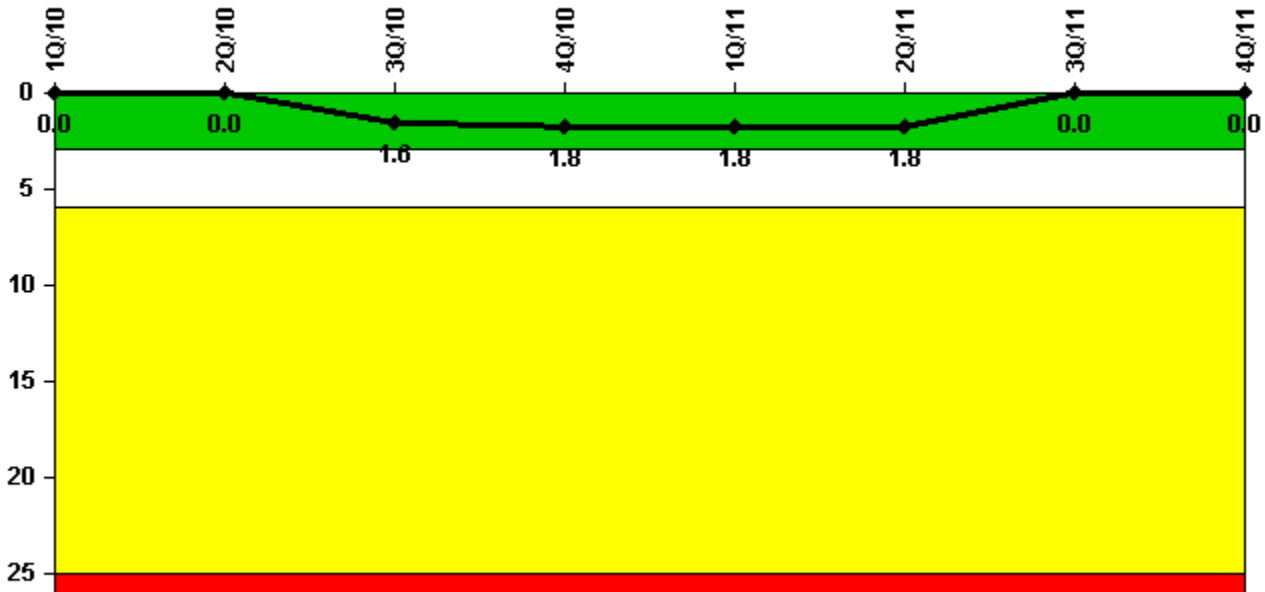


Braidwood 1

4Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



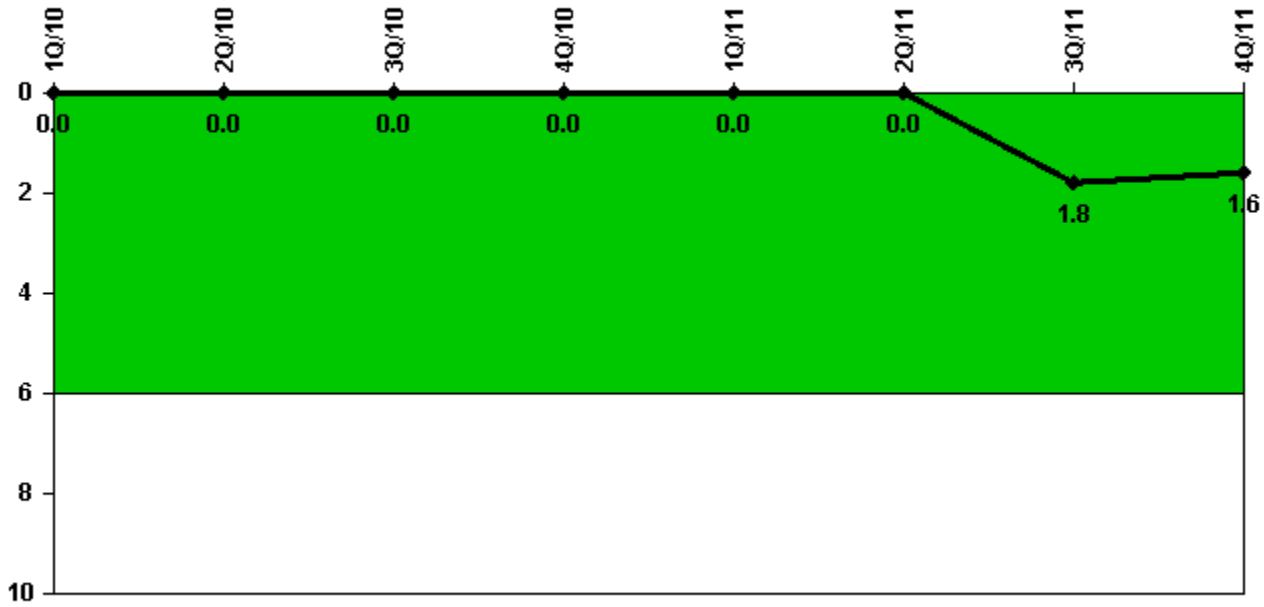
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned scrams	0	0	2.0	0	0	0	0	0
Critical hours	2159.0	2184.0	2069.2	1433.2	2159.0	2184.0	2208.0	2209.0
Indicator value	0	0	1.6	1.8	1.8	1.8	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	2.0	0
Critical hours	2159.0	2184.0	2069.2	1433.2	2159.0	2184.0	2208.0	2209.0
Indicator value	0	0	0	0	0	0	1.8	1.6

Licensee Comments: none

Unplanned Scrams with Complications



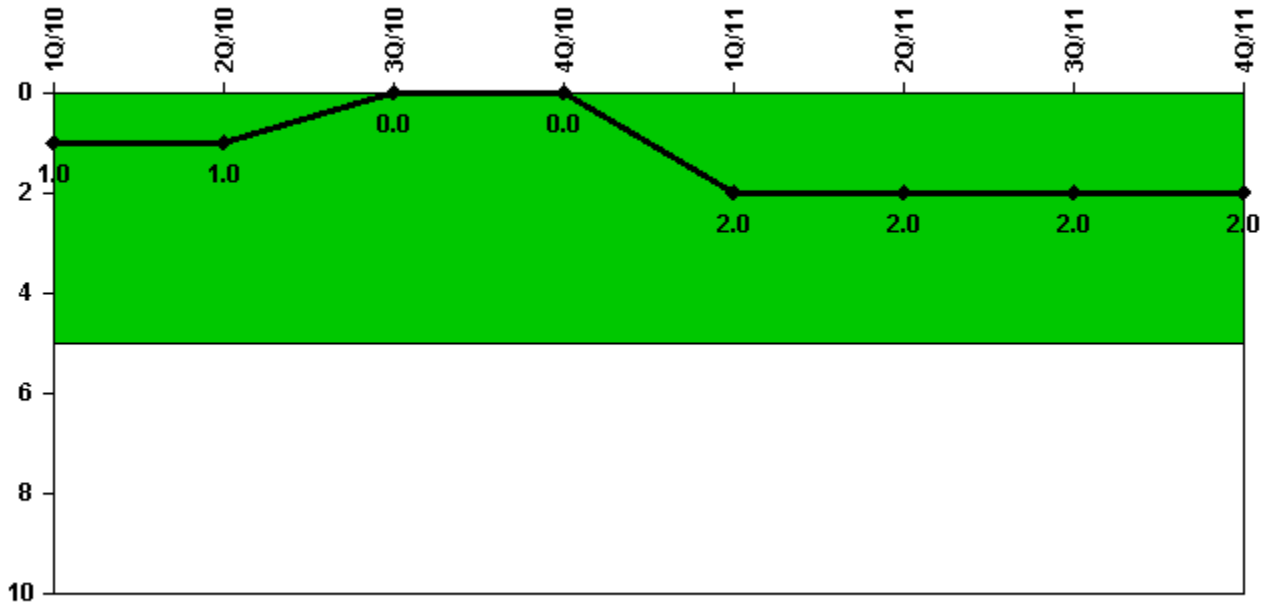
Thresholds: White > 1.0

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 (PWR)



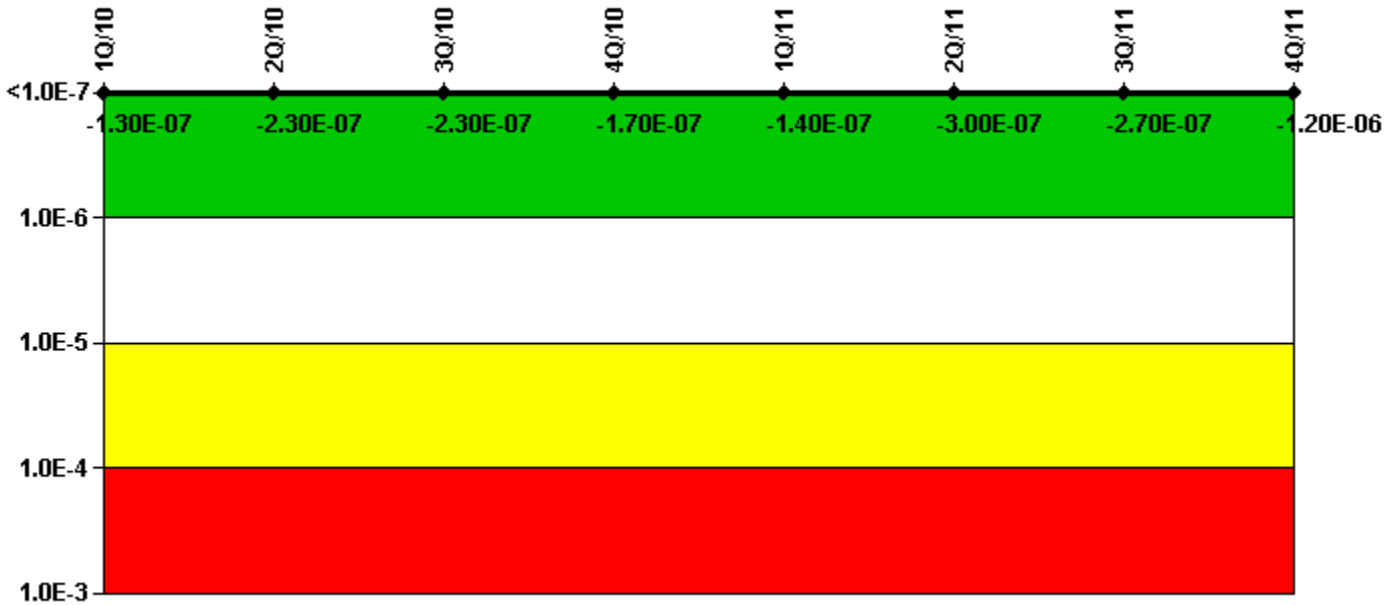
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

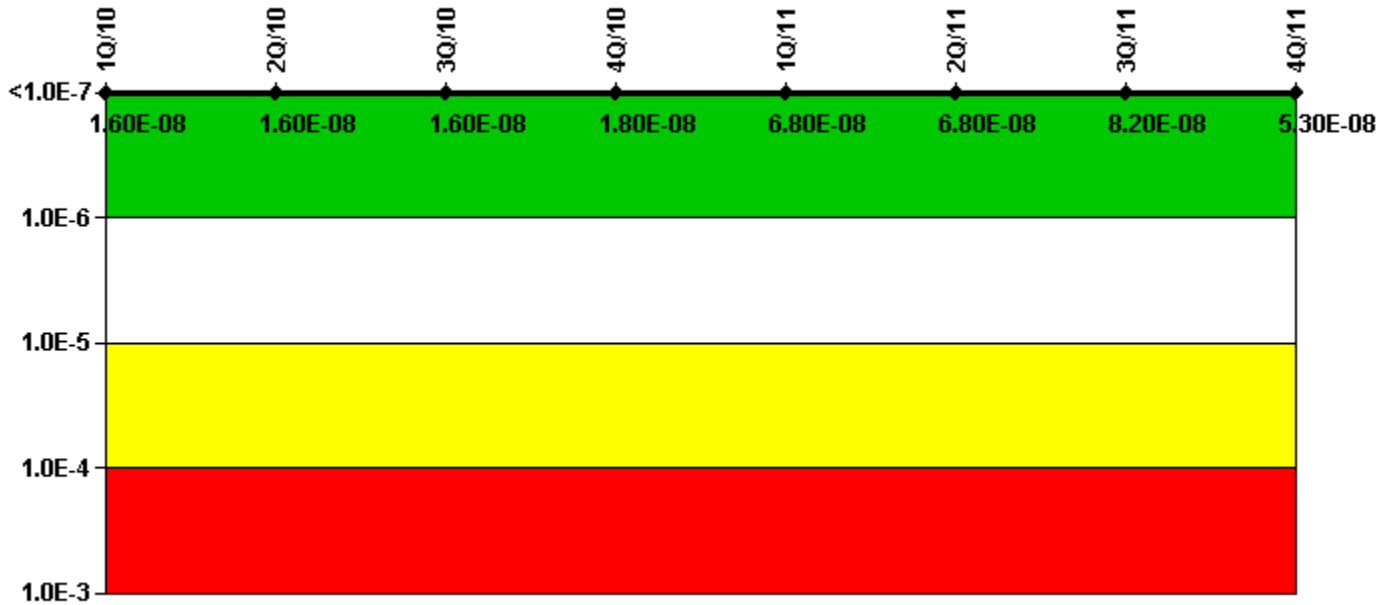
Notes

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 (Δ CDF)	3.86E-08	1.95E-08	1.74E-08	1.66E-08	4.30E-08	3.72E-09	2.73E-08	8.19E-08
URI (Δ CDF)	-1.72E-07	-2.46E-07	-2.46E-07	-1.84E-07	-1.80E-07	-3.03E-07	-3.00E-07	-1.29E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-07	-2.30E-07	-2.30E-07	-1.70E-07	-1.40E-07	-3.00E-07	-2.70E-07	-1.20E-06

Licensee Comments:

4Q/11: Risk Cap Invoked. Changed PRA Parameter(s). Braidwood PRA Model Revision No: 6F approved September 29, 2011, revised Unit 1 and Unit 2 PRA inputs due to a change in the plant operations which calls for preemptively splitting CC trains Post-LOCA and the addition of a revised internal flooding study. Additionally, the RH8716 valves were removed from MSPI scope due to a sufficiently low Birnbaum value.

Mitigating Systems Performance Index, High Pressure Injection System



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

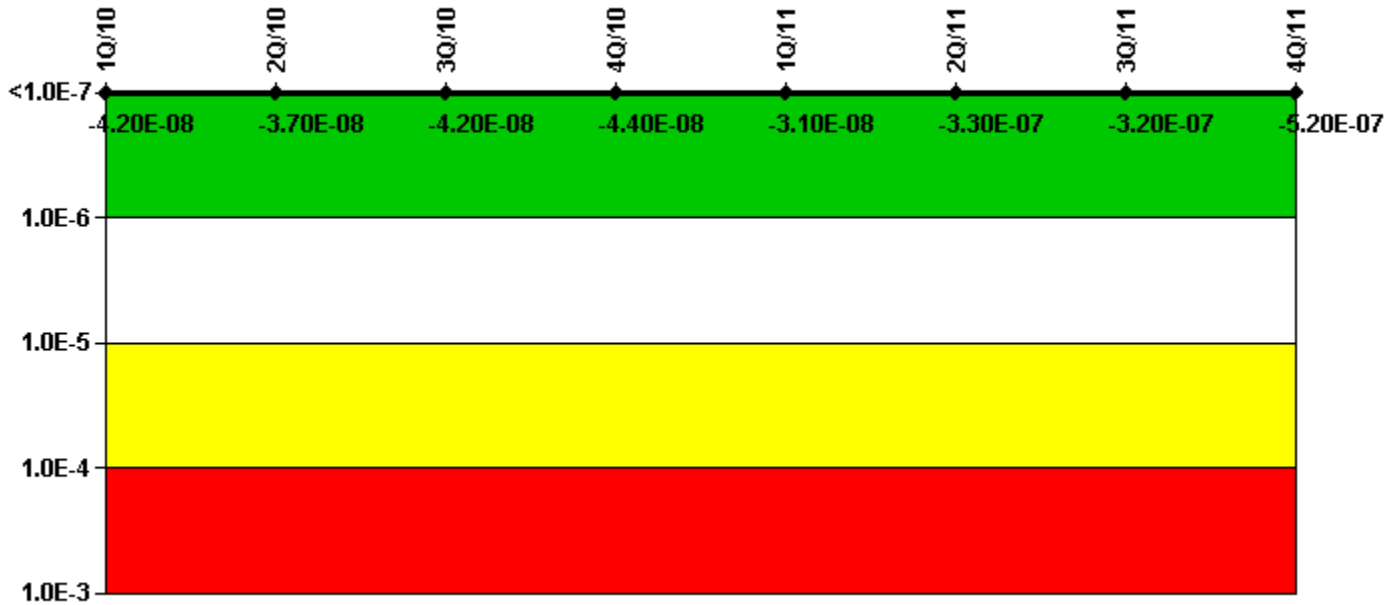
Notes

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 (Δ CDF)	1.93E-08	1.93E-08	1.95E-08	2.15E-08	7.18E-08	7.18E-08	8.53E-08	5.50E-08
URI (Δ CDF)	-3.31E-09	-3.38E-09	-3.38E-09	-3.36E-09	-3.35E-09	-3.36E-09	-3.33E-09	-2.27E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.60E-08	1.60E-08	1.60E-08	1.80E-08	6.80E-08	6.80E-08	8.20E-08	5.30E-08

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Braidwood PRA Model Revision No: 6F approved September 29, 2011, revised Unit 1 and Unit 2 PRA inputs due to a change in the plant operations which calls for preemptively splitting CC trains Post-LOCA and the addition of a revised internal flooding study. Additionally, the RH8716 valves were remove from MSPI scope due to a sufficiently low Birnbaum value.

Mitigating Systems Performance Index, Heat Removal System



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

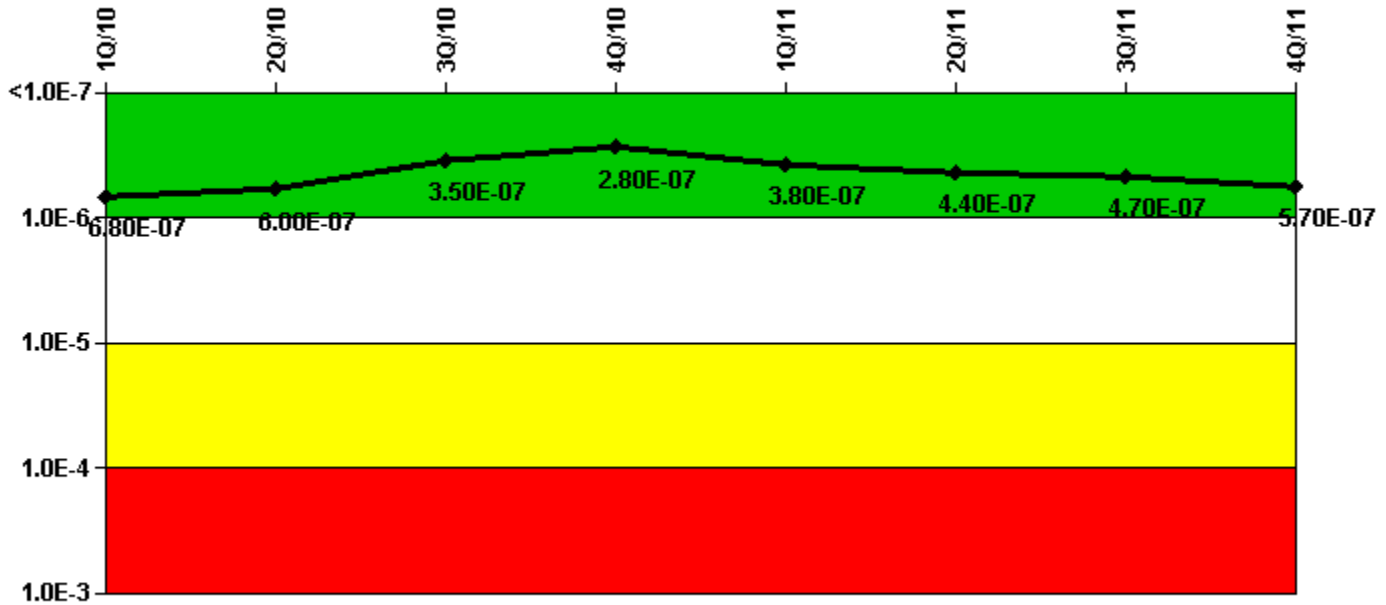
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	$-5.04E-08$	$-5.05E-08$	$-5.00E-08$	$-4.94E-08$	$-3.56E-08$	$-4.92E-08$	$-4.92E-08$	$1.43E-08$
URI (Δ CDF)	$8.14E-09$	$1.36E-08$	$7.92E-09$	$5.20E-09$	$5.07E-09$	$-2.80E-07$	$-2.74E-07$	$-5.30E-07$
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	$-4.20E-08$	$-3.70E-08$	$-4.20E-08$	$-4.40E-08$	$-3.10E-08$	$-3.30E-07$	$-3.20E-07$	$-5.20E-07$

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Braidwood PRA Model Revision No: 6F approved September 29, 2011, revised Unit 1 and Unit 2 PRA inputs due to a change in the plant operations which calls for preemptively splitting CC trains Post-LOCA and the addition of a revised internal flooding study. Additionally, the RH8716 valves were remove from MSPI scope due to a sufficiently low Birnbaum value.

Mitigating Systems Performance Index, Residual Heat Removal System



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

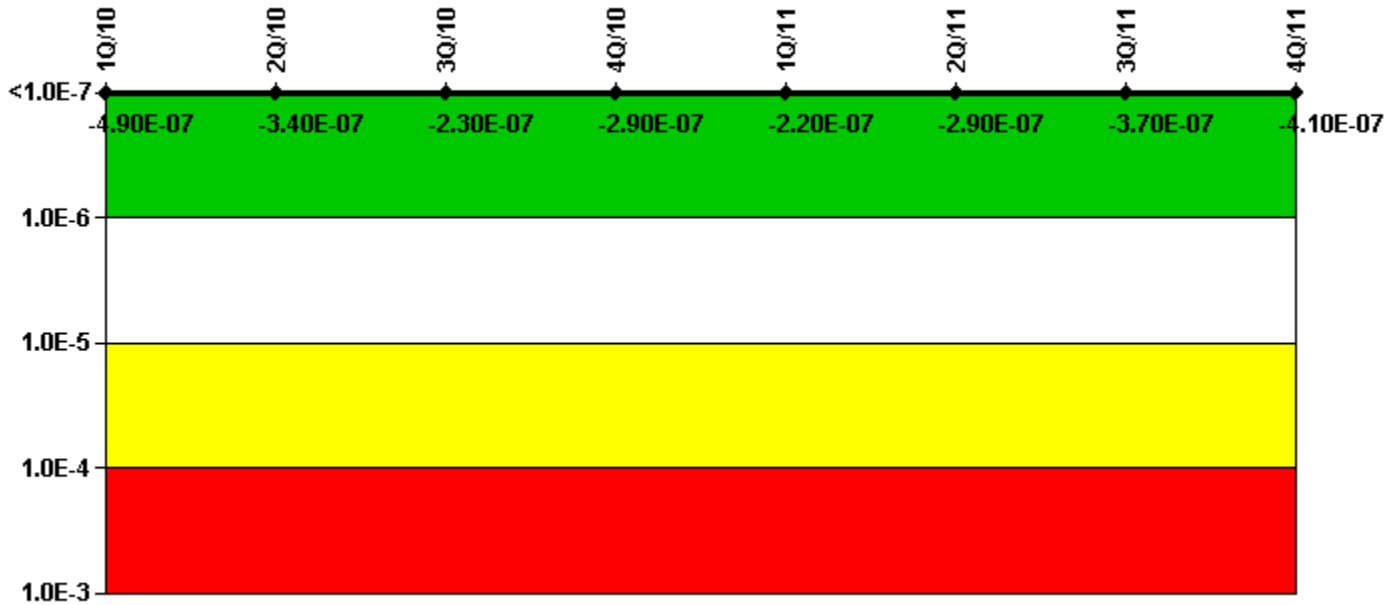
Notes

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)	3.66E-07	2.89E-07	3.51E-08	-2.46E-08	6.52E-08	1.24E-07	1.52E-07	1.32E-07
URI (ΔCDF)	3.14E-07	3.15E-07	3.19E-07	3.09E-07	3.15E-07	3.17E-07	3.19E-07	4.42E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.80E-07	6.00E-07	3.50E-07	2.80E-07	3.80E-07	4.40E-07	4.70E-07	5.70E-07

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Braidwood PRA Model Revision No: 6F approved September 29, 2011, revised Unit 1 and Unit 2 PRA inputs due to a change in the plant operations which calls for preemptively splitting CC trains Post-LOCA and the addition of a revised internal flooding study. Additionally, the RH8716 valves were removed from MSPI scope due to a sufficiently low Birnbaum value.

Mitigating Systems Performance Index, Cooling Water Systems



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

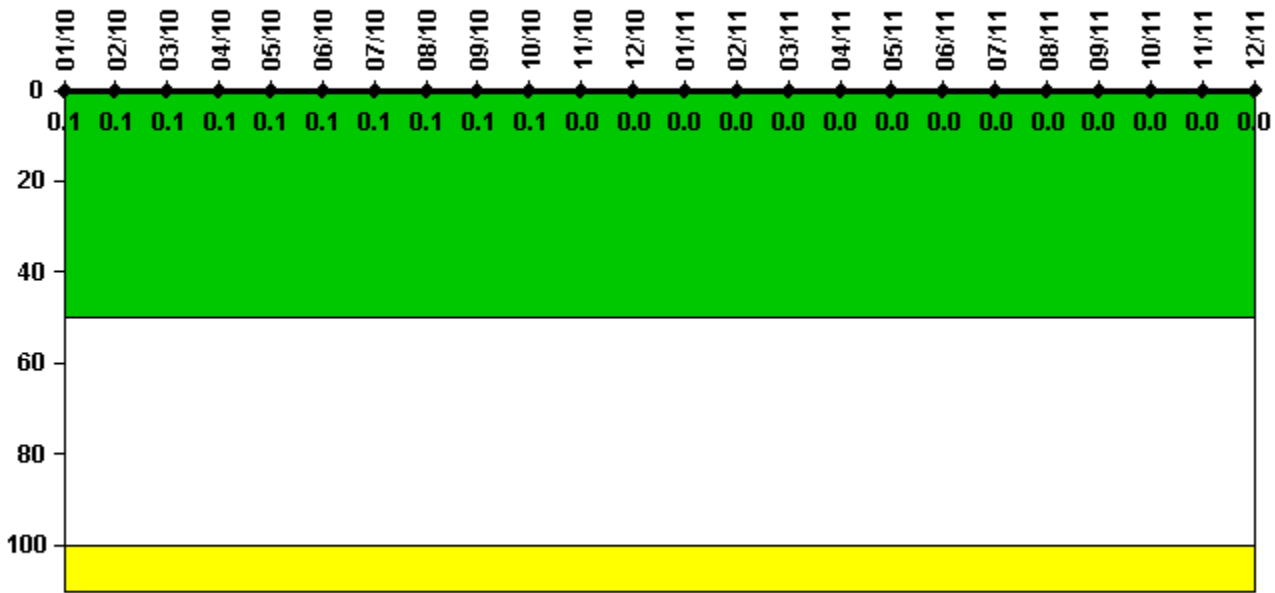
Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	8.75E-08	2.41E-07	3.53E-07	3.02E-07	3.69E-07	2.97E-07	2.20E-07	1.87E-07
URI (Δ CDF)	-5.79E-07	-5.81E-07	-5.88E-07	-5.87E-07	-5.87E-07	-5.90E-07	-5.92E-07	-5.93E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.90E-07	-3.40E-07	-2.30E-07	-2.90E-07	-2.20E-07	-2.90E-07	-3.70E-07	-4.10E-07

Licensee Comments:

4Q/11: Changed PRA Parameter(s). Braidwood PRA Model Revision No: 6F approved September 29, 2011, revised Unit 1 and Unit 2 PRA inputs due to a change in the plant operations which calls for preemptively splitting CC trains Post-LOCA and the addition of a revised internal flooding study. Additionally, the RH8716 valves were remove from MSPI scope due to a sufficiently low Birnbaum value.

Reactor Coolant System Activity



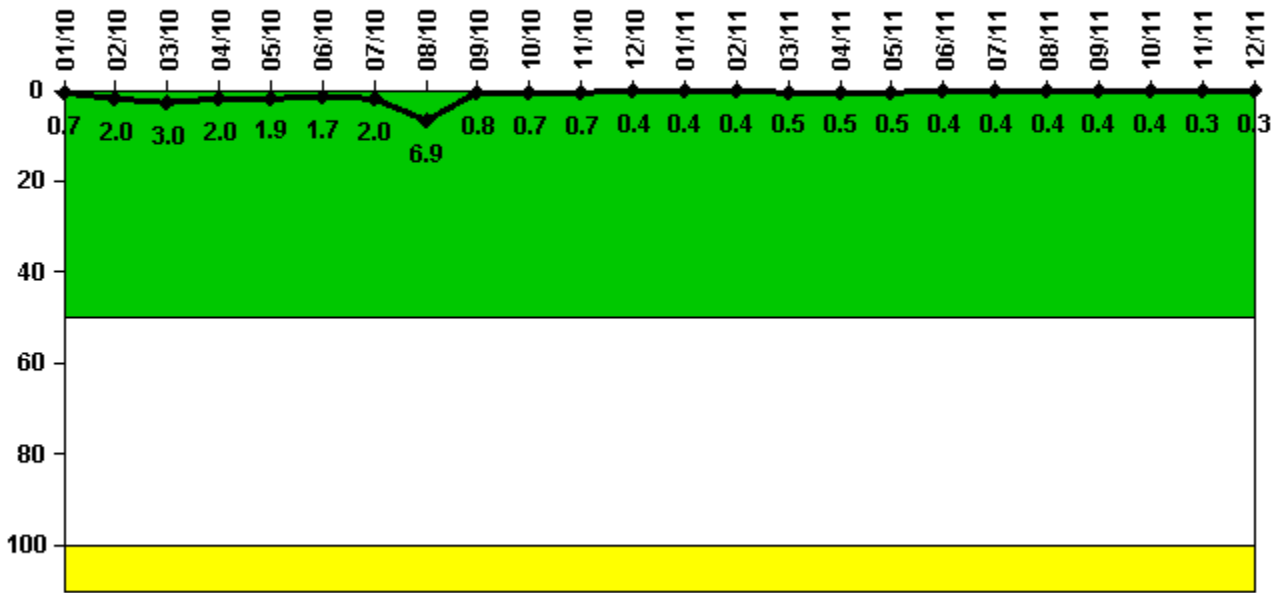
Thresholds: White > 50.0 Yellow > 100.0

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	0.001110	0.001100	0.000680	0.000694	0.000738	0.000750	0.000768	0.000870	0.000829	0.000784	0.000265	0.000268
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0
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	0.000288	0.000292	0.000325	0.000333	0.000345	0.000345	0.000372	0.000391	0.000407	0.000415	0.000478	0.000473
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



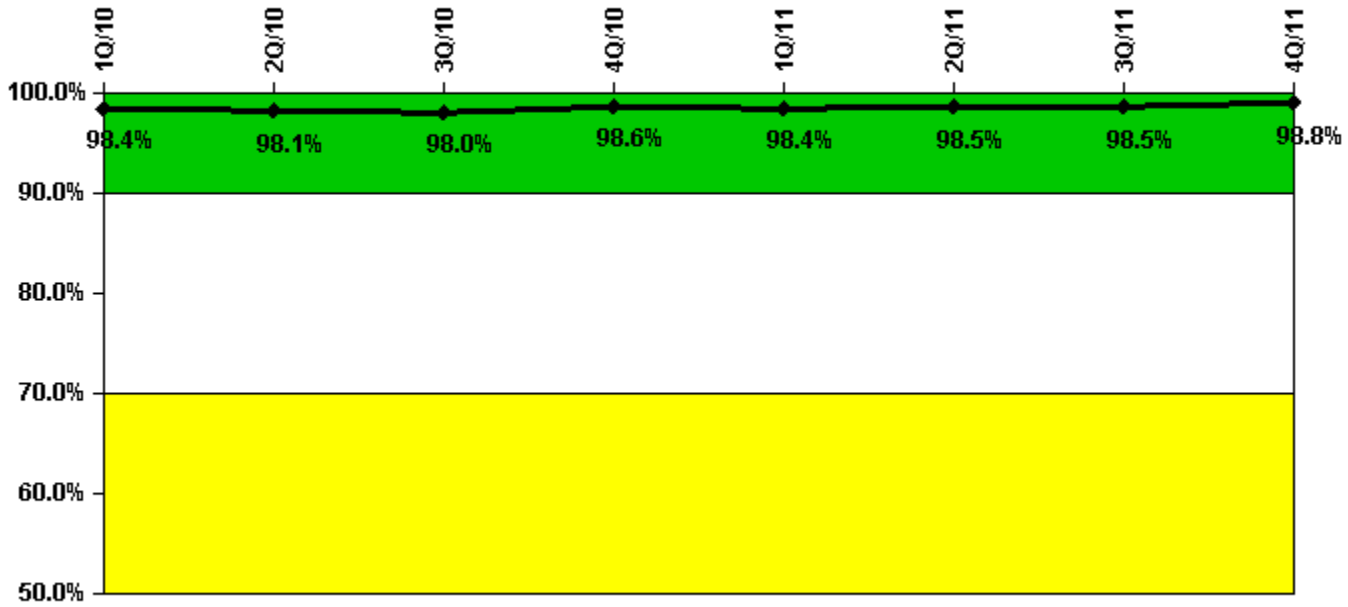
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum leakage	0.066	0.202	0.301	0.201	0.194	0.168	0.196	0.688	0.078	0.069	0.066	0.042
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	0.7	2.0	3.0	2.0	1.9	1.7	2.0	6.9	0.8	0.7	0.7	0.4
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	0.039	0.041	0.047	0.048	0.045	0.042	0.043	0.043	0.037	0.039	0.034	0.033
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	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3

Licensee Comments: none

Drill/Exercise Performance



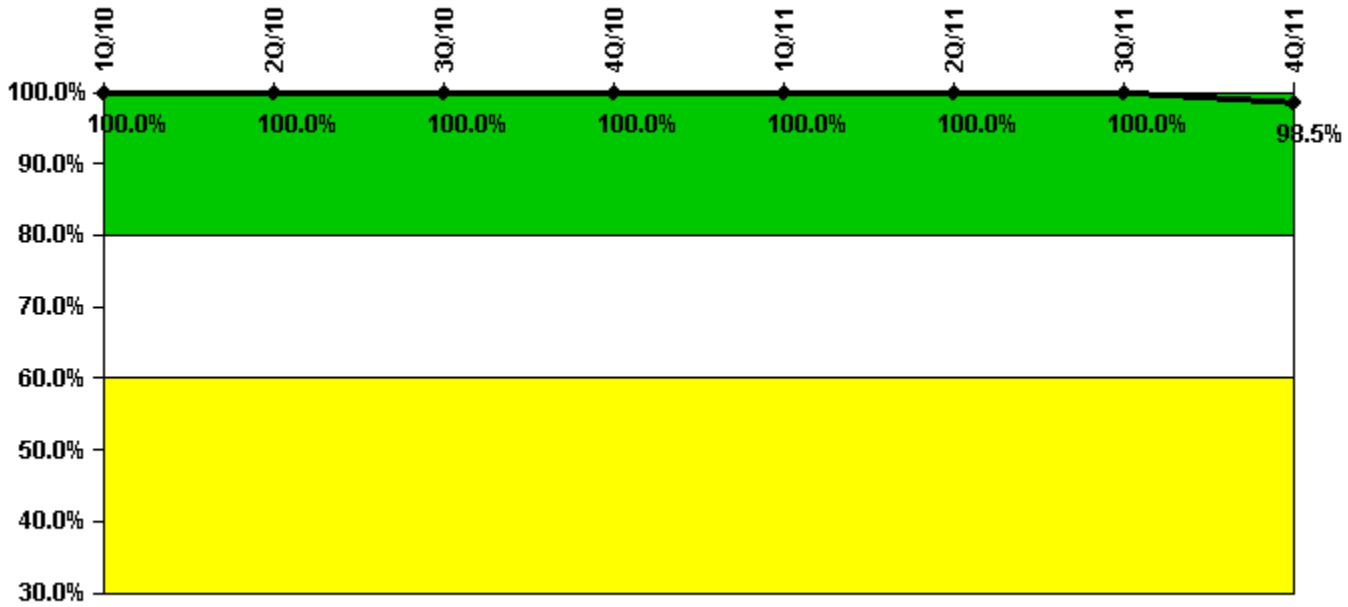
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful opportunities	30.0	27.0	55.0	114.0	39.0	16.0	56.0	78.0
Total opportunities	32.0	28.0	56.0	114.0	40.0	16.0	56.0	78.0
Indicator value	98.4%	98.1%	98.0%	98.6%	98.4%	98.5%	98.5%	98.8%

Licensee Comments: none

ERO Drill Participation



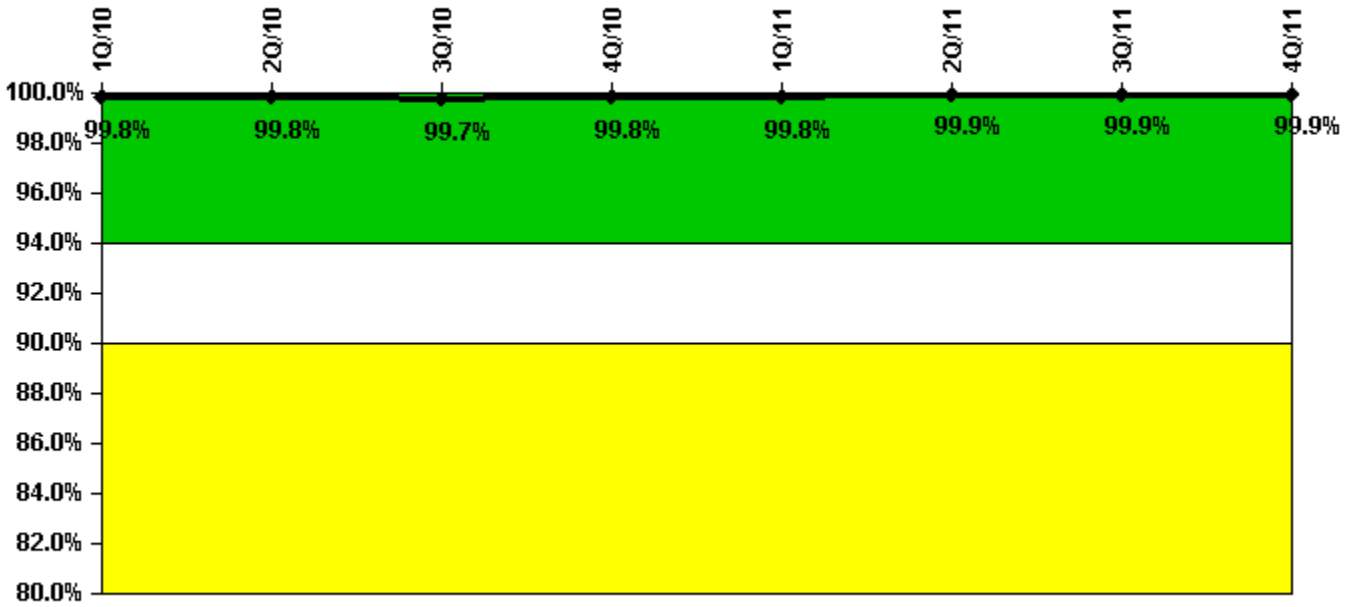
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	67.0	70.0	72.0	67.0	64.0	62.0	65.0	65.0
Total Key personnel	67.0	70.0	72.0	67.0	64.0	62.0	65.0	66.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.5%

Licensee Comments: none

Alert & Notification System



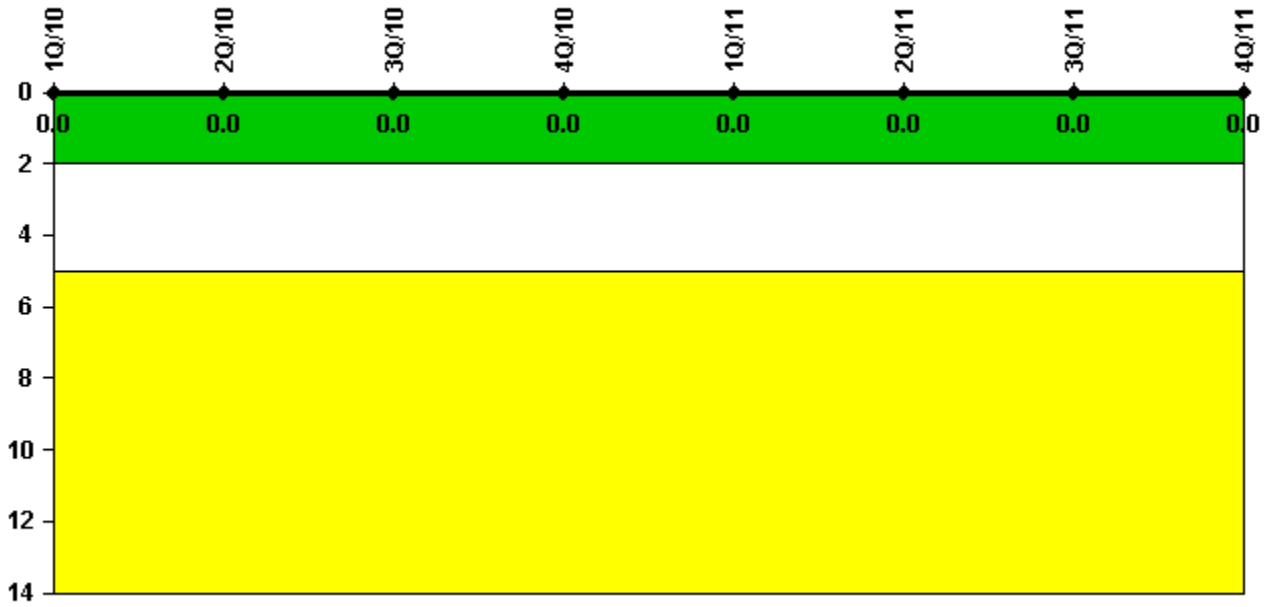
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful siren-tests	3020	3058	3116	3119	3068	3065	3070	3071
Total sirens-tests	3024	3072	3120	3120	3072	3072	3072	3072
Indicator value	99.8%	99.8%	99.7%	99.8%	99.8%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



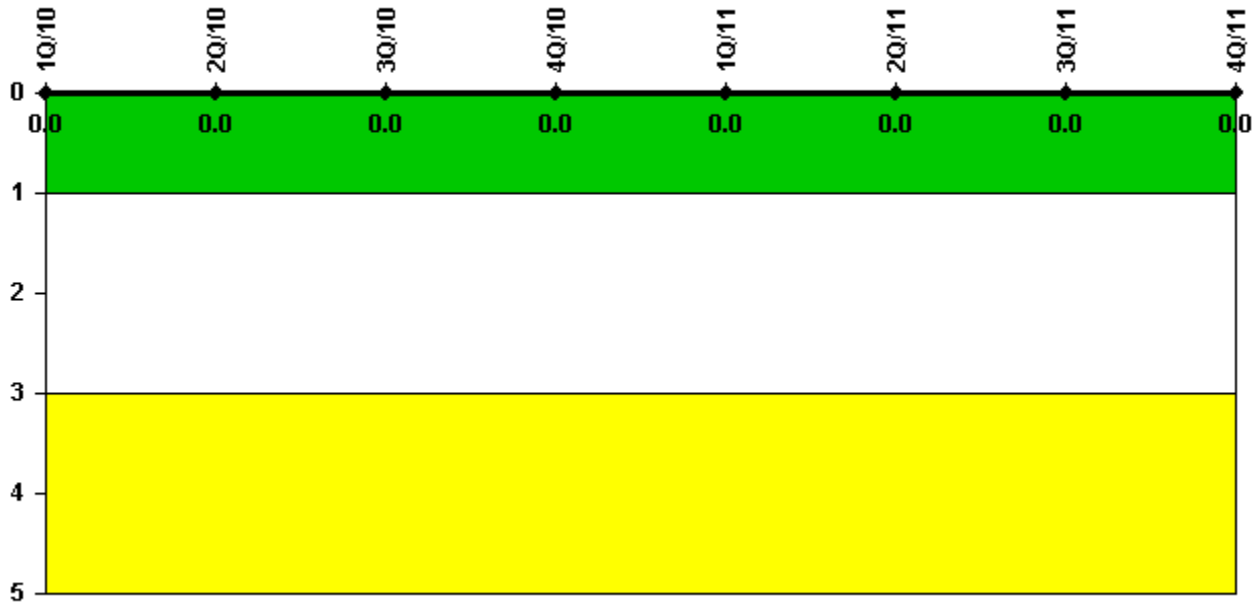
Thresholds: White > 2.0 Yellow > 5.0

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.