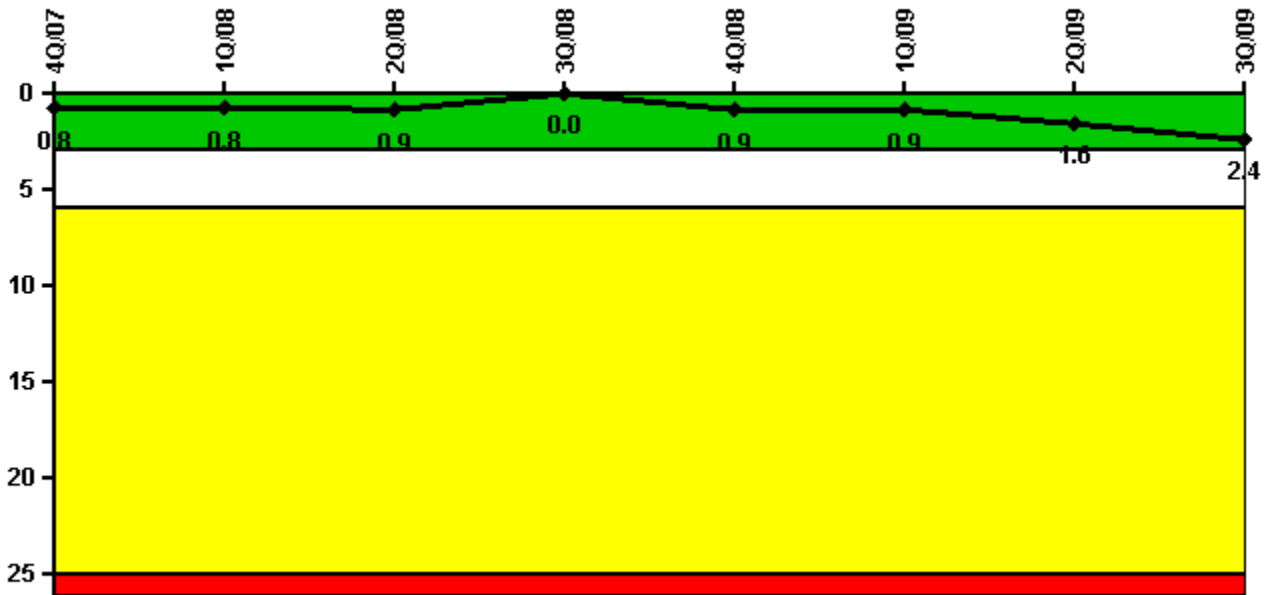


Braidwood 2

3Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

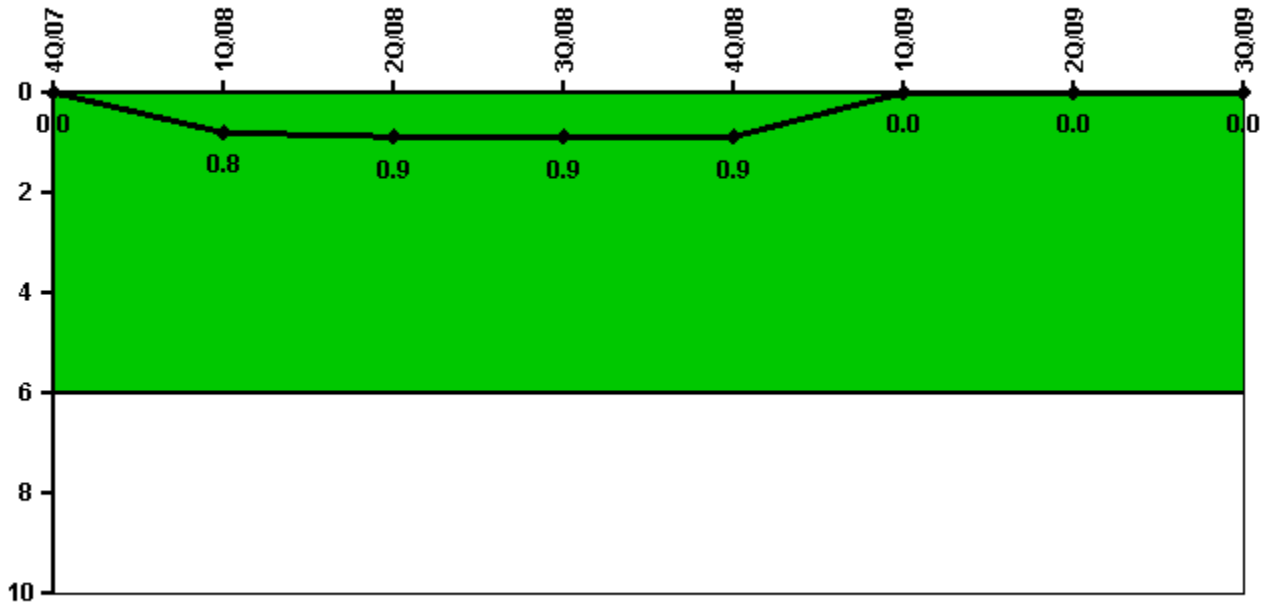
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned scrams	0	0	0	0	1.0	0	1.0	1.0
Critical hours	2209.0	2183.0	1567.6	2208.0	2174.3	2159.0	2157.5	2093.0
Indicator value	0.8	0.8	0.9	0	0.9	0.9	1.6	2.4

Licensee Comments:

3Q/09: Unit 2 Reactor Trip and Loss of Offsite Power On July 30, 2009.

Unplanned Power Changes per 7000 Critical Hrs



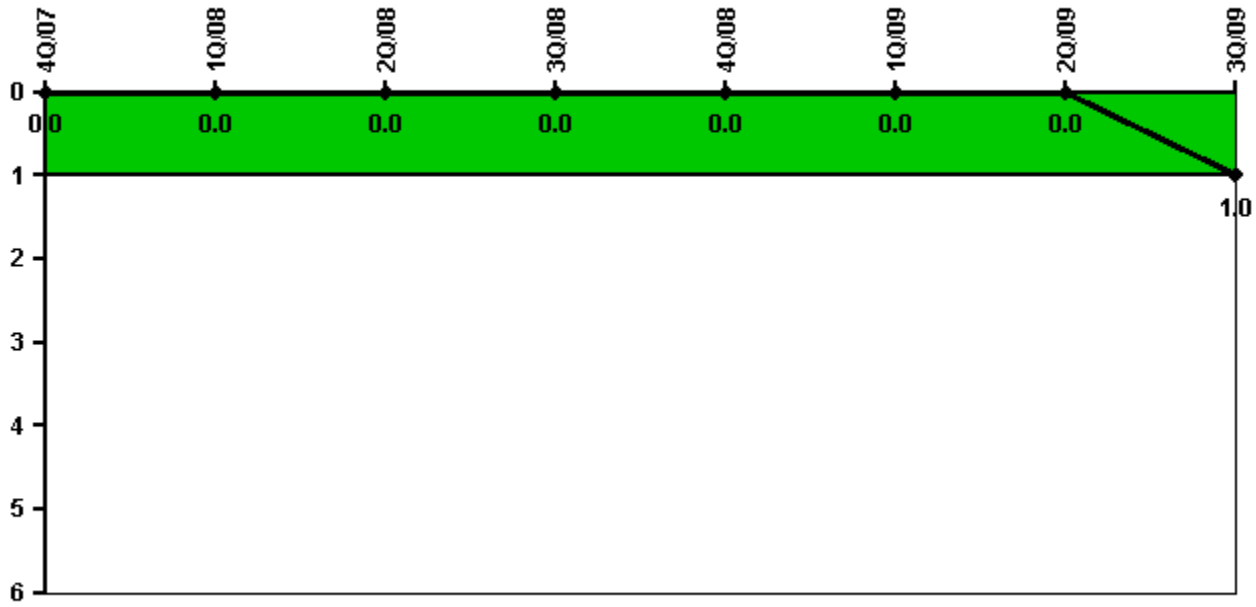
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	1567.6	2208.0	2174.3	2159.0	2157.5	2093.0
Indicator value	0	0.8	0.9	0.9	0.9	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

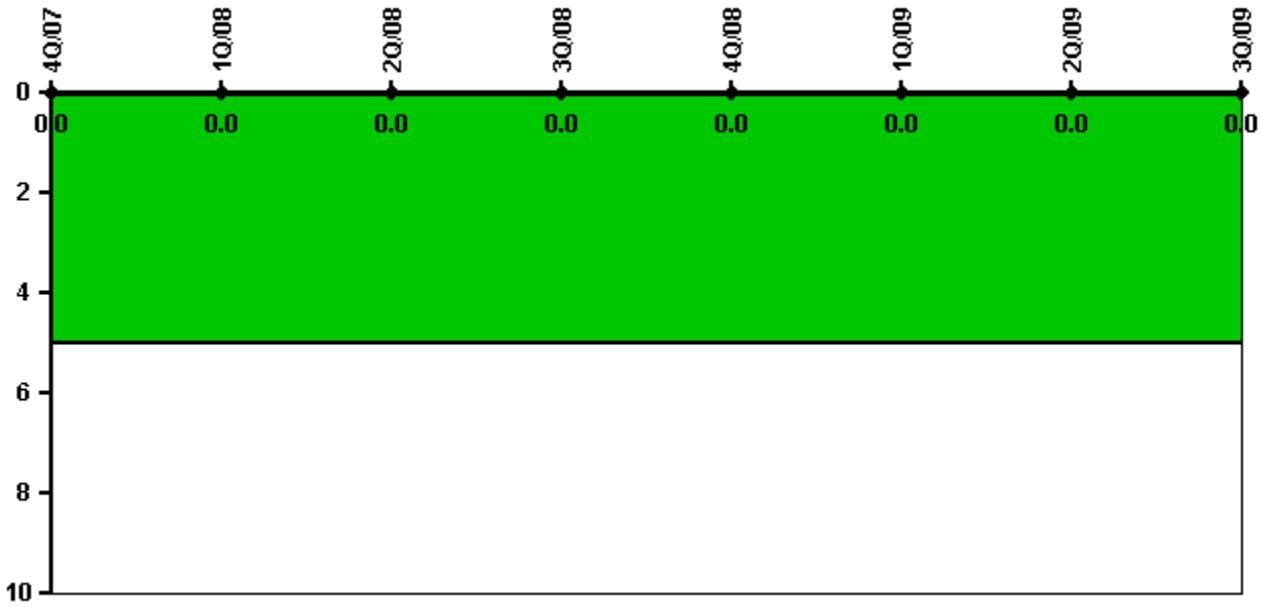
Notes

Unplanned Scrams with Complications	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Scrams with complications	0	0	0	0	0	0	0	1.0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0

Licensee Comments:

3Q/09: Unit 2 Reactor Trip and Loss of Offsite Power On July 30, 2009.

Safety System Functional Failures (PWR)



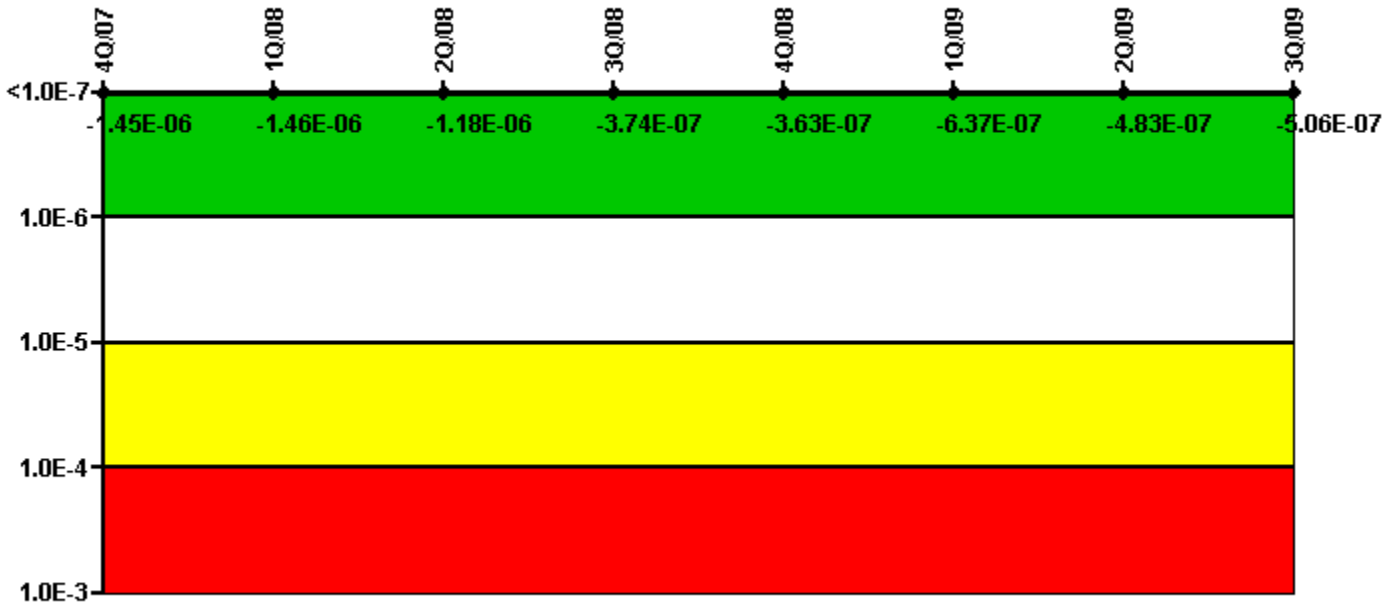
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
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



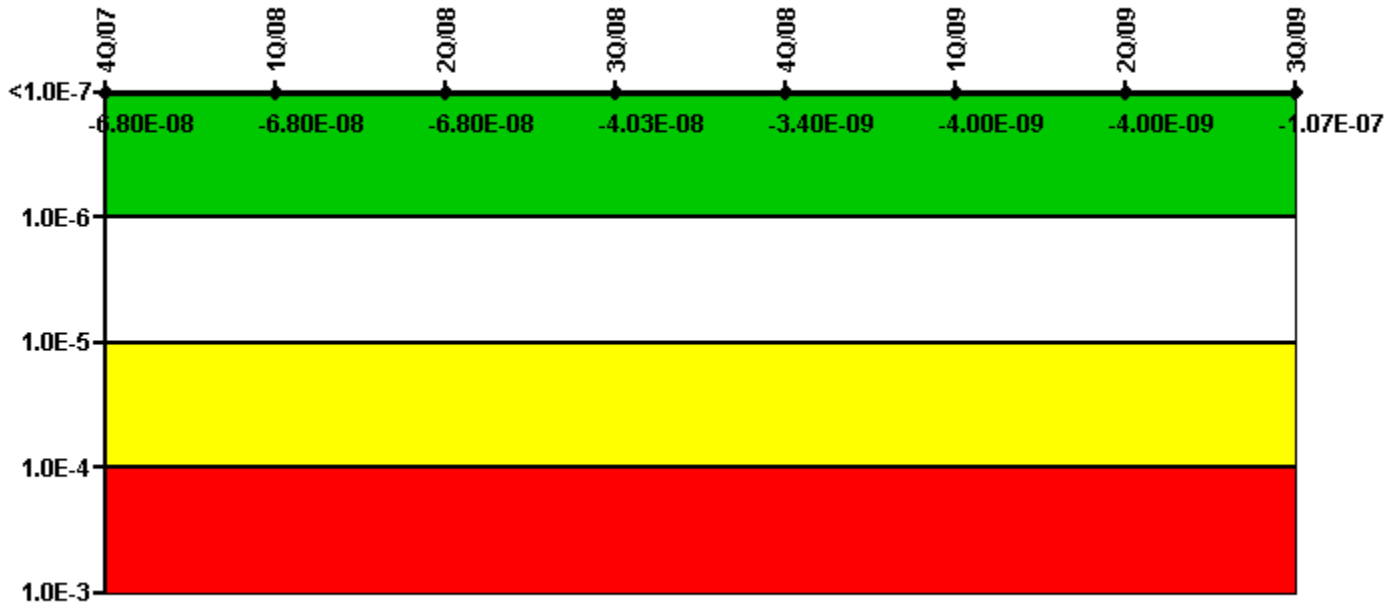
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	4.70E-08	4.00E-08	2.40E-08	5.90E-09	6.80E-09	1.30E-08	7.30E-09	2.40E-08
URI (Δ CDF)	-1.50E-06	-1.50E-06	-1.20E-06	-3.80E-07	-3.70E-07	-6.50E-07	-4.90E-07	-5.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.45E-06	-1.46E-06	-1.18E-06	-3.74E-07	-3.63E-07	-6.37E-07	-4.83E-07	-5.06E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



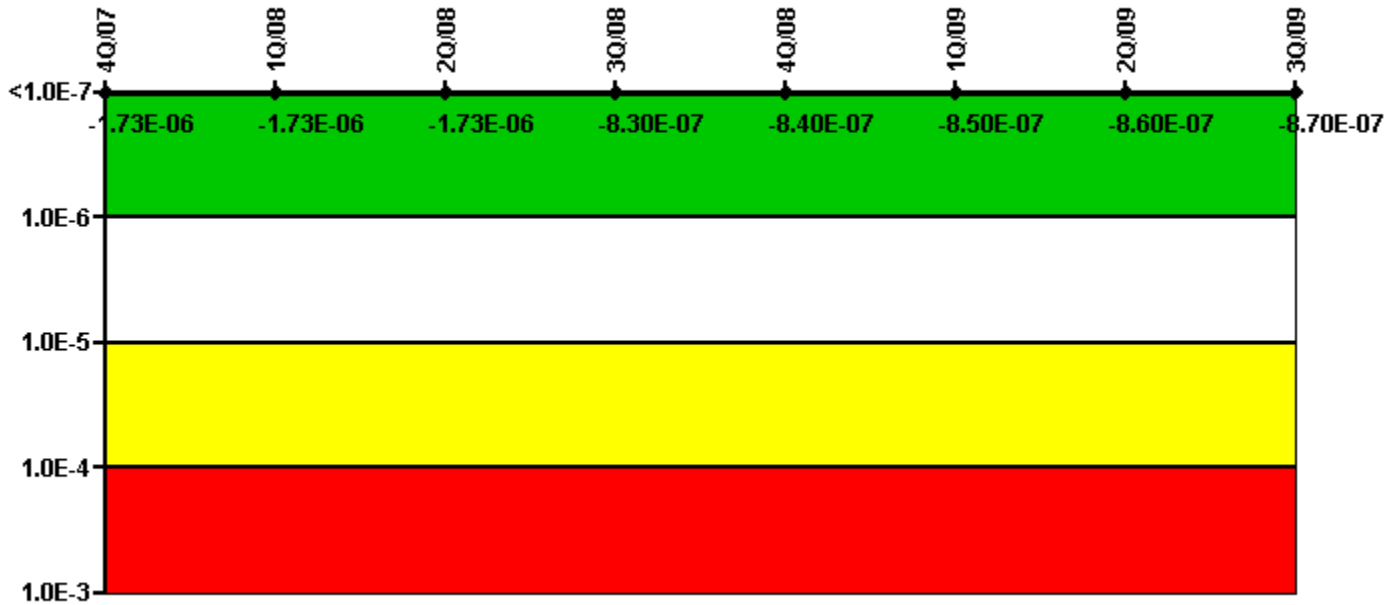
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



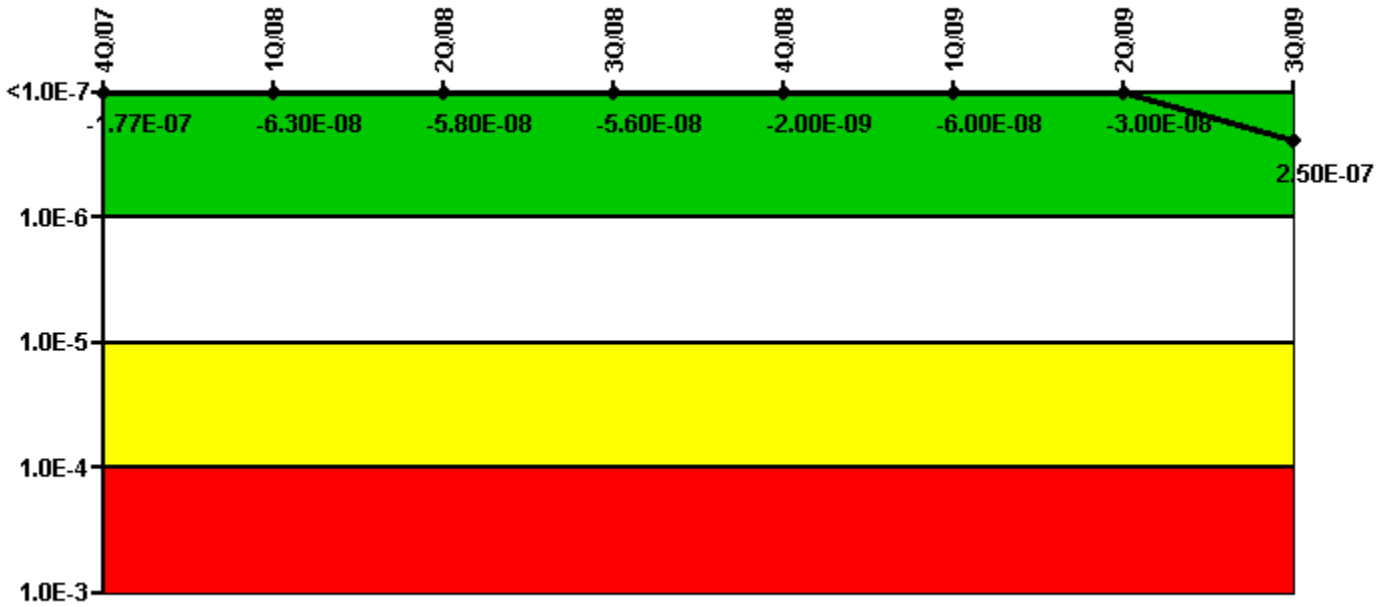
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



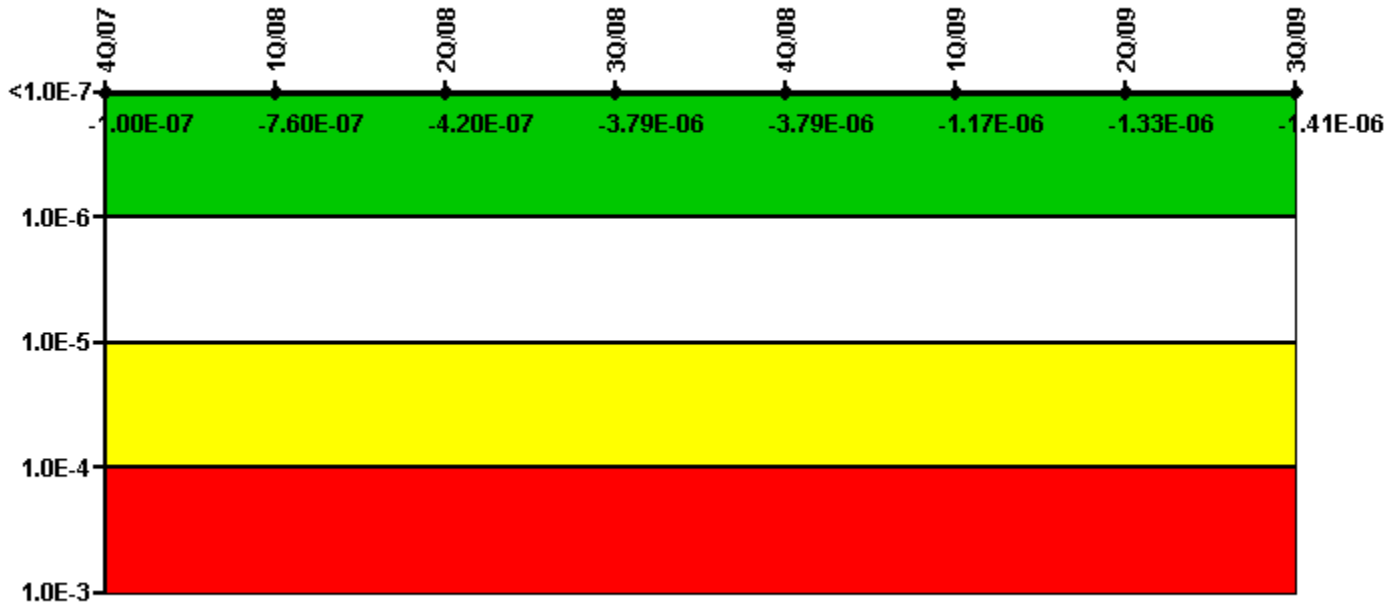
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	-4.70E-08	6.70E-08	7.20E-08	3.60E-08	9.20E-08	1.10E-07	1.40E-07	4.20E-07
URI (Δ CDF)	-1.30E-07	-1.30E-07	-1.30E-07	-9.20E-08	-9.40E-08	-1.70E-07	-1.70E-07	-1.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.77E-07	-6.30E-08	-5.80E-08	-5.60E-08	-2.00E-09	-6.00E-08	-3.00E-08	2.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



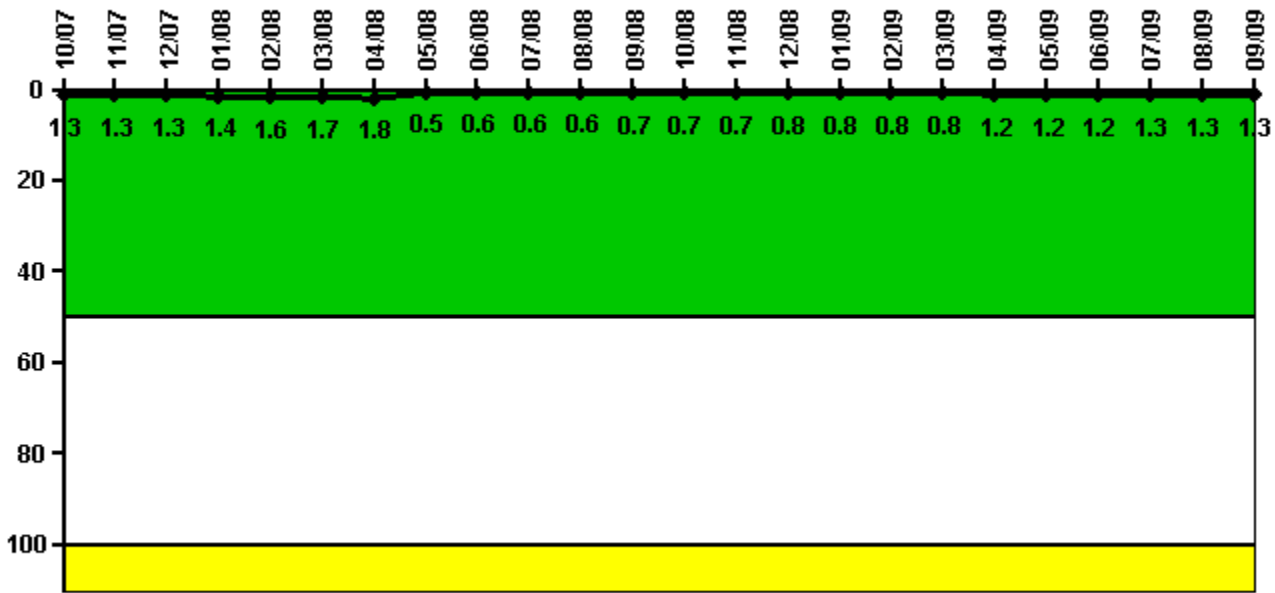
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	1.20E-06	5.40E-07	6.80E-07	2.10E-07	2.10E-07	1.30E-07	1.70E-07	9.00E-08
URI (Δ CDF)	-1.30E-06	-1.30E-06	-1.10E-06	-4.00E-06	-4.00E-06	-1.30E-06	-1.50E-06	-1.50E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-07	-7.60E-07	-4.20E-07	-3.79E-06	-3.79E-06	-1.17E-06	-1.33E-06	-1.41E-06

Licensee Comments: none

Reactor Coolant System Activity



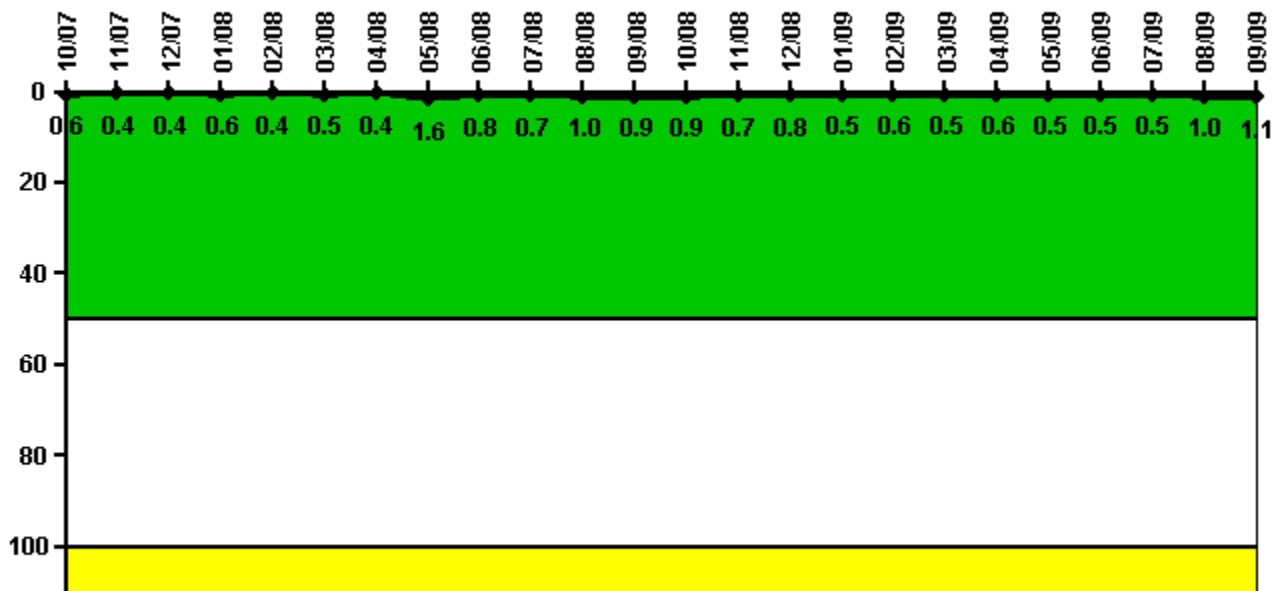
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum activity	0.012700	0.012600	0.013200	0.013600	0.015600	0.016800	0.017500	0.005090	0.005760	0.005880	0.006260	0.007050
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	1.4	1.6	1.7	1.8	0.5	0.6	0.6	0.6	0.7
Reactor Coolant System Activity	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum activity	0.006880	0.007080	0.007670	0.007790	0.007950	0.008320	0.012300	0.011500	0.011700	0.012700	0.013400	0.012700
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	0.7	0.7	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.3	1.3	1.3

Licensee Comments: none

Reactor Coolant System Leakage



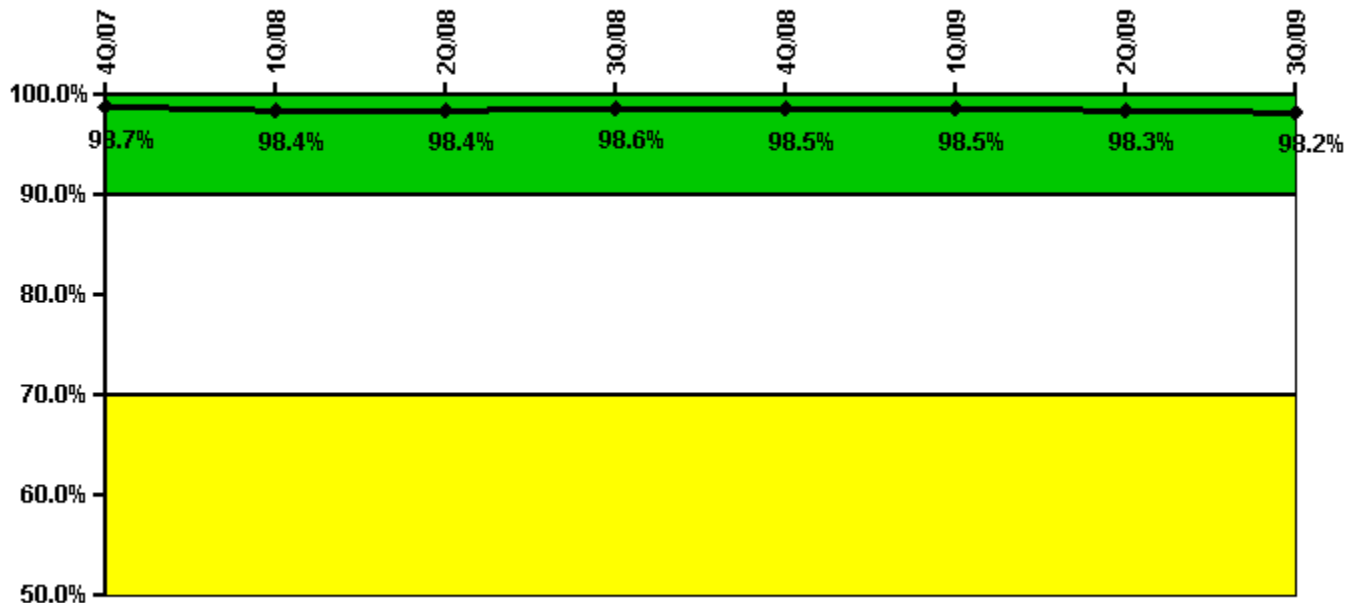
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum leakage	0.056	0.040	0.043	0.062	0.042	0.045	0.038	0.159	0.075	0.065	0.100	0.094
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	0.4	0.4	0.6	0.4	0.5	0.4	1.6	0.8	0.7	1.0	0.9
Reactor Coolant System Leakage	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum leakage	0.088	0.071	0.081	0.054	0.060	0.053	0.064	0.051	0.046	0.050	0.098	0.109
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	0.9	0.7	0.8	0.5	0.6	0.5	0.6	0.5	0.5	0.5	1.0	1.1

Licensee Comments: none

Drill/Exercise Performance



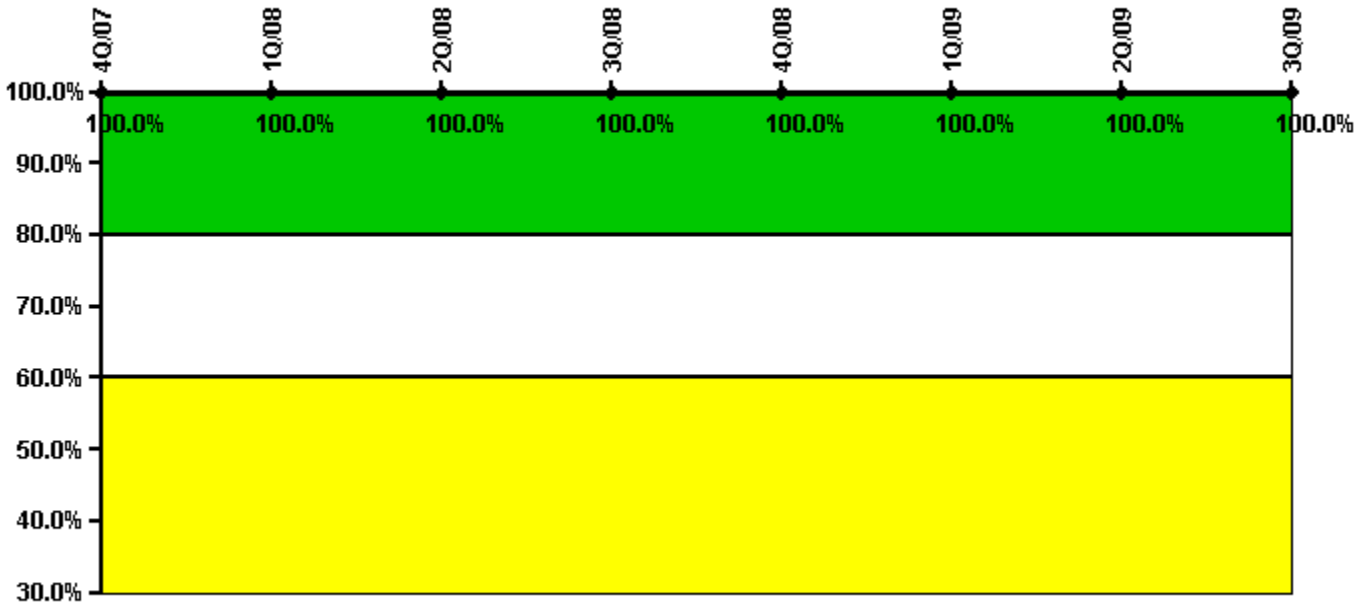
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	18.0	20.0	26.0	134.0	45.0	24.0	47.0	117.0
Total opportunities	19.0	22.0	26.0	136.0	46.0	24.0	48.0	118.0
Indicator value	98.7%	98.4%	98.4%	98.6%	98.5%	98.5%	98.3%	98.2%

Licensee Comments: none

ERO Drill Participation



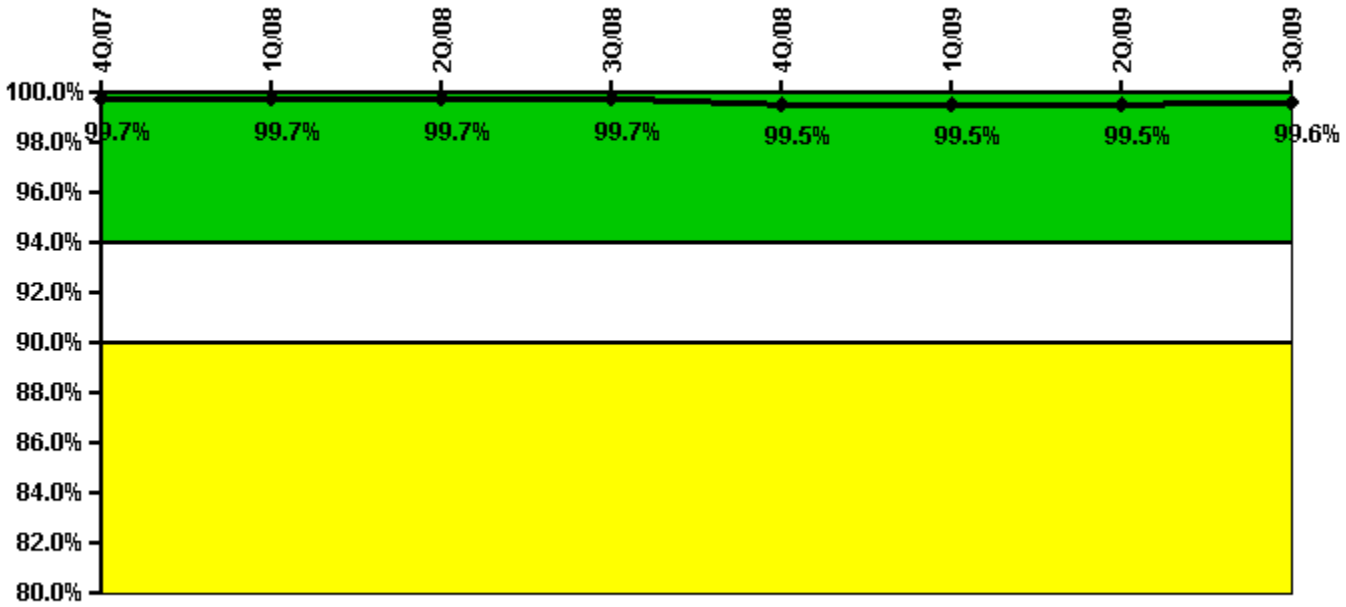
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Participating Key personnel	75.0	72.0	69.0	67.0	65.0	68.0	69.0	71.0
Total Key personnel	75.0	72.0	69.0	67.0	65.0	68.0	69.0	71.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



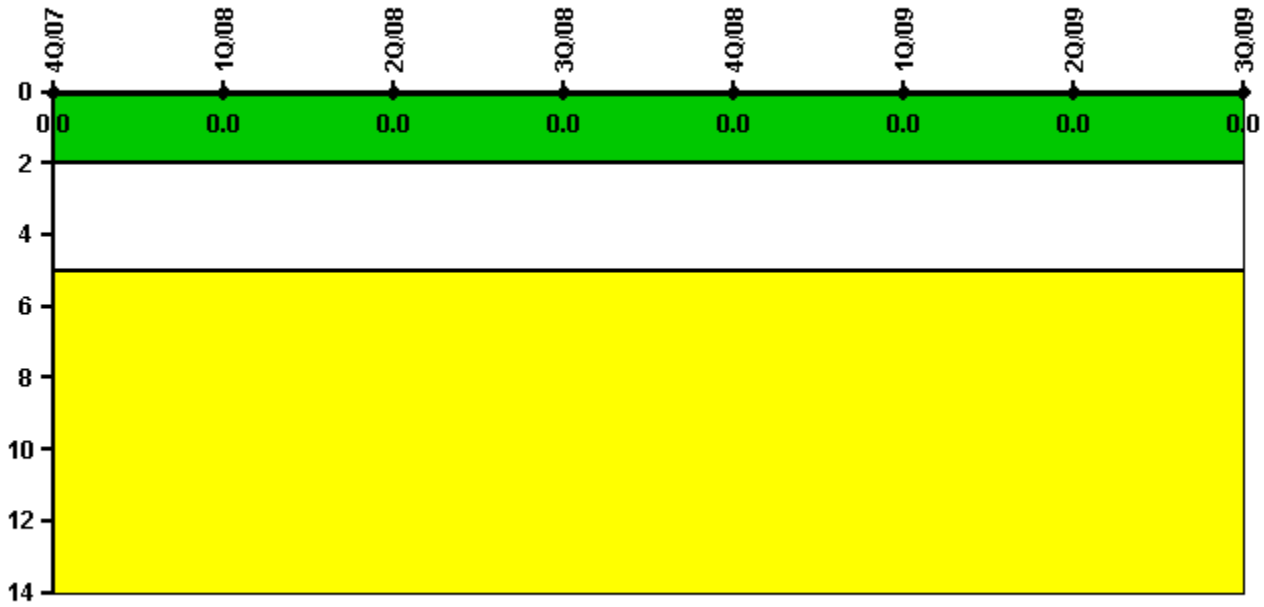
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	4474	4473	4465	4516	4438	4405	4463	4544
Total sirens-tests	4480	4478	4479	4550	4480	4410	4480	4550
Indicator value	99.7%	99.7%	99.7%	99.7%	99.5%	99.5%	99.5%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
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	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
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.