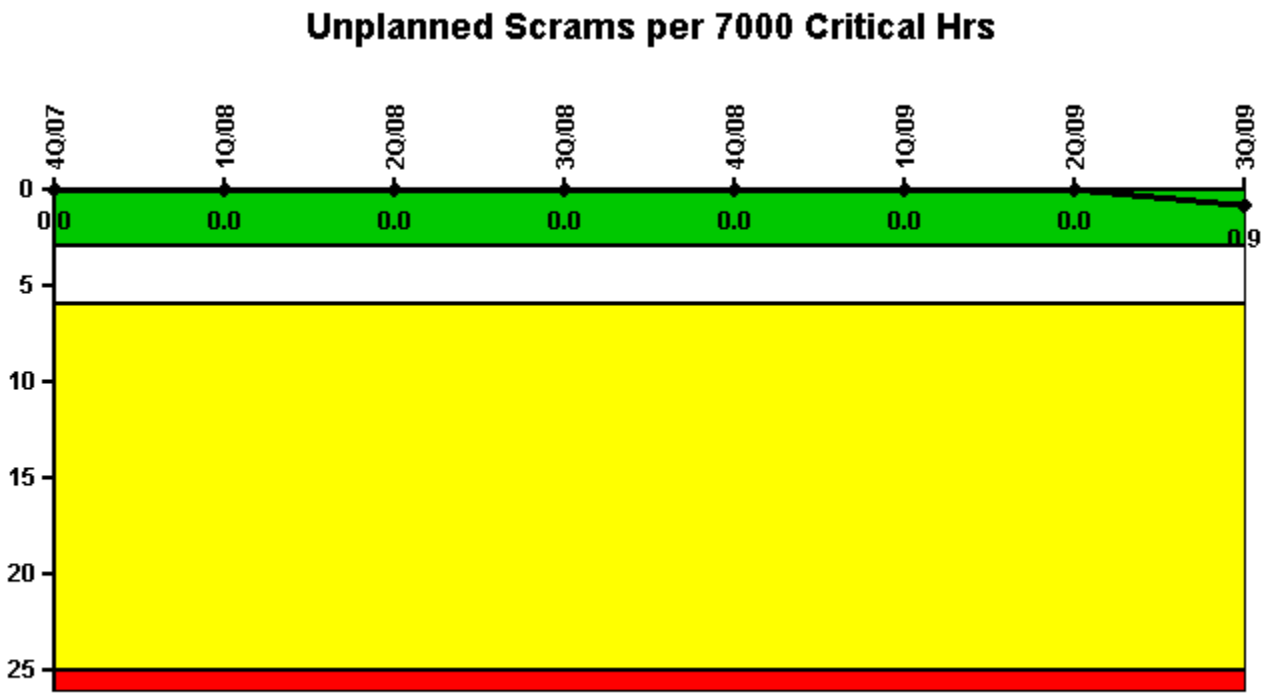
D.C. Cook 2

3Q/2009 Performance Indicators

Licensee's General Comments: none



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

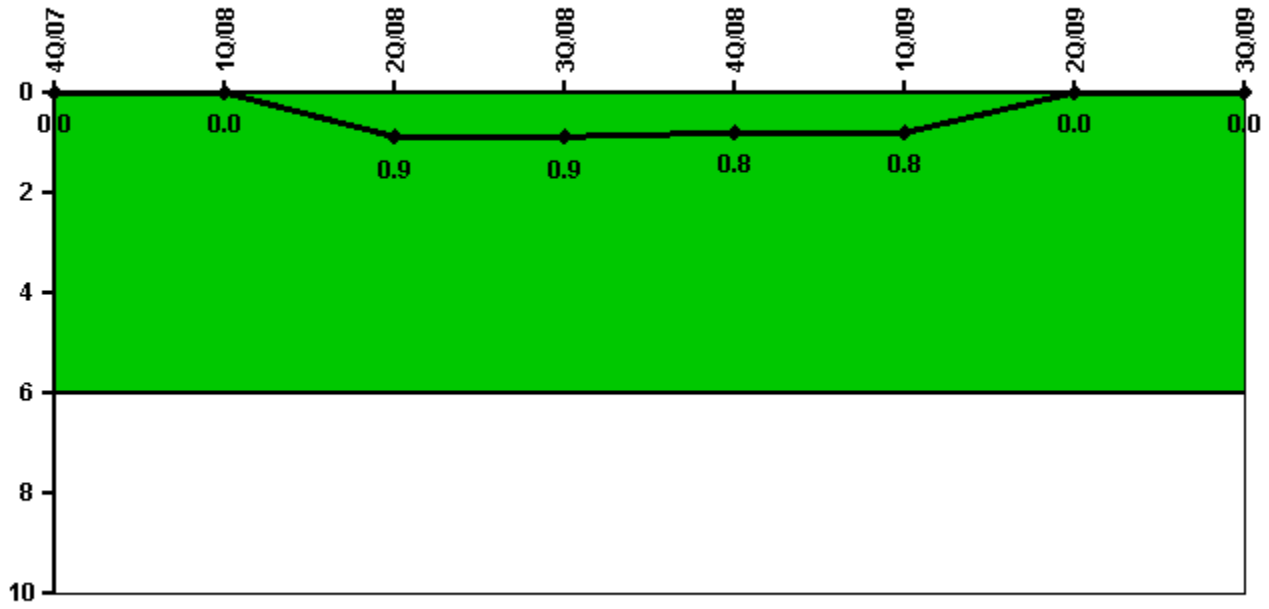
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	1340.3	2183.0	2184.0	2157.2	2209.0	1991.0	1489.3	1908.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments:

3Q/09: Reactor manually tripped on July 26 due to reactor coolant pump seal failure.

Unplanned Power Changes per 7000 Critical Hrs



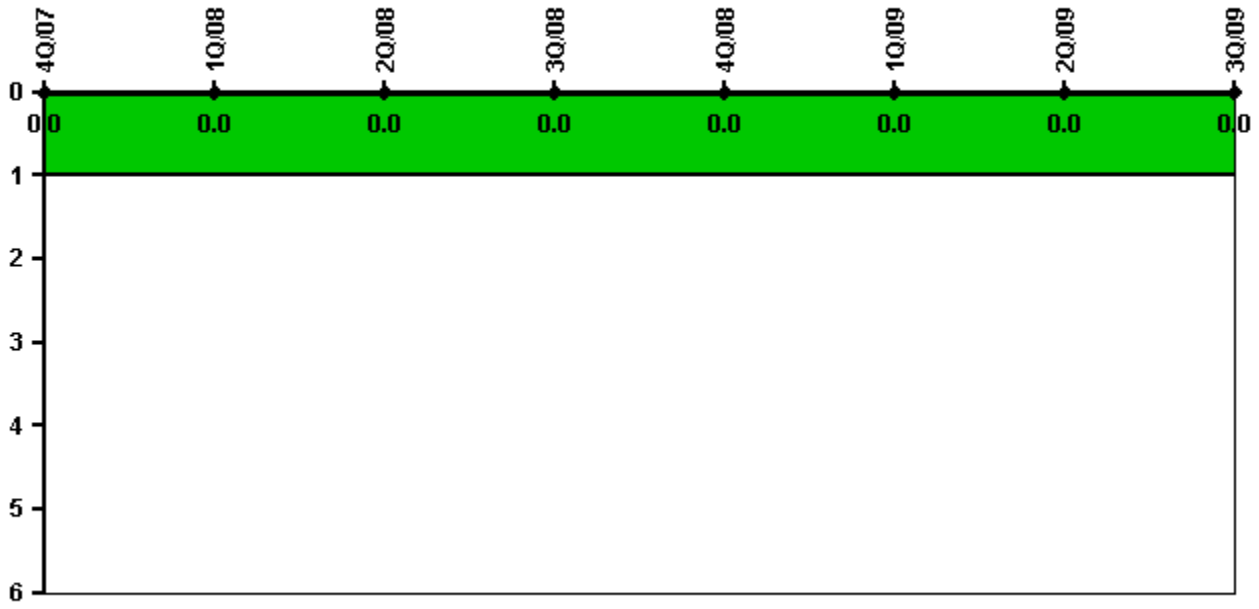
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	1340.3	2183.0	2184.0	2157.2	2209.0	1991.0	1489.3	1908.0
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.8**	**0.8**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications



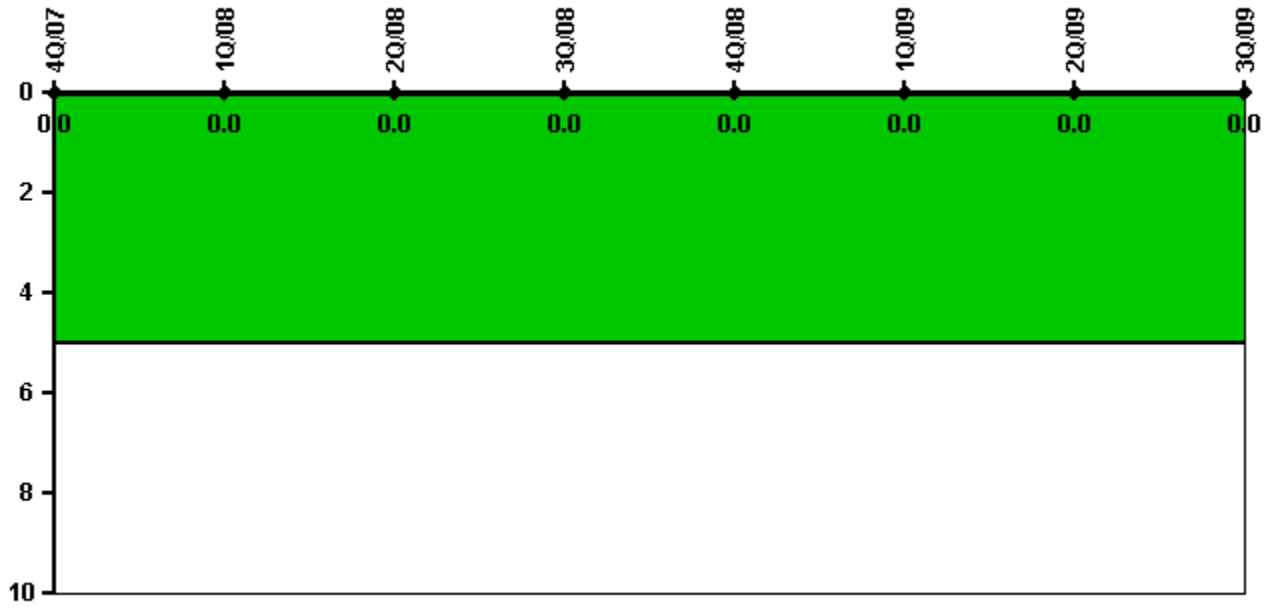
Thresholds: White > 1.0

Notes

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



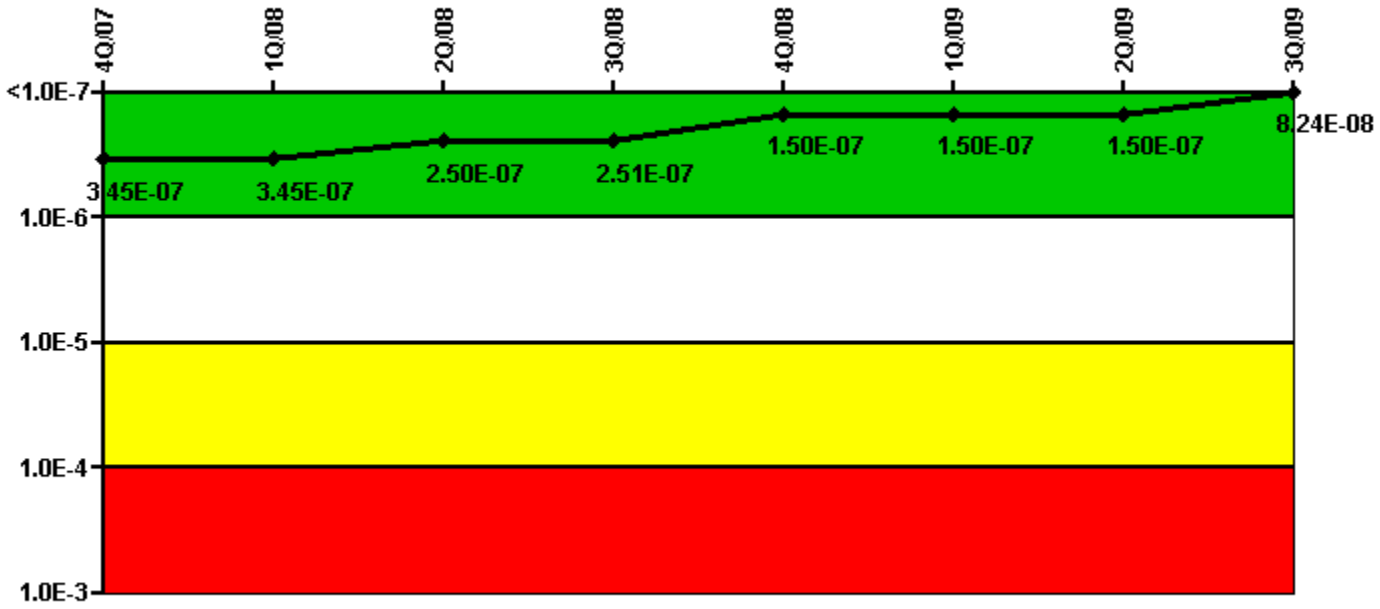
Thresholds: White > 5.0

Notes

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



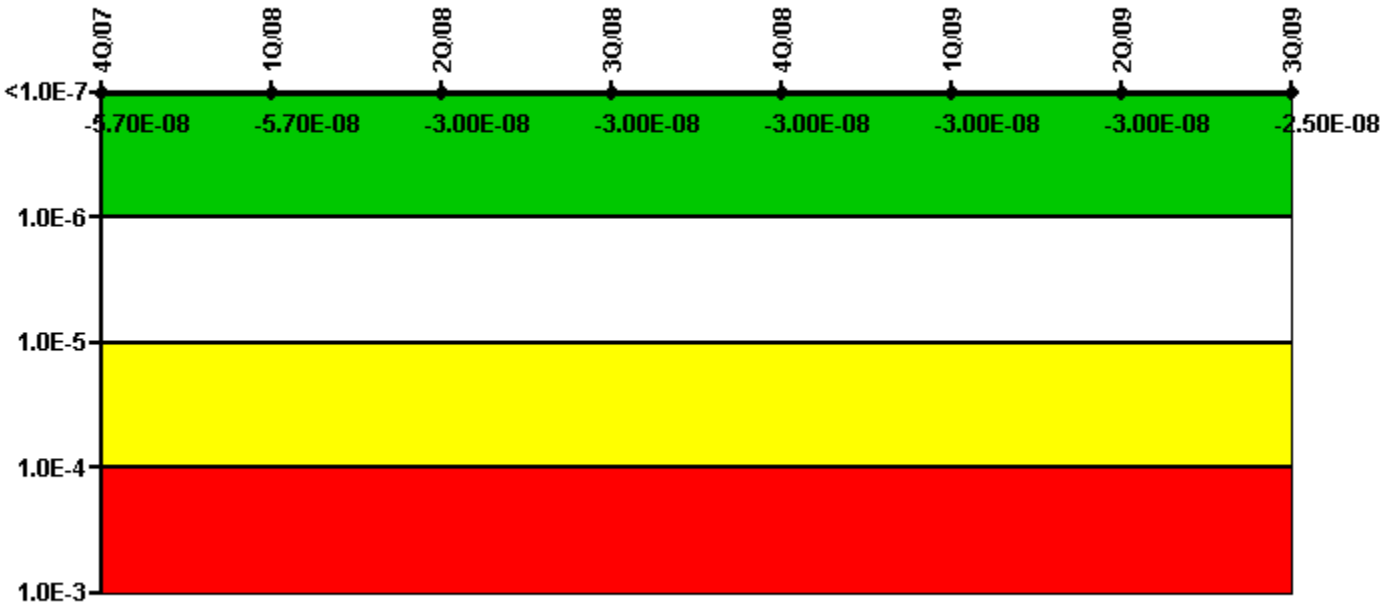
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	5.00E-09	4.90E-09	-2.80E-11	8.10E-10	4.10E-10	1.80E-10	4.20E-10	3.80E-10
URI (ΔCDF)	3.40E-07	3.40E-07	2.50E-07	2.50E-07	1.50E-07	1.50E-07	1.50E-07	8.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.45E-07**	**3.45E-07**	**2.50E-07**	**2.51E-07**	**1.50E-07**	**1.50E-07**	**1.50E-07**	**8.24E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



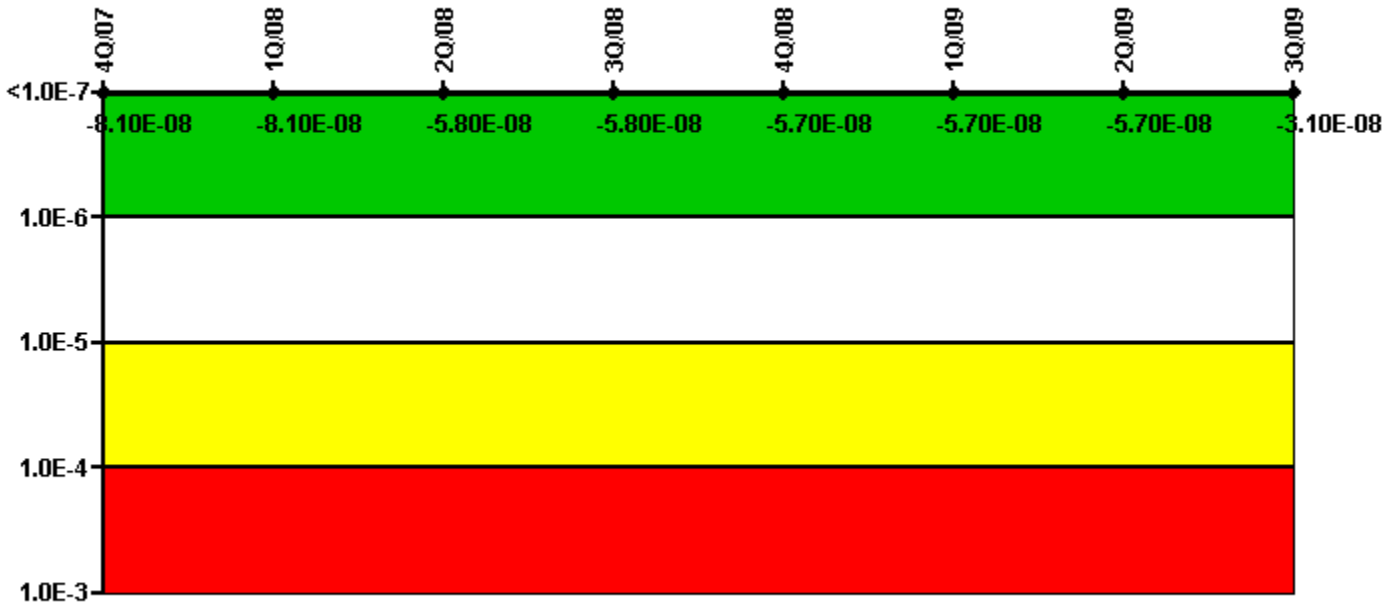
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-4.40E-11	-4.10E-11	-4.40E-11	-4.40E-11	-4.40E-11	-2.70E-11
URI (ΔCDF)	-3.50E-08	-3.50E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-2.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.70E-08**	**-5.70E-08**	**-3.00E-08**	**-3.00E-08**	**-3.00E-08**	**-3.00E-08**	**-3.00E-08**	**-2.50E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



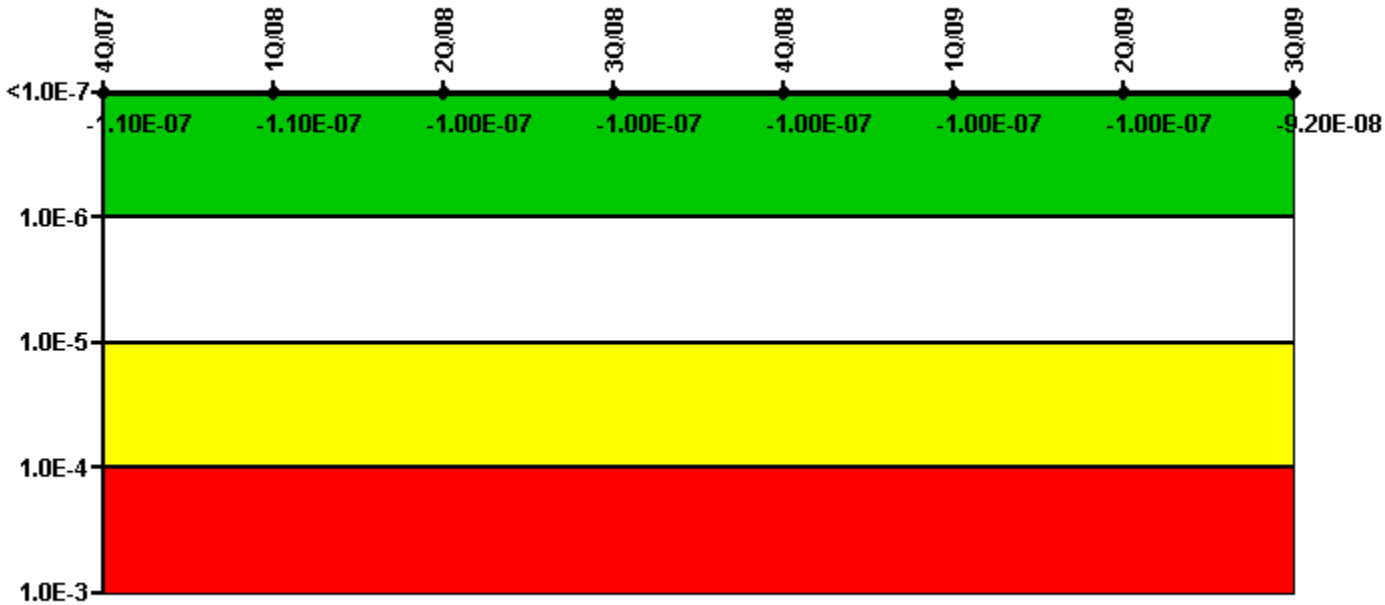
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-4.00E-11	-4.00E-11	-4.00E-11	-4.00E-11	-4.00E-11	-2.90E-11
URI (ΔCDF)	-5.90E-08	-5.90E-08	-5.80E-08	-5.80E-08	-5.70E-08	-5.70E-08	-5.70E-08	-3.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.10E-08**	**-8.10E-08**	**-5.80E-08**	**-5.80E-08**	**-5.70E-08**	**-5.70E-08**	**-5.70E-08**	**-3.10E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



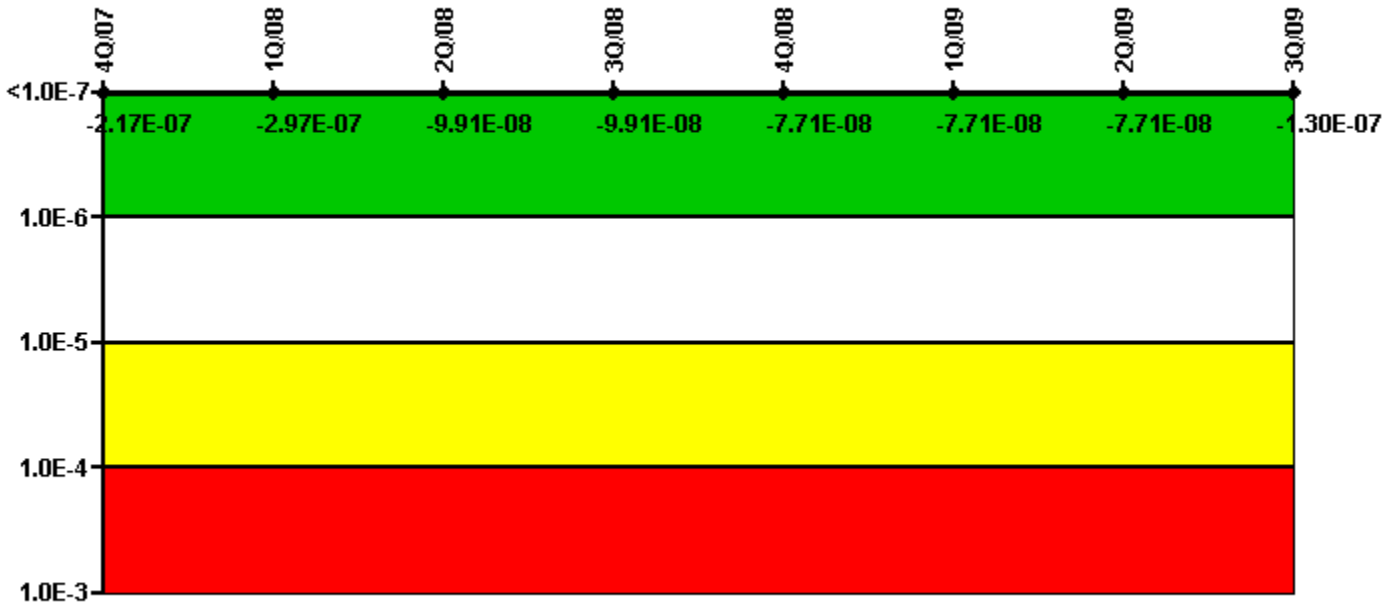
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**
UAI (ΔCDF)	-2.00E-10	-2.00E-10	-1.50E-13	-2.50E-13	-2.50E-13	-2.50E-13	-2.50E-13	-3.20E-13
URI (ΔCDF)	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-9.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-9.20E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



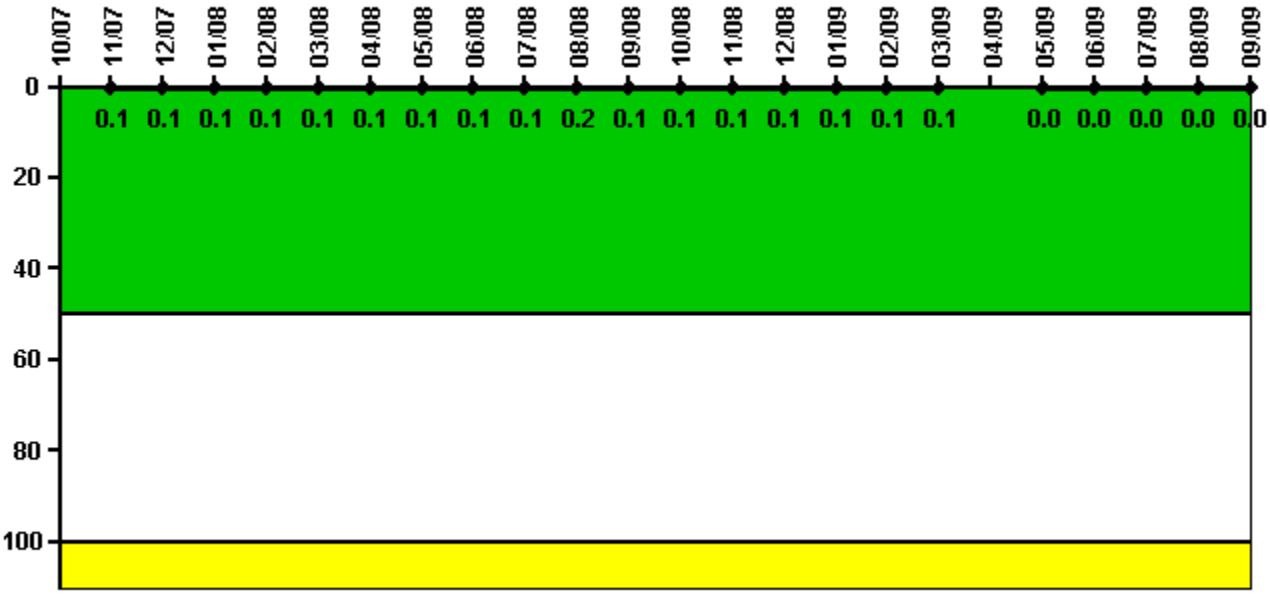
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**
UAI (ΔCDF)	-1.40E-07	-2.20E-07	-7.80E-11	-9.20E-11	-5.60E-11	-5.30E-11	-5.40E-11	-3.30E-11
URI (ΔCDF)	-7.70E-08	-7.70E-08	-9.90E-08	-9.90E-08	-7.70E-08	-7.70E-08	-7.70E-08	-1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.17E-07**	**-2.97E-07**	**-9.91E-08**	**-9.91E-08**	**-7.71E-08**	**-7.71E-08**	**-7.71E-08**	**-1.30E-07**

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

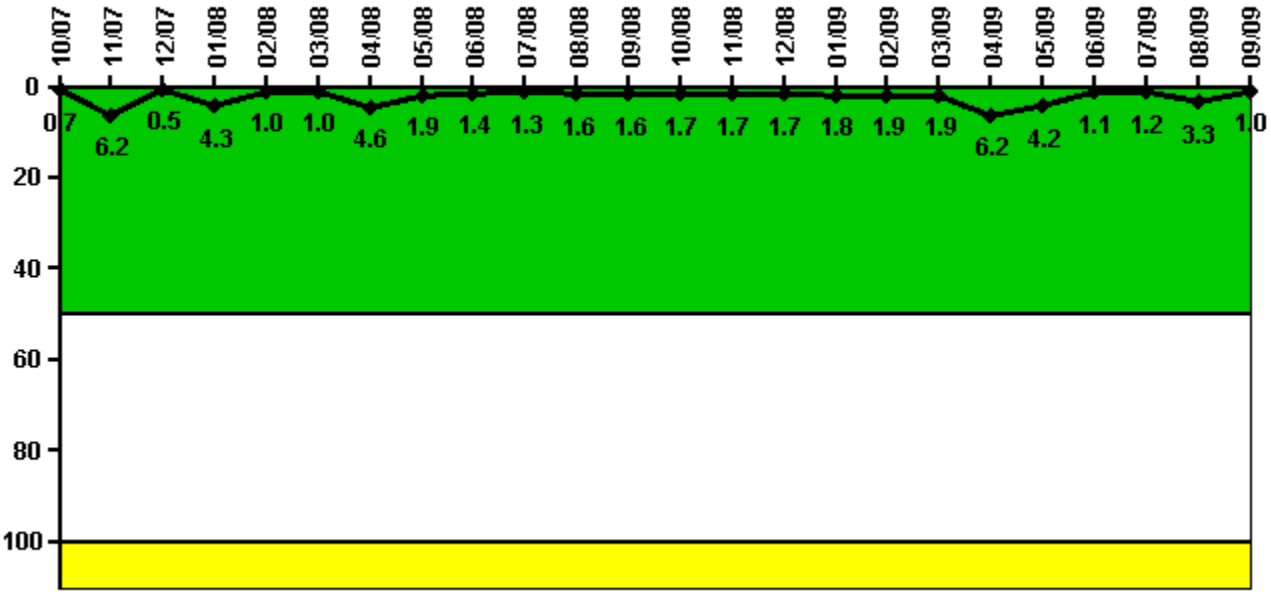
Notes

Reactor Coolant System Activity	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum activity	N/A	0.000114	0.000127	0.000120	0.000118	0.000141	0.000138	0.000138	0.000157	0.000161	0.000355	0.000168
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**

Reactor Coolant System Activity	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum activity	0.000171	0.000173	0.000179	0.000188	0.000185	0.000249	N/A	0.000135	0.000124	0.000127	0.000123	0.000130
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

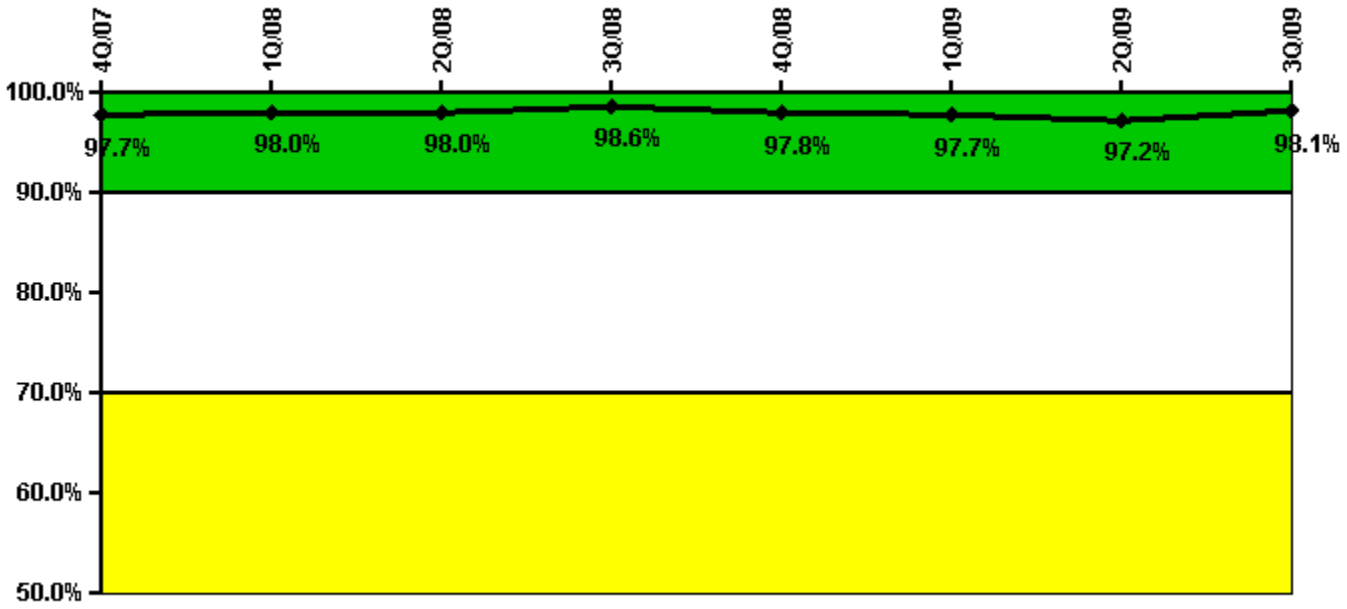
Notes

Reactor Coolant System Leakage	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum leakage	0.075	0.677	0.057	0.475	0.109	0.111	0.501	0.210	0.158	0.148	0.174	0.174
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	**0.7**	**6.2**	**0.5**	**4.3**	**1.0**	**1.0**	**4.6**	**1.9**	**1.4**	**1.3**	**1.6**	**1.6**
Reactor Coolant System Leakage	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**
Maximum leakage	0.184	0.184	0.187	0.200	0.211	0.207	0.677	0.465	0.118	0.127	0.362	0.108
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	**1.7**	**1.7**	**1.7**	**1.8**	**1.9**	**1.9**	**6.2**	**4.2**	**1.1**	**1.2**	**3.3**	**1.0**

Licensee Comments:

9/09: Regarding August 2009 data: The highest leak rate identified for August reflects leakage to the North Chemical & Volume Control System Hold-up Tank due to the associated tank selection valve leaking by. Additional leak rate measurements confirmed this leakage path. The leakby has been corrected.

Drill/Exercise Performance

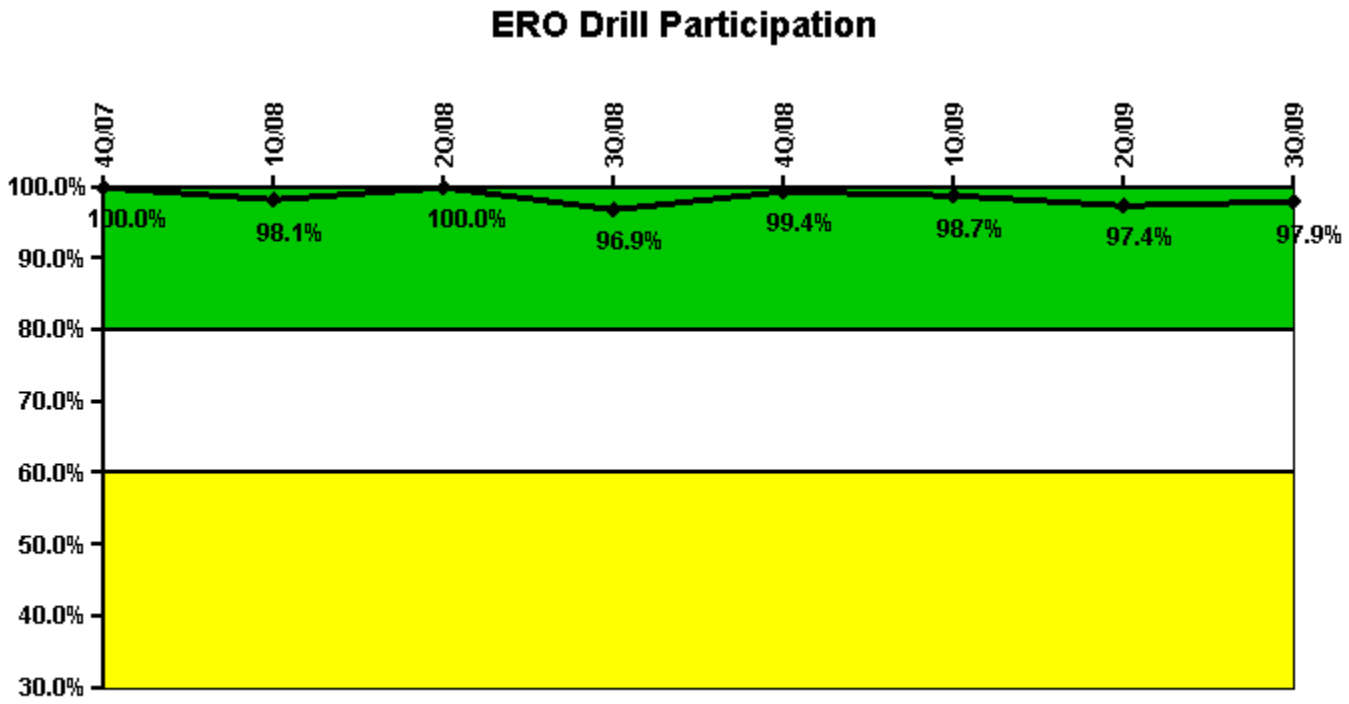


Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	51.0	87.0	27.0	132.0	96.0	47.0	5.0	82.0
Total opportunities	51.0	89.0	27.0	132.0	101.0	47.0	5.0	85.0
Indicator value	**97.7%**	**98.0%**	**98.0%**	**98.6%**	**97.8%**	**97.7%**	**97.2%**	**98.1%**

Licensee Comments: none



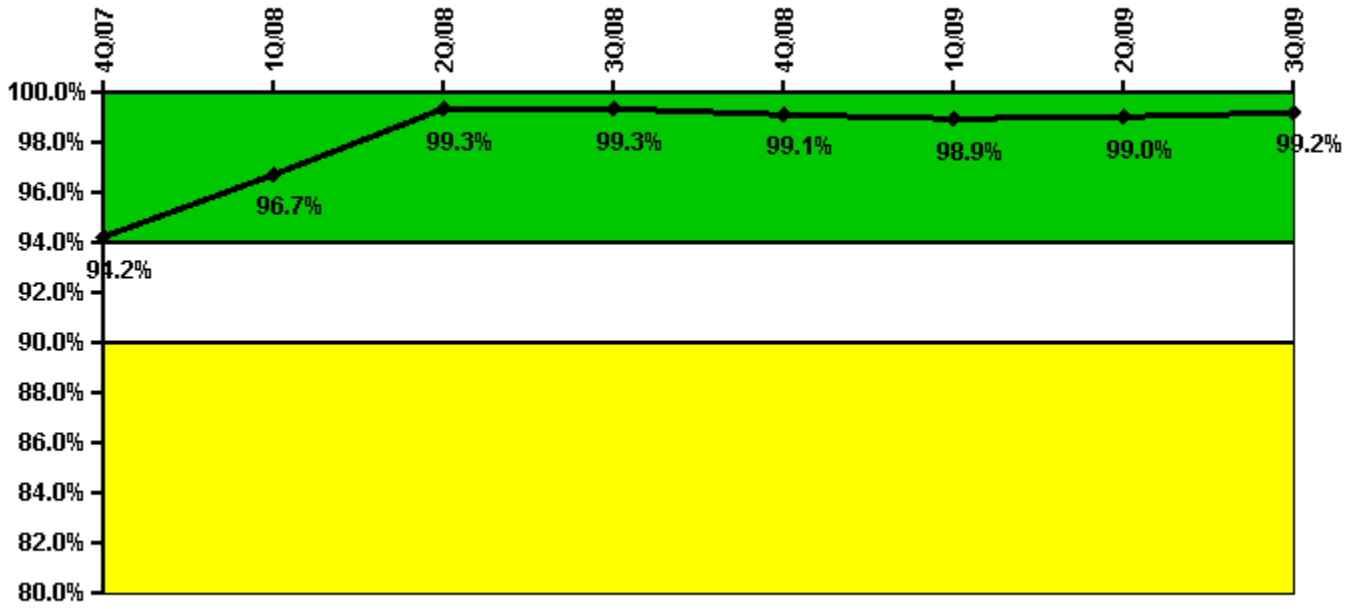
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Participating Key personnel	160.0	151.0	157.0	155.0	153.0	156.0	152.0	140.0
Total Key personnel	160.0	154.0	157.0	160.0	154.0	158.0	156.0	143.0
Indicator value	**100.0%**	**98.1%**	**100.0%**	**96.9%**	**99.4%**	**98.7%**	**97.4%**	**97.9%**

Licensee Comments: none

Alert & Notification System



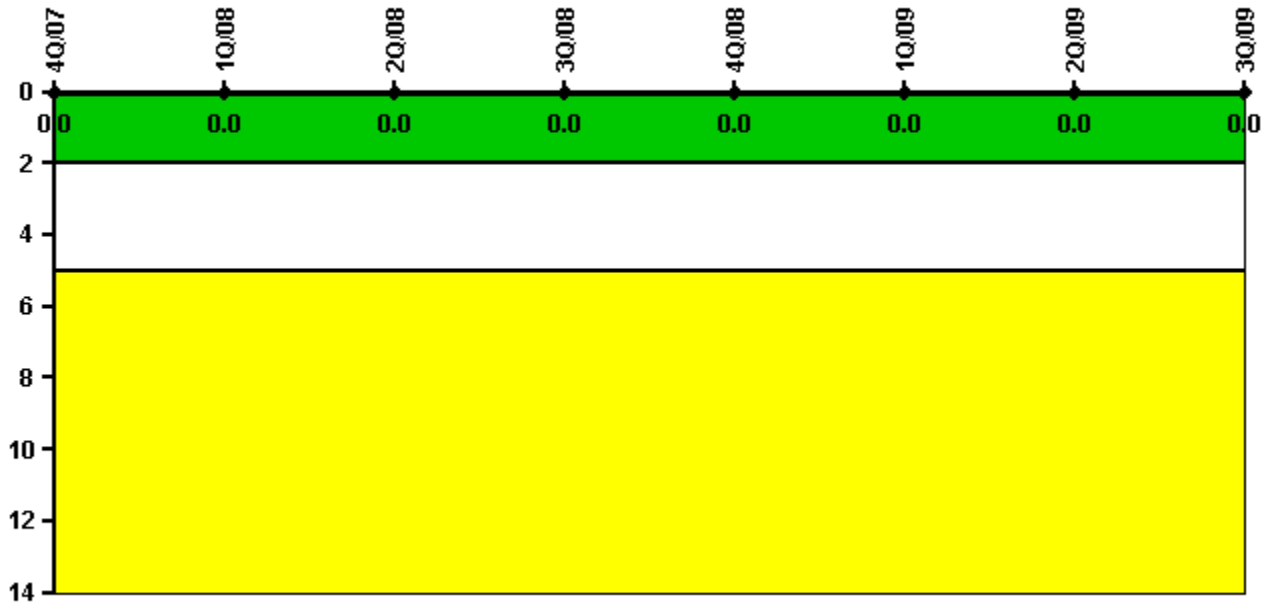
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	1108	1112	1112	1111	1171	1035	1117	1190
Total sirens-tests	1116	1120	1119	1120	1190	1050	1119	1190
Indicator value	**94.2%**	**96.7%**	**99.3%**	**99.3%**	**99.1%**	**98.9%**	**99.0%**	**99.2%**

Licensee Comments: none

Occupational Exposure Control Effectiveness



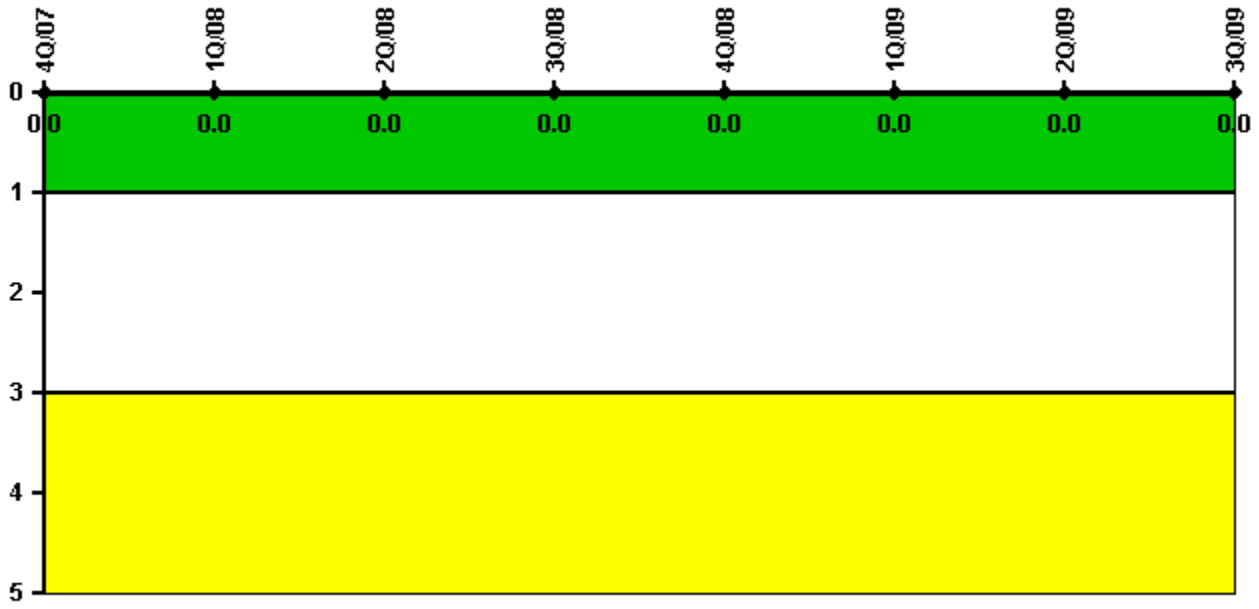
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Last Modified: November 30, 2009