

River Bend 1

1Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



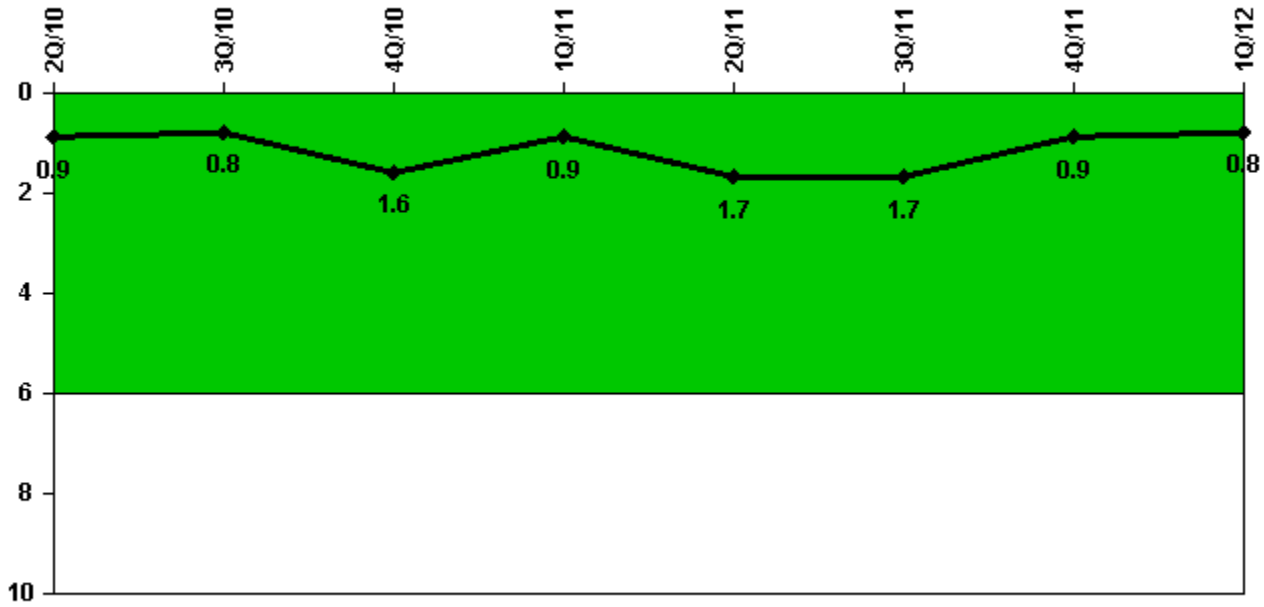
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2184.0	2111.5	2209.0	1508.6	2184.0	2208.0	2154.0	2183.0
Indicator value	0.9	0	0	0	0	0	0.9	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



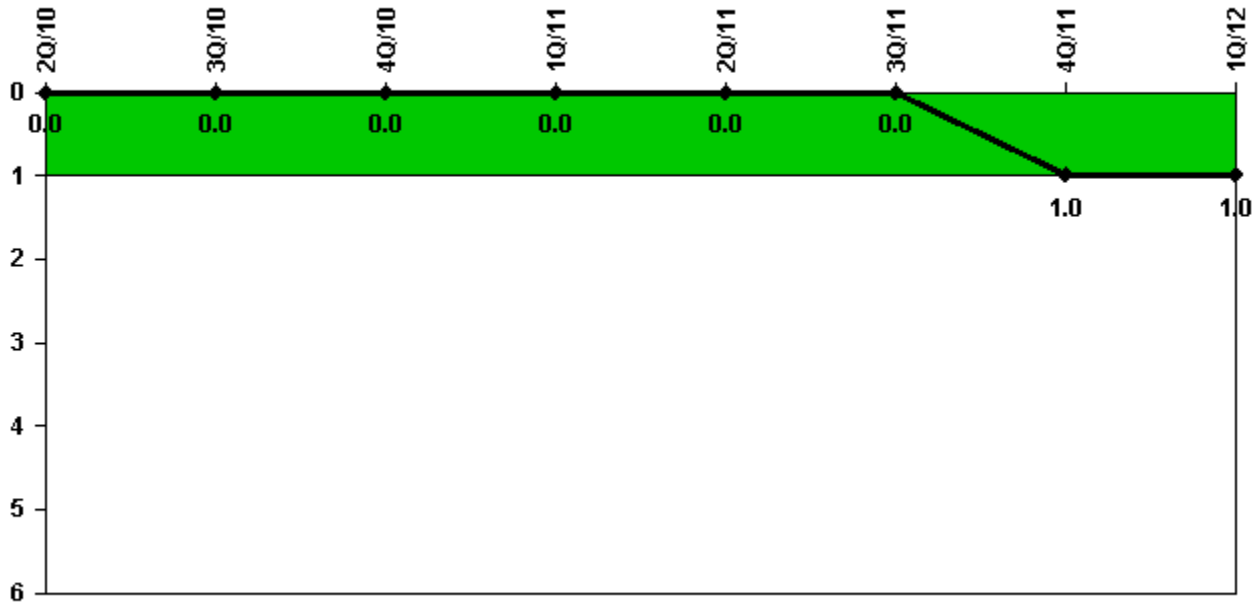
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	1.0	0	1.0	0	0	0
Critical hours	2184.0	2111.5	2209.0	1508.6	2184.0	2208.0	2154.0	2183.0
Indicator value	0.9	0.8	1.6	0.9	1.7	1.7	0.9	0.8

Licensee Comments: none

Unplanned Scrams with Complications



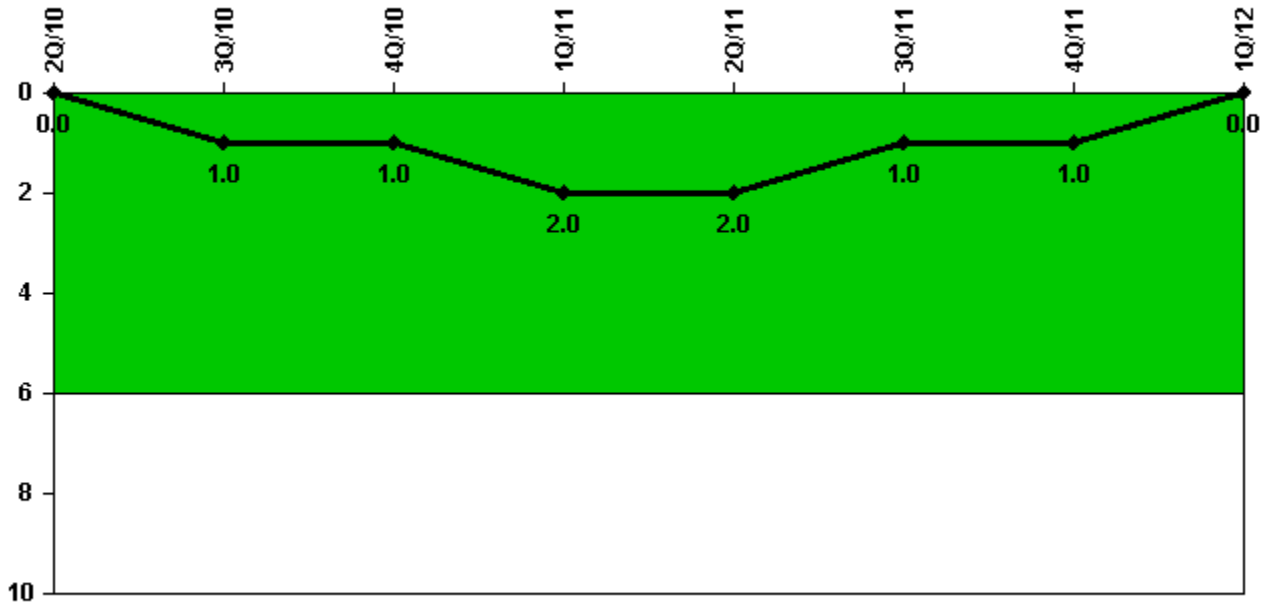
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Scrams with complications	0	0	0	0	0	0	1.0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (BWR)



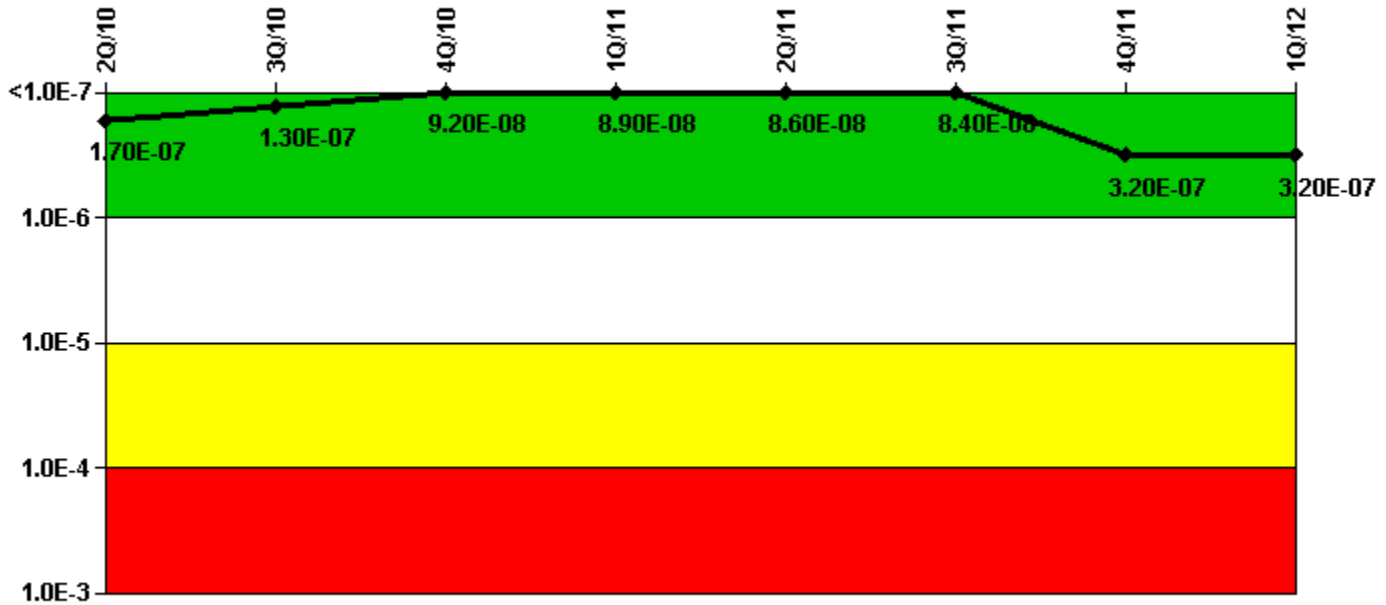
Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Safety System Functional Failures	0	1	0	1	0	0	0	0
Indicator value	0	1	1	2	2	1	1	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

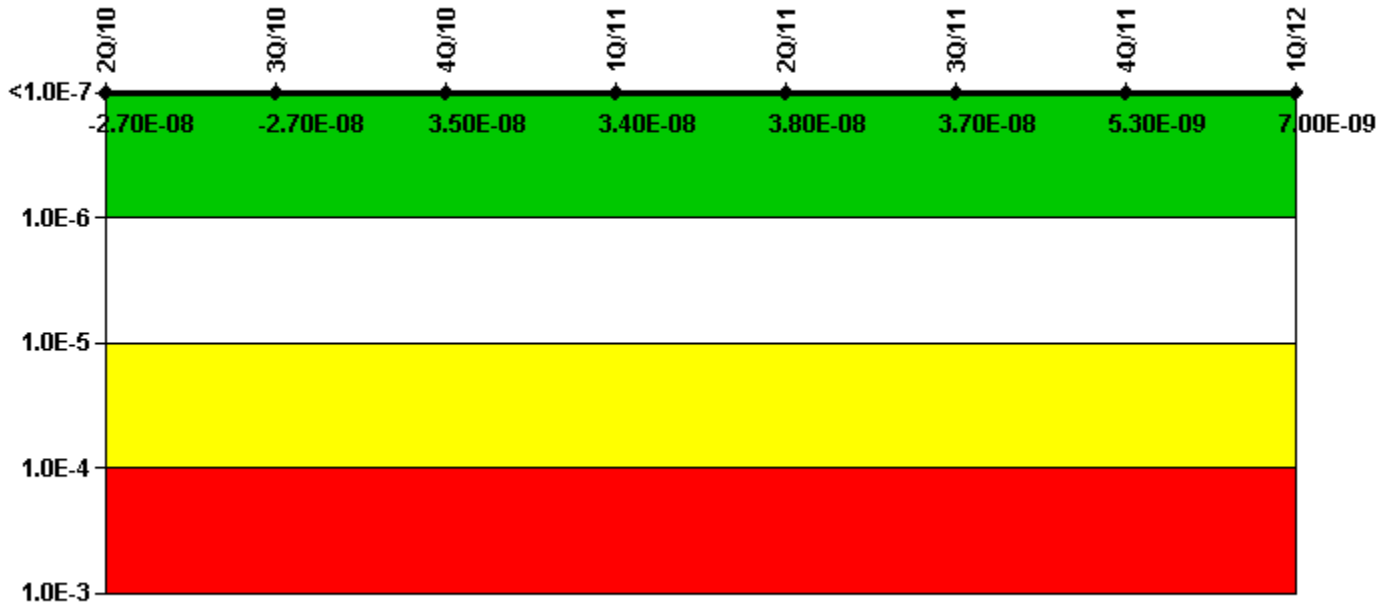
Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	1.10E-08	8.95E-09	2.43E-08	2.31E-08	1.85E-08	1.59E-08	1.53E-08	1.45E-08
URI (Δ CDF)	1.57E-07	1.22E-07	6.74E-08	6.63E-08	6.71E-08	6.78E-08	3.07E-07	3.08E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.70E-07	1.30E-07	9.20E-08	8.90E-08	8.60E-08	8.40E-08	3.20E-07	3.20E-07

Licensee Comments:

4Q/11: Changed PRA Parameter(s).

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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	2.28E-09	2.28E-09	1.01E-08	9.64E-09	9.64E-09	9.37E-09	4.20E-09	5.81E-09
URI (Δ CDF)	-2.96E-08	-2.94E-08	2.47E-08	2.41E-08	2.82E-08	2.77E-08	1.10E-09	1.21E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-08	-2.70E-08	3.50E-08	3.40E-08	3.80E-08	3.70E-08	5.30E-09	7.00E-09

Licensee Comments:

4Q/11: Changed PRA Parameter(s).

2Q/11: Changed PRA Parameter(s).

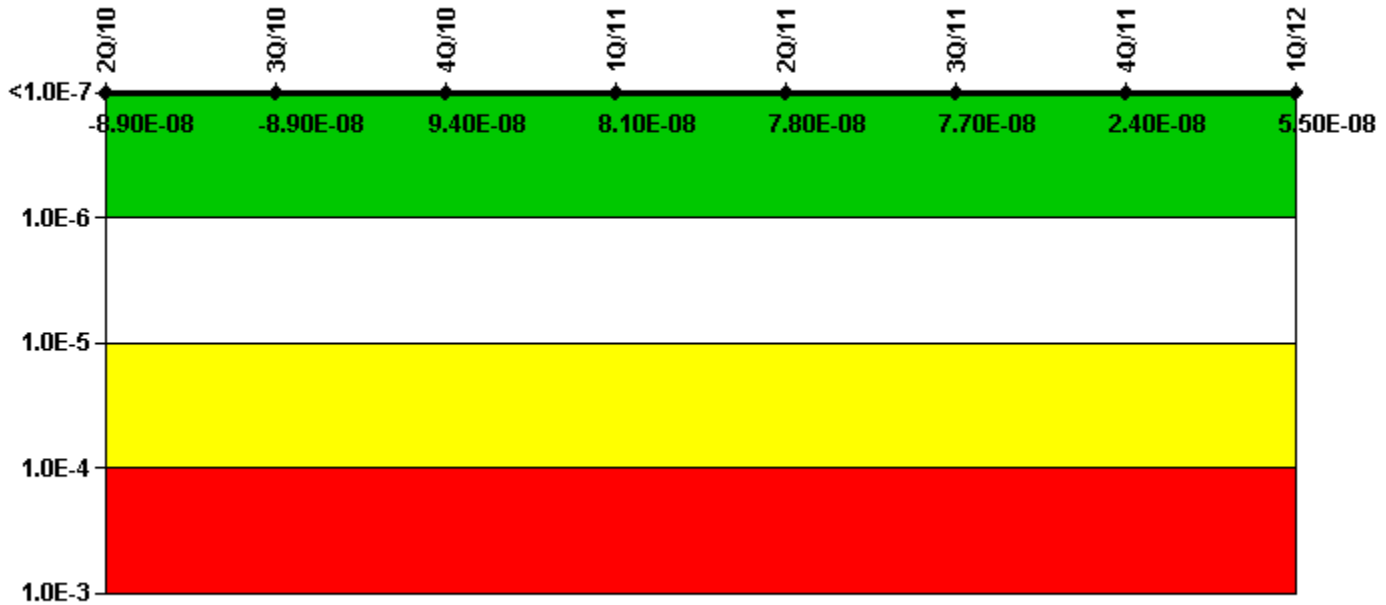
1Q/11: Changed PRA Parameter(s).

4Q/10: Changed PRA Parameter(s).

3Q/10: Changed PRA Parameter(s).

2Q/10: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

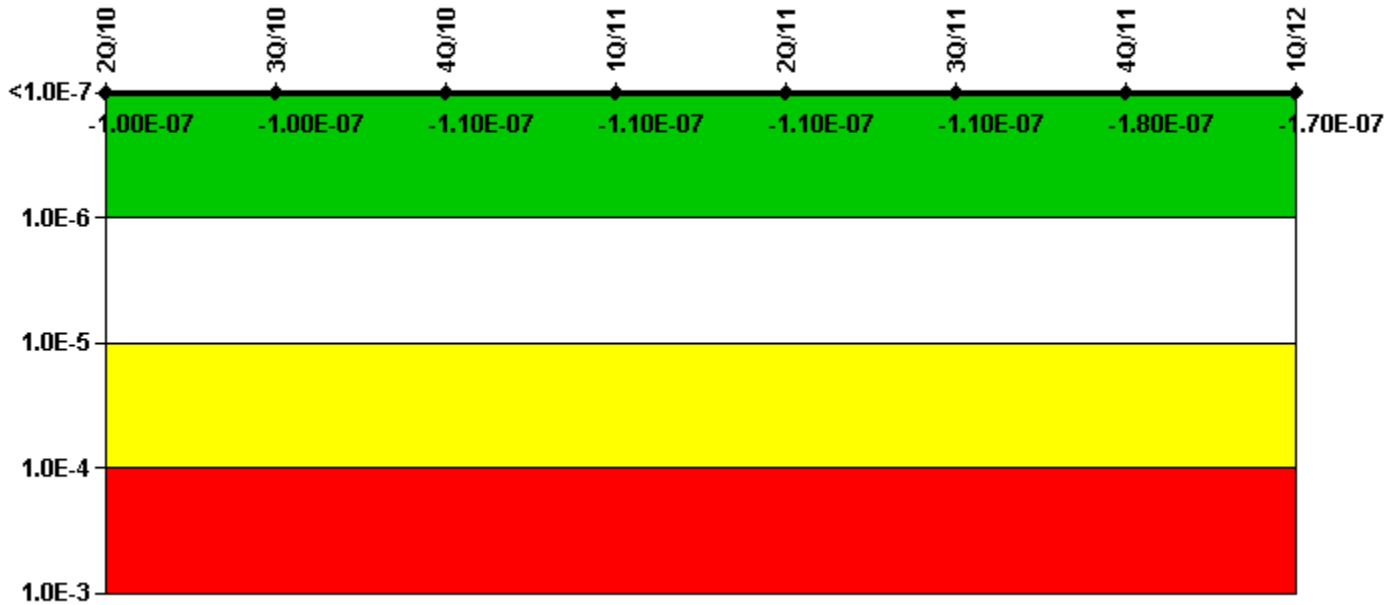
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-2.16E-08	-2.16E-08	-1.35E-08	-1.39E-08	-1.32E-08	-1.09E-08	-4.23E-09	2.65E-09
URI (Δ CDF)	-6.73E-08	-6.69E-08	1.07E-07	9.53E-08	9.17E-08	8.81E-08	2.78E-08	5.21E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.90E-08	-8.90E-08	9.40E-08	8.10E-08	7.80E-08	7.70E-08	2.40E-08	5.50E-08

Licensee Comments:

4Q/11: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

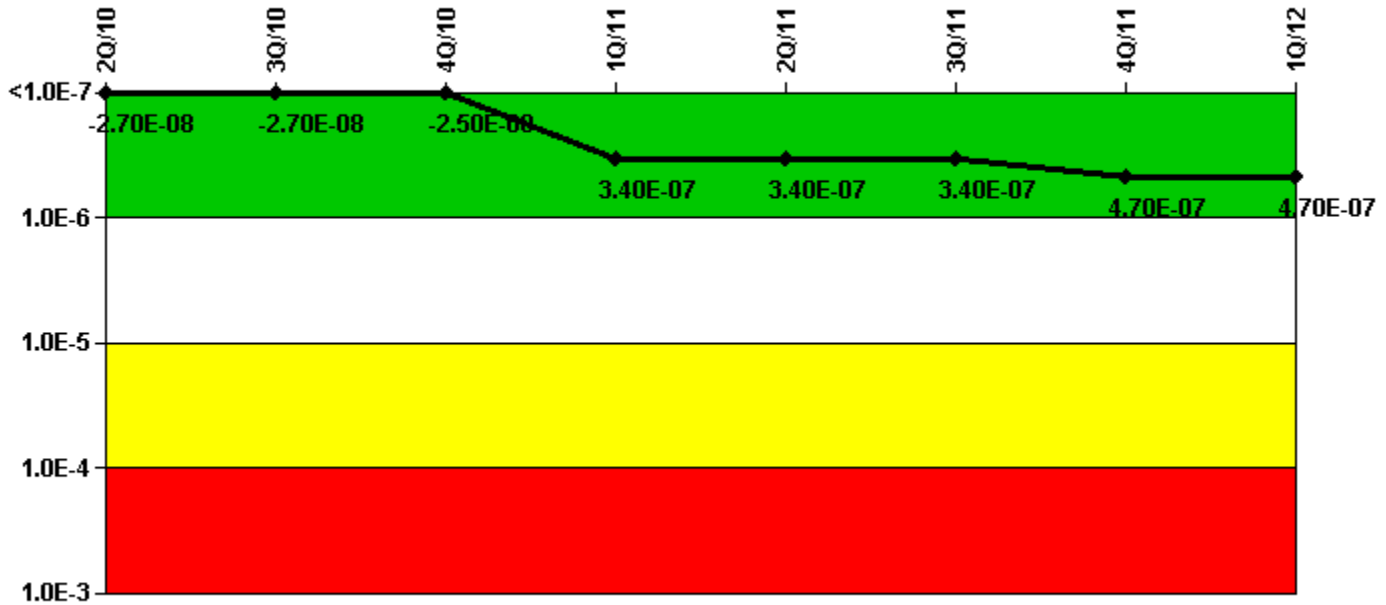
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-2.25E-08	-2.25E-08	-3.47E-08	-3.47E-08	-3.47E-08	-3.47E-08	-5.07E-08	-3.95E-08
URI (Δ CDF)	-7.84E-08	-7.74E-08	-7.69E-08	-7.57E-08	-7.50E-08	-7.37E-08	-1.25E-07	-1.28E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-07	-1.00E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.80E-07	-1.70E-07

Licensee Comments:

4Q/11: Changed PRA Parameter(s).

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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	-2.64E-09	-2.64E-09	-2.64E-09	-2.64E-09	-2.64E-09	-2.64E-09	-1.56E-09	-1.56E-09
URI (ΔCDF)	-2.43E-08	-2.43E-08	-2.26E-08	3.41E-07	3.41E-07	3.41E-07	4.70E-07	4.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-08	-2.70E-08	-2.50E-08	3.40E-07	3.40E-07	3.40E-07	4.70E-07	4.70E-07

Licensee Comments:

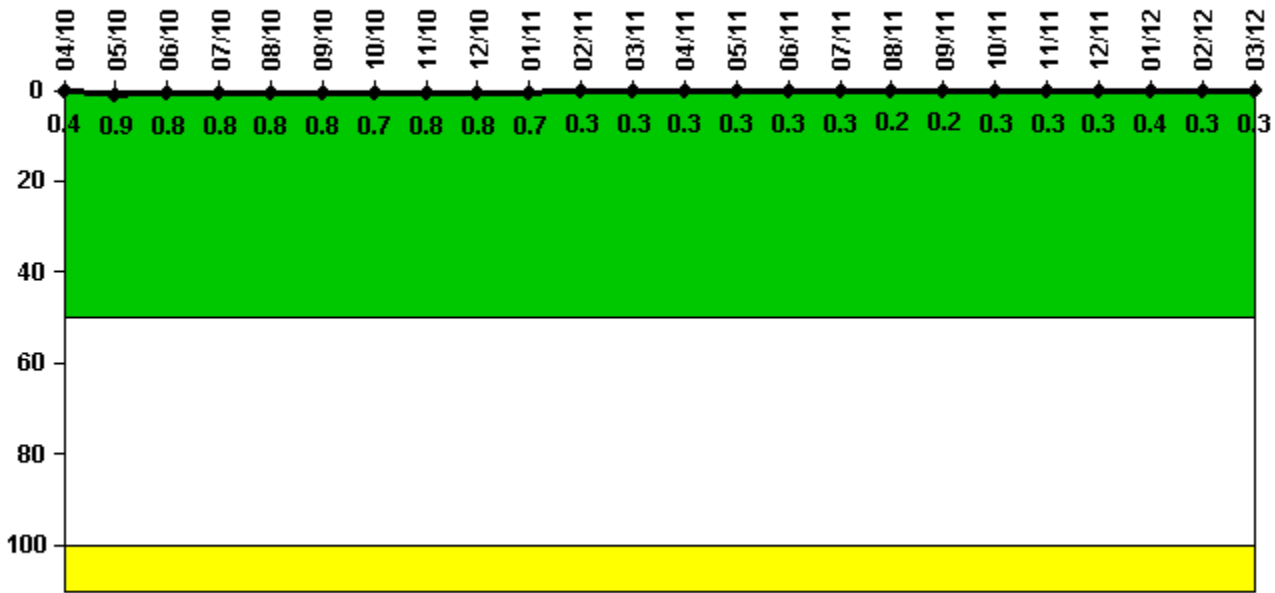
1Q/12: Risk Cap Invoked.

4Q/11: Changed PRA Parameter(s).

4Q/11: Risk Cap Invoked. Changed PRA Parameter(s).

4Q/11: Risk Cap Invoked.

Reactor Coolant System Activity



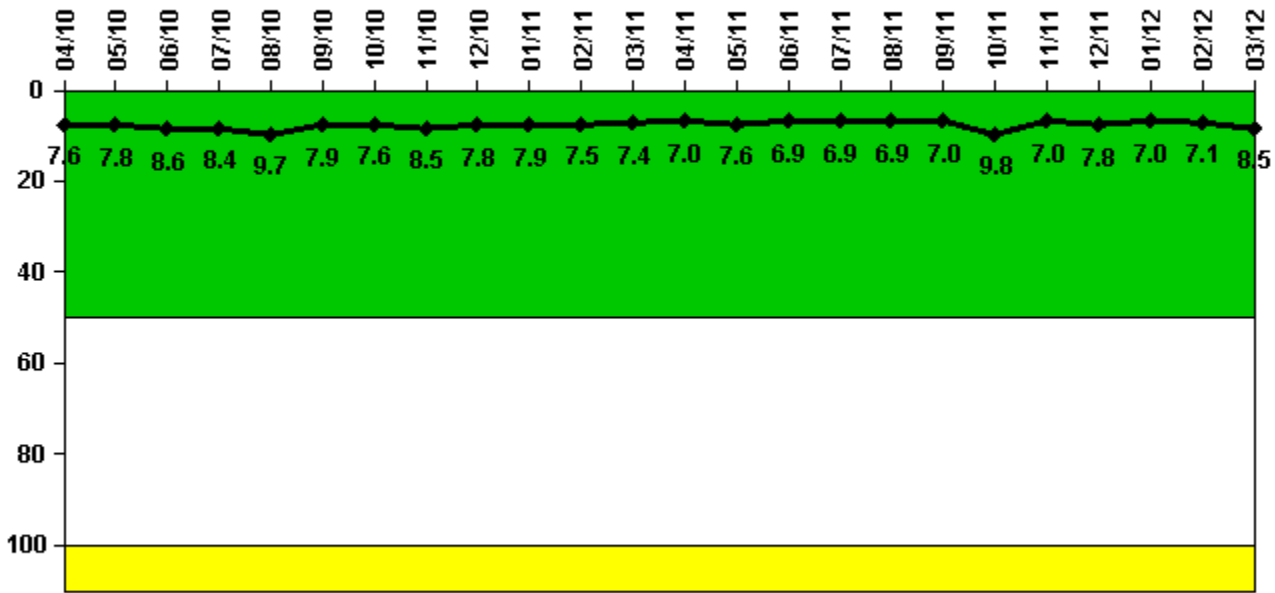
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum activity	0.000866	0.001880	0.001670	0.001640	0.001670	0.001540	0.001380	0.001520	0.001530	0.001400	0.000626	0.000658
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	0.4	0.9	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.7	0.3	0.3
Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000583	0.000604	0.000572	0.000659	0.000491	0.000497	0.000500	0.000516	0.000658	0.000701	0.000534	0.000610
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	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3

Licensee Comments: none

Reactor Coolant System Leakage



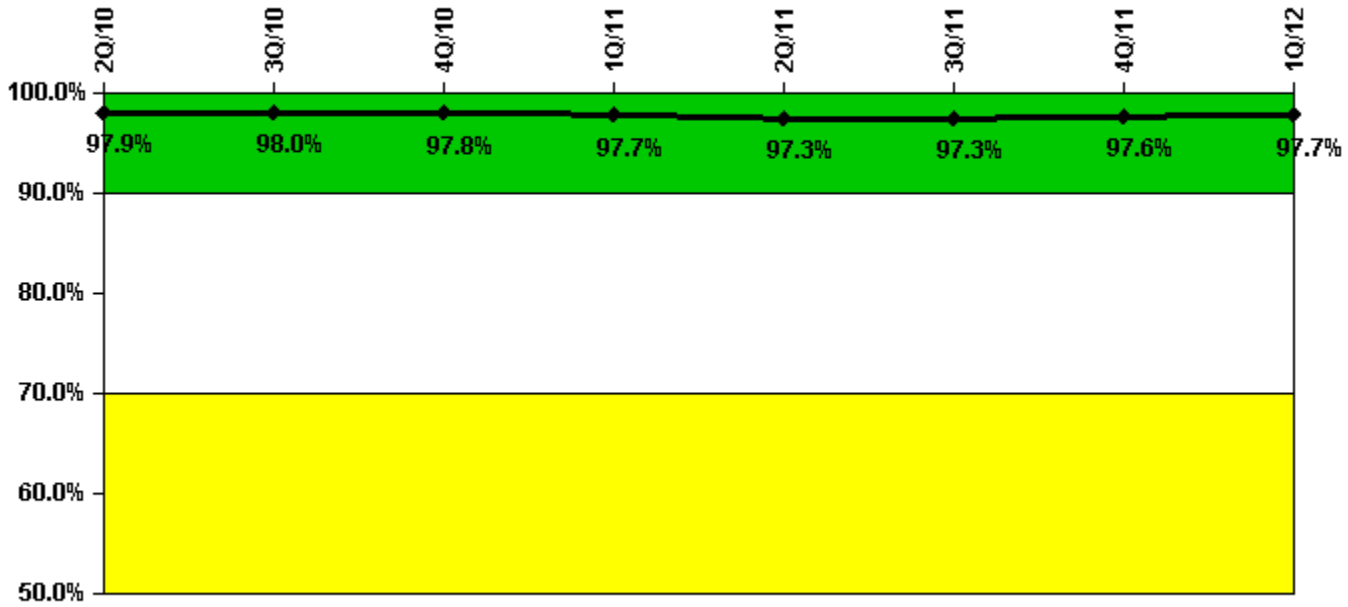
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum leakage	2.290	2.330	2.590	2.510	2.920	2.360	2.270	2.540	2.330	2.370	2.250	2.210
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	7.6	7.8	8.6	8.4	9.7	7.9	7.6	8.5	7.8	7.9	7.5	7.4
Reactor Coolant System Leakage	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum leakage	2.100	2.290	2.080	2.080	2.080	2.110	2.940	2.090	2.340	2.090	2.120	2.550
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	7.0	7.6	6.9	6.9	6.9	7.0	9.8	7.0	7.8	7.0	7.1	8.5

Licensee Comments: none

Drill/Exercise Performance



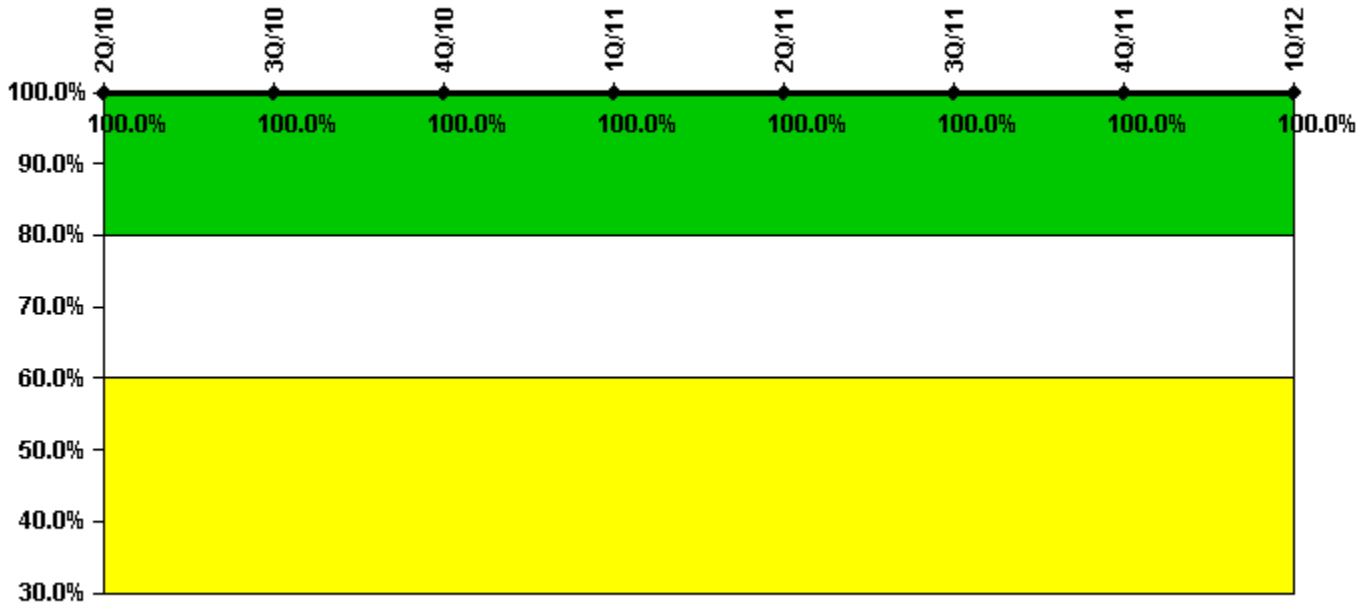
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	54.0	43.0	10.0	24.0	33.0	98.0	30.0	46.0
Total opportunities	56.0	43.0	10.0	24.0	34.0	101.0	30.0	48.0
Indicator value	97.9%	98.0%	97.8%	97.7%	97.3%	97.3%	97.6%	97.7%

Licensee Comments: none

ERO Drill Participation



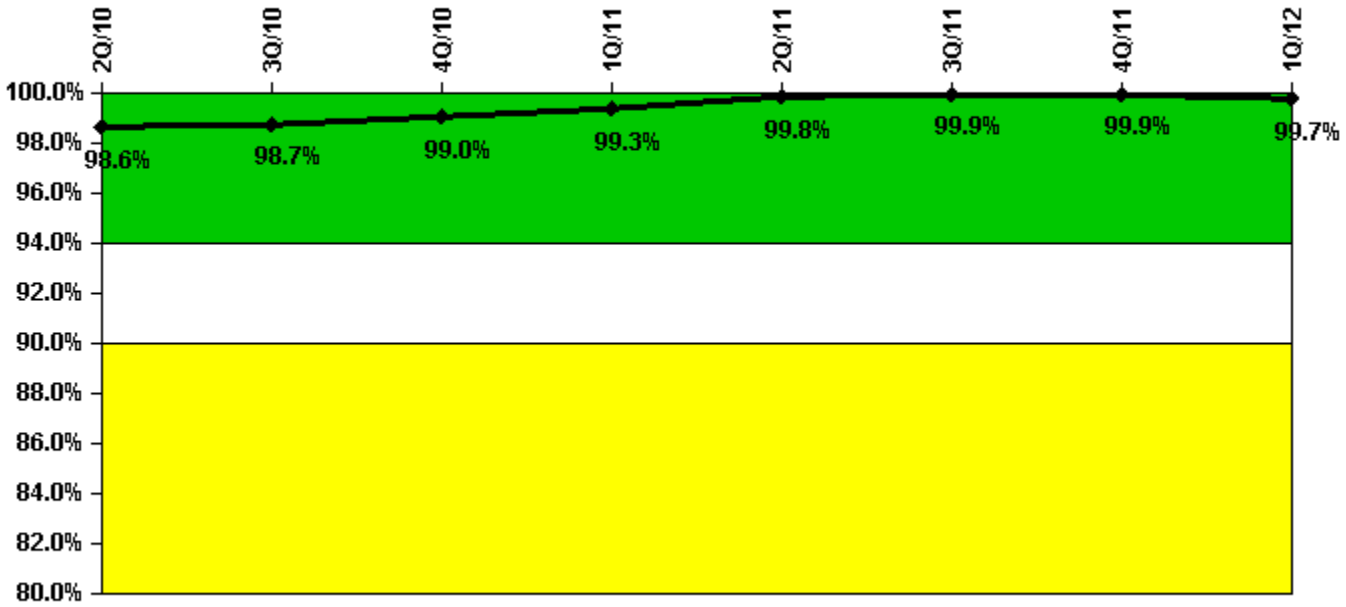
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	128.0	132.0	95.0	96.0	95.0	97.0	91.0	92.0
Total Key personnel	128.0	132.0	95.0	96.0	95.0	97.0	91.0	92.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



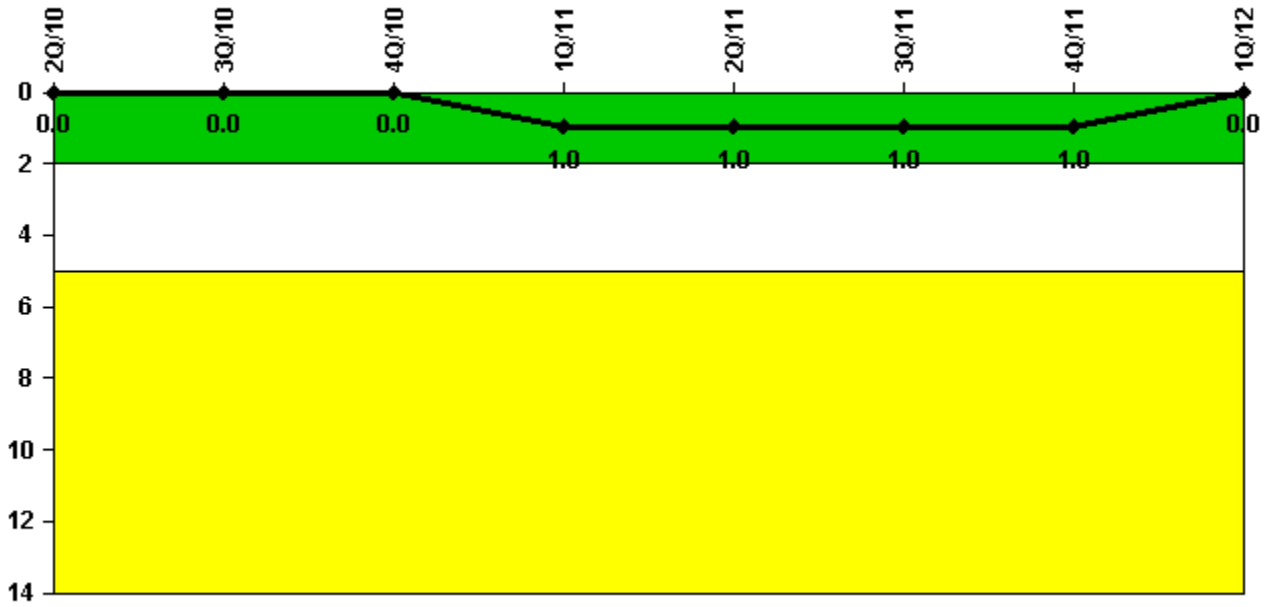
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	1184	1201	1209	1207	1207	1207	1116	1201
Total sirens-tests	1209	1209	1209	1209	1209	1209	1116	1209
Indicator value	98.6%	98.7%	99.0%	99.3%	99.8%	99.9%	99.9%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



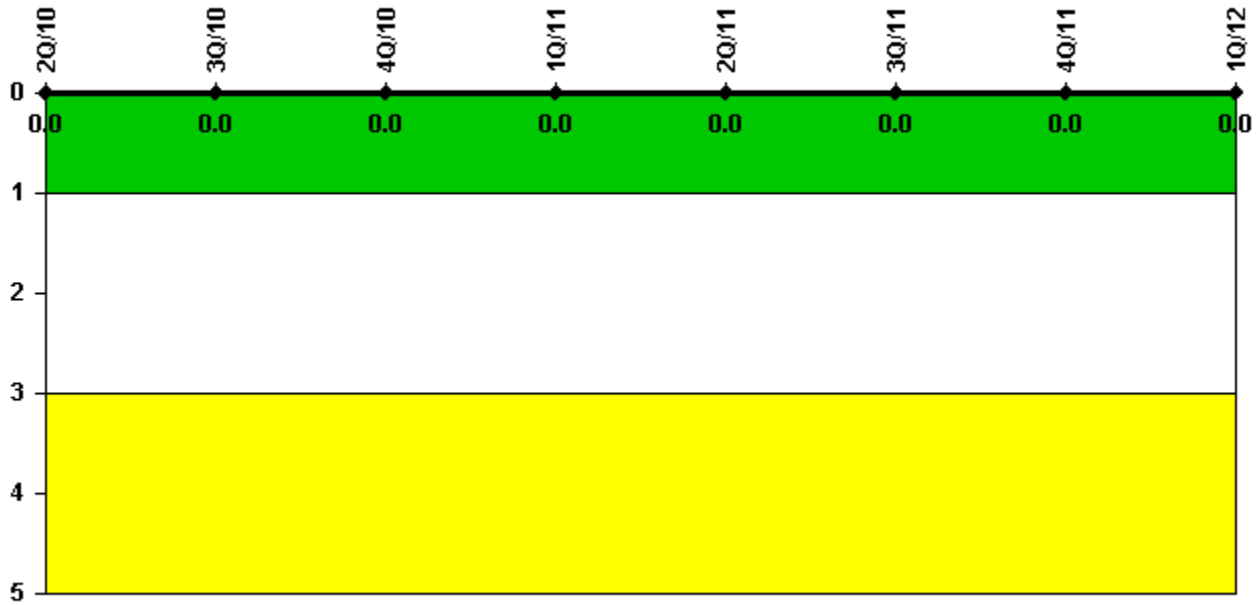
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
High radiation area occurrences	0	0	0	1	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	1	1	1	1	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
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.