	5.40E-07	5.40E-07	4.70E-07	1.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.10E-07**	**7.10E-07**	**5.97E-07**	**5.97E-07**	**5.77E-07**	**5.77E-07**	**5.06E-07**	**3.80E-08**

Licensee Comments: none

Reactor Coolant System Activity



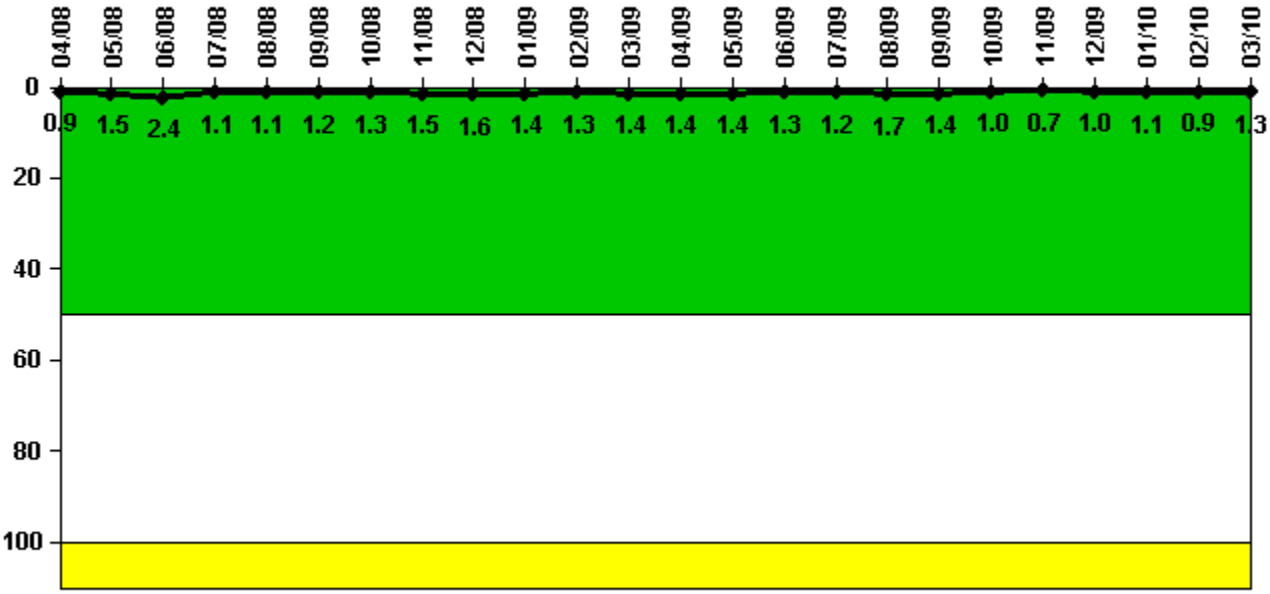
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**
Maximum activity	0.000066	0.000084	0.000315	0.000121	0.000093	0.000093	0.000100	0.000183	0.000175	0.000200	0.002520	0.000948
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**	**0.3**	**0.1**
Reactor Coolant System Activity	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**
Maximum activity	0.001279	0.000539	0.000204	0.000202	0.000165	0.000195	0.000066	0.000086	0.000080	0.000090	0.000090	0.000099
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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

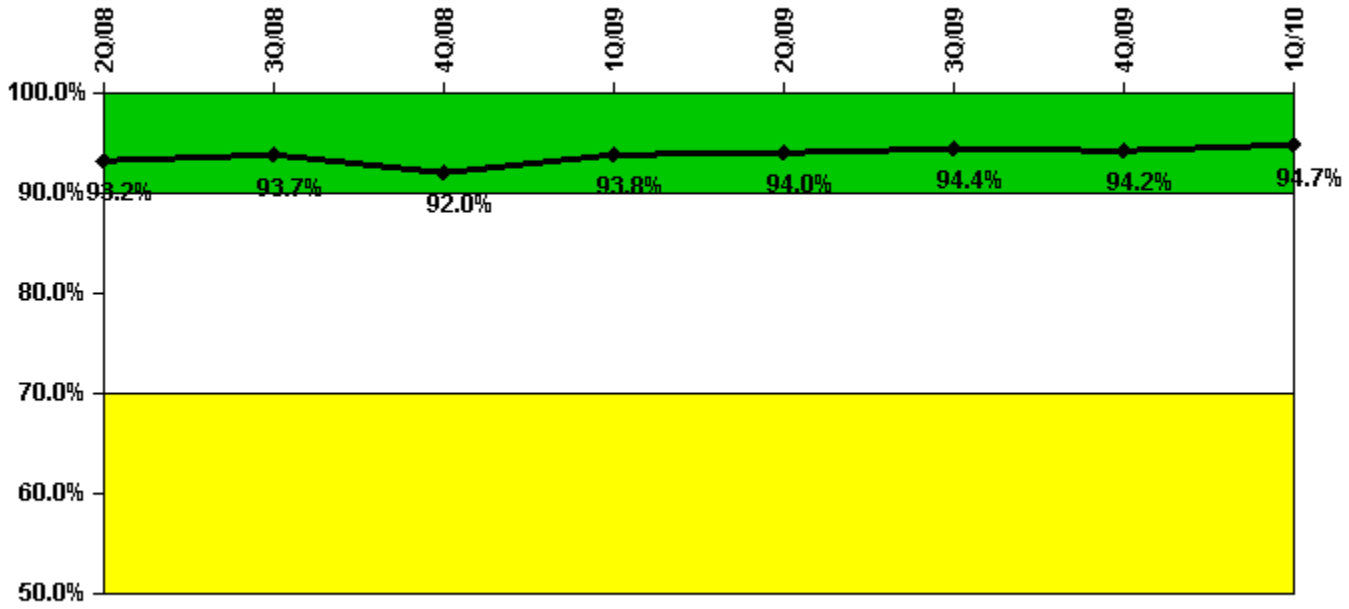
Notes

Reactor Coolant System Leakage	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**
Maximum leakage	0.089	0.145	0.241	0.106	0.108	0.116	0.132	0.147	0.156	0.142	0.131	0.144
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	**0.9**	**1.5**	**2.4**	**1.1**	**1.1**	**1.2**	**1.3**	**1.5**	**1.6**	**1.4**	**1.3**	**1.4**
Reactor Coolant System Leakage	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**
Maximum leakage	0.143	0.135	0.126	0.123	0.165	0.135	0.104	0.072	0.101	0.105	0.094	0.131
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	**1.4**	**1.4**	**1.3**	**1.2**	**1.7**	**1.4**	**1.0**	**0.7**	**1.0**	**1.1**	**0.9**	**1.3**

Licensee Comments:

12/09: January 2010 leakage data was previously reported in error for December 2009

Drill/Exercise Performance

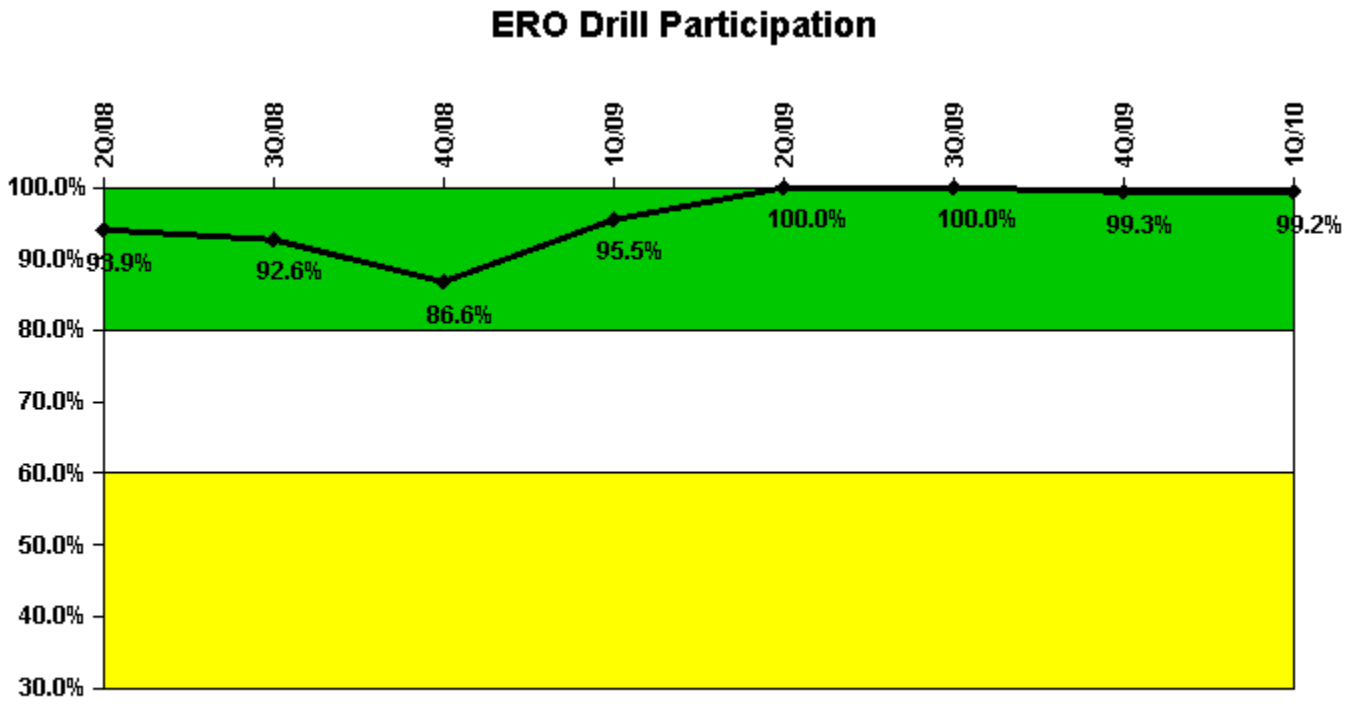


Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	58.0	24.0	28.0	64.0	91.0	81.0	51.0	53.0
Total opportunities	64.0	24.0	36.0	66.0	94.0	83.0	54.0	54.0
Indicator value	**93.2%**	**93.7%**	**92.0%**	**93.8%**	**94.0%**	**94.4%**	**94.2%**	**94.7%**

Licensee Comments: none



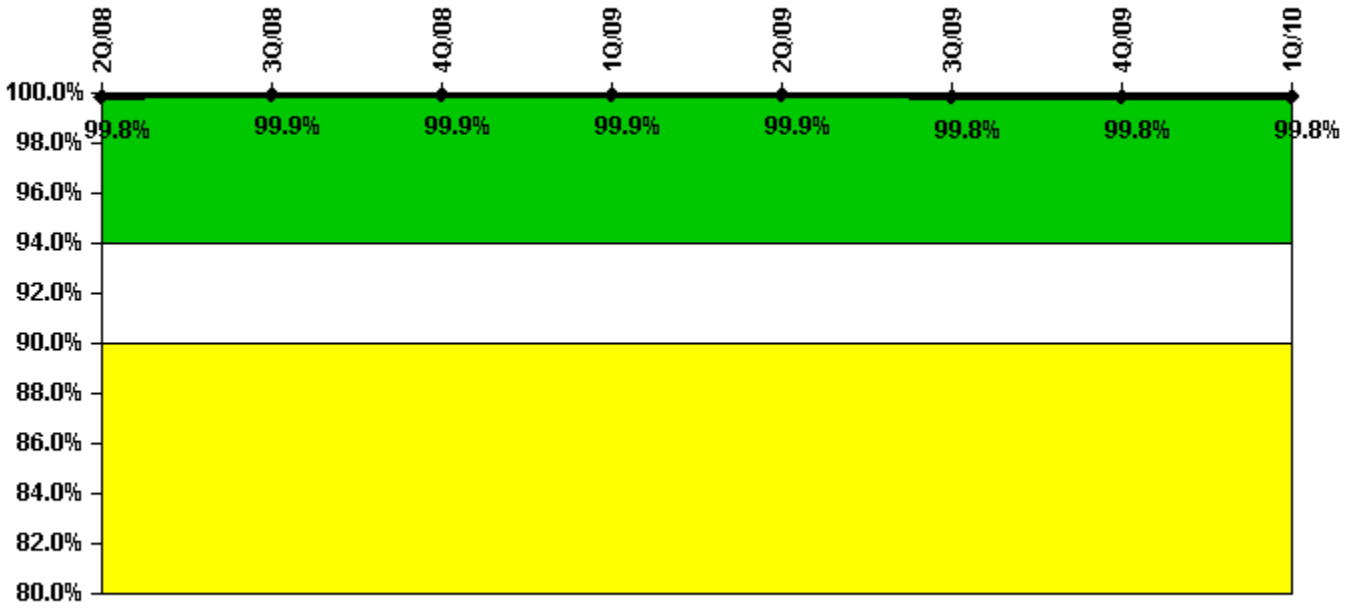
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	123.0	126.0	123.0	127.0	137.0	139.0	135.0	128.0
Total Key personnel	131.0	136.0	142.0	133.0	137.0	139.0	136.0	129.0
Indicator value	**93.9%**	**92.6%**	**86.6%**	**95.5%**	**100.0%**	**100.0%**	**99.3%**	**99.2%**

Licensee Comments: none

Alert & Notification System



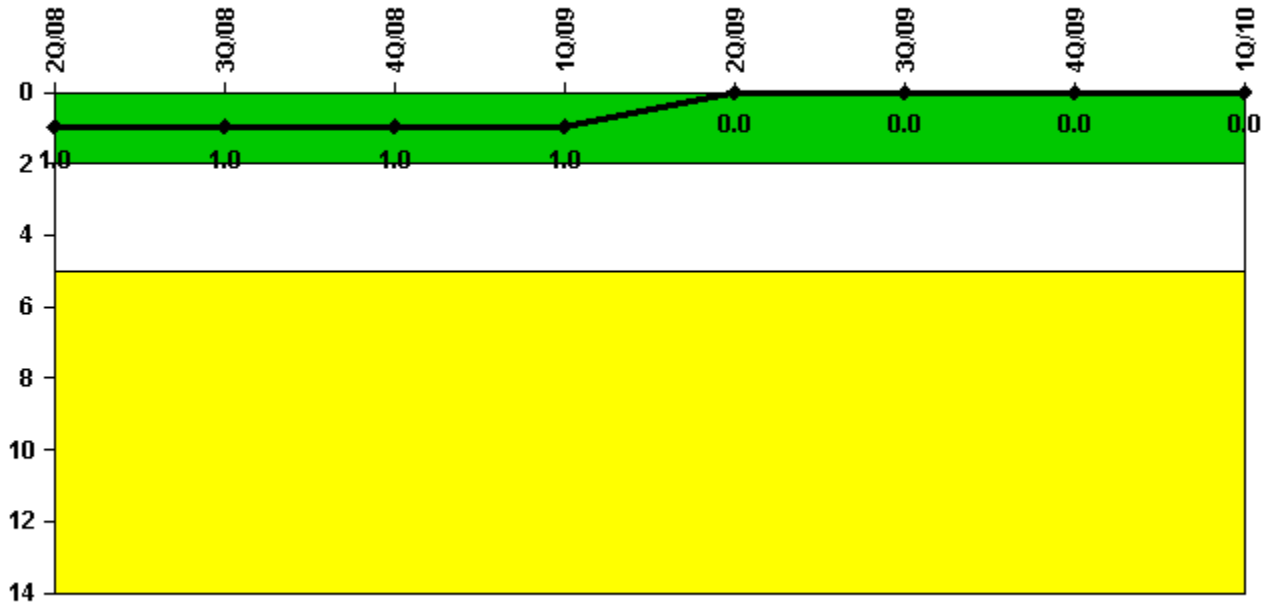
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	610	610	610	611	611	607	611	611
Total sirens-tests	611	611	611	611	611	611	611	611
Indicator value	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**99.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness



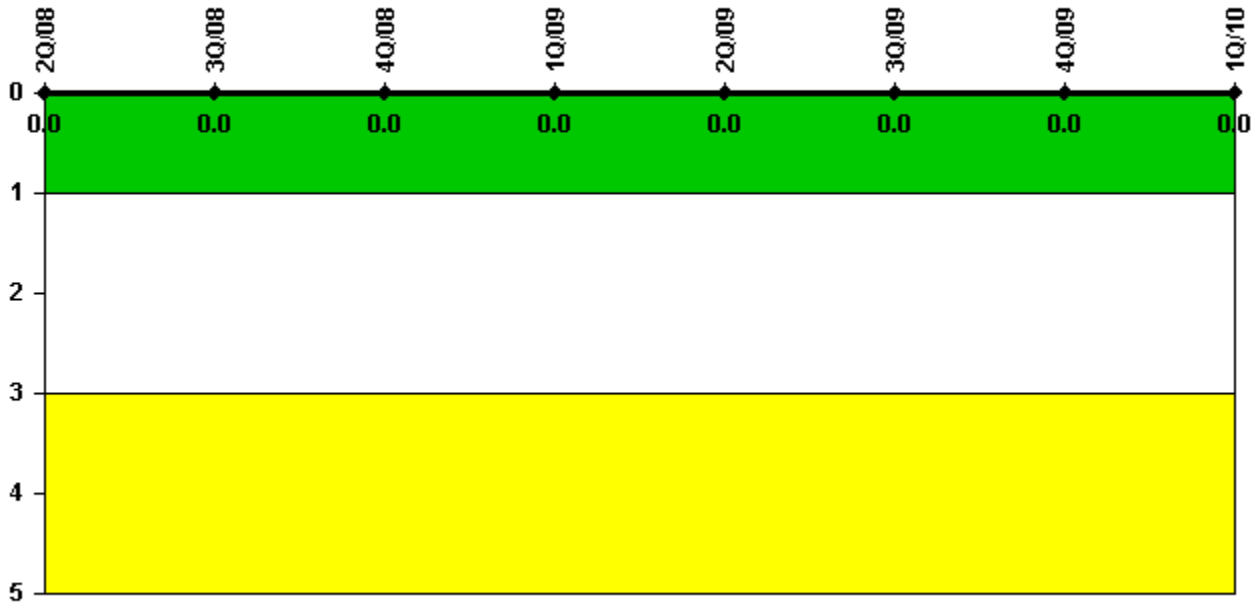
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
High radiation area occurrences	1	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	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/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.

Last Modified: April 26, 2010