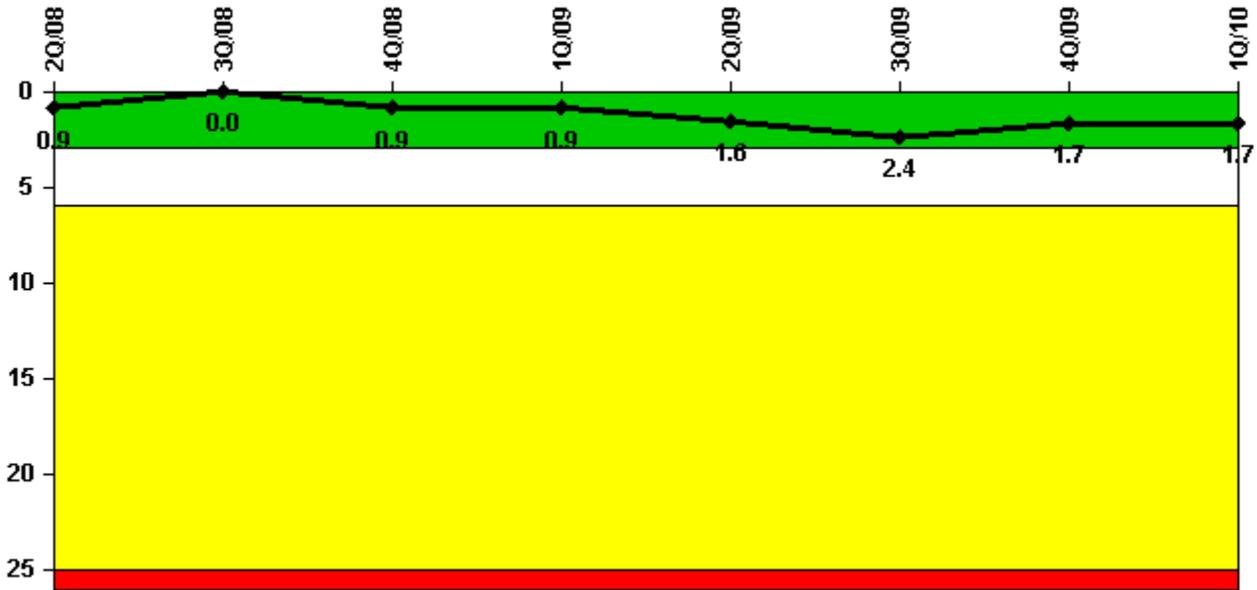


Braidwood 2

1Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



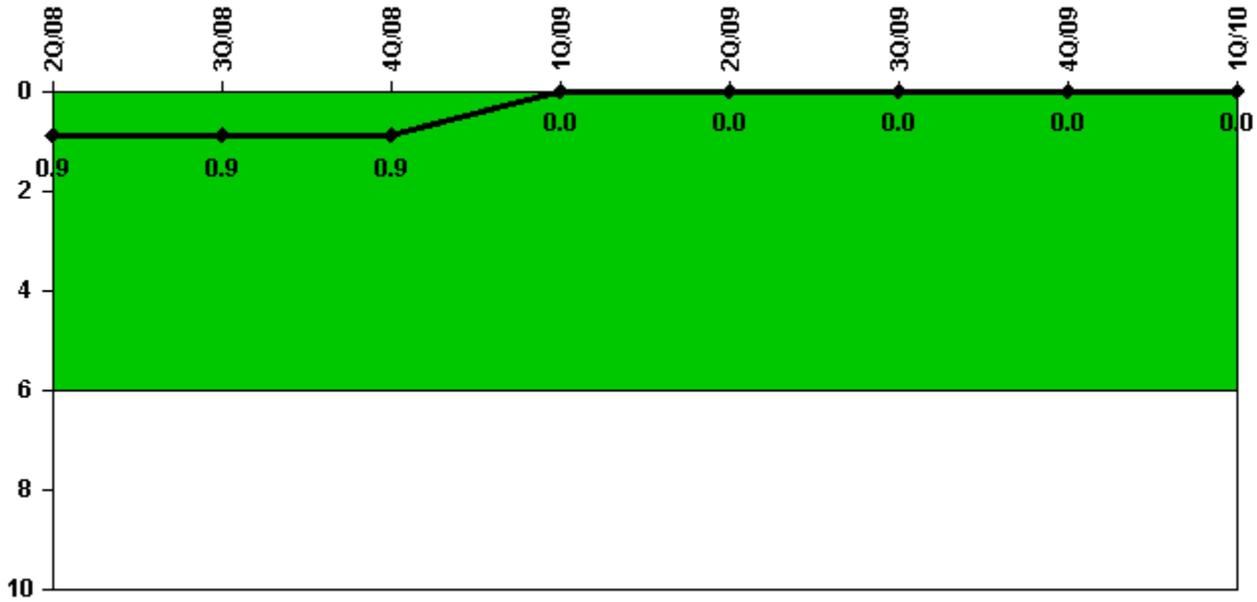
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	0	0	1.0	0	1.0	1.0	0	0
Critical hours	1567.6	2208.0	2174.3	2159.0	2157.5	2093.0	1744.4	2159.0
Indicator value	0.9	0	0.9	0.9	1.6	2.4	1.7	1.7

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



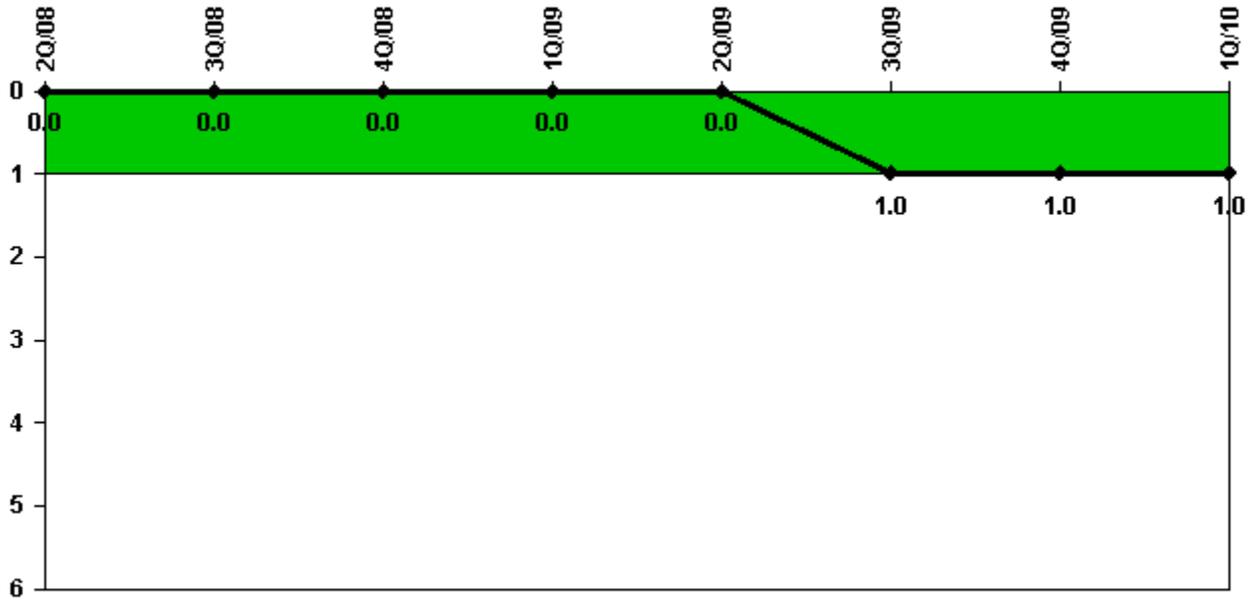
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1567.6	2208.0	2174.3	2159.0	2157.5	2093.0	1744.4	2159.0
Indicator value	0.9	0.9	0.9	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



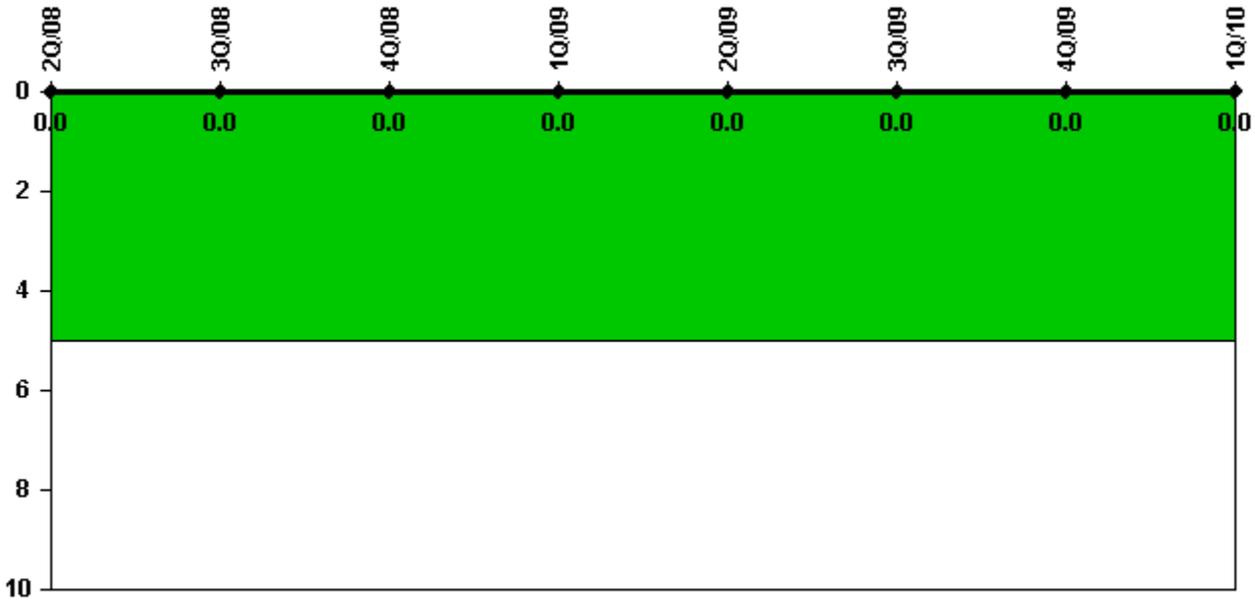
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



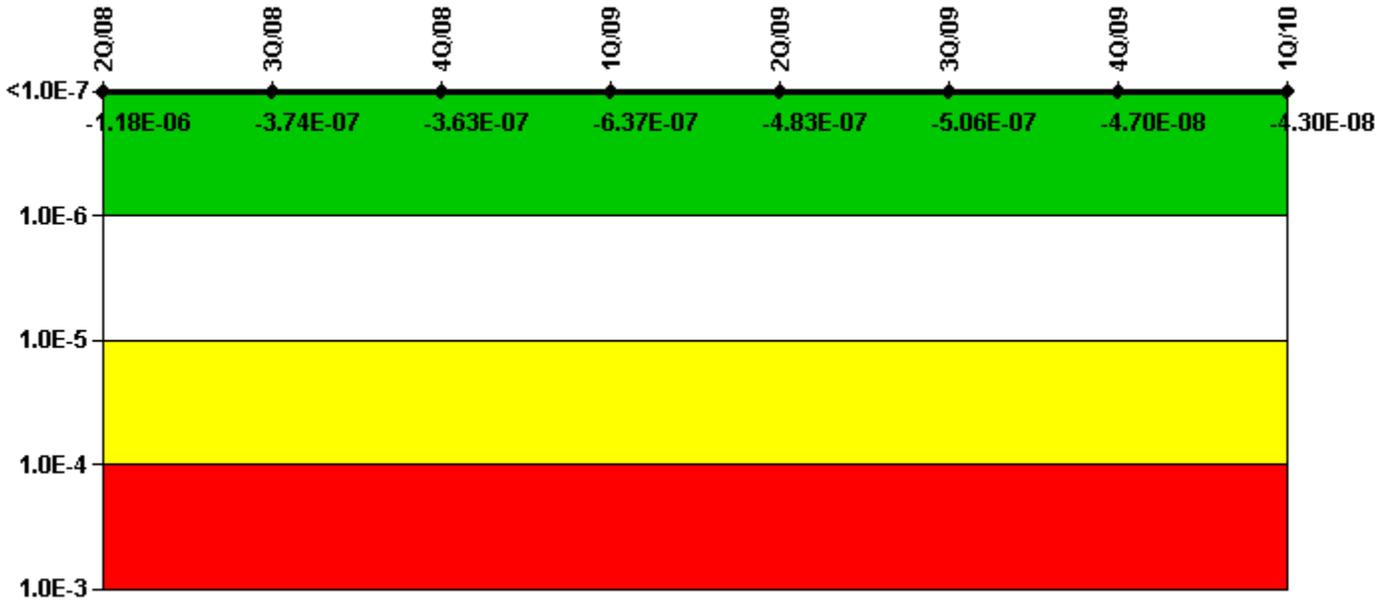
Thresholds: White > 5.0

Notes

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

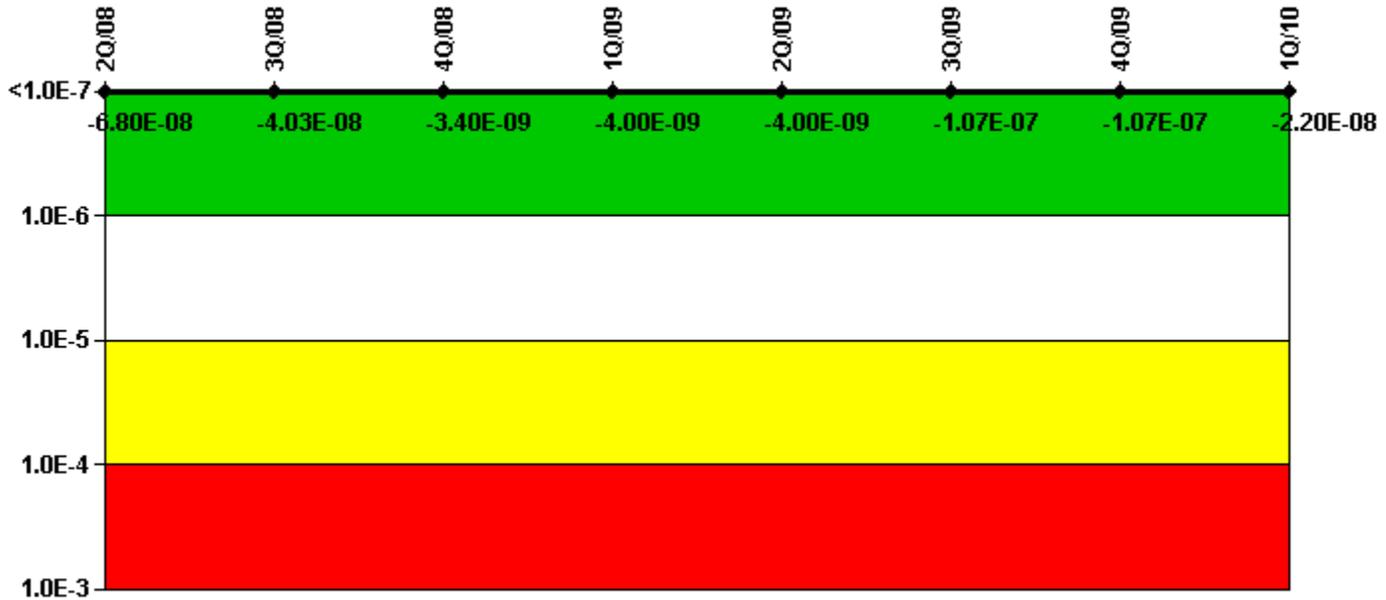
Mitigating Systems Performance Index, Emergency AC Power System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	2.40E-08	5.90E-09	6.80E-09	1.30E-08	7.30E-09	2.40E-08	2.50E-08	2.30E-08
URI (Δ CDF)	-1.20E-06	-3.80E-07	-3.70E-07	-6.50E-07	-4.90E-07	-5.30E-07	-7.20E-08	-6.57E-08
PLE	NO							
Indicator value	-1.18E-06	-3.74E-07	-3.63E-07	-6.37E-07	-4.83E-07	-5.06E-07	-4.70E-08	-4.30E-08

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

2Q/07: Risk Cap Invoked. 10/16/08 - Changes to historical data resulted in changes to the Unreliability Index. 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

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

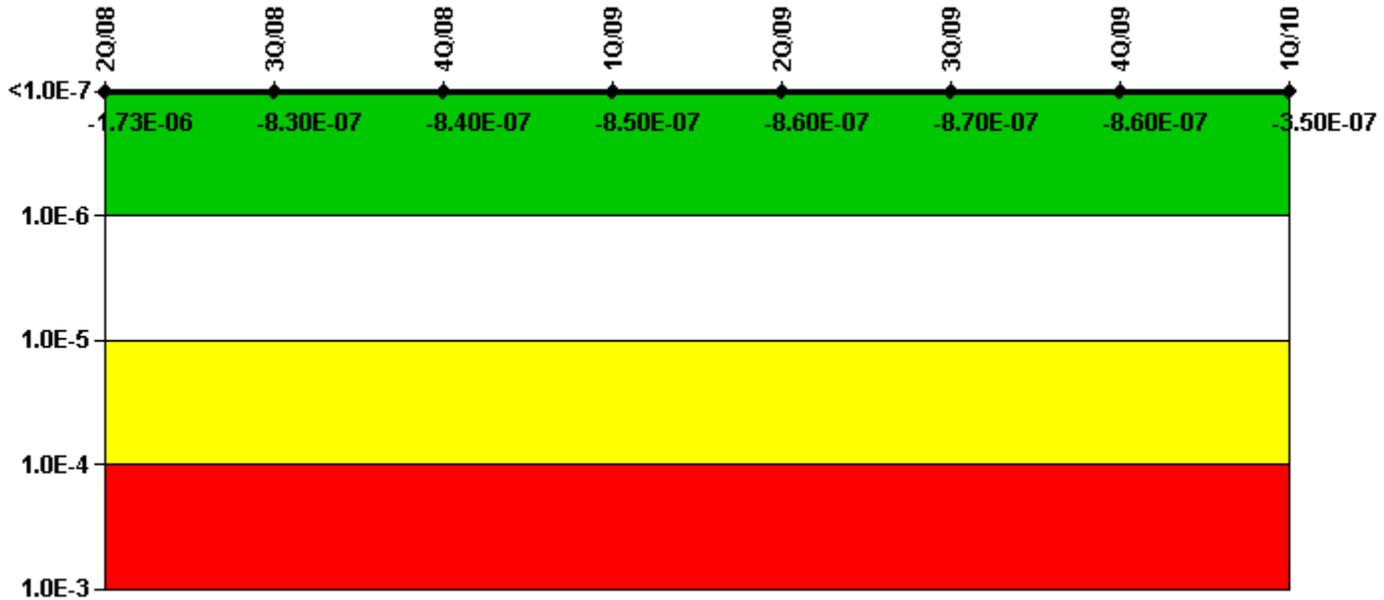
Mitigating Systems Performance Index, High Pressure Injection System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-5.40E-08	-3.10E-08	5.90E-09	1.10E-08	1.10E-08	-9.20E-08	-9.20E-08	-1.76E-08
URI (Δ CDF)	-1.40E-08	-9.30E-09	-9.30E-09	-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08	-4.10E-09
PLE	NO							
Indicator value	-6.80E-08	-4.03E-08	-3.40E-09	-4.00E-09	-4.00E-09	-1.07E-07	-1.07E-07	-2.20E-08

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

2Q/07: 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

Mitigating Systems Performance Index, Heat Removal System



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

Notes

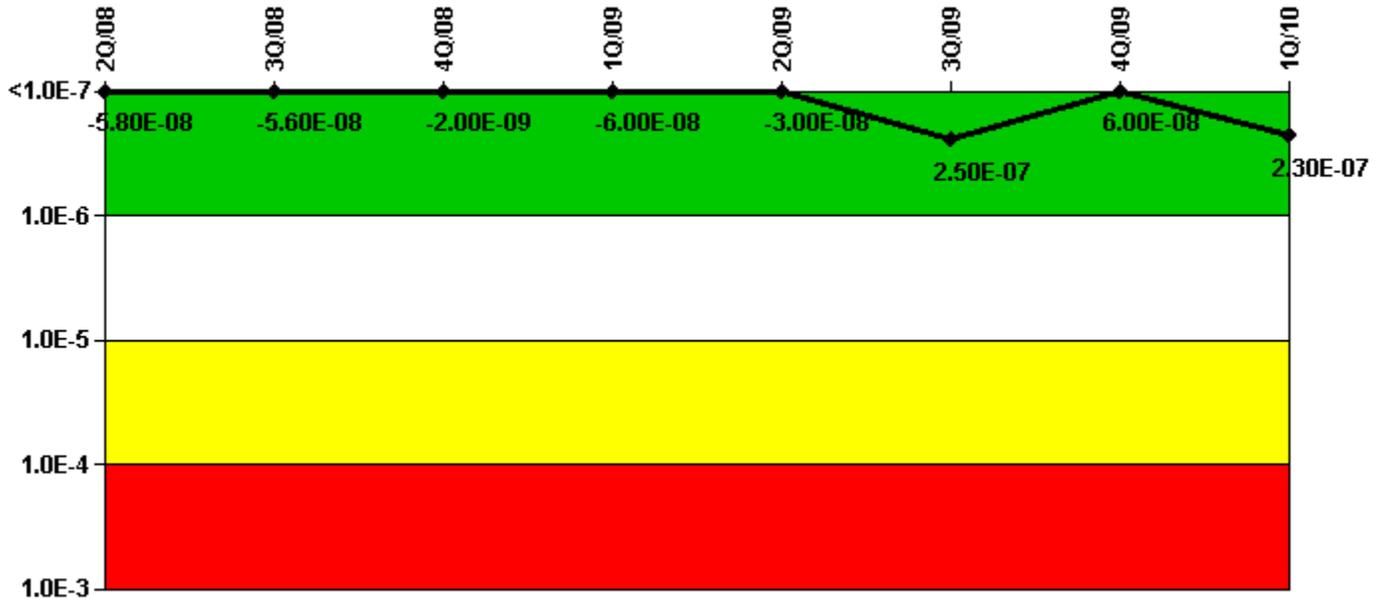
Mitigating Systems Performance Index, Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-6.30E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.00E-07	-5.19E-08
URI (Δ CDF)	-1.10E-06	-6.10E-07	-6.20E-07	-6.30E-07	-6.40E-07	-6.50E-07	-6.60E-07	-2.94E-07
PLE	NO							
Indicator value	-1.73E-06	-8.30E-07	-8.40E-07	-8.50E-07	-8.60E-07	-8.70E-07	-8.60E-07	-3.50E-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

2Q/07: 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

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

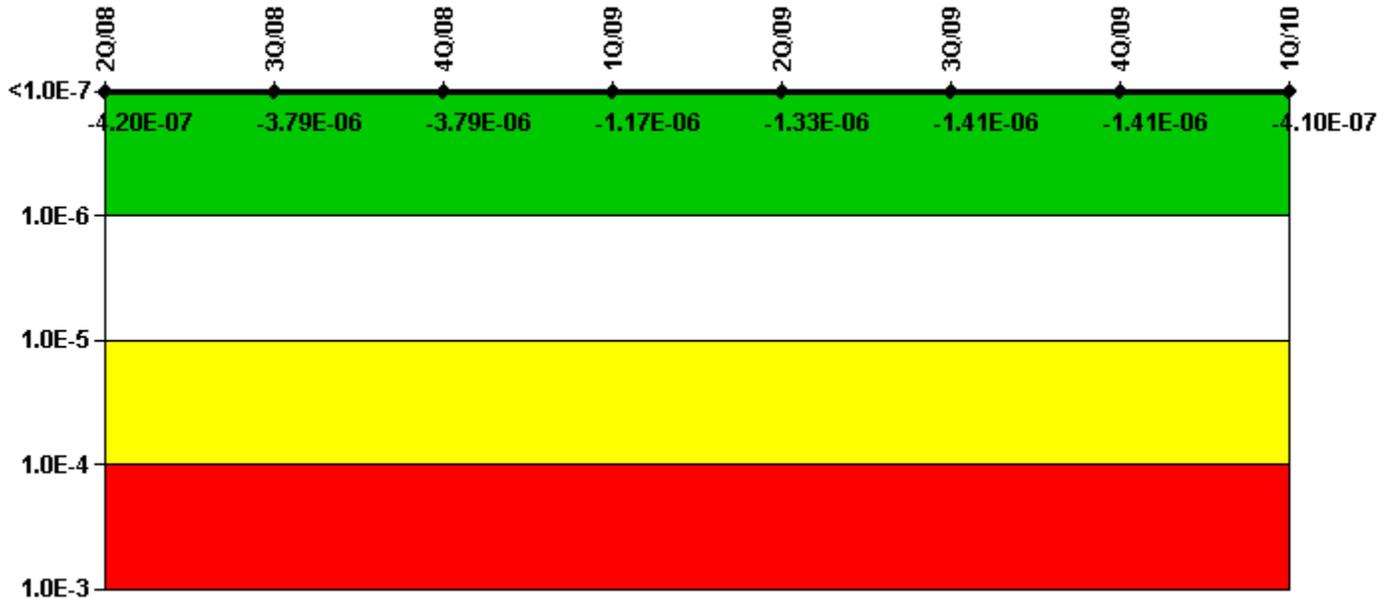
Mitigating Systems Performance Index, Residual Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	7.20E-08	3.60E-08	9.20E-08	1.10E-07	1.40E-07	4.20E-07	2.30E-07	3.32E-07
URI (Δ CDF)	-1.30E-07	-9.20E-08	-9.40E-08	-1.70E-07	-1.70E-07	-1.70E-07	-1.70E-07	-1.06E-07
PLE	NO							
Indicator value	-5.80E-08	-5.60E-08	-2.00E-09	-6.00E-08	-3.00E-08	2.50E-07	6.00E-08	2.30E-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

2Q/07: 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

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

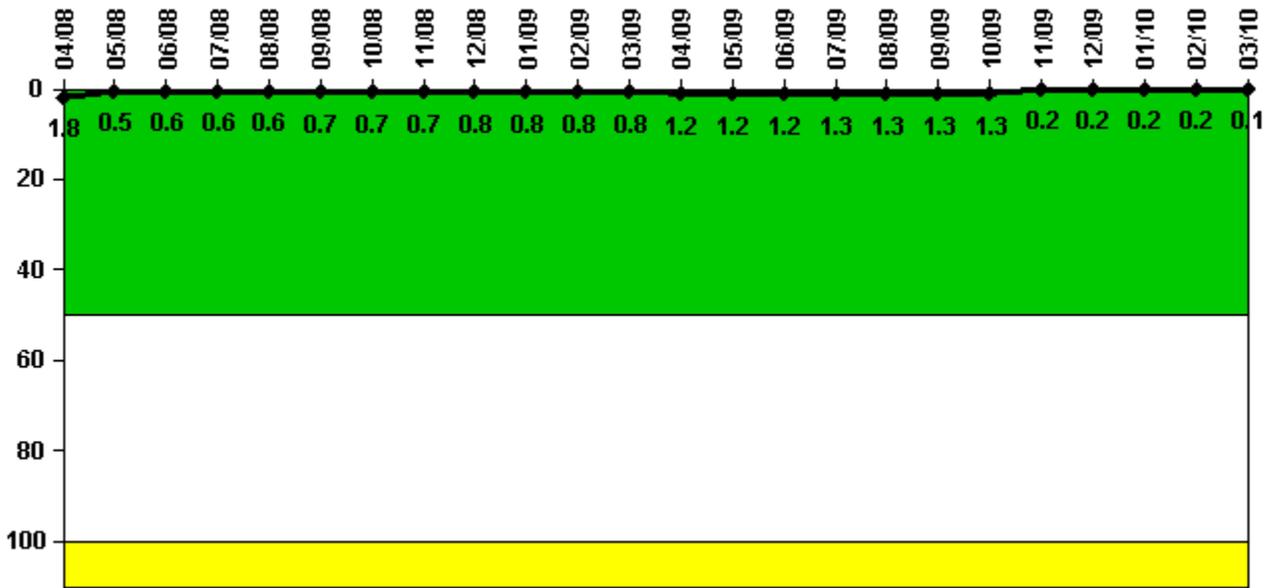
Mitigating Systems Performance Index, Cooling Water Systems	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	6.80E-07	2.10E-07	2.10E-07	1.30E-07	1.70E-07	9.00E-08	9.00E-08	1.61E-07
URI (Δ CDF)	-1.10E-06	-4.00E-06	-4.00E-06	-1.30E-06	-1.50E-06	-1.50E-06	-1.50E-06	-5.70E-07
PLE	NO							
Indicator value	-4.20E-07	-3.79E-06	-3.79E-06	-1.17E-06	-1.33E-06	-1.41E-06	-1.41E-06	-4.10E-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

2Q/07: Risk Cap Invoked. 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

Reactor Coolant System Activity



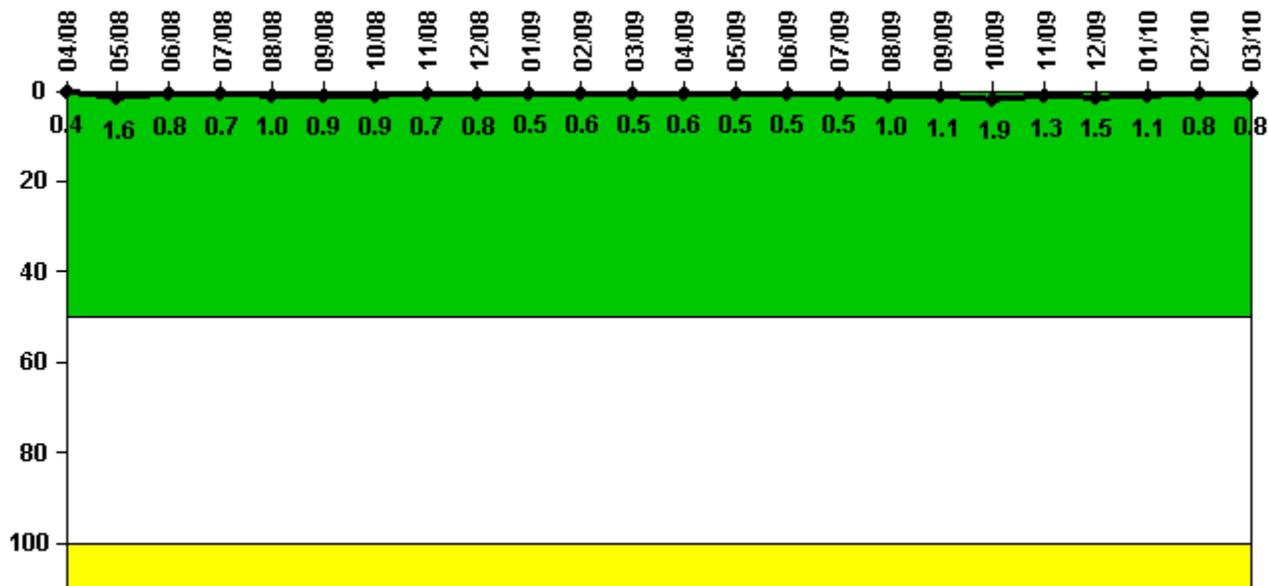
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	0.017500	0.005090	0.005760	0.005880	0.006260	0.007050	0.006880	0.007080	0.007670	0.007790	0.007950	0.008320
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	1.8	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8
Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	0.012300	0.011500	0.011700	0.012700	0.013400	0.012700	0.012700	0.001740	0.001840	0.001910	0.001950	0.001190
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	1.2	1.2	1.2	1.3	1.3	1.3	1.3	0.2	0.2	0.2	0.2	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	0.038	0.159	0.075	0.065	0.100	0.094	0.088	0.071	0.081	0.054	0.060	0.053
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	1.6	0.8	0.7	1.0	0.9	0.9	0.7	0.8	0.5	0.6	0.5
Reactor Coolant System Leakage	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum leakage	0.064	0.051	0.046	0.050	0.098	0.109	0.190	0.133	0.147	0.106	0.082	0.079
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	0.6	0.5	0.5	0.5	1.0	1.1	1.9	1.3	1.5	1.1	0.8	0.8

Licensee Comments: none

Drill/Exercise Performance



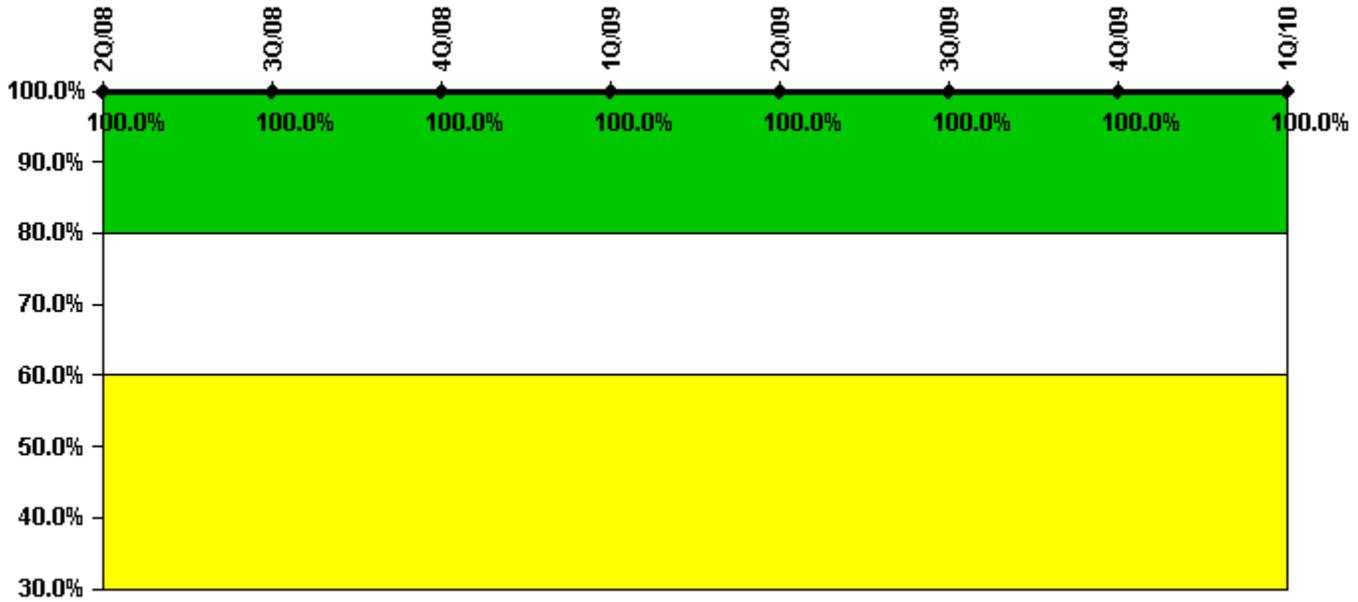
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	26.0	134.0	45.0	24.0	47.0	117.0	0	30.0
Total opportunities	26.0	136.0	46.0	24.0	48.0	118.0	0	32.0
Indicator value	98.4%	98.6%	98.5%	98.5%	98.3%	98.2%	98.3%	98.4%

Licensee Comments: none

ERO Drill Participation



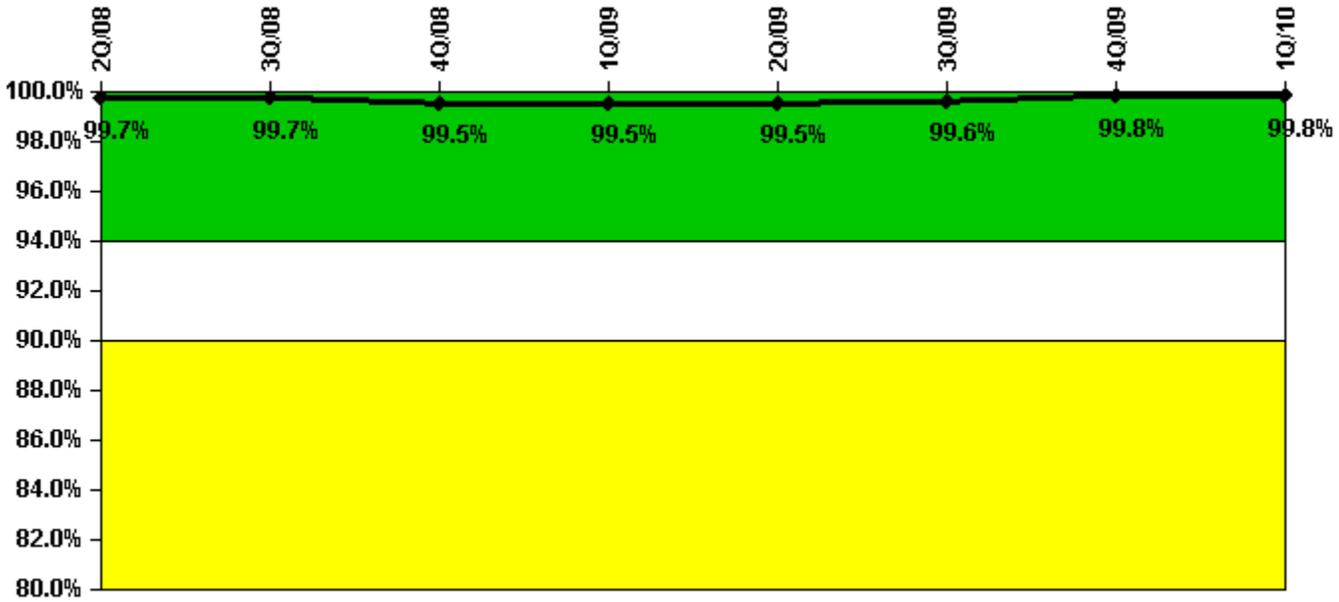
Thresholds: White < 80.0% Yellow < 60.0%

Notes

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

Licensee Comments: none

Alert & Notification System



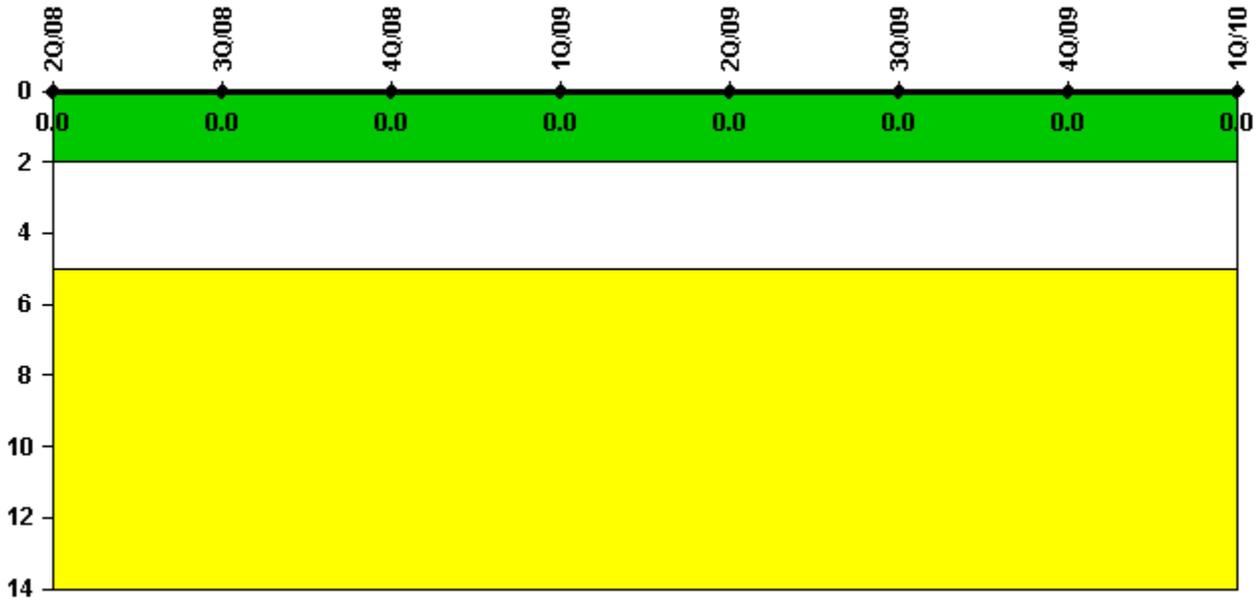
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	4465	4516	4438	4405	4463	4544	4467	3020
Total sirens-tests	4479	4550	4480	4410	4480	4550	4480	3024
Indicator value	99.7%	99.7%	99.5%	99.5%	99.5%	99.6%	99.8%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



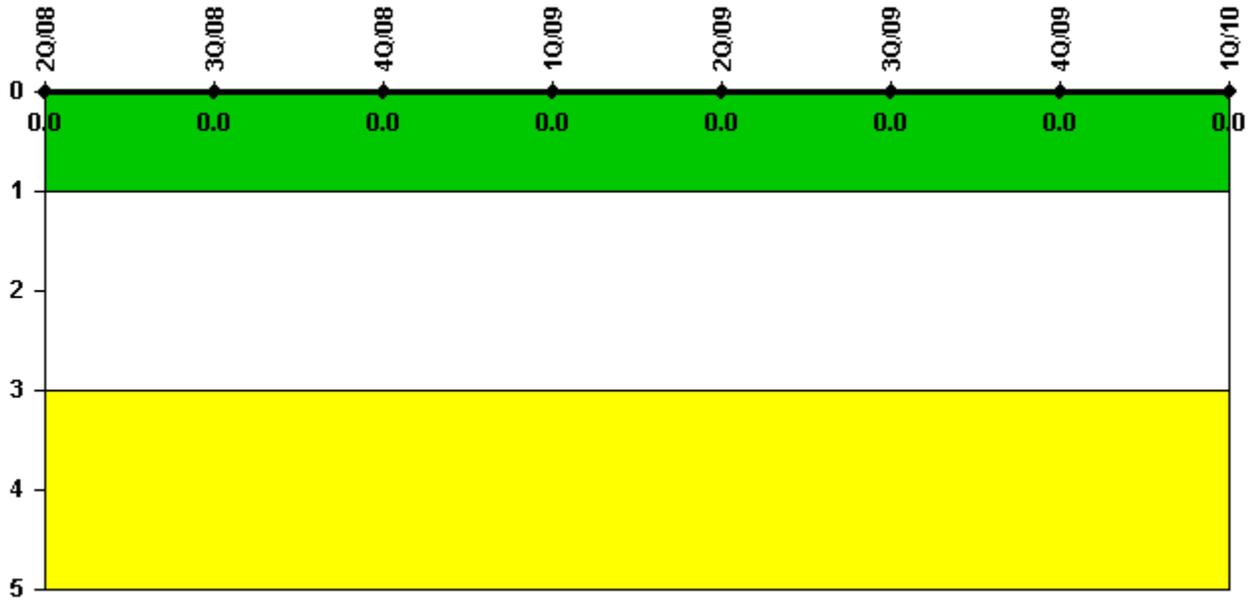
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/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.