

Waterford 3

3Q/2007 Performance Indicators

Licensee's General Comments: On April 10, 2007, several changes were made to the MSPI Basis Document that became effective with this quarter's submittal. Summarizing the changes: revised the High Pressure Safety Injection (MS07) boundary drawing, changed Component Cooling Water Pump (MS10) from Train AB to installed spare, changed valve ACC-110A (MS10) description to MOV, changed names URP and FVURP to URPC and FVURC in the component tables, clarified High Pressure Safety Injection (MS07) success criteria for hot leg injection, and eight Baseline Unavailability Data points were revised that minimally affected baseline values for PIs MS06 through MS10 (condition report CR-WF3-2006-3315). None of the above changes affected previously reported Performance Indicator values and all PI colors remain green.

Unplanned Scrams per 7000 Critical Hrs



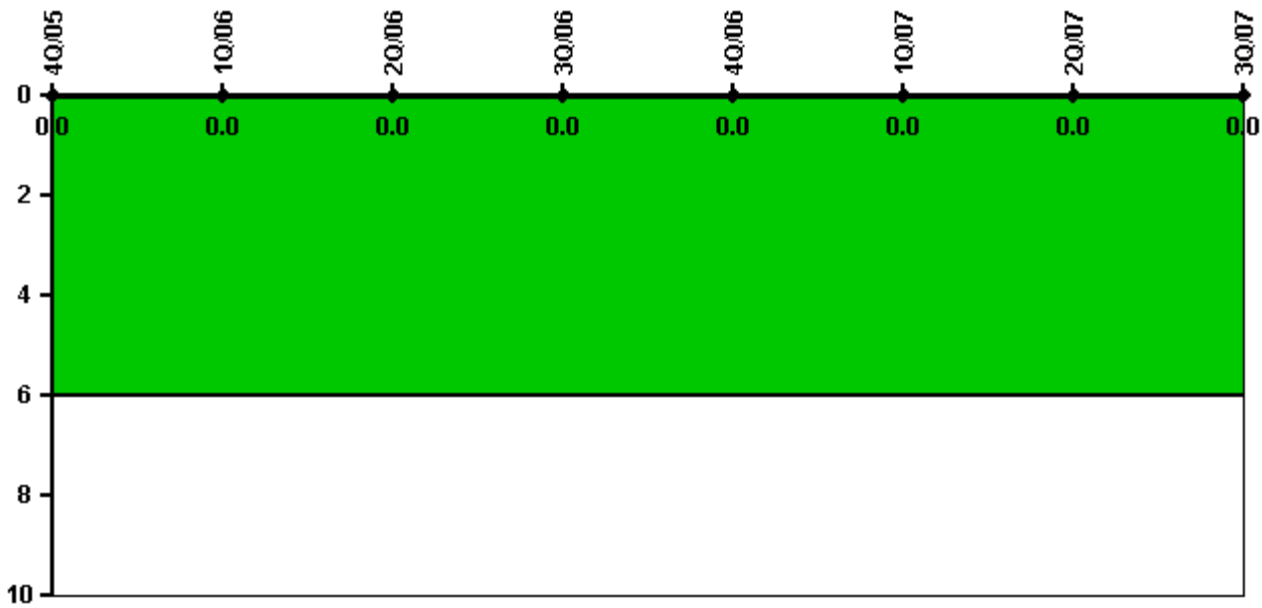
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2151.6	2160.0	2183.0	2208.0	1464.3	2159.0	2184.0	2208.0
Indicator value	1.0	1.0	0.8	0.8	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



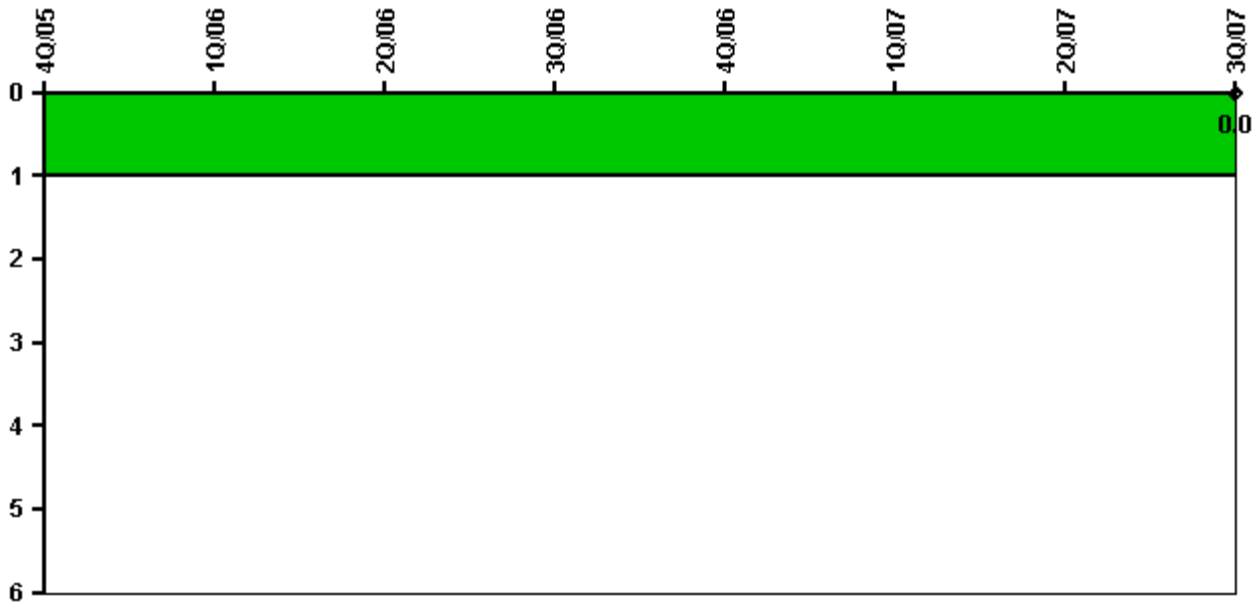
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2151.6	2160.0	2183.0	2208.0	1464.3	2159.0	2184.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



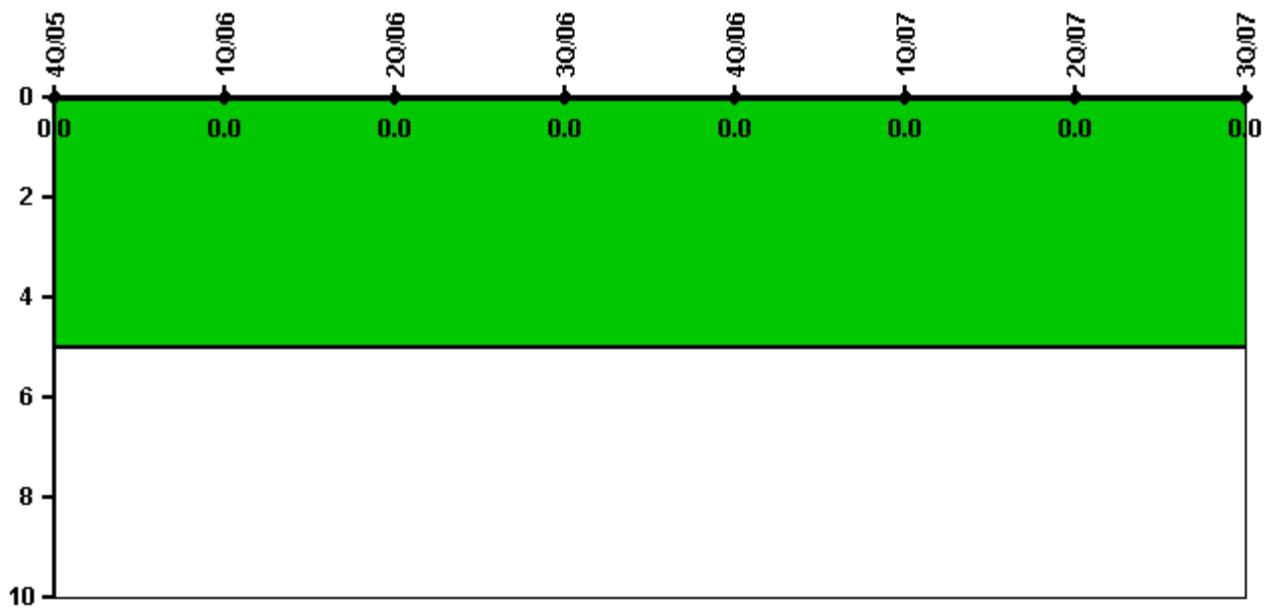
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Scrams with complications					0	0	0	0
Indicator value								0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



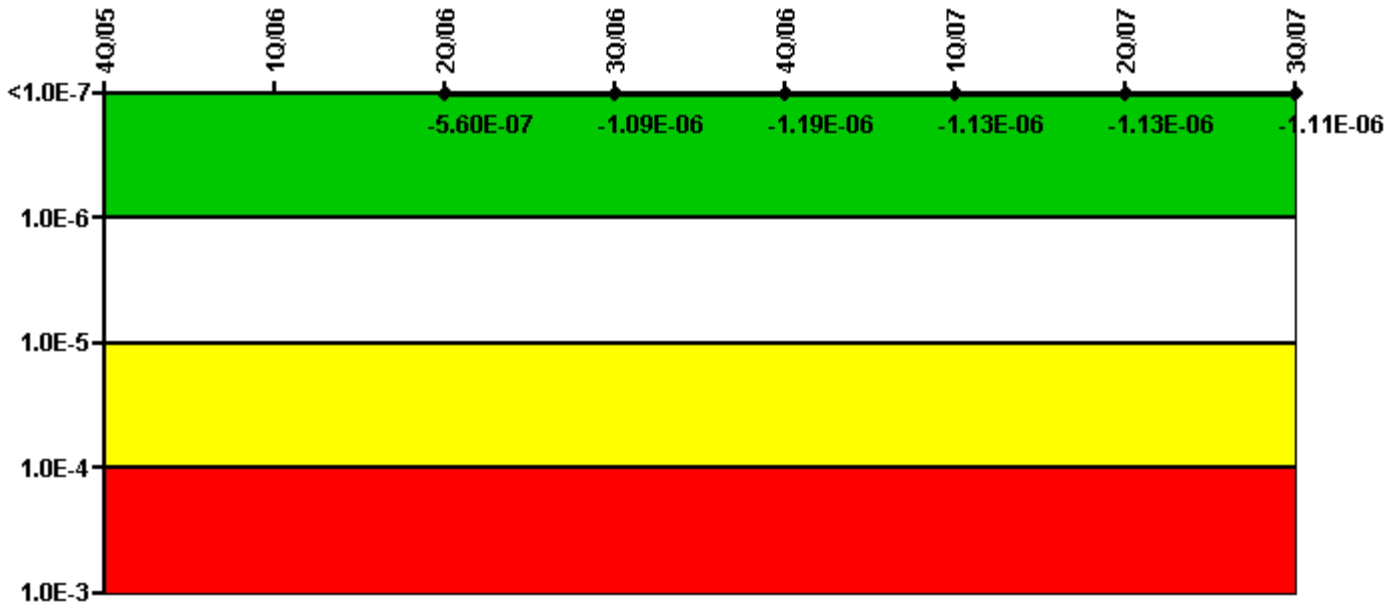
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
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



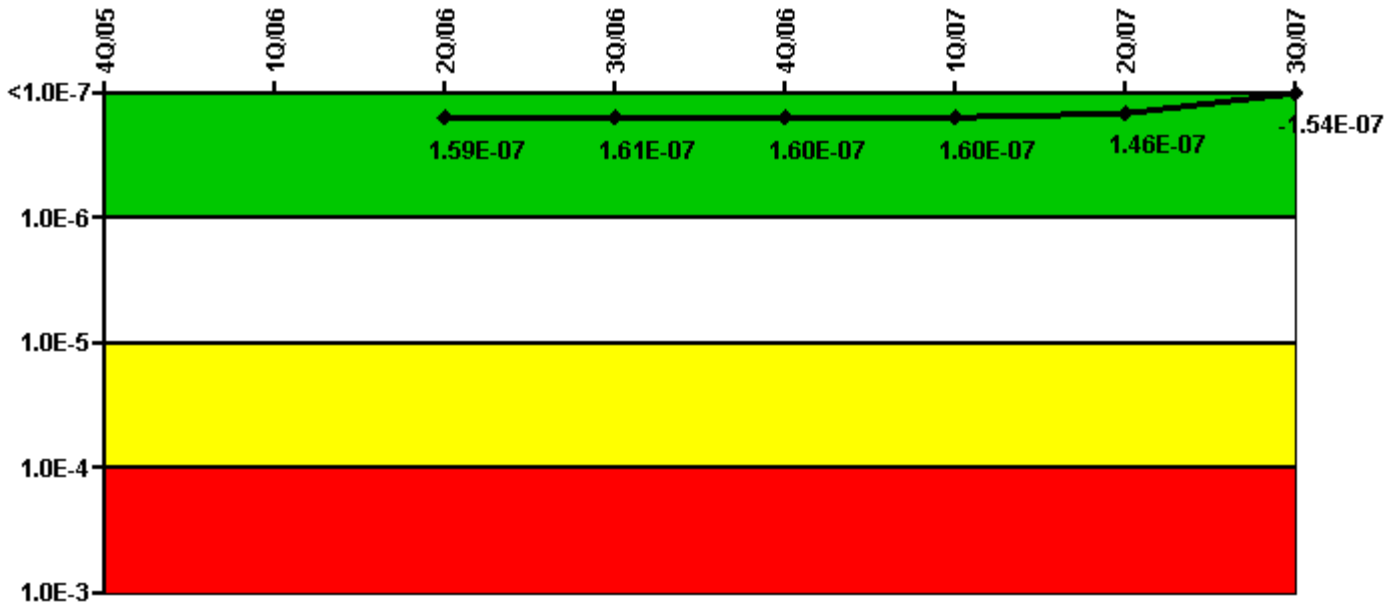
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (Δ CDF)			2.50E-07	2.10E-07	2.10E-07	2.70E-07	2.70E-07	1.90E-07
URI (Δ CDF)			-8.10E-07	-1.30E-06	-1.40E-06	-1.40E-06	-1.40E-06	-1.30E-06
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-5.60E-07	-1.09E-06	-1.19E-06	-1.13E-06	-1.13E-06	-1.11E-06

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



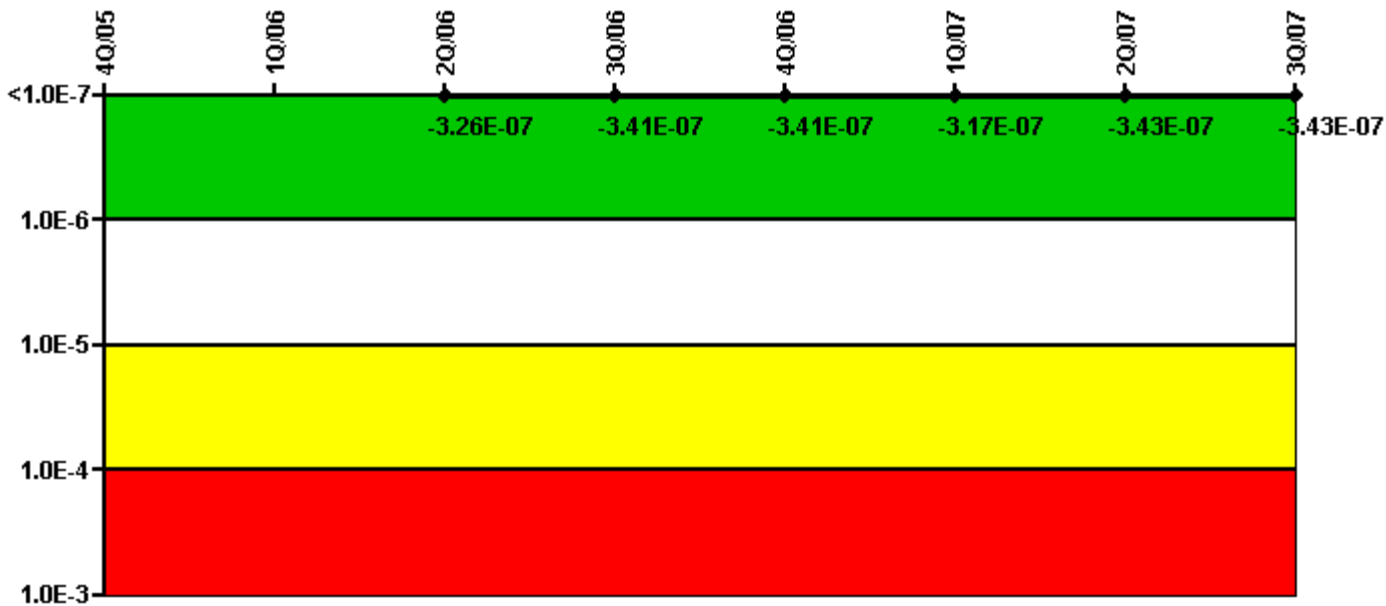
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (Δ CDF)			7.10E-08	7.30E-08	7.30E-08	7.30E-08	5.80E-08	-4.40E-09
URI (Δ CDF)			8.80E-08	8.80E-08	8.70E-08	8.70E-08	8.80E-08	-1.50E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			1.59E-07	1.61E-07	1.60E-07	1.60E-07	1.46E-07	-1.54E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



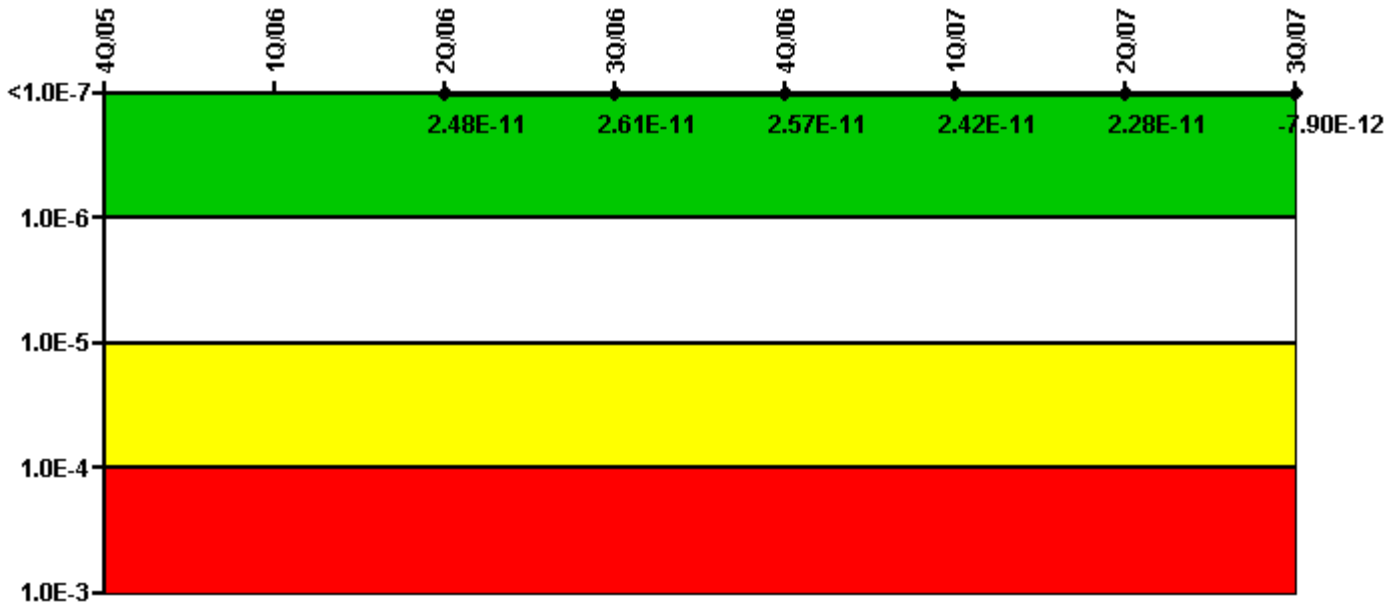
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (Δ CDF)			-4.60E-08	-6.10E-08	-6.10E-08	-3.70E-08	-6.30E-08	-6.30E-08
URI (Δ CDF)			-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-3.26E-07	-3.41E-07	-3.41E-07	-3.17E-07	-3.43E-07	-3.43E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



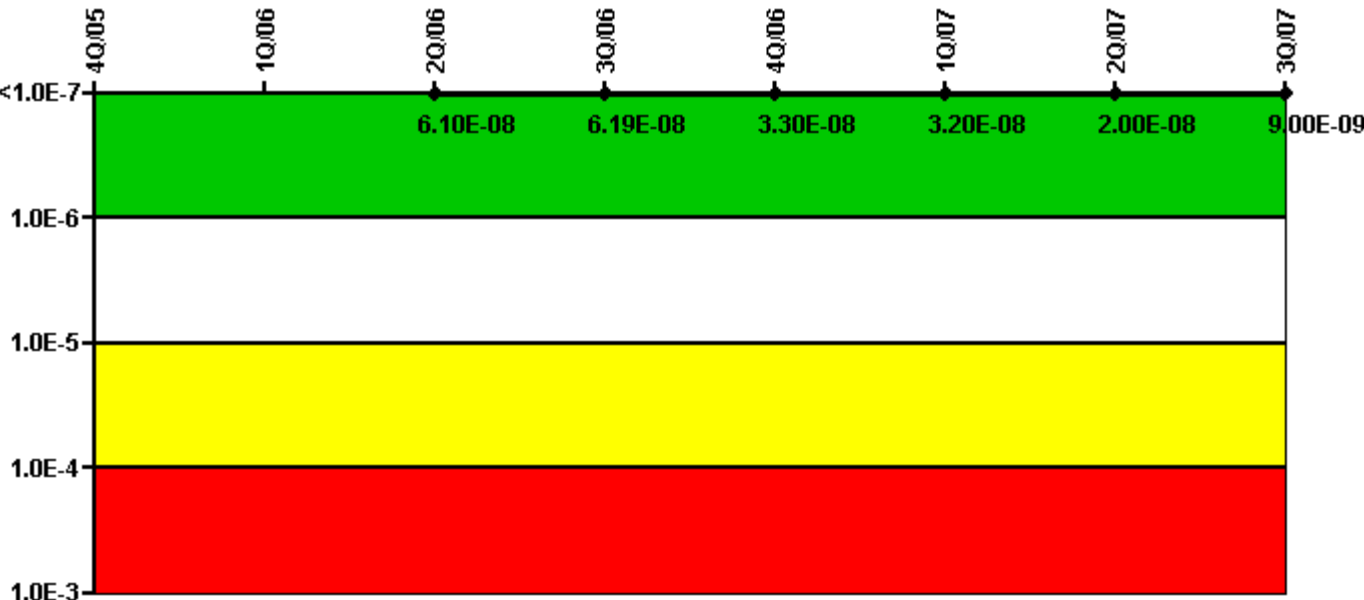
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (Δ CDF)			4.80E-12	6.10E-12	5.70E-12	4.20E-12	2.80E-12	-2.80E-12
URI (Δ CDF)			2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	-5.10E-12
PLE			NO	NO	NO	NO	NO	NO
Indicator value			2.48E-11	2.61E-11	2.57E-11	2.42E-11	2.28E-11	-7.90E-12

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



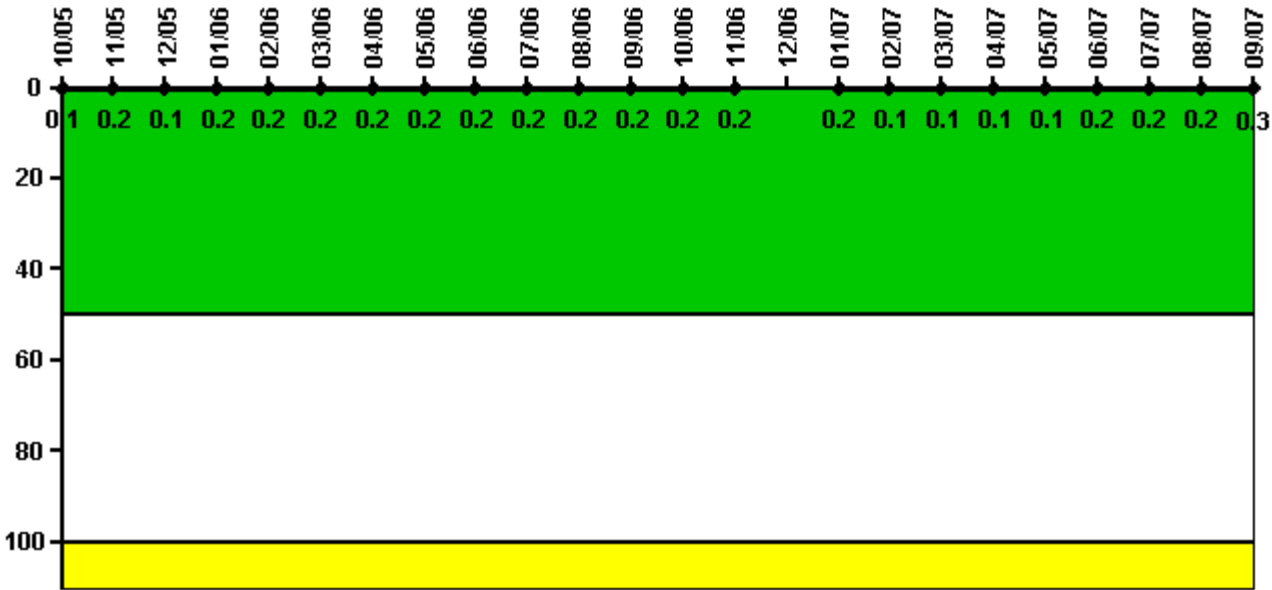
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			6.20E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.30E-08
URI (ΔCDF)			-1.00E-09	-2.10E-09	-3.10E-08	-3.20E-08	-4.40E-08	-5.40E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			6.10E-08	6.19E-08	3.30E-08	3.20E-08	2.00E-08	9.00E-09

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

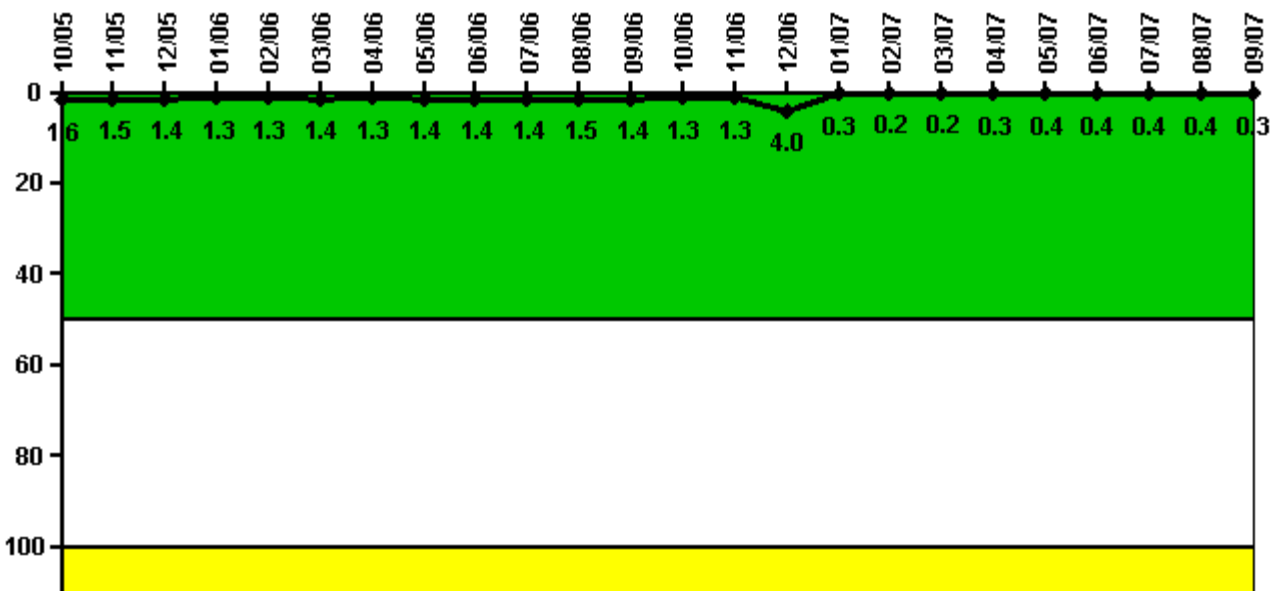
Notes

Reactor Coolant System Activity	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum activity	0.001130	0.001870	0.001290	0.001850	0.001800	0.001680	0.002130	0.002310	0.002110	0.002050	0.002010	0.002190
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	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Reactor Coolant System Activity	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum activity	0.002090	0.002150	N/A	0.001700	0.001210	0.001060	0.001230	0.001180	0.001870	0.001900	0.001990	0.002500
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	0.2	0.2	N/A	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3

Licensee Comments: none

Reactor Coolant System Leakage



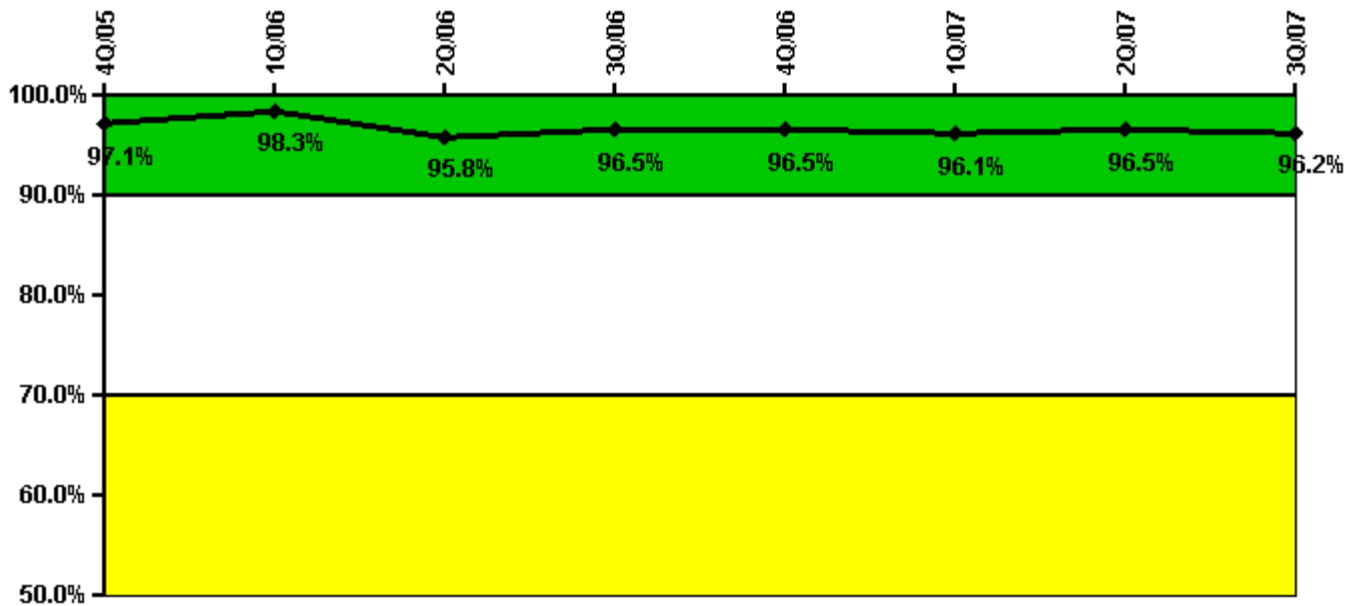
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum leakage	0.157	0.147	0.138	0.132	0.132	0.136	0.133	0.140	0.141	0.136	0.150	0.140
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	1.6	1.5	1.4	1.3	1.3	1.4	1.3	1.4	1.4	1.4	1.5	1.4
Reactor Coolant System Leakage	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum leakage	0.130	0.130	0.396	0.030	0.020	0.020	0.030	0.040	0.040	0.038	0.040	0.030
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	1.3	1.3	4.0	0.3	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.3

Licensee Comments: none

Drill/Exercise Performance



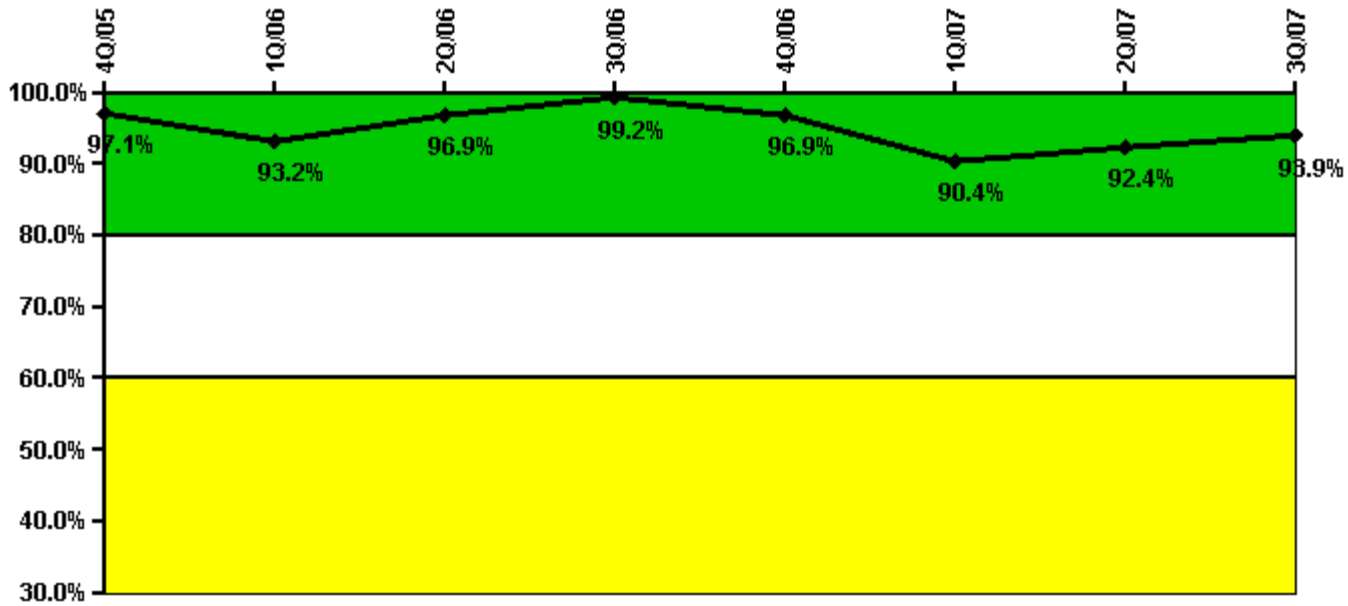
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful opportunities	22.0	6.0	44.0	67.0	12.0	25.0	28.0	26.0
Total opportunities	23.0	6.0	48.0	68.0	12.0	26.0	28.0	28.0
Indicator value	97.1%	98.3%	95.8%	96.5%	96.5%	96.1%	96.5%	96.2%

Licensee Comments: none

ERO Drill Participation



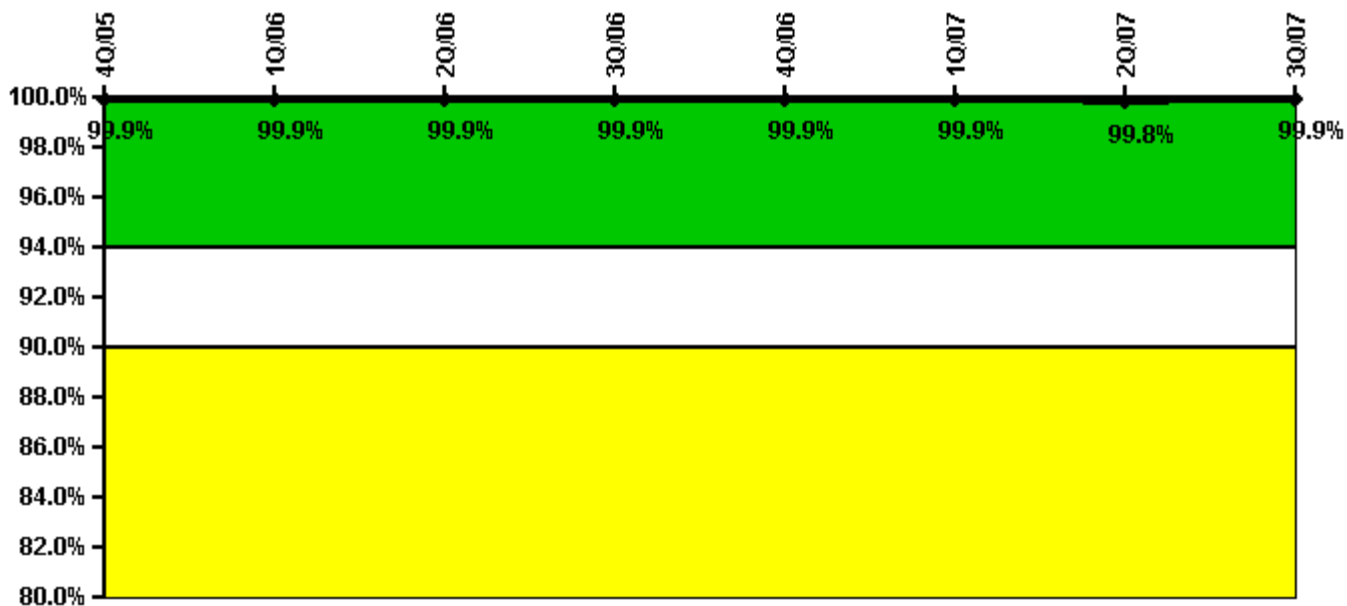
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Participating Key personnel	132.0	123.0	125.0	125.0	125.0	123.0	122.0	123.0
Total Key personnel	136.0	132.0	129.0	126.0	129.0	136.0	132.0	131.0
Indicator value	97.1%	93.2%	96.9%	99.2%	96.9%	90.4%	92.4%	93.9%

Licensee Comments: none

Alert & Notification System



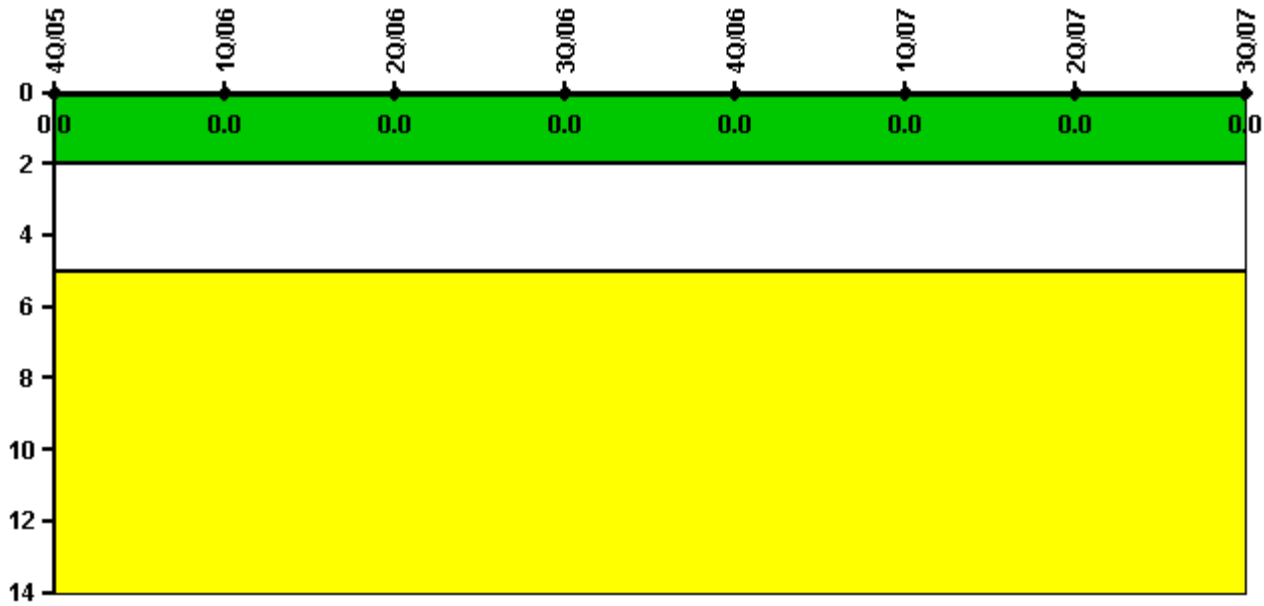
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful siren-tests	431	432	432	431	431	432	431	432
Total sirens-tests	432	432	432	432	432	432	432	432
Indicator value	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.8%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



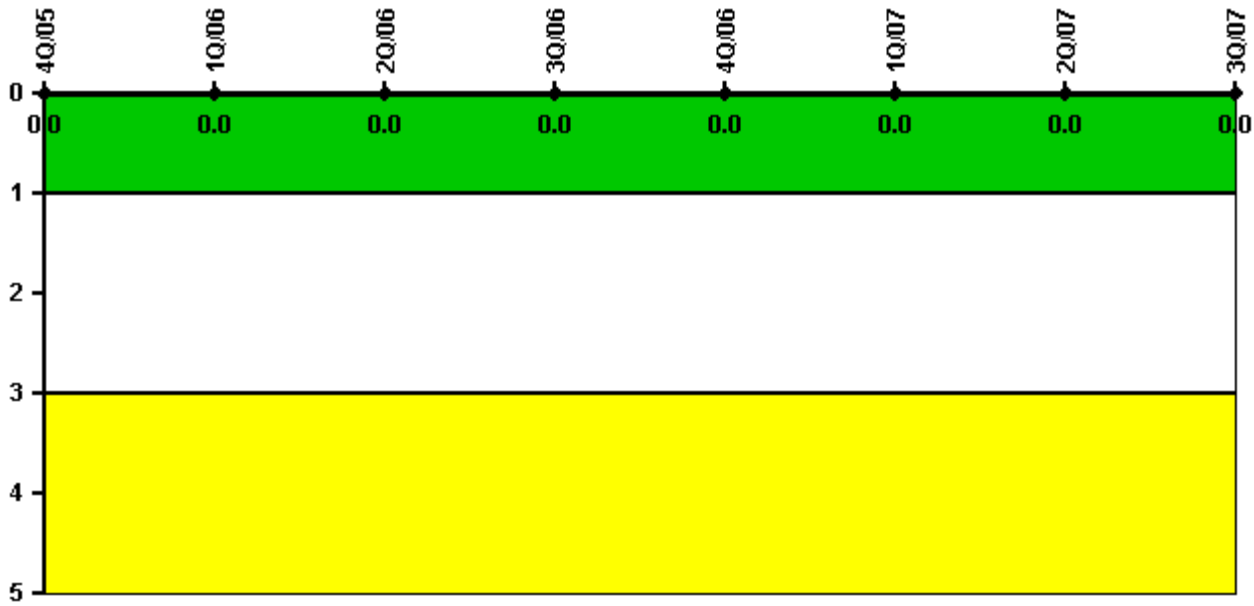
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
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/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Physical Protection](#) information not publicly available.