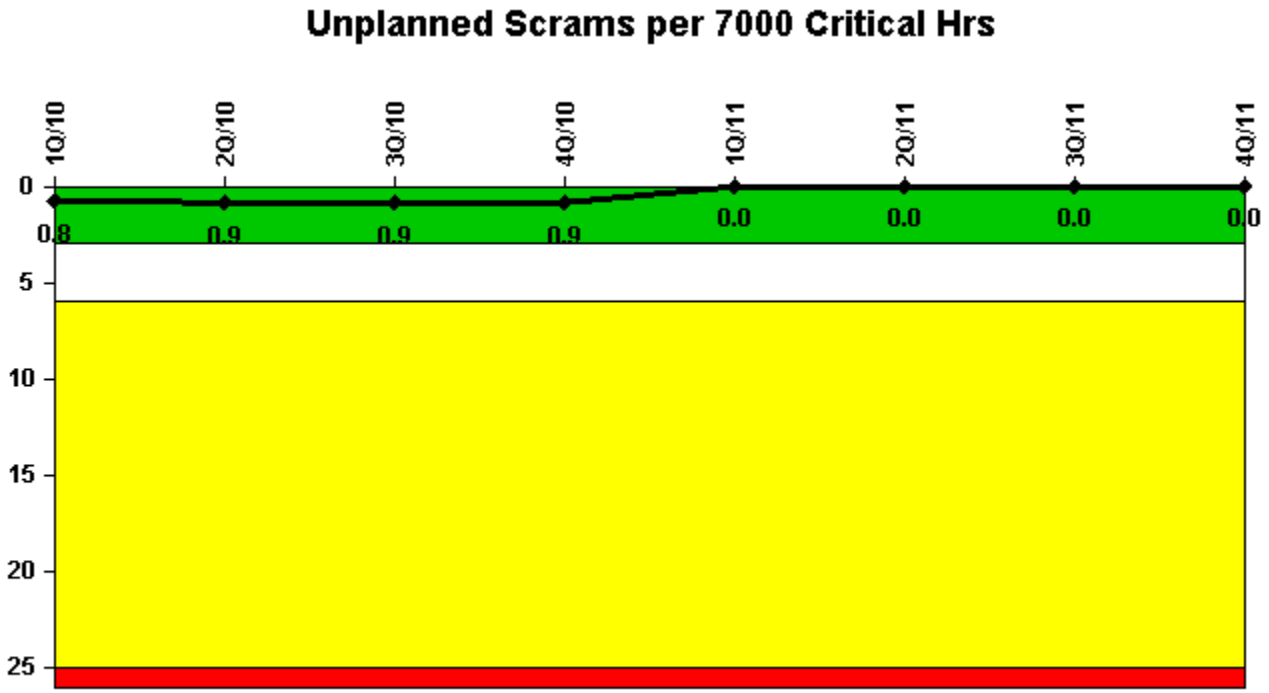
Grand Gulf 1

4Q/2011 Performance Indicators

Licensee's General Comments: none



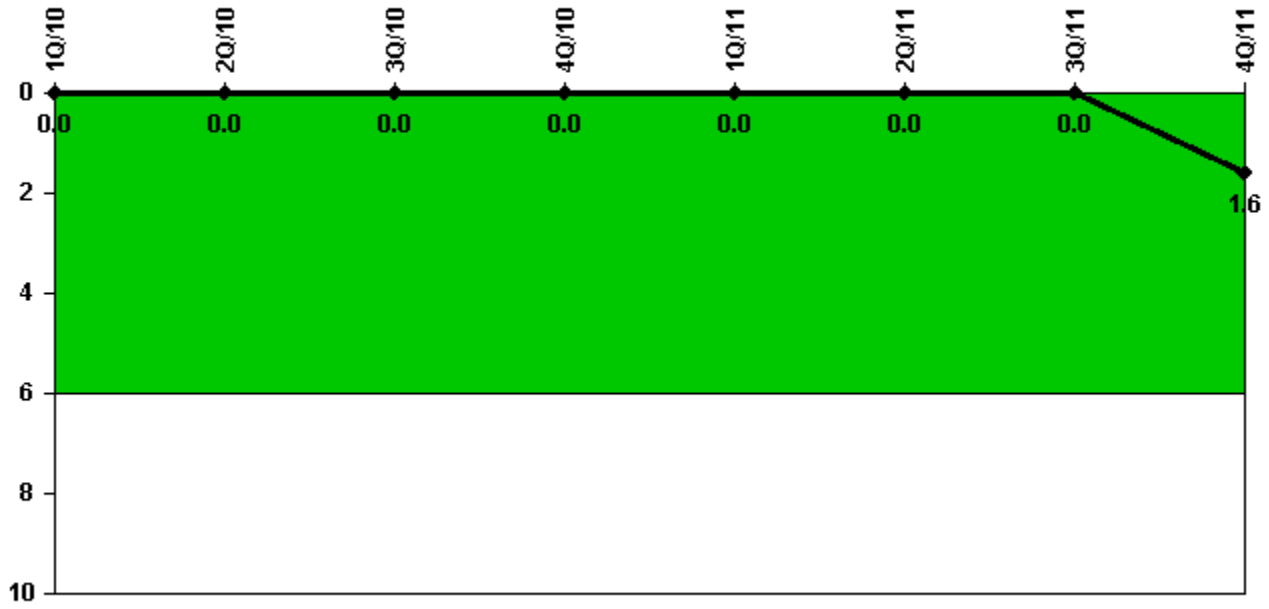
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2094.0	1506.9	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0
Indicator value	**0.8**	**0.9**	**0.9**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

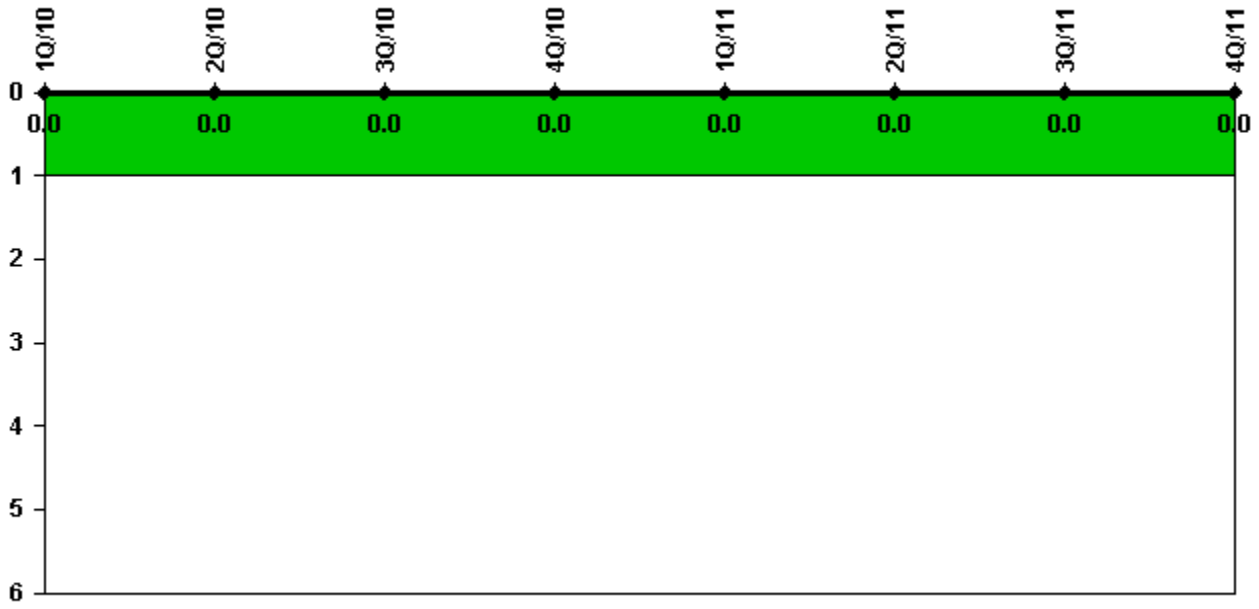
Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	0	0	0	0	0	0	0	2.0
Critical hours	2094.0	1506.9	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1.6**

Licensee Comments:

4Q/11: Two unplanned Downpowers >20% in November: Feed pump trip and Partial PSW Loss.

Unplanned Scrams with Complications



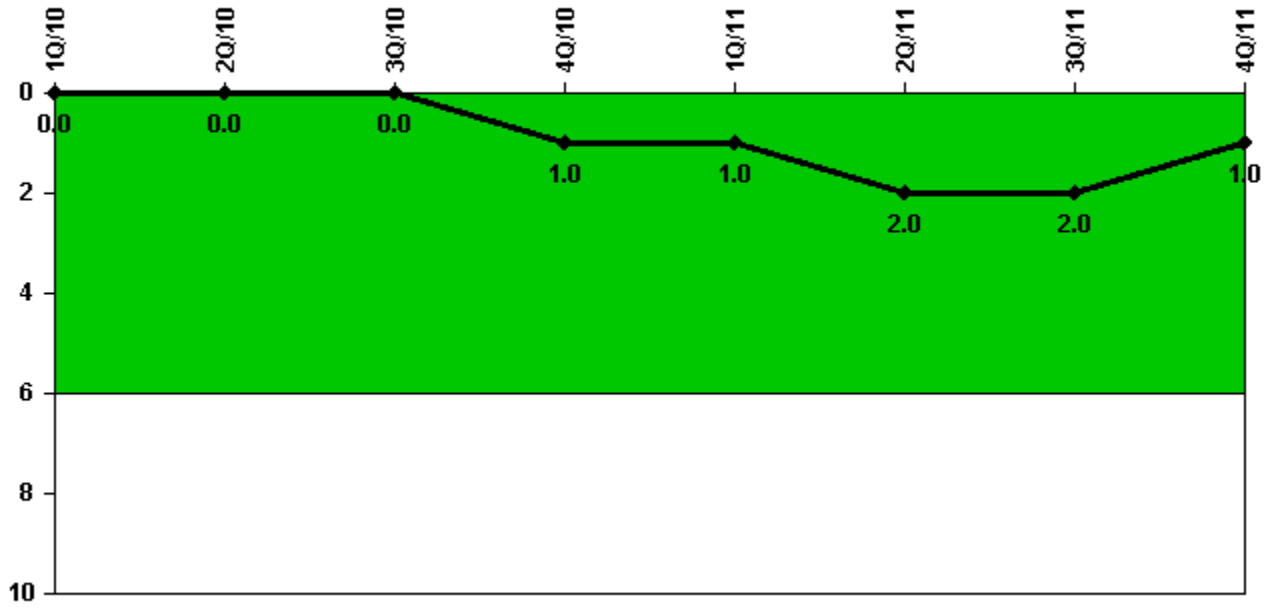
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
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 (BWR)



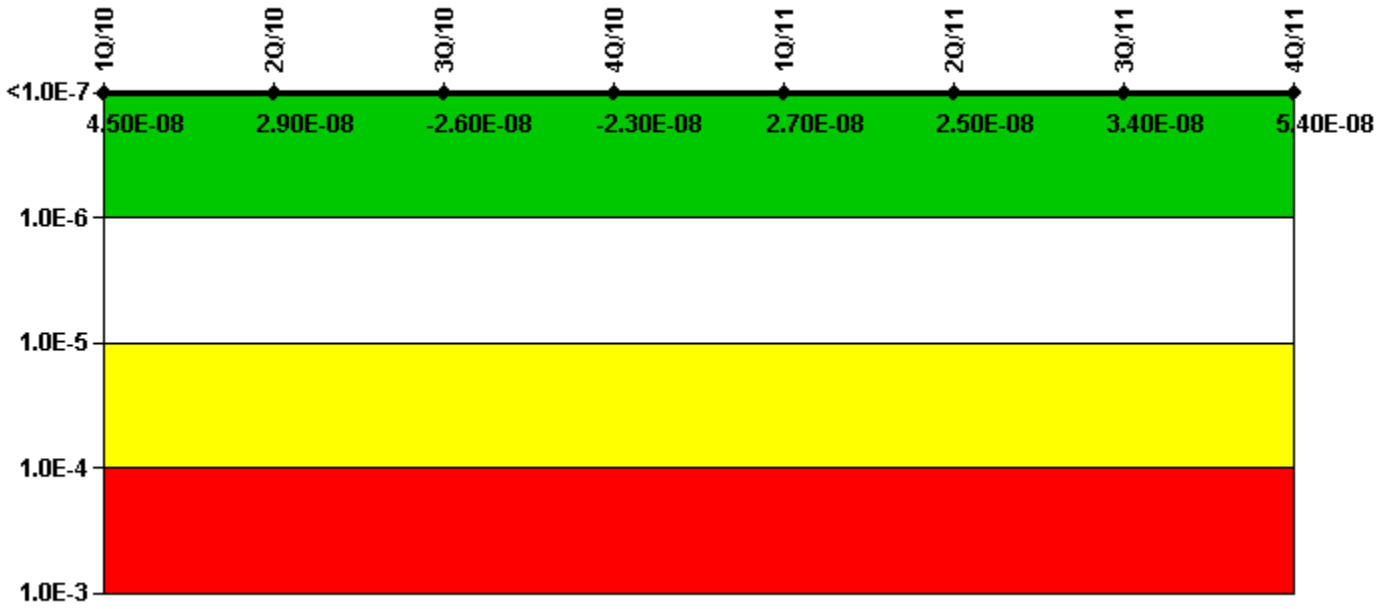
Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Safety System Functional Failures	0	0	0	1	0	1	0	0
Indicator value	**0**	**0**	**0**	**1**	**1**	**2**	**2**	**1**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



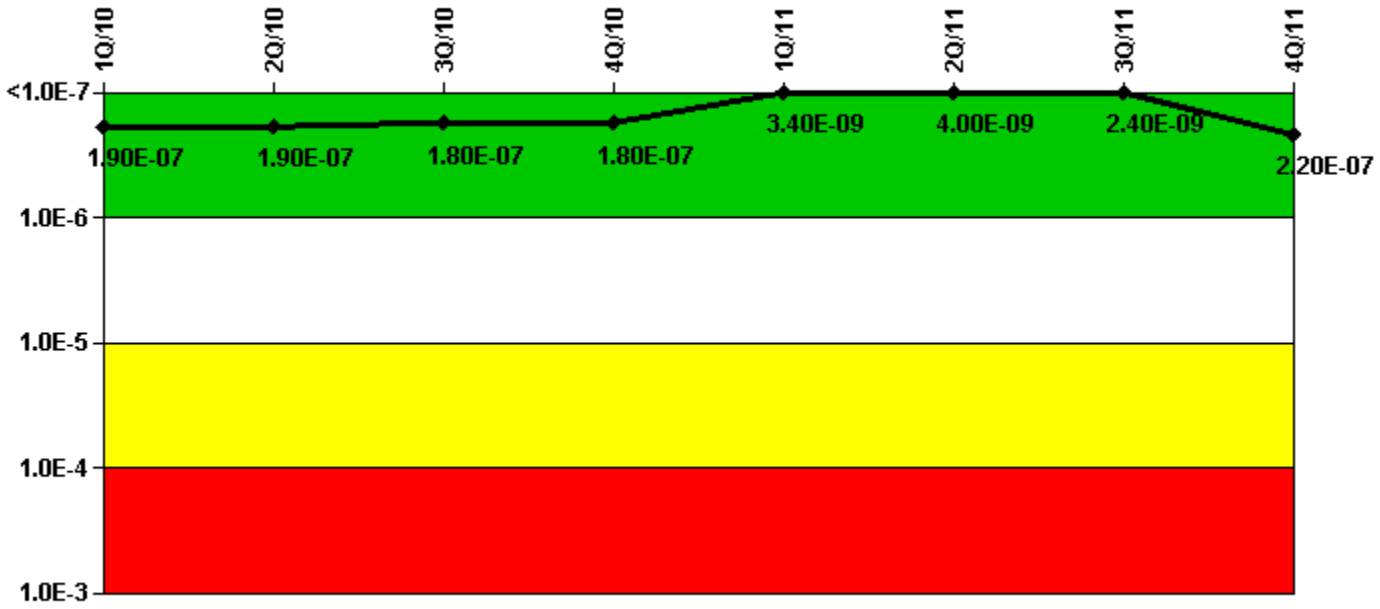
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	1.36E-08	5.46E-10	-4.41E-09	-4.44E-09	5.68E-09	5.64E-09	4.70E-09	6.70E-09
URI (ΔCDF)	3.13E-08	2.85E-08	-2.20E-08	-1.87E-08	2.17E-08	1.97E-08	2.91E-08	4.76E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.50E-08**	**2.90E-08**	**-2.60E-08**	**-2.30E-08**	**2.70E-08**	**2.50E-08**	**3.40E-08**	**5.40E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



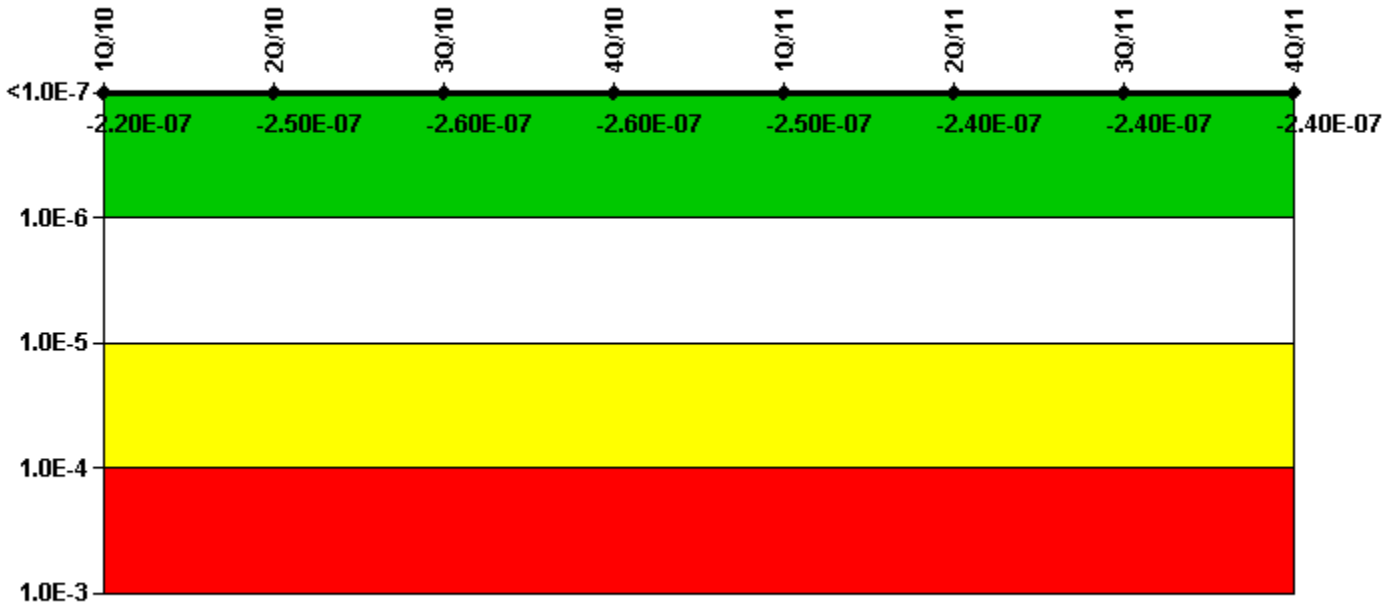
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	2.47E-07	2.40E-07	2.30E-07	2.30E-07	1.89E-08	1.46E-08	1.36E-08	2.39E-07
URI (ΔCDF)	-5.67E-08	-5.33E-08	-5.34E-08	-5.36E-08	-1.55E-08	-1.06E-08	-1.12E-08	-1.73E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.90E-07**	**1.90E-07**	**1.80E-07**	**1.80E-07**	**3.40E-09**	**4.00E-09**	**2.40E-09**	**2.20E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



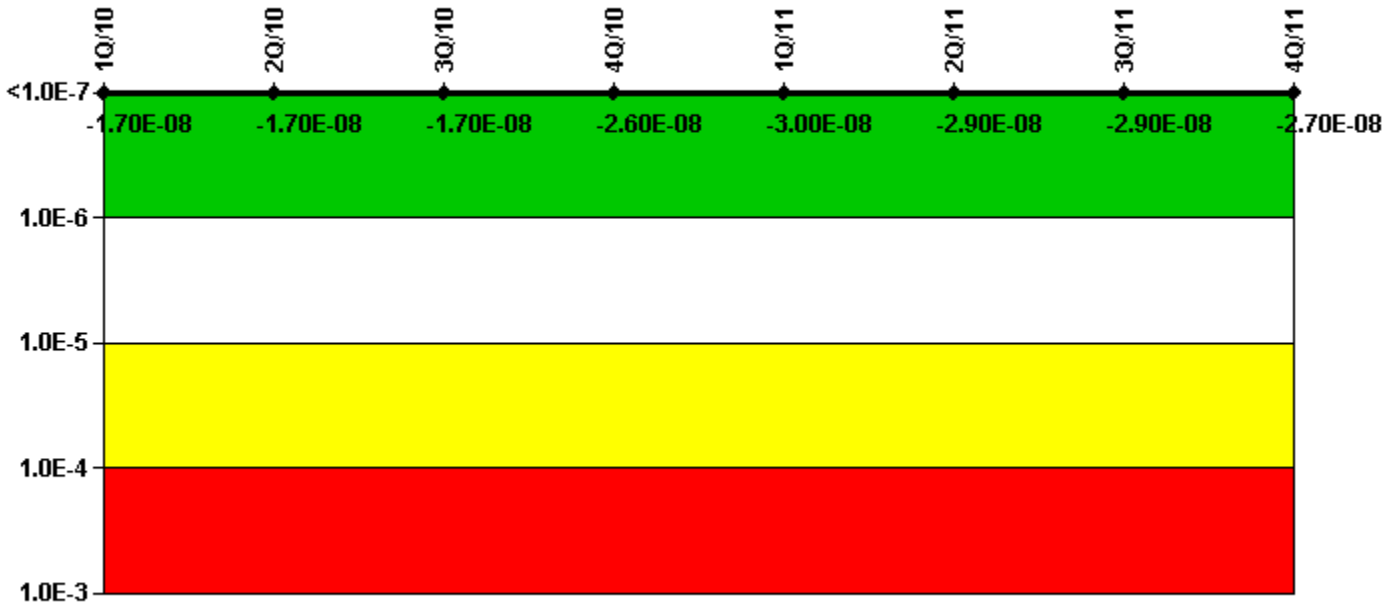
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	-1.99E-08	-5.30E-08	-5.31E-08	-5.31E-08	-5.32E-08	-5.32E-08	-5.33E-08	-6.20E-08
URI (ΔCDF)	-2.00E-07	-2.01E-07	-2.07E-07	-2.03E-07	-2.00E-07	-1.92E-07	-1.86E-07	-1.77E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.20E-07**	**-2.50E-07**	**-2.60E-07**	**-2.60E-07**	**-2.50E-07**	**-2.40E-07**	**-2.40E-07**	**-2.40E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



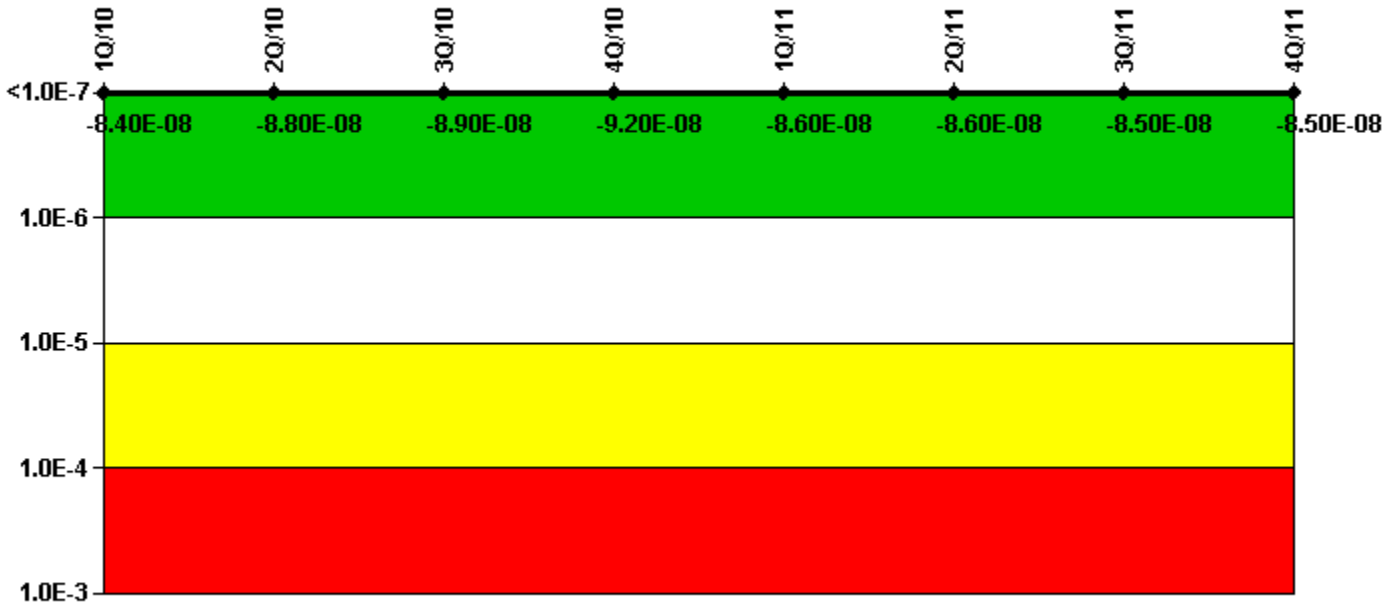
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	4.20E-09	4.99E-09	4.54E-09	-4.65E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09
URI (ΔCDF)	-2.14E-08	-2.21E-08	-2.17E-08	-2.12E-08	-2.11E-08	-2.08E-08	-1.99E-08	-1.83E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-08**	**-1.70E-08**	**-1.70E-08**	**-2.60E-08**	**-3.00E-08**	**-2.90E-08**	**-2.90E-08**	**-2.70E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



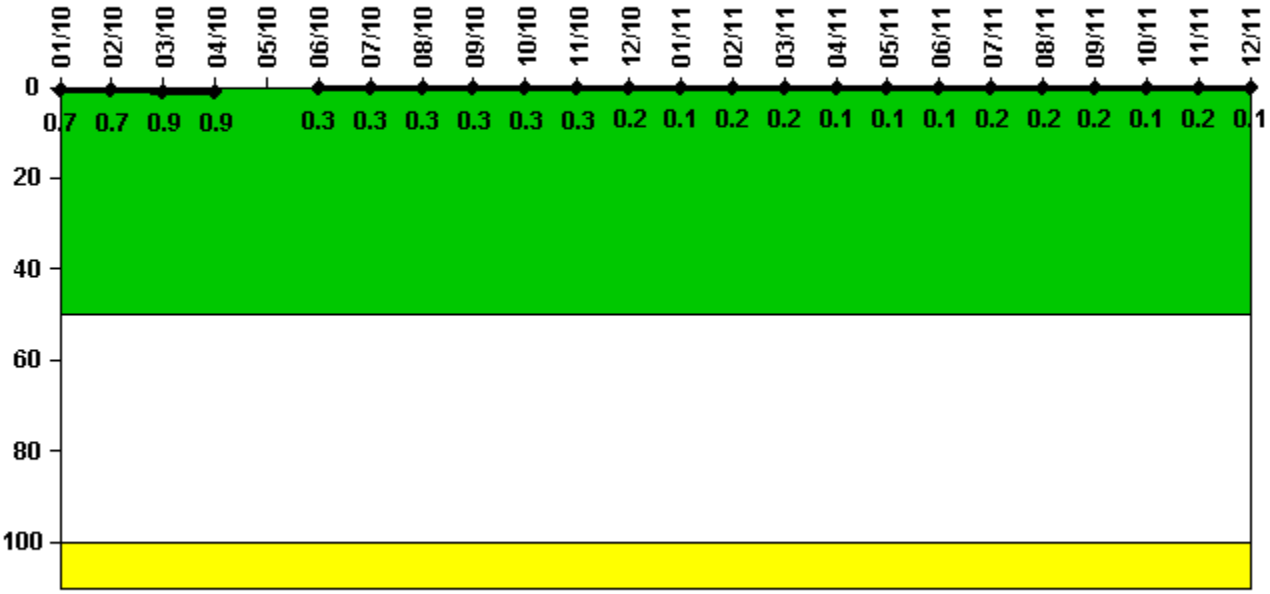
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	5.65E-09	2.33E-09	1.93E-09	-1.71E-09	5.19E-09	5.19E-09	4.92E-09	4.27E-09
URI (ΔCDF)	-8.99E-08	-9.06E-08	-9.05E-08	-9.05E-08	-9.12E-08	-9.10E-08	-9.01E-08	-8.92E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.40E-08**	**-8.80E-08**	**-8.90E-08**	**-9.20E-08**	**-8.60E-08**	**-8.60E-08**	**-8.50E-08**	**-8.50E-08**

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

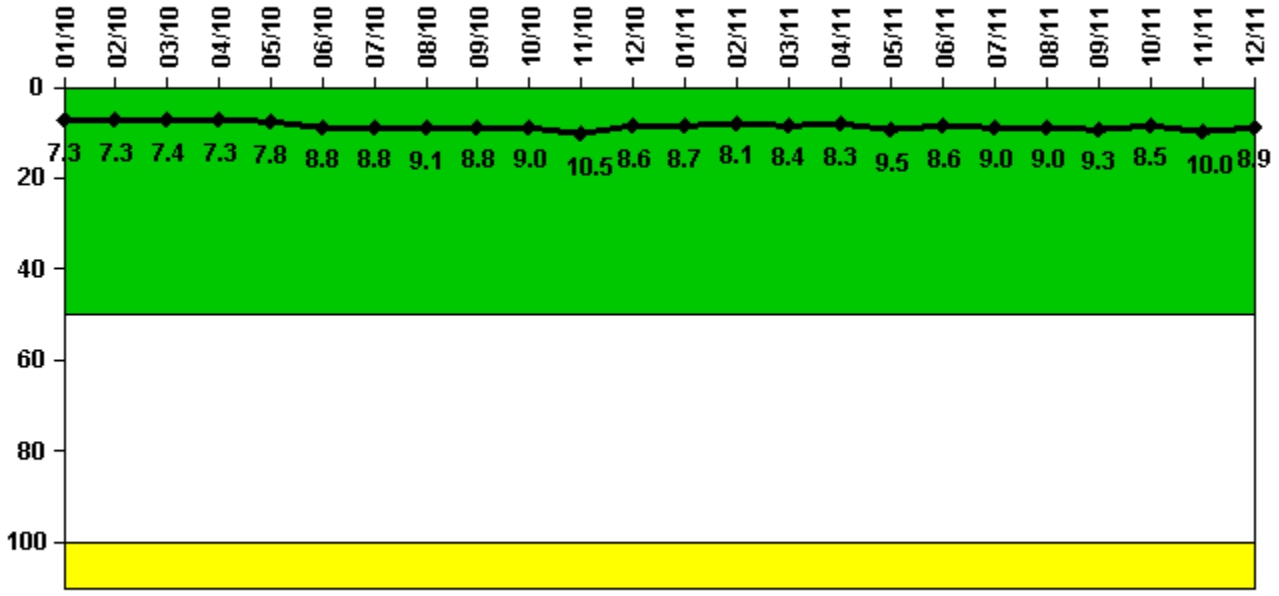
Notes

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	0.001440	0.001440	0.001710	0.001850	N/A	0.000524	0.000565	0.000572	0.000555	0.000548	0.000532	0.000336
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	**0.7**	**0.7**	**0.9**	**0.9**	**N/A**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**

Reactor Coolant System Activity	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum activity	0.000290	0.000330	0.000328	0.000262	0.000247	0.000257	0.000465	0.000372	0.000326	0.000284	0.000327	0.000254
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	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.1**	**0.2**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage



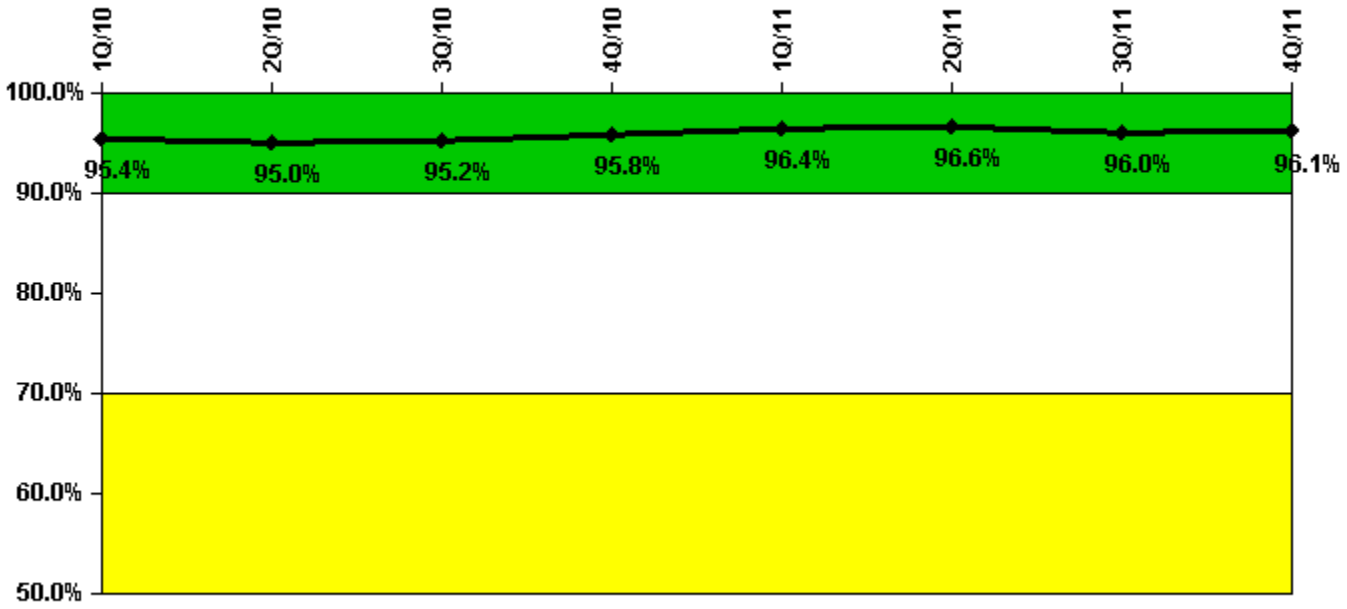
Thresholds: White > 50.0 Yellow > 100.0

Notes

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	2.190	2.180	2.210	2.190	2.340	2.650	2.650	2.720	2.640	2.710	3.140	2.590
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	**7.3**	**7.3**	**7.4**	**7.3**	**7.8**	**8.8**	**8.8**	**9.1**	**8.8**	**9.0**	**10.5**	**8.6**
Reactor Coolant System Leakage	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**
Maximum leakage	2.600	2.420	2.510	2.500	2.850	2.570	2.690	2.700	2.780	2.560	3.000	2.680
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	**8.7**	**8.1**	**8.4**	**8.3**	**9.5**	**8.6**	**9.0**	**9.0**	**9.3**	**8.5**	**10.0**	**8.9**

Licensee Comments: none

Drill/Exercise Performance



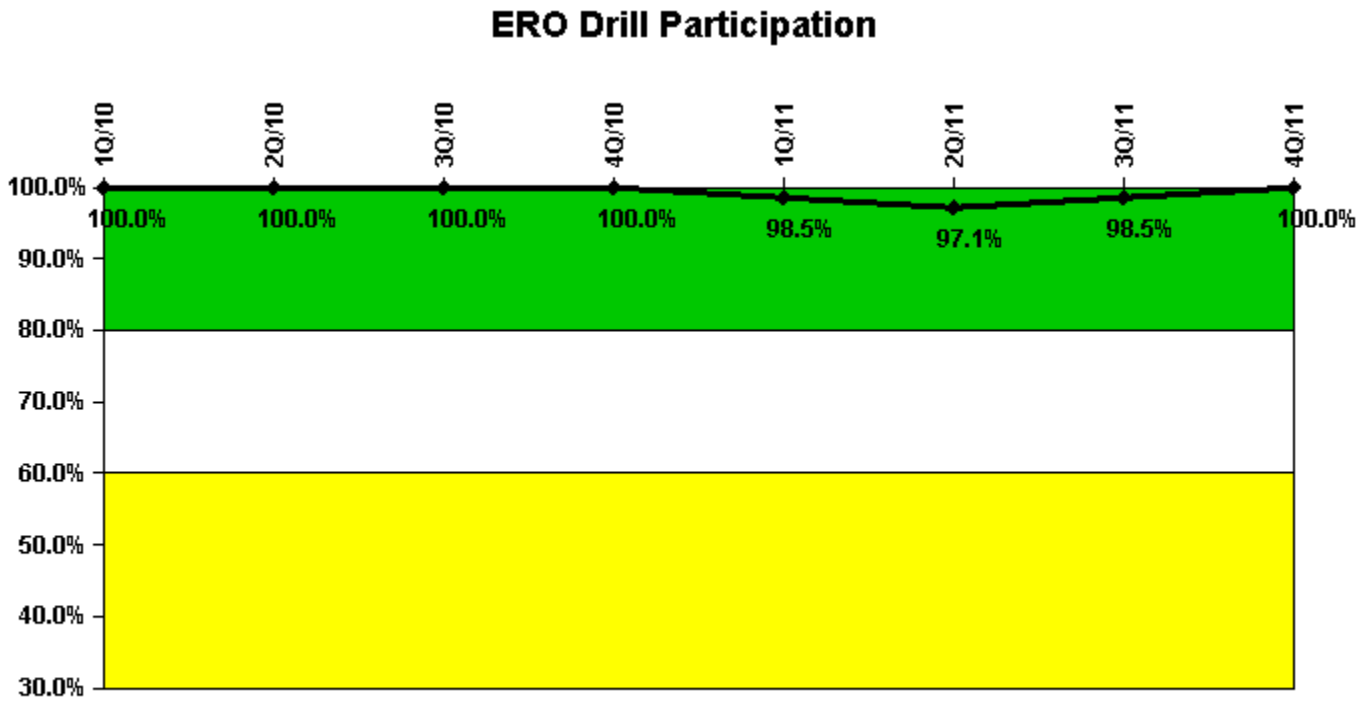
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful opportunities	10.0	24.0	34.0	22.0	28.0	29.0	28.0	47.0
Total opportunities	12.0	25.0	35.0	23.0	28.0	29.0	31.0	48.0
Indicator value	**95.4%**	**95.0%**	**95.2%**	**95.8%**	**96.4%**	**96.6%**	**96.0%**	**96.1%**

Licensee Comments:

3Q/10: August DEP changed from 16 of 17 to 9 of 9. - CR-GGN-2011-08346. Color of indicator not affected.



Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	64.0	65.0	65.0	64.0	67.0	68.0	67.0	70.0
Total Key personnel	64.0	65.0	65.0	64.0	68.0	70.0	68.0	70.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.5%**	**97.1%**	**98.5%**	**100.0%**

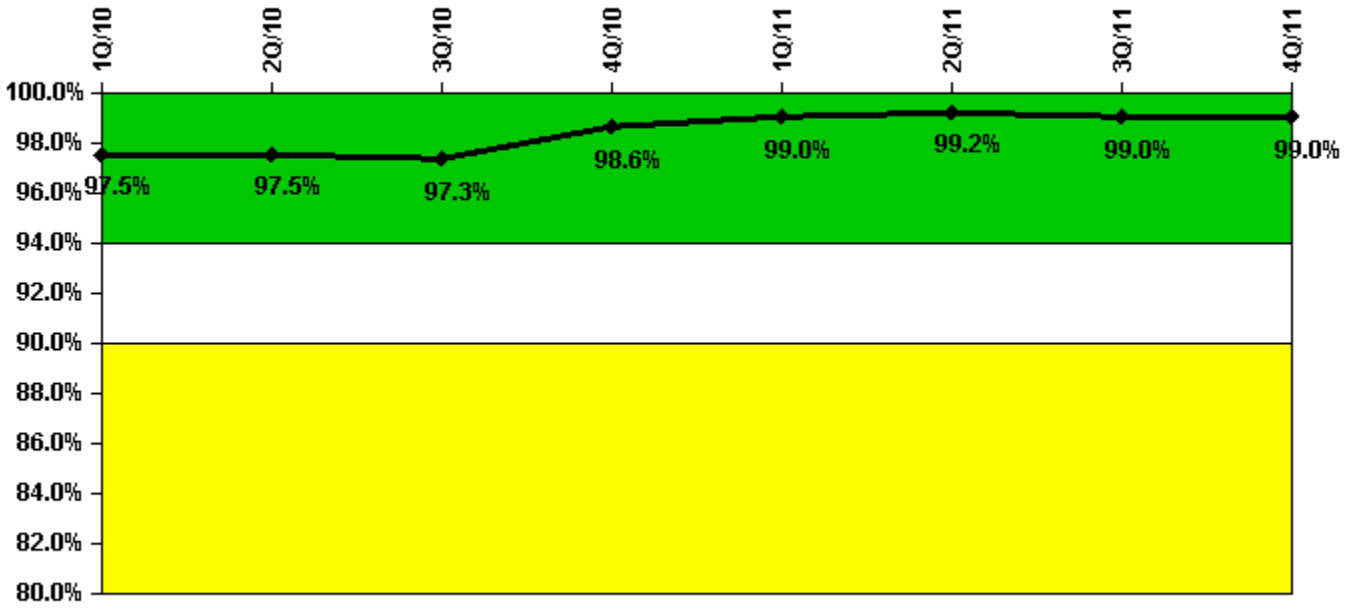
Licensee Comments:

3Q/11: Participating key personnel revised from 68 to 67 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

2Q/11: Participating key personnel revised from 70 to 68 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

1Q/11: Participating key personnel revised from 68 to 67 in March for this quarterly indicator - CR-GGN-2011-08346. No change in indicator color.

Alert & Notification System



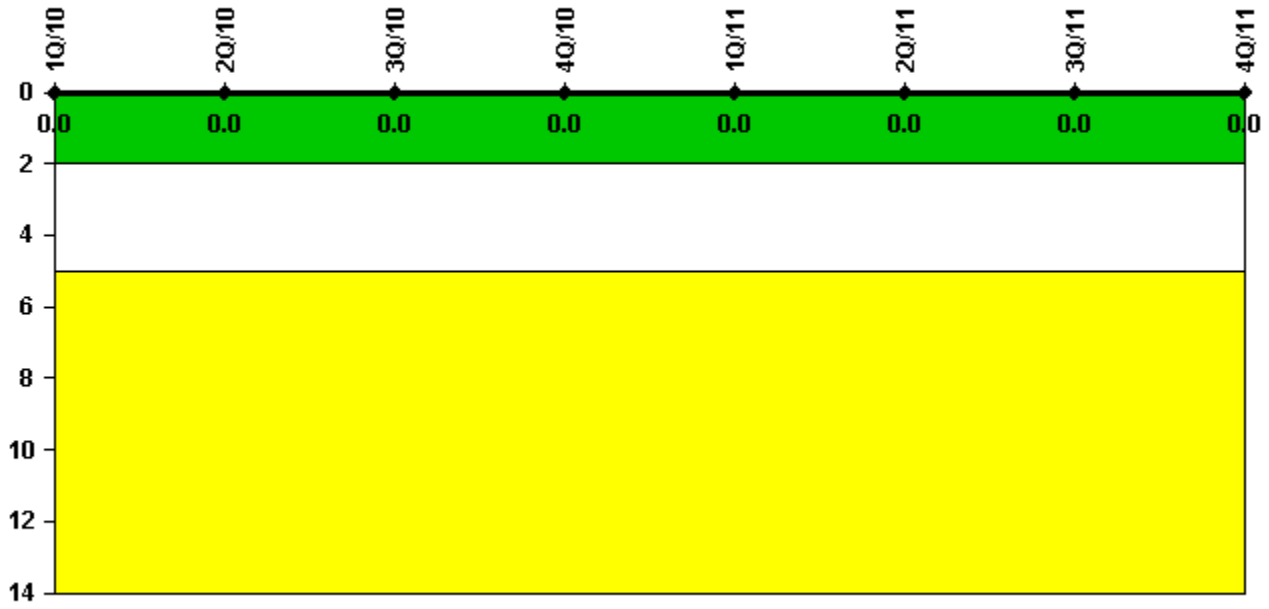
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful siren-tests	127	126	126	129	129	121	122	129
Total sirens-tests	129	128	129	129	129	122	126	129
Indicator value	**97.5%**	**97.5%**	**97.3%**	**98.6%**	**99.0%**	**99.2%**	**99.0%**	**99.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness



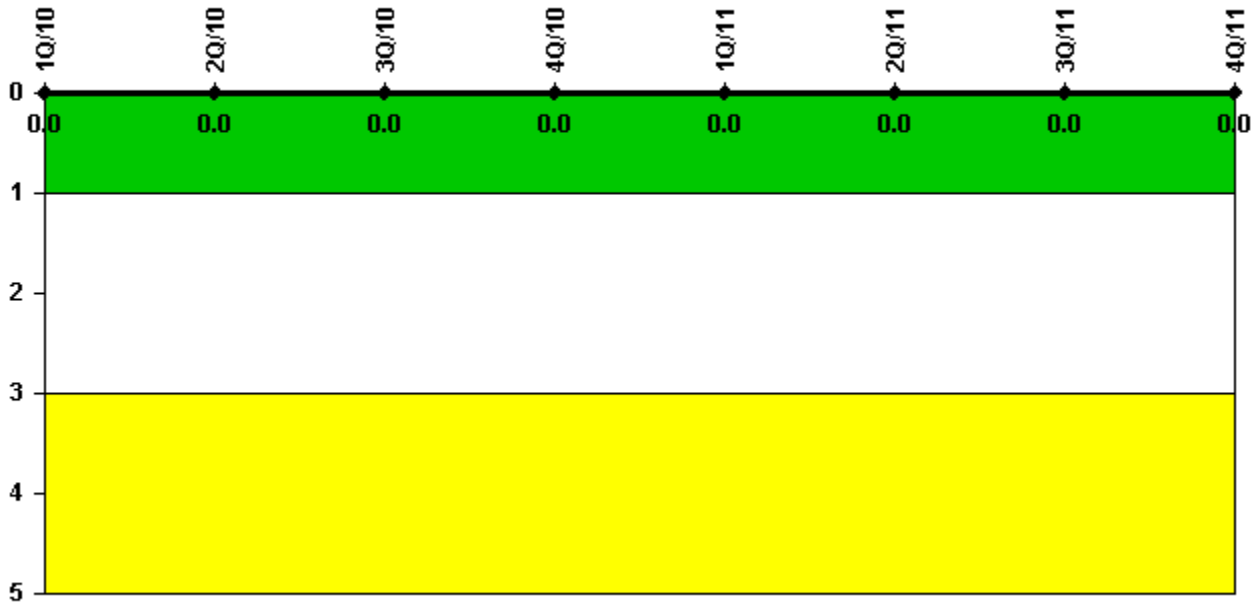
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
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/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
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: February 2, 2012