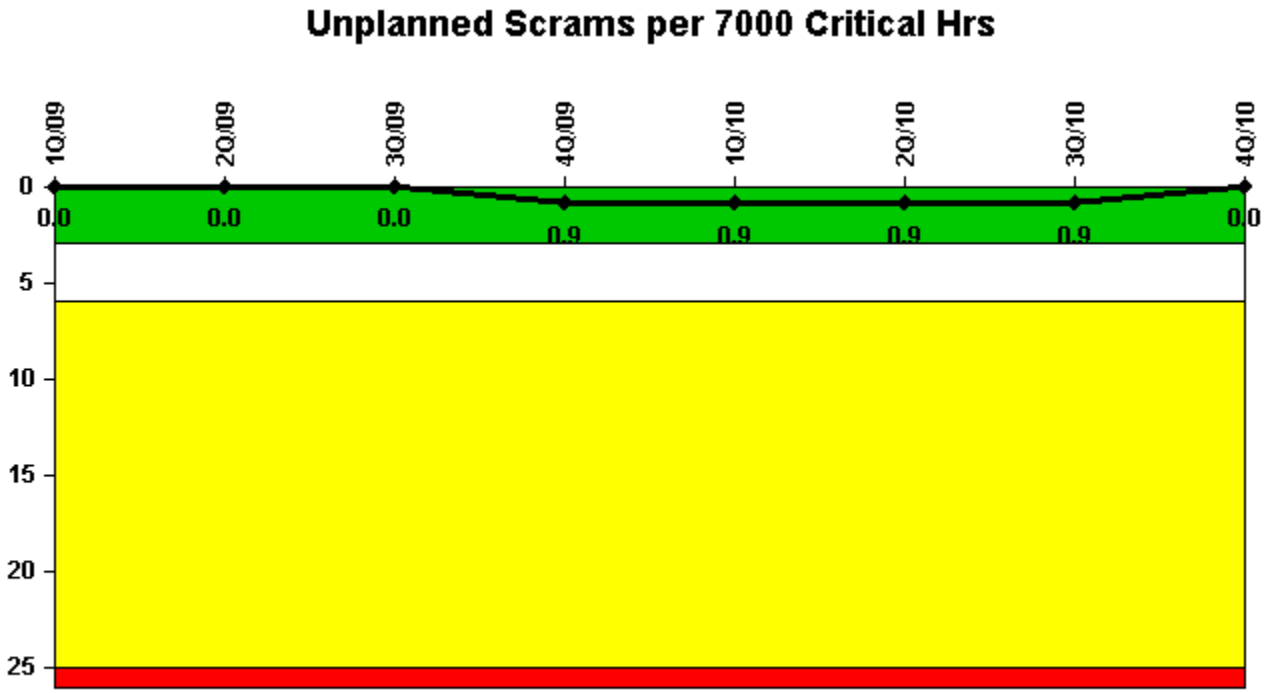
Surry 2

4Q/2010 Performance Indicators

Licensee's General Comments: none



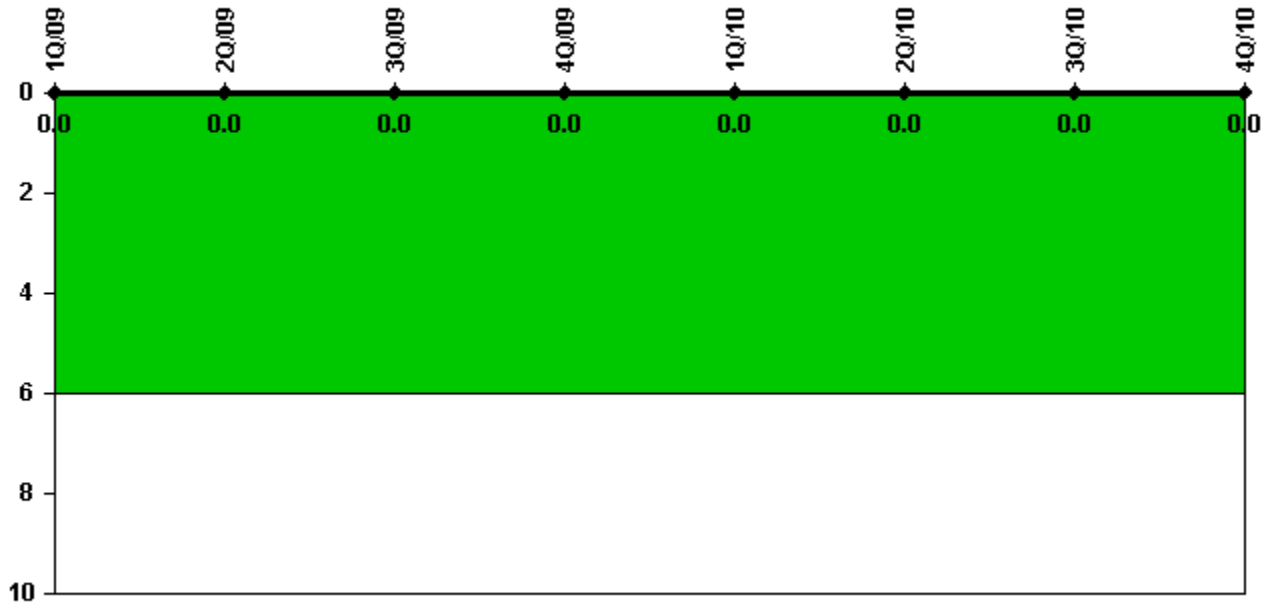
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	1520.0	2159.0	2184.0	2107.9	2209.0
Indicator value	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



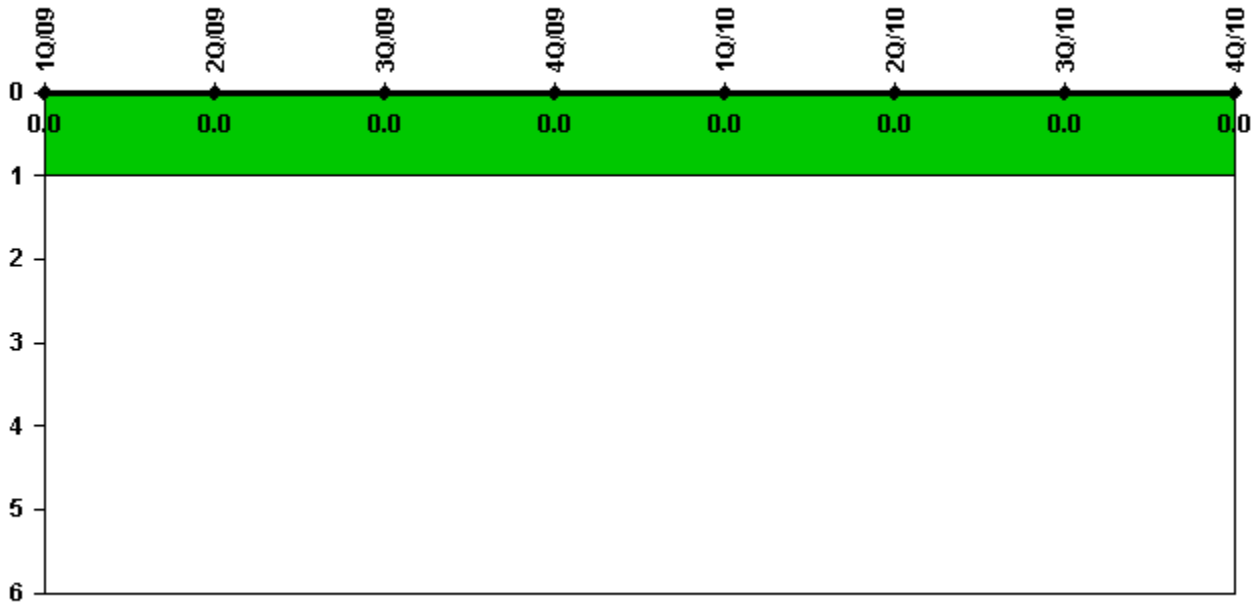
Thresholds: White > 6.0

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	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	1520.0	2159.0	2184.0	2107.9	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications



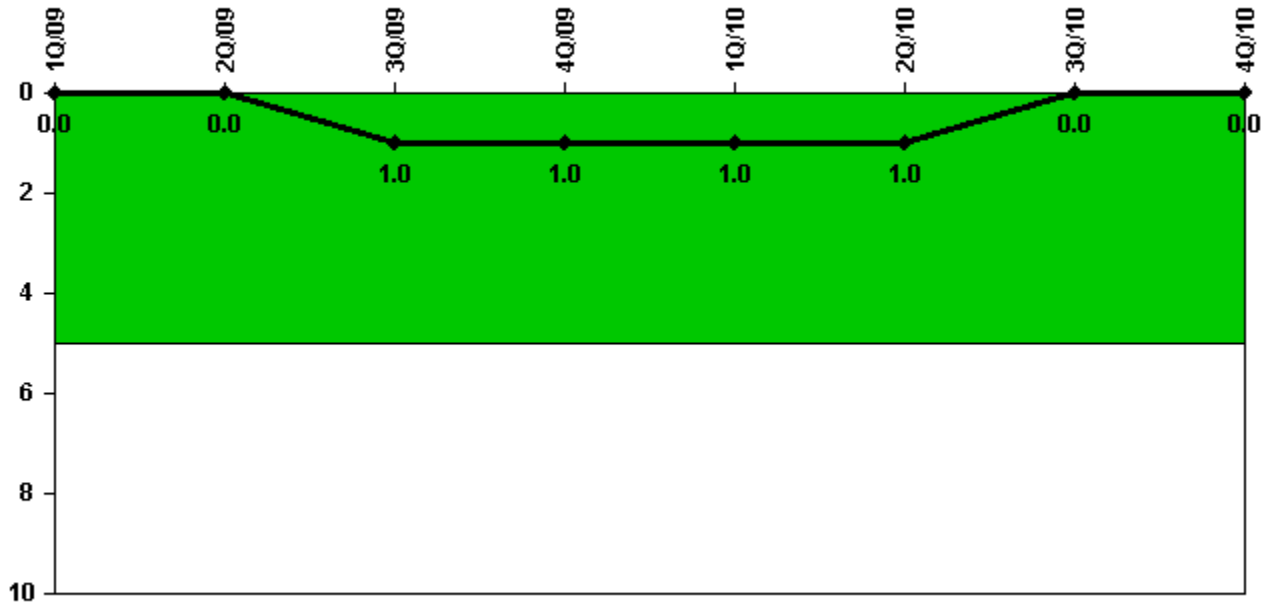
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	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)



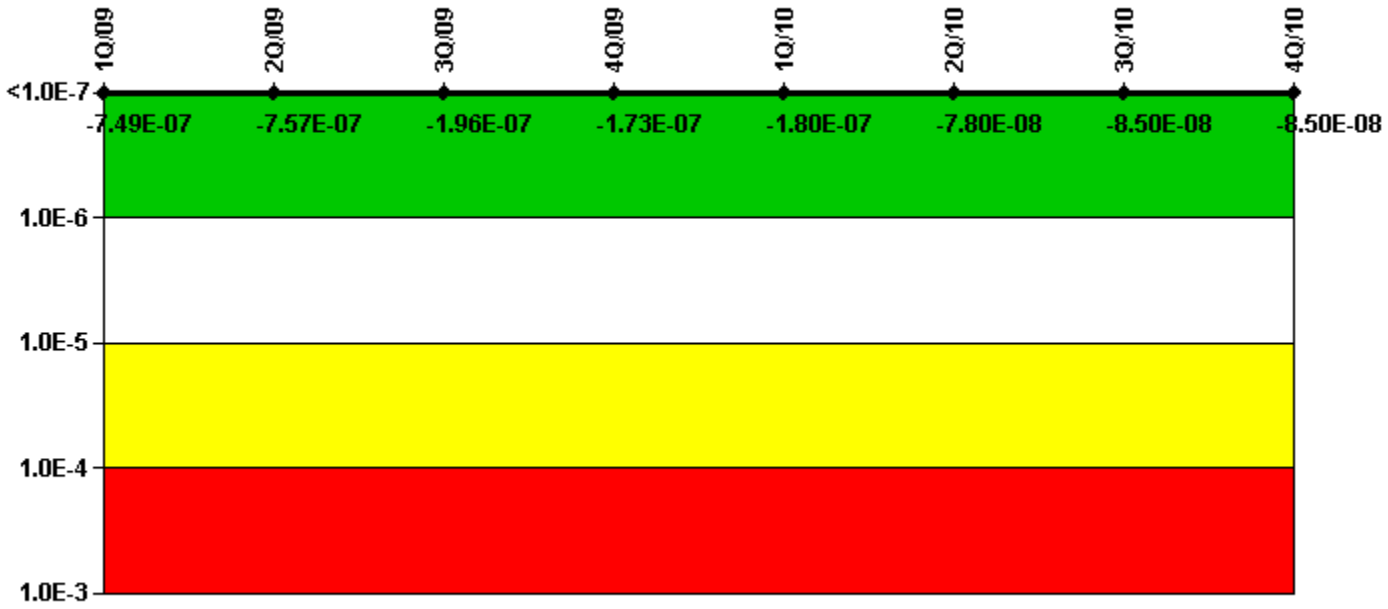
Thresholds: White > 5.0

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	0	1	0	0	0	0	0
Indicator value	**0**	**0**	**1**	**1**	**1**	**1**	**0**	**0**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



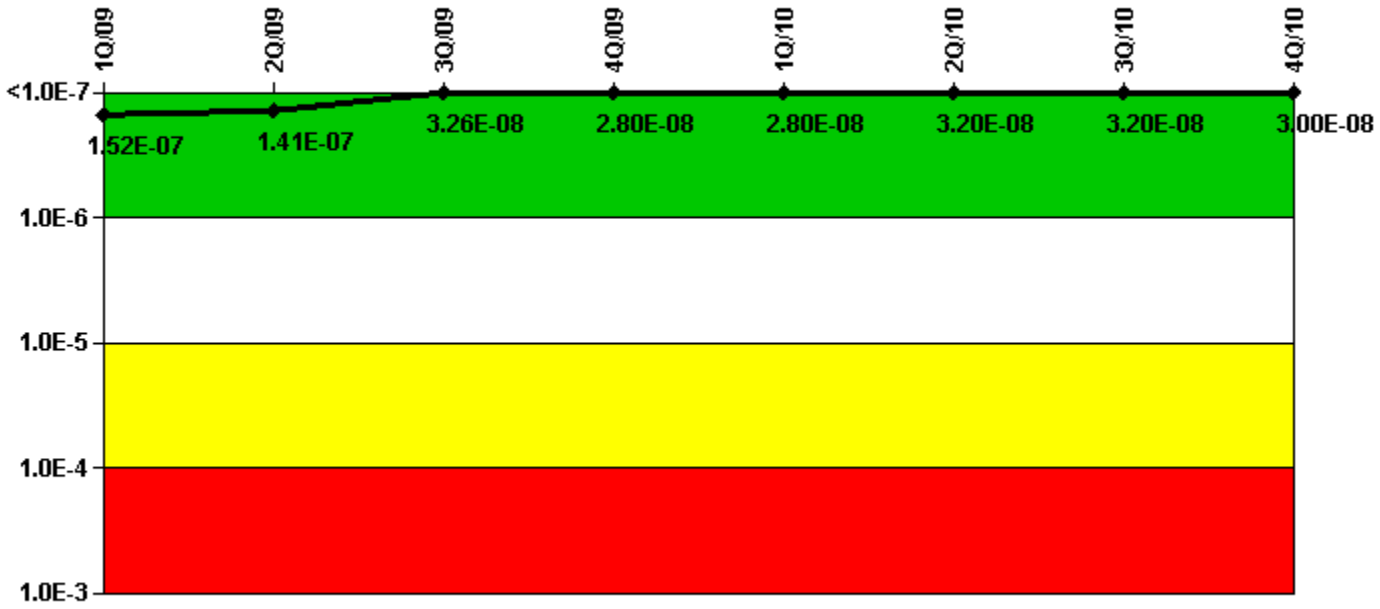
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	3.10E-08	2.30E-08	3.80E-09	7.00E-09	6.61E-09	2.68E-08	1.43E-08	1.50E-08
URI (ΔCDF)	-7.80E-07	-7.80E-07	-2.00E-07	-1.80E-07	-1.88E-07	-1.05E-07	-9.95E-08	-1.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.49E-07**	**-7.57E-07**	**-1.96E-07**	**-1.73E-07**	**-1.80E-07**	**-7.80E-08**	**-8.50E-08**	**-8.50E-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/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	1.20E-08	1.10E-08	2.60E-09	-4.60E-11	5.19E-11	4.06E-09	3.92E-09	3.92E-09
URI (ΔCDF)	1.40E-07	1.30E-07	3.00E-08	2.80E-08	2.78E-08	2.80E-08	2.82E-08	2.58E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.52E-07**	**1.41E-07**	**3.26E-08**	**2.80E-08**	**2.80E-08**	**3.20E-08**	**3.20E-08**	**3.00E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

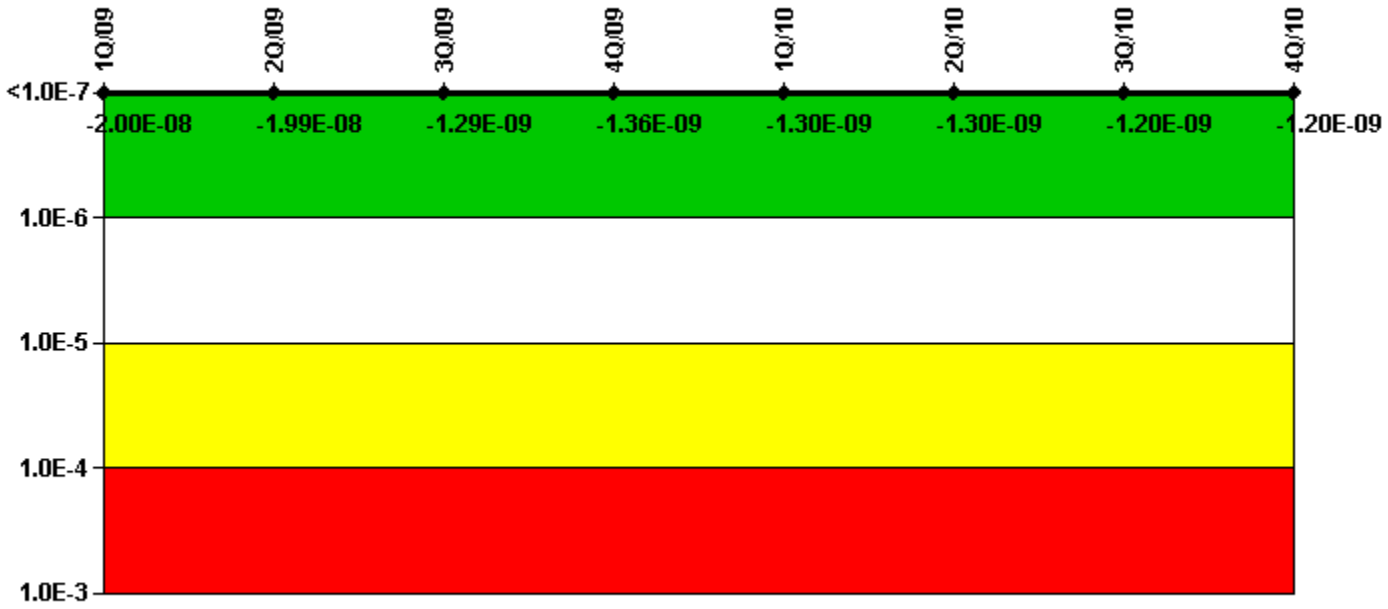
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (ΔCDF)	-3.10E-08	-2.80E-08	-3.80E-09	-3.60E-09	-3.59E-09	-3.39E-09	-3.43E-09	-3.56E-09
URI (ΔCDF)	-1.20E-07	-1.30E-07	-1.90E-08	-1.70E-08	-1.59E-08	-1.59E-08	-1.59E-08	-1.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.51E-07**	**-1.58E-07**	**-2.28E-08**	**-2.06E-08**	**-1.90E-08**	**-1.90E-08**	**-1.90E-08**	**-1.90E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



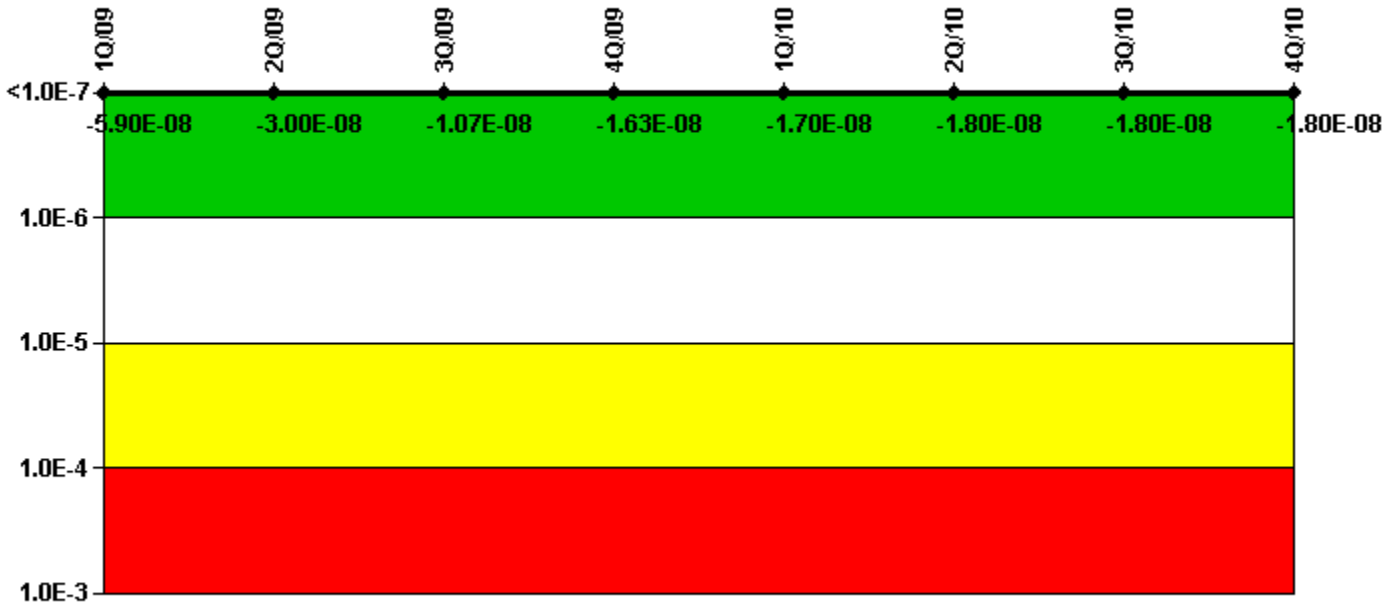
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-5.00E-09	-4.90E-09	-2.90E-10	-2.60E-10	-2.58E-10	-2.52E-10	-1.94E-10	-1.79E-10
URI (ΔCDF)	-1.50E-08	-1.50E-08	-1.00E-09	-1.10E-09	-1.04E-09	-1.04E-09	-1.04E-09	-1.06E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-08**	**-1.99E-08**	**-1.29E-09**	**-1.36E-09**	**-1.30E-09**	**-1.30E-09**	**-1.20E-09**	**-1.20E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



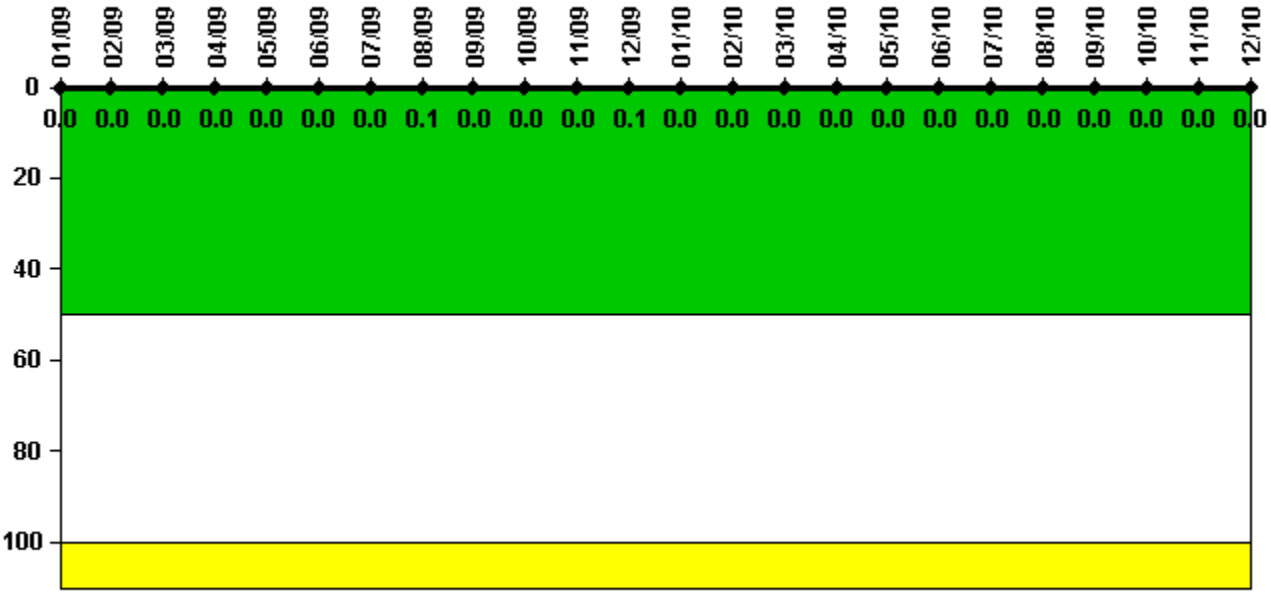
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (ΔCDF)	9.10E-08	1.20E-07	9.30E-09	3.70E-09	3.43E-09	3.24E-09	3.50E-09	3.57E-09
URI (ΔCDF)	-1.50E-07	-1.50E-07	-2.00E-08	-2.00E-08	-1.99E-08	-2.09E-08	-2.13E-08	-2.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.90E-08**	**-3.00E-08**	**-1.07E-08**	**-1.63E-08**	**-1.70E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**

Licensee Comments: none

Reactor Coolant System Activity



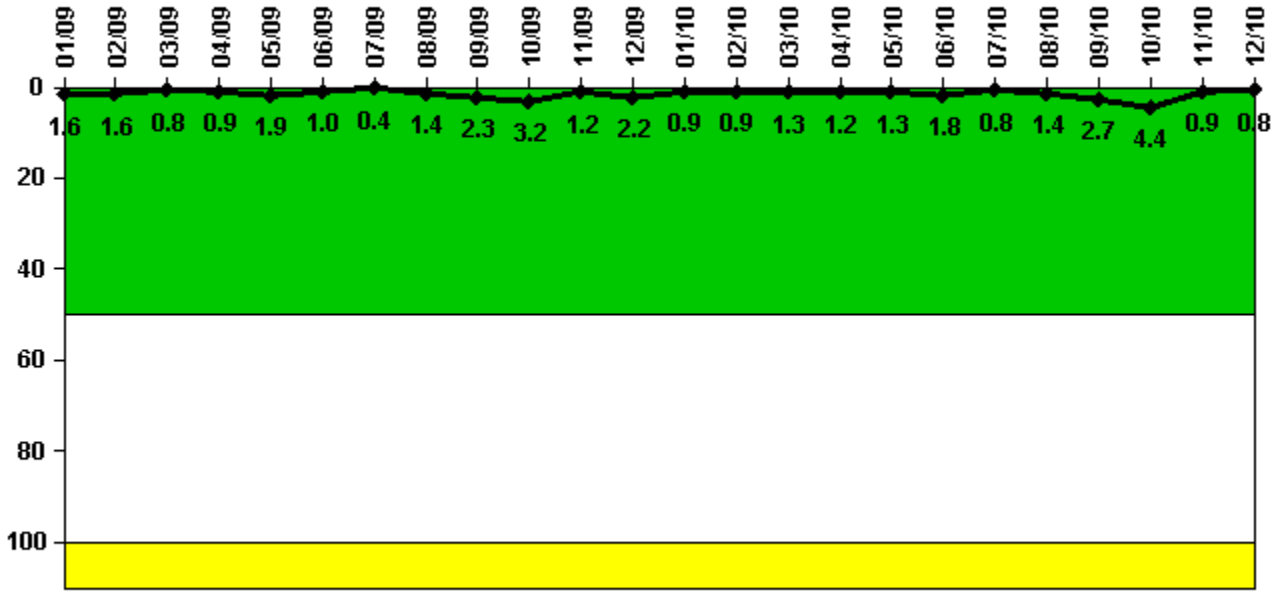
Thresholds: White > 50.0 Yellow > 100.0

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	0.000237	0.000229	0.000239	0.000256	0.000234	0.000237	0.000327	0.000572	0.000318	0.000279	0.000037	0.000664
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**	**0.1**	**0**	**0**	**0**	**0.1**
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	0.000161	0.000185	0.000263	0.000236	0.000248	0.000204	0.000375	0.000316	0.000209	0.000270	0.000219	0.000250
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



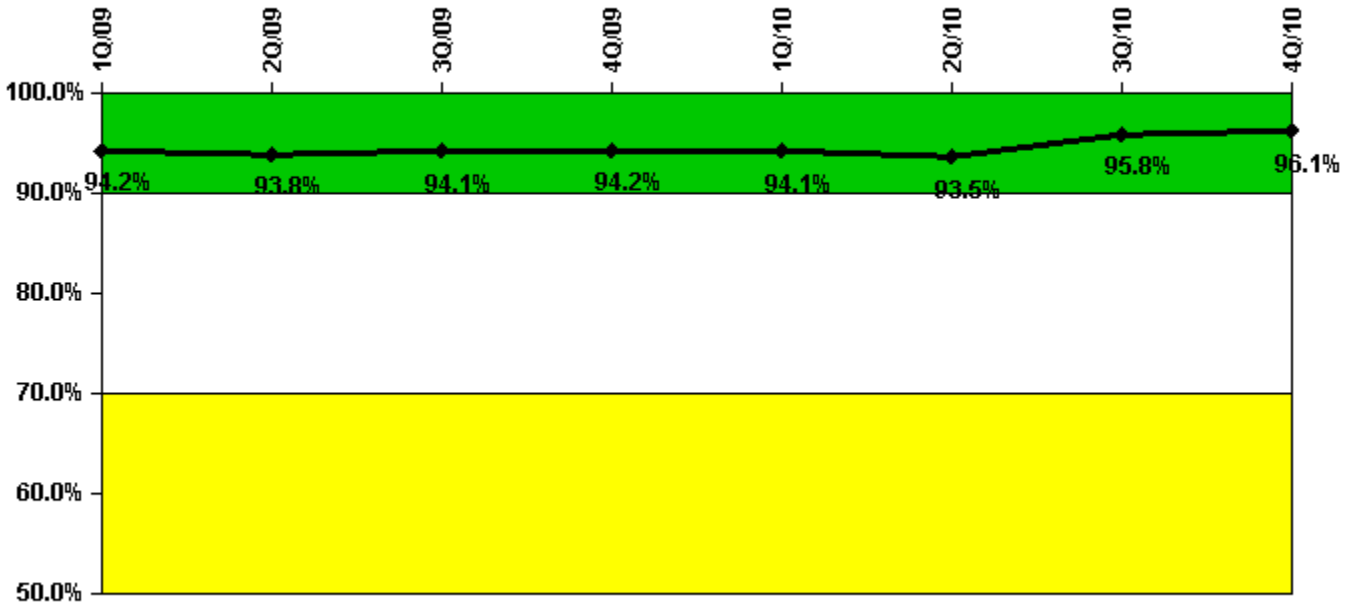
Thresholds: White > 50.0 Yellow > 100.0

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	0.160	0.160	0.080	0.090	0.190	0.100	0.040	0.140	0.230	0.320	0.120	0.220
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	**1.6**	**1.6**	**0.8**	**0.9**	**1.9**	**1.0**	**0.4**	**1.4**	**2.3**	**3.2**	**1.2**	**2.2**
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	0.090	0.090	0.130	0.120	0.130	0.180	0.080	0.140	0.270	0.440	0.090	0.080
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**	**0.9**	**1.3**	**1.2**	**1.3**	**1.8**	**0.8**	**1.4**	**2.7**	**4.4**	**0.9**	**0.8**

Licensee Comments: none

Drill/Exercise Performance

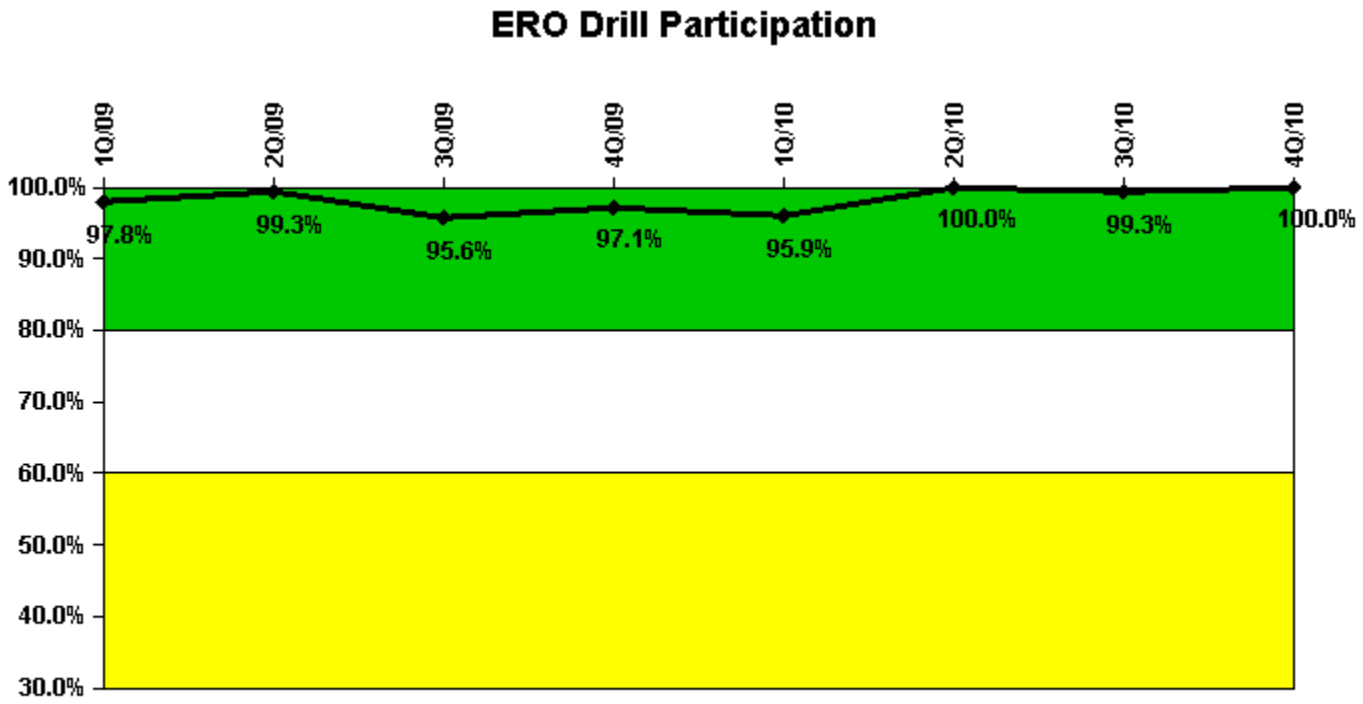


Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	36.0	36.0	20.0	26.0	38.0	33.0	41.0	15.0
Total opportunities	38.0	39.0	21.0	26.0	40.0	35.0	41.0	15.0
Indicator value	**94.2%**	**93.8%**	**94.1%**	**94.2%**	**94.1%**	**93.5%**	**95.8%**	**96.1%**

Licensee Comments: none



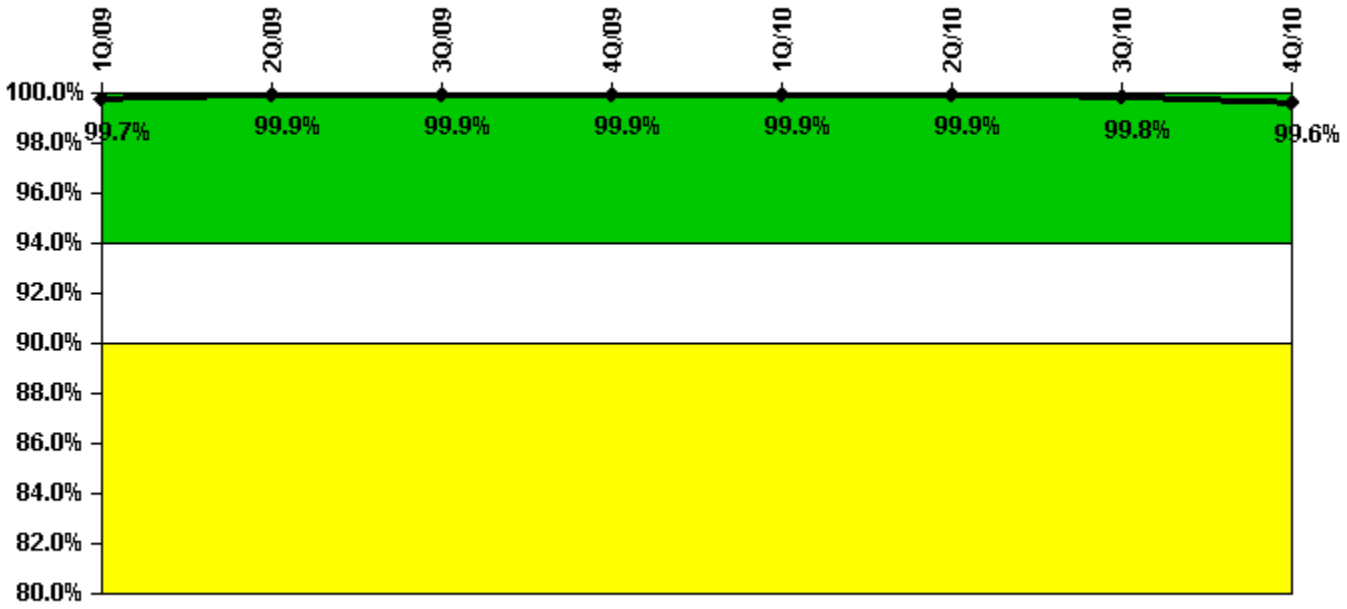
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	133.0	136.0	130.0	135.0	142.0	145.0	143.0	128.0
Total Key personnel	136.0	137.0	136.0	139.0	148.0	145.0	144.0	128.0
Indicator value	**97.8%**	**99.3%**	**95.6%**	**97.1%**	**95.9%**	**100.0%**	**99.3%**	**100.0%**

Licensee Comments: none

Alert & Notification System



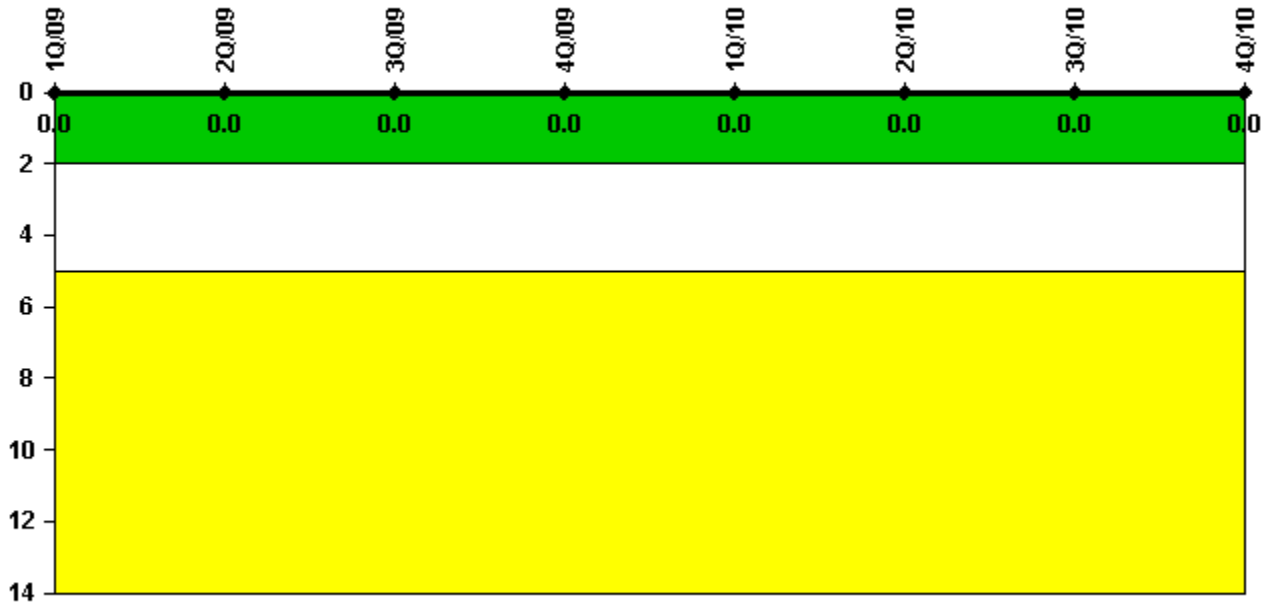
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	476	475	543	544	476	542	473	540
Total sirens-tests	476	476	544	544	476	544	476	544
Indicator value	**99.7%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness



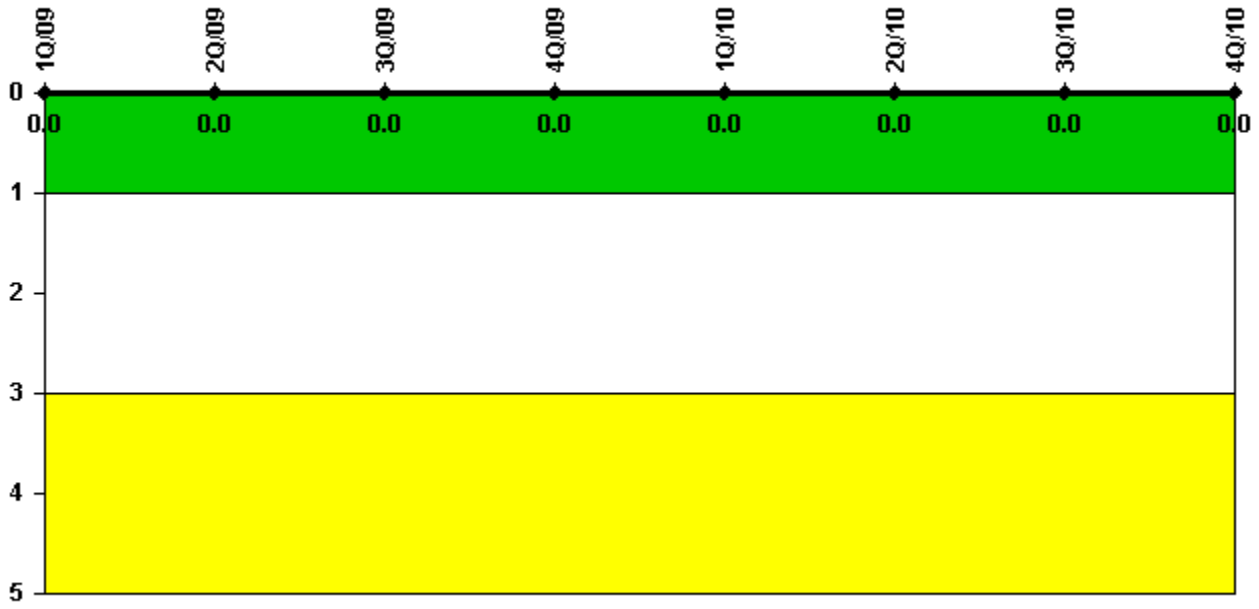
Thresholds: White > 2.0 Yellow > 5.0

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.

Last Modified: January 24, 2011