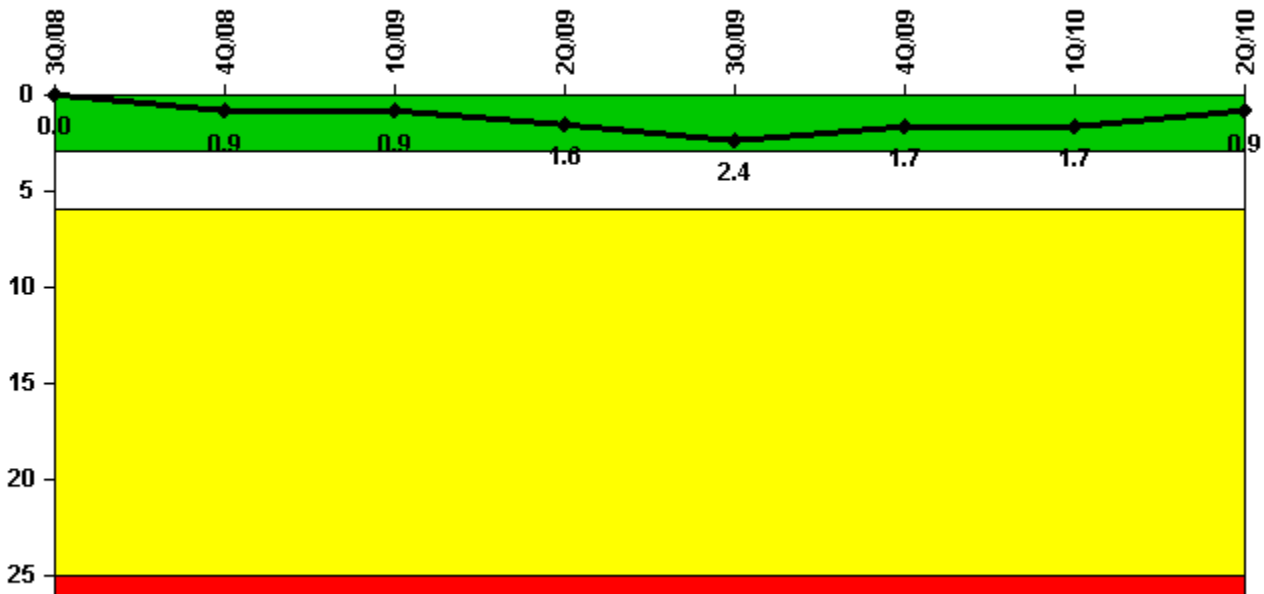


Braidwood 2

2Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



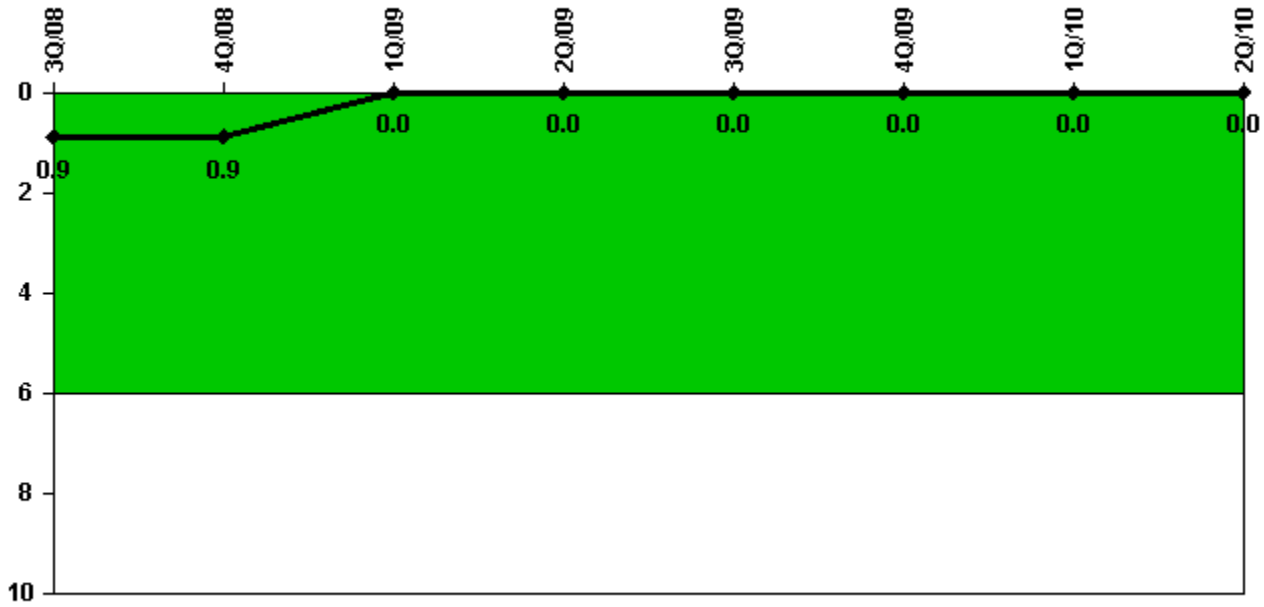
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned scrams	0	1.0	0	1.0	1.0	0	0	0
Critical hours	2208.0	2174.3	2159.0	2157.5	2093.0	1744.4	2159.0	2184.0
Indicator value	0	0.9	0.9	1.6	2.4	1.7	1.7	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



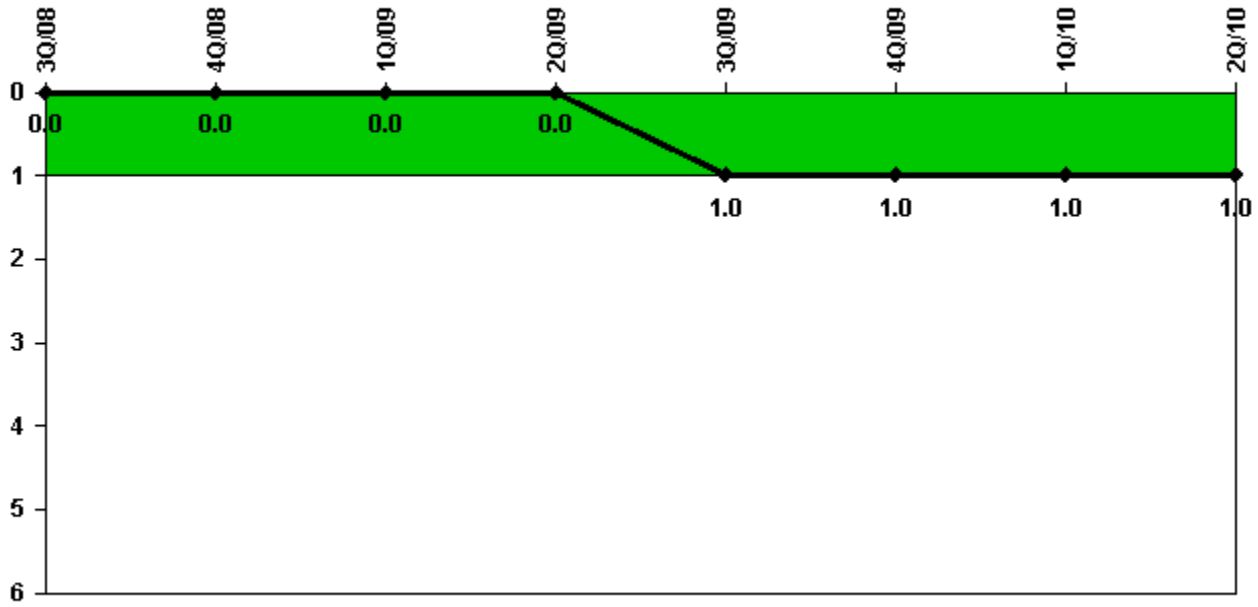
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2174.3	2159.0	2157.5	2093.0	1744.4	2159.0	2184.0
Indicator value	0.9	0.9	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



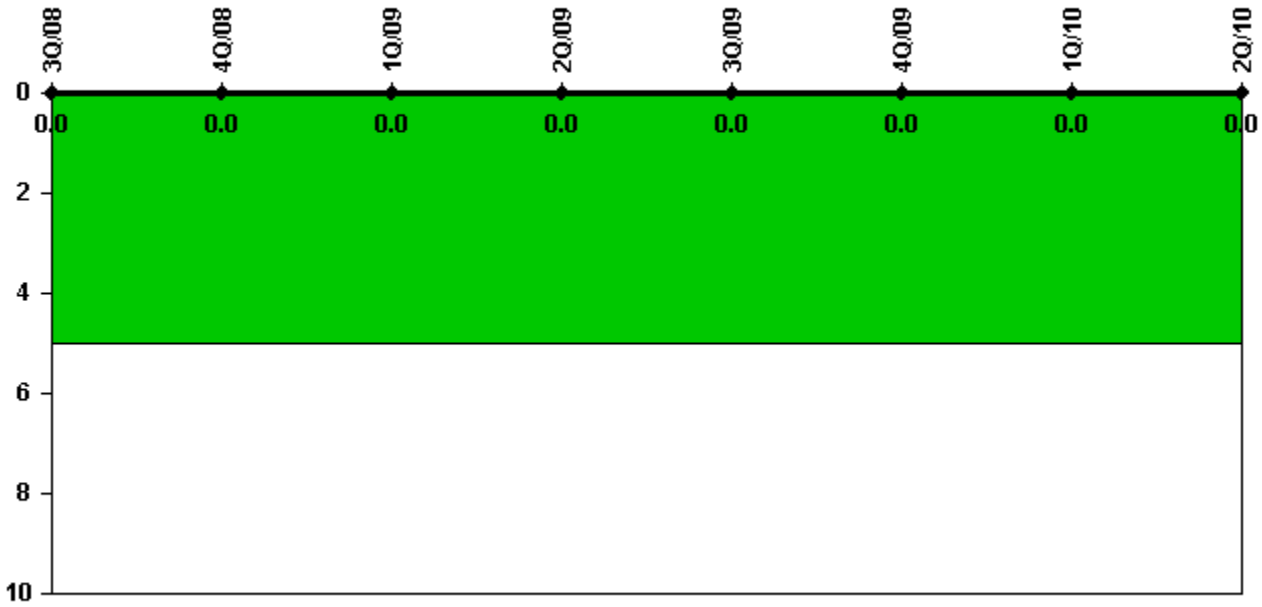
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Scrams with complications	0	0	0	0	1.0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



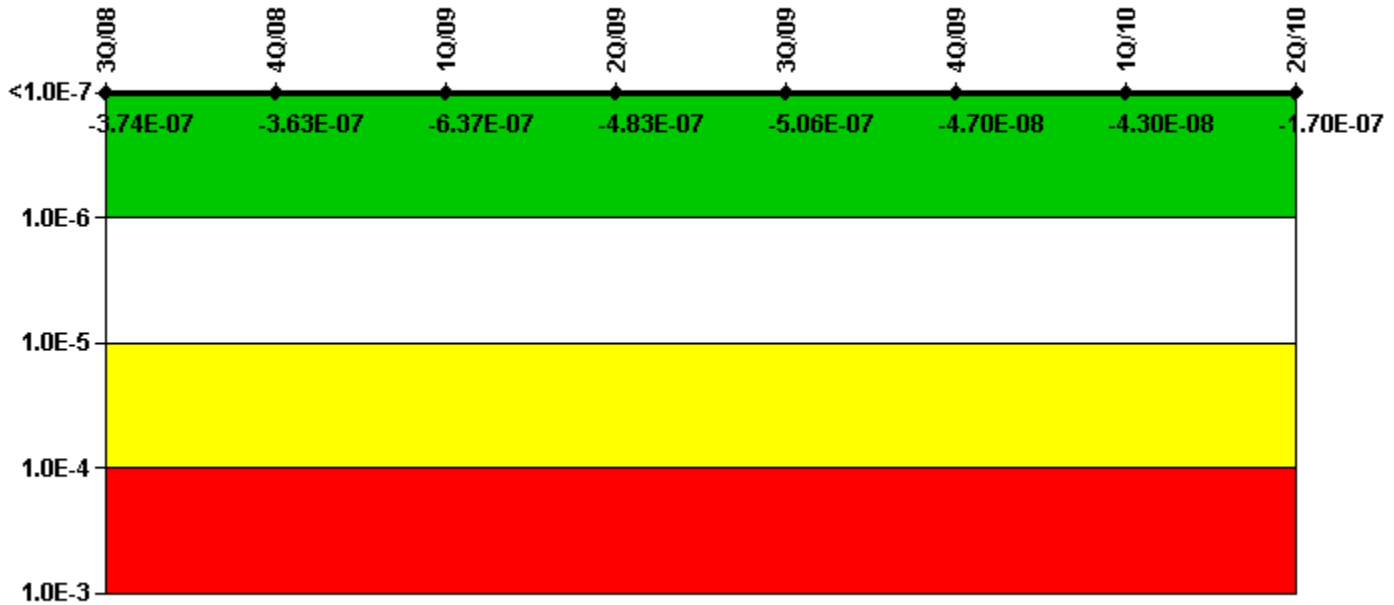
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
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



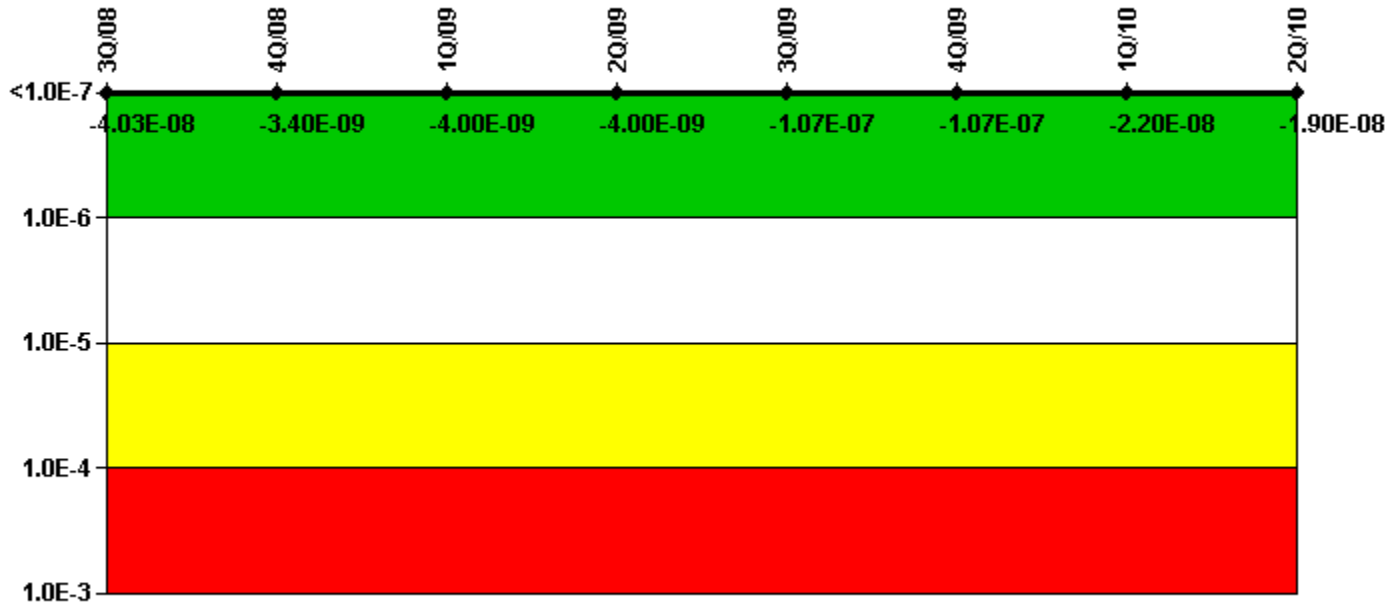
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	5.90E-09	6.80E-09	1.30E-08	7.30E-09	2.40E-08	2.50E-08	2.30E-08	1.55E-08
URI (Δ CDF)	-3.80E-07	-3.70E-07	-6.50E-07	-4.90E-07	-5.30E-07	-7.20E-08	-6.57E-08	-1.84E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.74E-07	-3.63E-07	-6.37E-07	-4.83E-07	-5.06E-07	-4.70E-08	-4.30E-08	-1.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



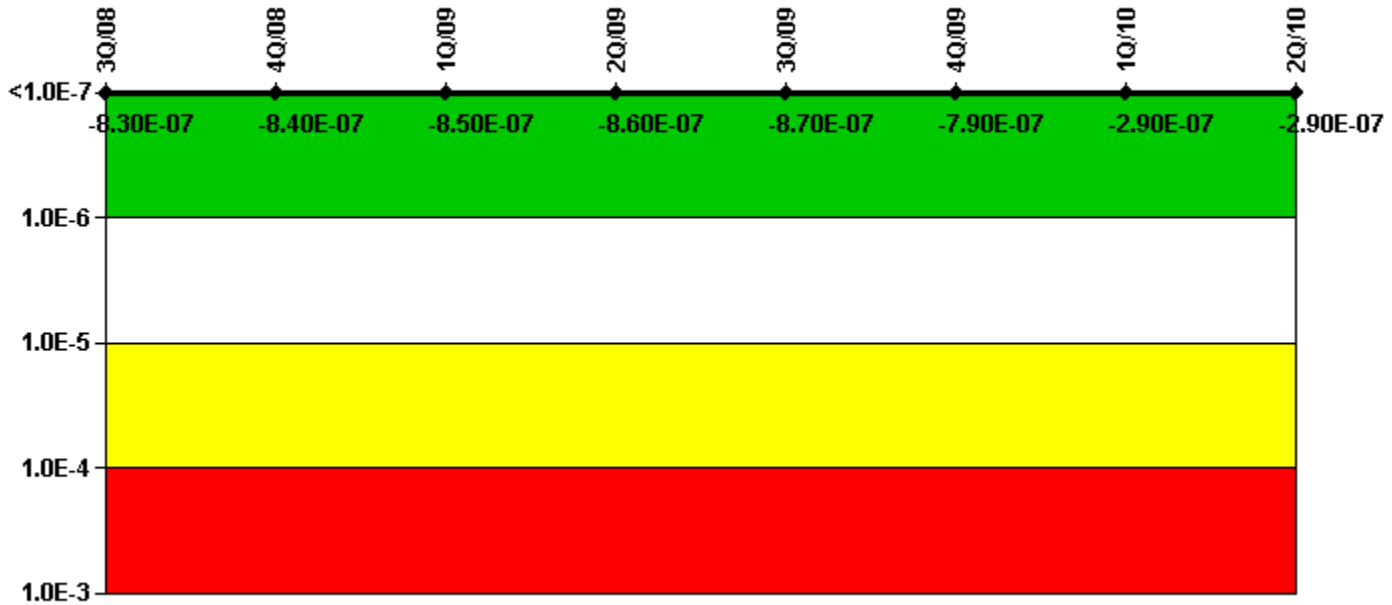
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	-3.10E-08	5.90E-09	1.10E-08	1.10E-08	-9.20E-08	-9.20E-08	-1.76E-08	-1.46E-08
URI (Δ CDF)	-9.30E-09	-9.30E-09	-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08	-4.10E-09	-4.09E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.03E-08	-3.40E-09	-4.00E-09	-4.00E-09	-1.07E-07	-1.07E-07	-2.20E-08	-1.90E-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

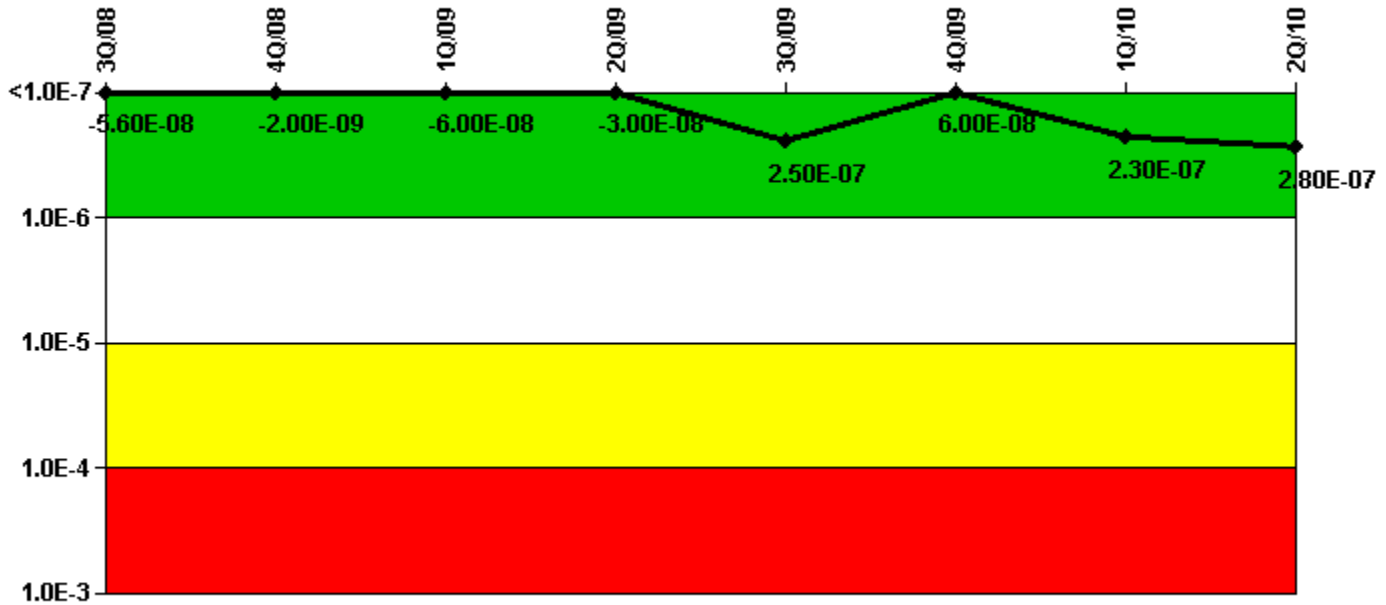
Mitigating Systems Performance Index, Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-1.31E-07	-3.61E-10	5.21E-09
URI (Δ CDF)	-6.10E-07	-6.20E-07	-6.30E-07	-6.40E-07	-6.50E-07	-6.57E-07	-2.94E-07	-2.92E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.30E-07	-8.40E-07	-8.50E-07	-8.60E-07	-8.70E-07	-7.90E-07	-2.90E-07	-2.90E-07

Licensee Comments:

1Q/10: Braidwood PRA Model Revision No: 6E1 approved July 17, 2009, revised Unit 1 and Unit 2 PRA inputs due to the design change which added an Auxiliary Feedwater (AF) cross-tie between the units. This also resulted in a new monitored AF segment, but no additional monitored components. The model was implemented following completion of A2R14 and MSPI Basis Document dated: March 5, 2010. 6/21/10 - Revised Nov 2009 2A A pump with additional 8.15 hours unavailability hours based on review of data.

4Q/09: 6/21/10 - Revised Nov 2009 2A AF pump with additional 8.15 hours unavailability hours based on review of data.

Mitigating Systems Performance Index, Residual Heat Removal System



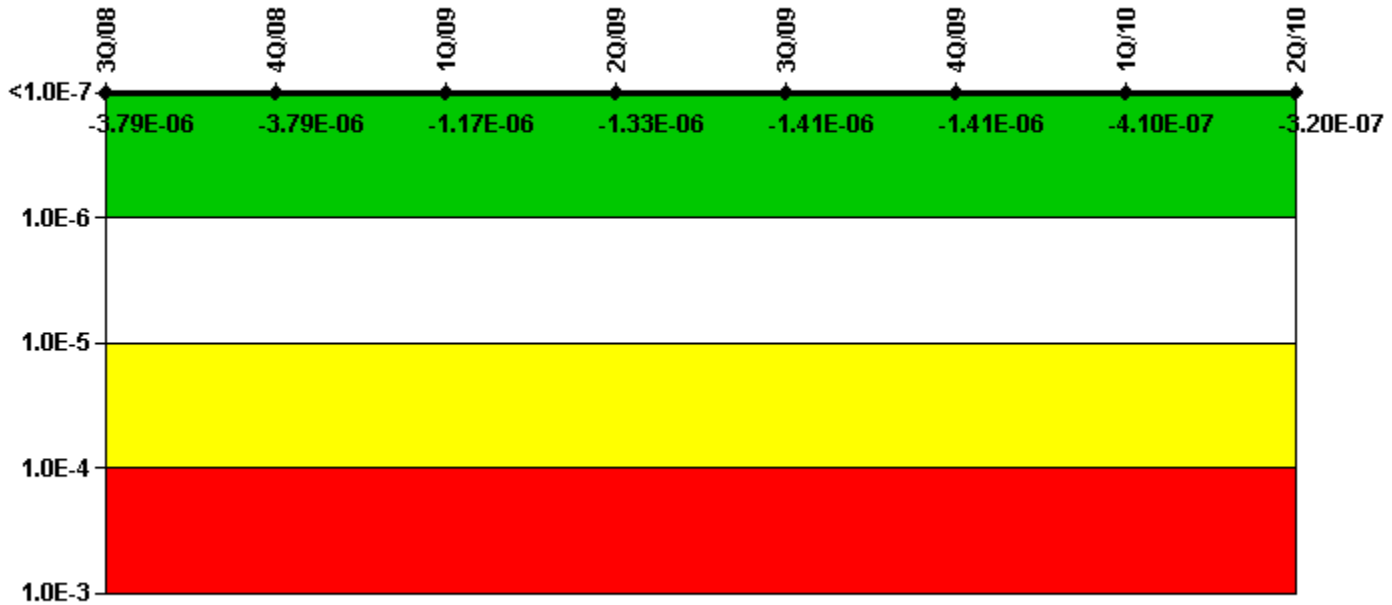
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	3.60E-08	9.20E-08	1.10E-07	1.40E-07	4.20E-07	2.30E-07	3.32E-07	3.89E-07
URI (Δ CDF)	-9.20E-08	-9.40E-08	-1.70E-07	-1.70E-07	-1.70E-07	-1.70E-07	-1.06E-07	-1.05E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.60E-08	-2.00E-09	-6.00E-08	-3.00E-08	2.50E-07	6.00E-08	2.30E-07	2.80E-07

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	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	2.10E-07	2.10E-07	1.30E-07	1.70E-07	9.00E-08	9.00E-08	1.61E-07	2.55E-07
URI (Δ CDF)	-4.00E-06	-4.00E-06	-1.30E-06	-1.50E-06	-1.50E-06	-1.50E-06	-5.70E-07	-5.72E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.79E-06	-3.79E-06	-1.17E-06	-1.33E-06	-1.41E-06	-1.41E-06	-4.10E-07	-3.20E-07

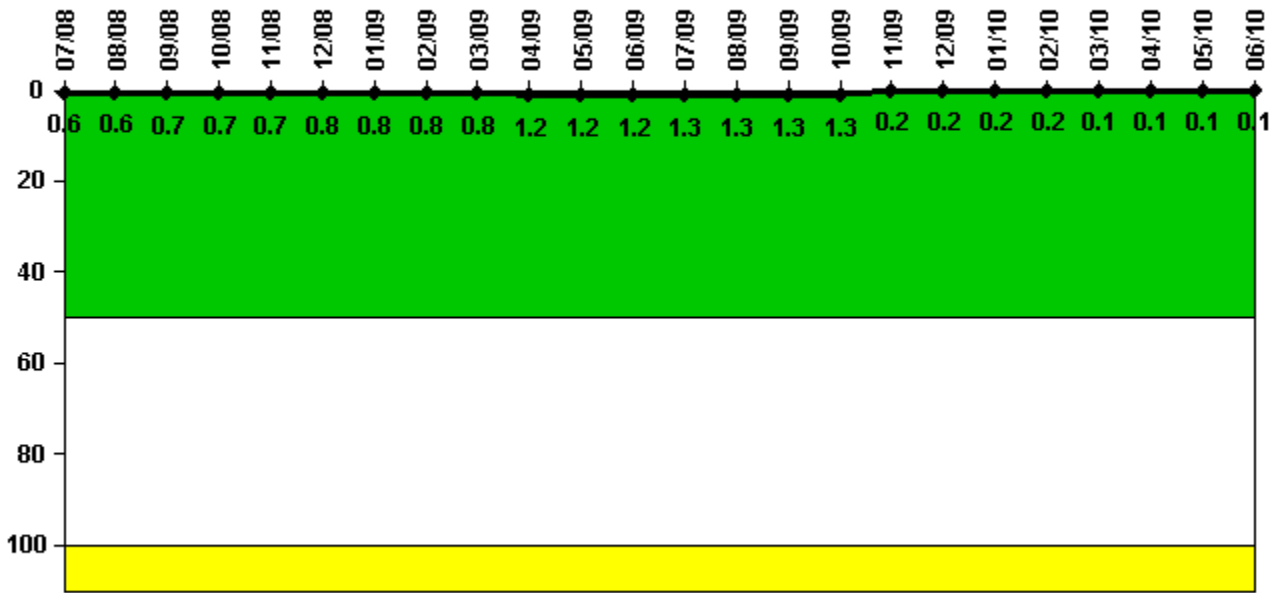
Licensee Comments:

4Q/06: Risk Cap Invoked. 3/31/07 - PRA parameters changed based on updates made to system unavailability and demand/run time data. 6/17/10 Unavailability changed due to adding a 1/9/04 Failure Record #975 for switch 2PS-0673B to data base.

3Q/06: Risk Cap Invoked. 3/31/07 - PRA parameters changed based on updates made to system unavailability and demand/run time data. 6/17/10 Unavailability changed due to adding a 1/9/04 Failure Record #975 for switch 2PS-0673B to data base.

2Q/06: Risk Cap Invoked. 3/31/07 - PRA parameters changed based on updates made to system unavailability and demand/run time data. 6/17/10 Unavailability changed due to adding a 1/9/04 Failure Record #975 for switch 2PS-0673B to data base.

Reactor Coolant System Activity



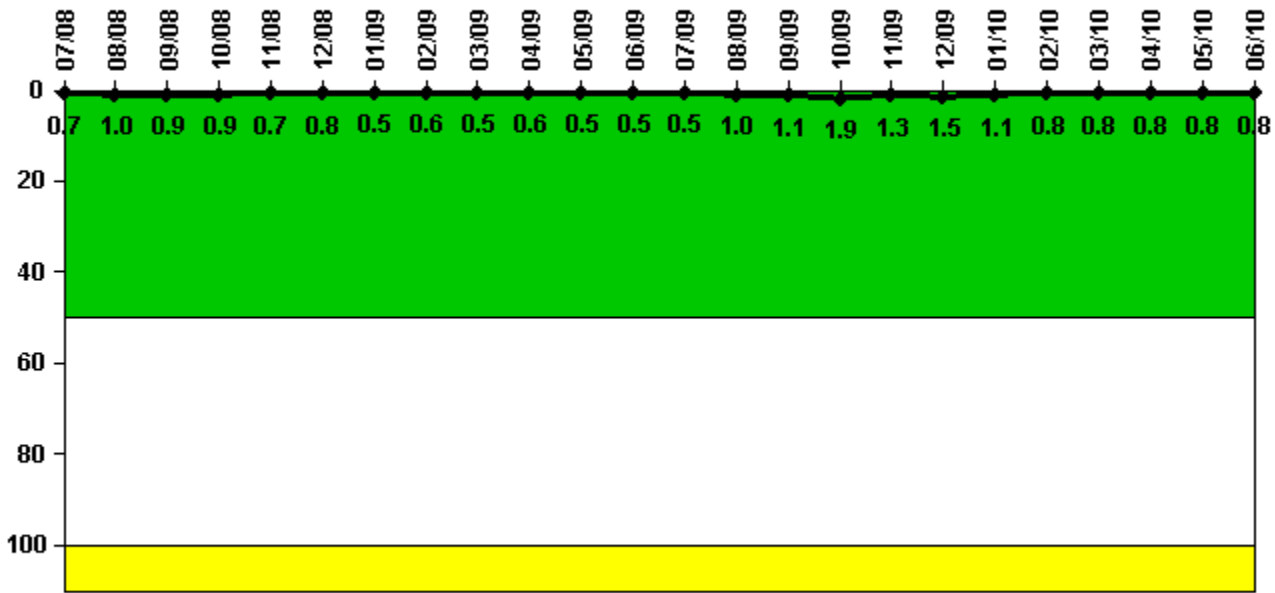
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.005880	0.006260	0.007050	0.006880	0.007080	0.007670	0.007790	0.007950	0.008320	0.012300	0.011500	0.011700
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	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	1.2	1.2	1.2
Reactor Coolant System Activity	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum activity	0.012700	0.013400	0.012700	0.012700	0.001740	0.001840	0.001910	0.001950	0.001190	0.001210	0.001200	0.001270
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	1.3	1.3	1.3	1.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



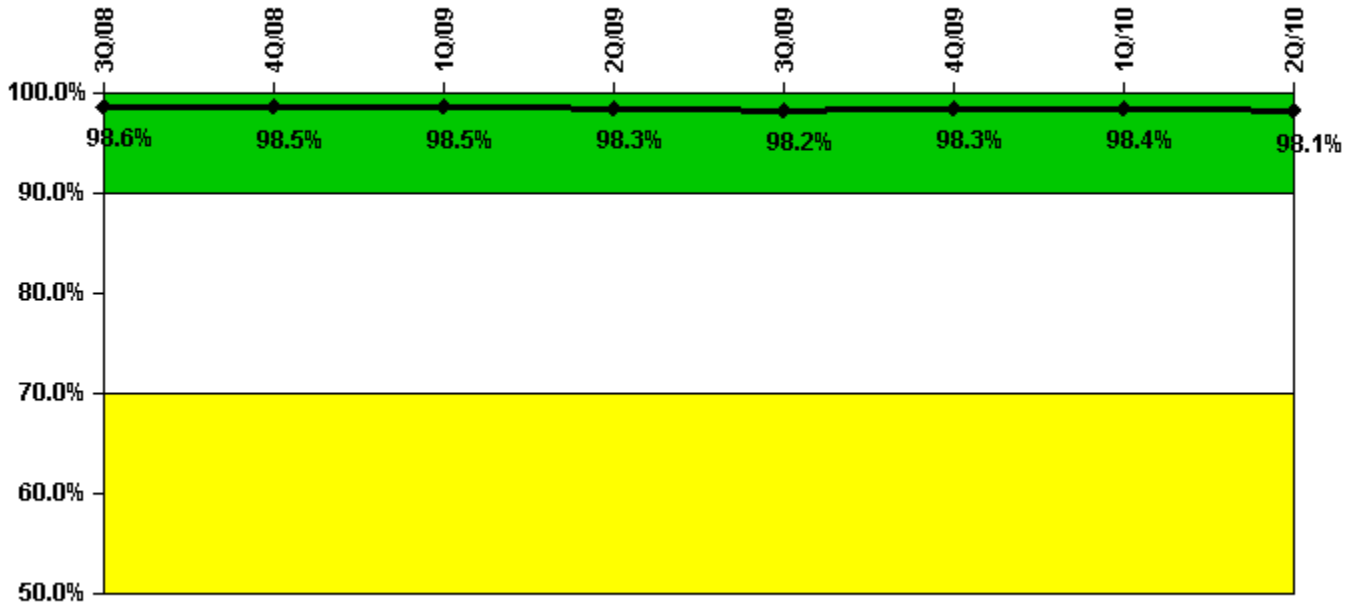
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum leakage	0.065	0.100	0.094	0.088	0.071	0.081	0.054	0.060	0.053	0.064	0.051	0.046
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	1.0	0.9	0.9	0.7	0.8	0.5	0.6	0.5	0.6	0.5	0.5
Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	0.050	0.098	0.109	0.190	0.133	0.147	0.106	0.082	0.079	0.083	0.076	0.077
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	0.5	1.0	1.1	1.9	1.3	1.5	1.1	0.8	0.8	0.8	0.8	0.8

Licensee Comments: none

Drill/Exercise Performance



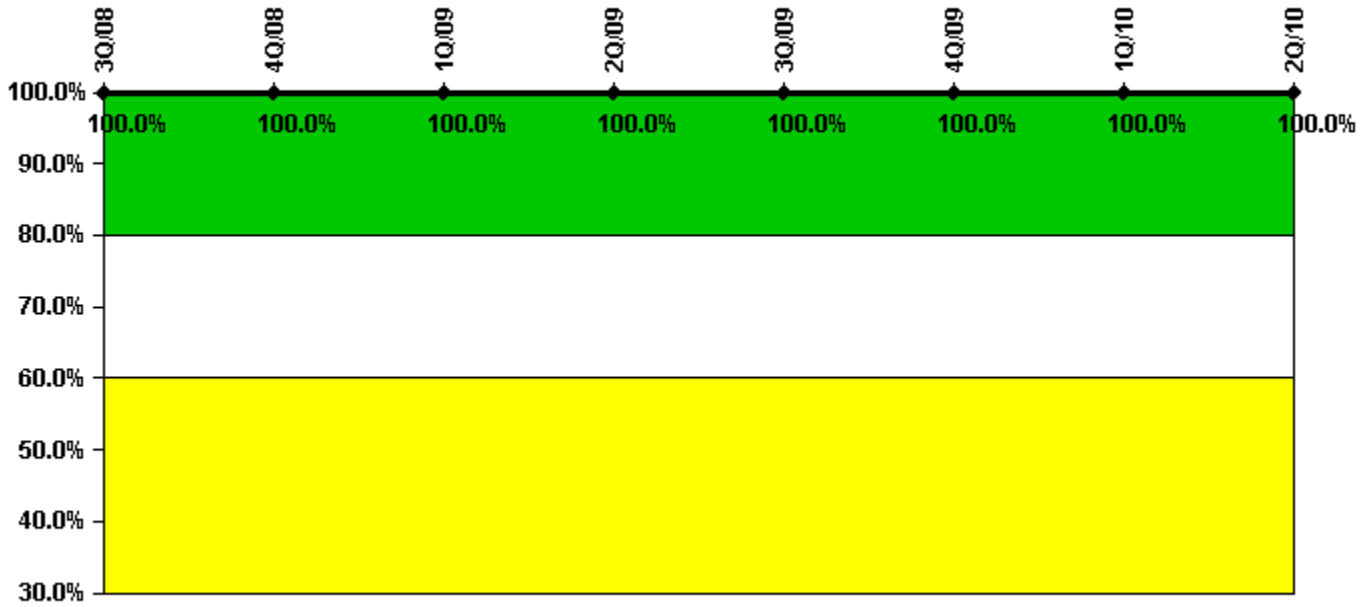
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful opportunities	134.0	45.0	24.0	47.0	117.0	0	30.0	27.0
Total opportunities	136.0	46.0	24.0	48.0	118.0	0	32.0	28.0
Indicator value	98.6%	98.5%	98.5%	98.3%	98.2%	98.3%	98.4%	98.1%

Licensee Comments: none

ERO Drill Participation



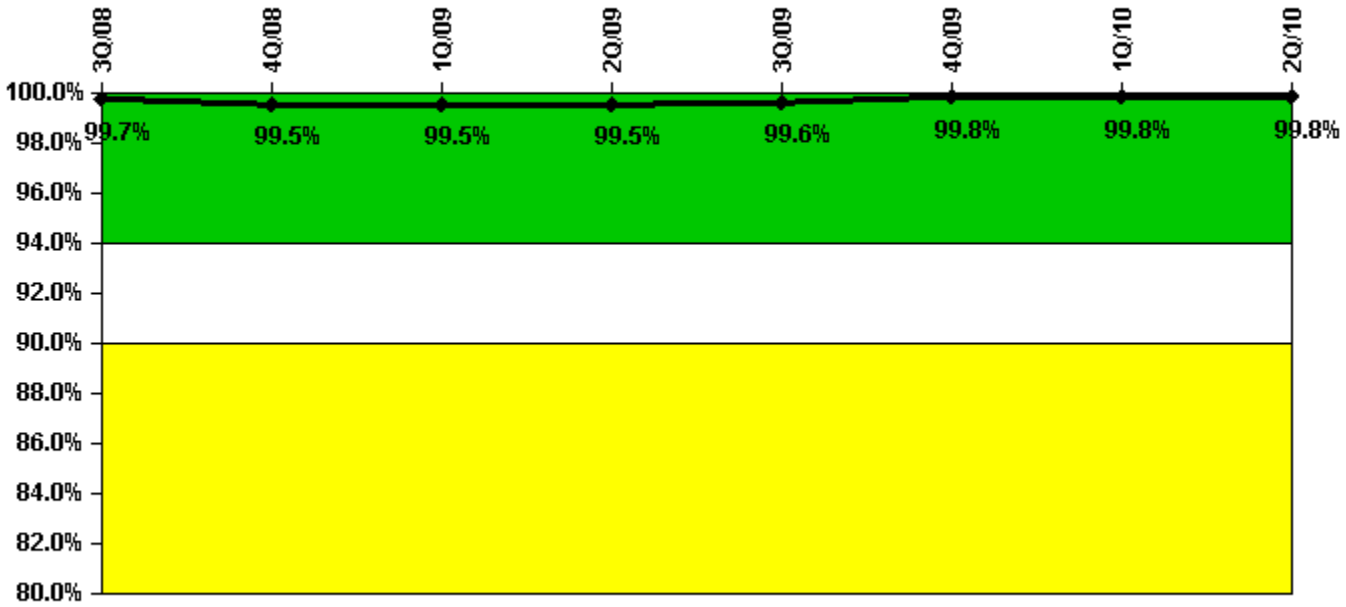
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Participating Key personnel	67.0	65.0	68.0	69.0	71.0	73.0	67.0	70.0
Total Key personnel	67.0	65.0	68.0	69.0	71.0	73.0	67.0	70.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



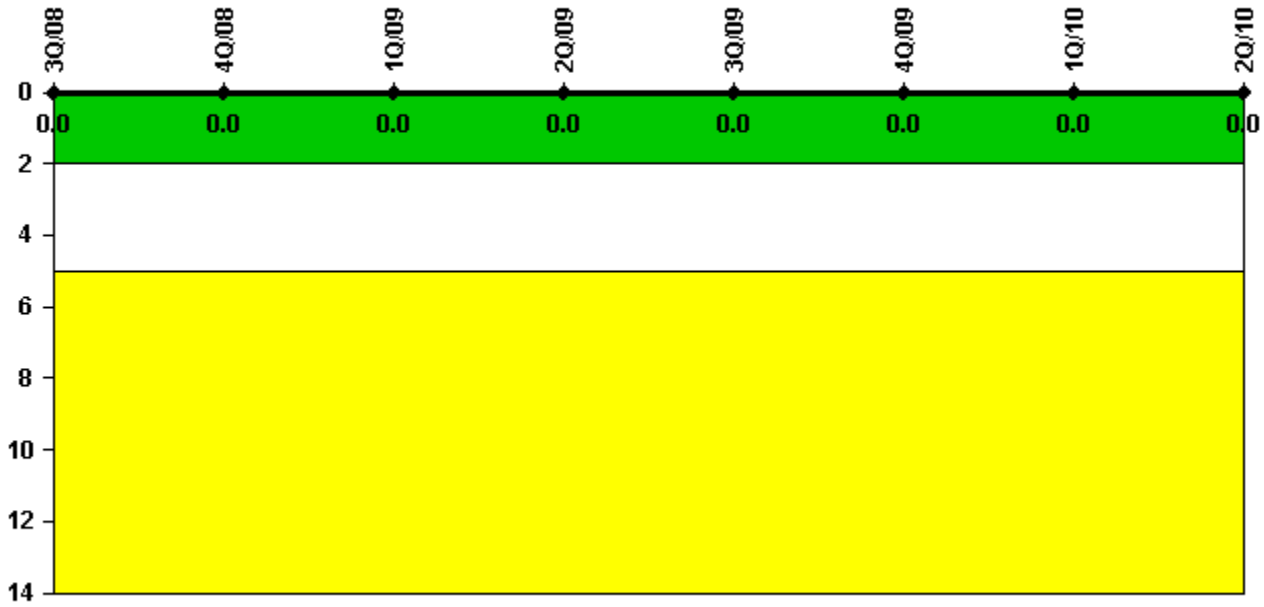
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	4516	4438	4405	4463	4544	4467	3020	3058
Total sirens-tests	4550	4480	4410	4480	4550	4480	3024	3072
Indicator value	99.7%	99.5%	99.5%	99.5%	99.6%	99.8%	99.8%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



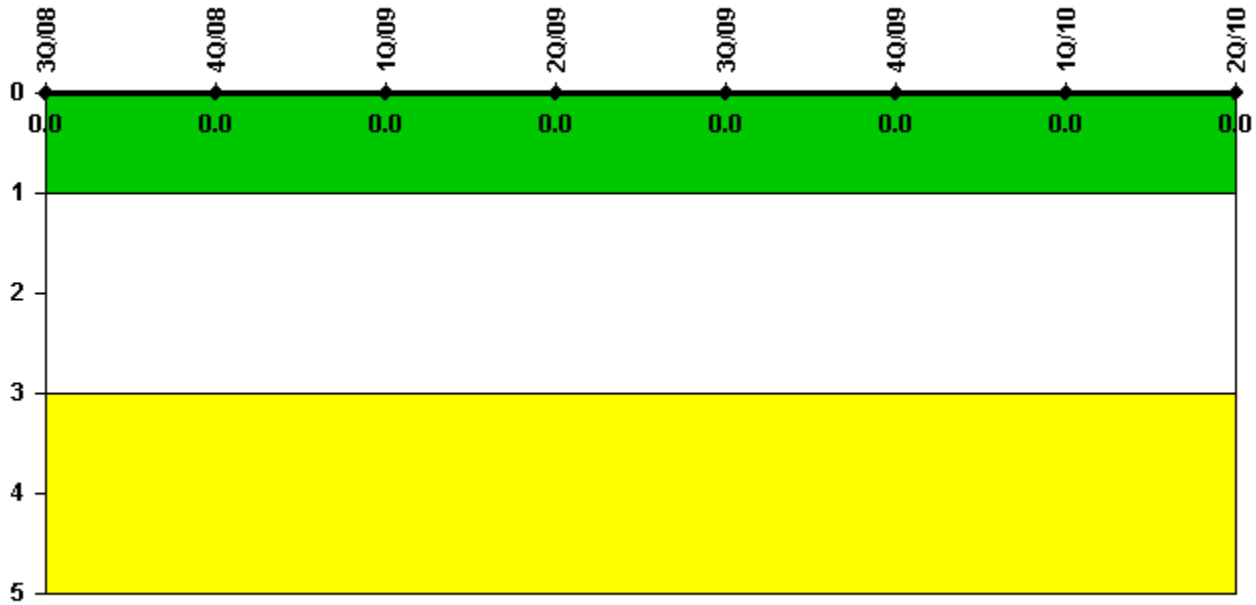
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/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	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/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.