

Byron 2

1Q/2007 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/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2183.0	2087.1	1922.4	2160.0	2183.0	2208.0	2209.0	2159.0
Indicator value	0	0	0.8	0.8	0.8	0.8	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



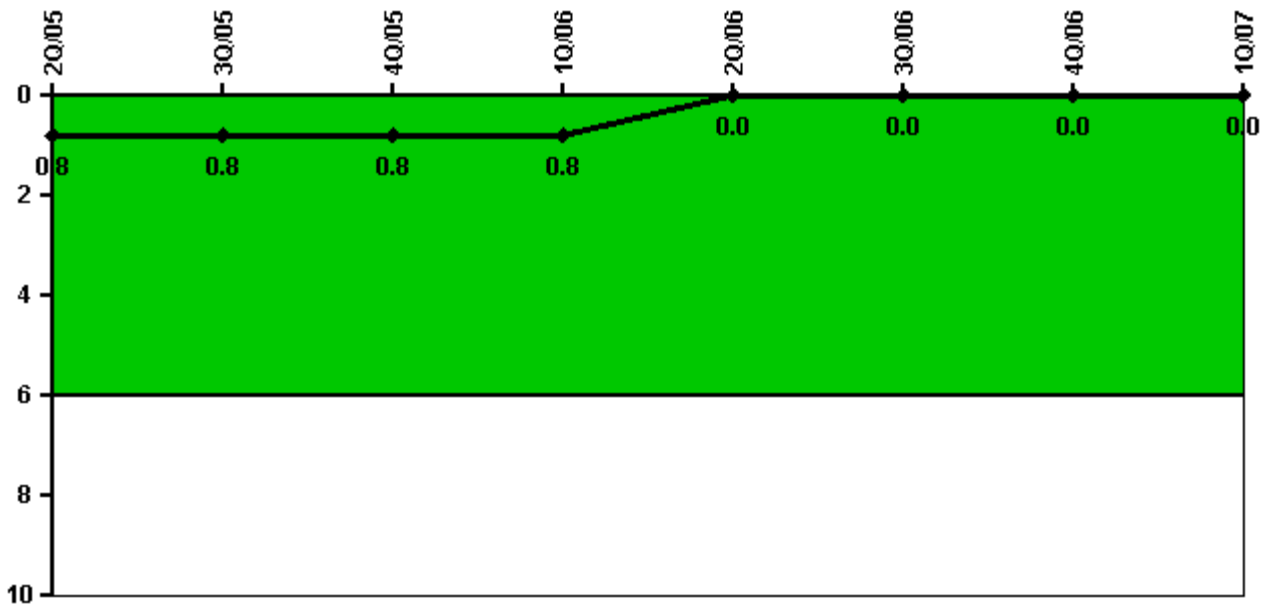
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Scrams	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



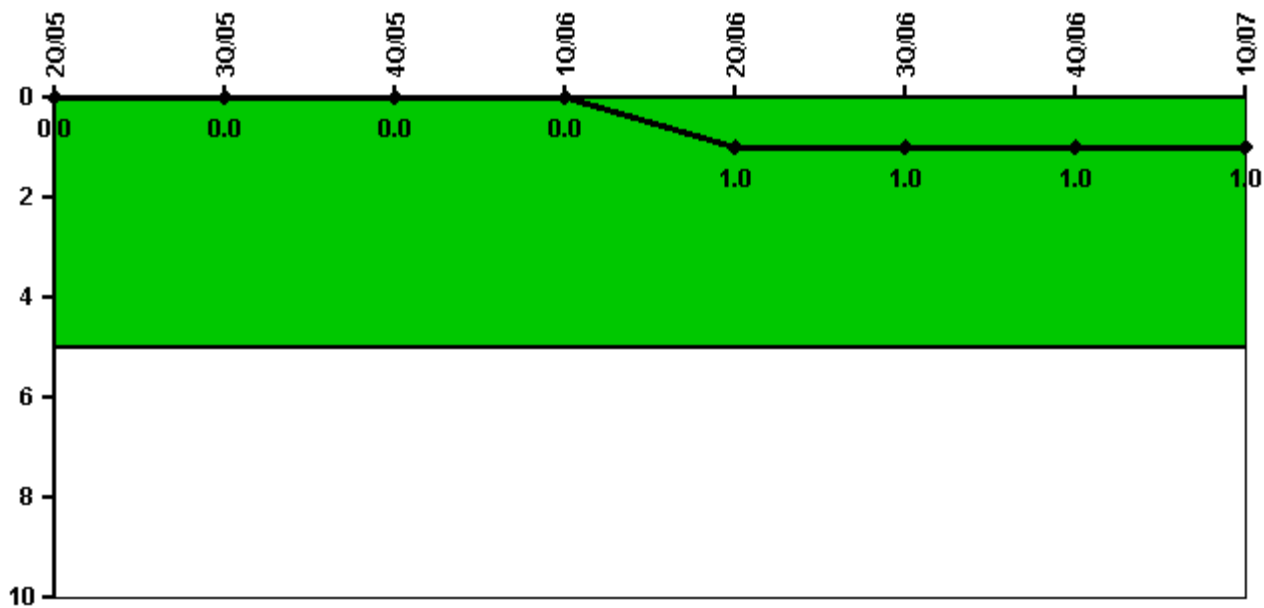
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2183.0	2087.1	1922.4	2160.0	2183.0	2208.0	2209.0	2159.0
Indicator value	0.8	0.8	0.8	0.8	0	0	0	0

Licensee Comments: none

Safety System Functional Failures (PWR)



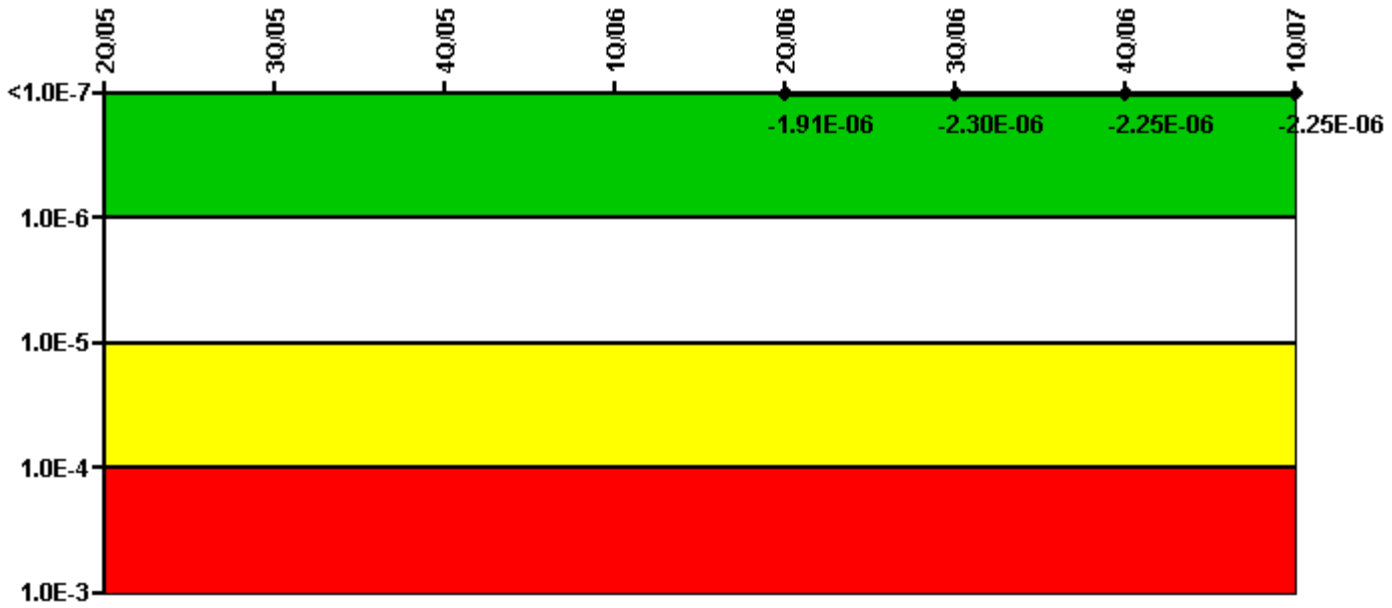
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Safety System Functional Failures	0	0	0	0	1	0	0	0
Indicator value	0	0	0	0	1	1	1	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



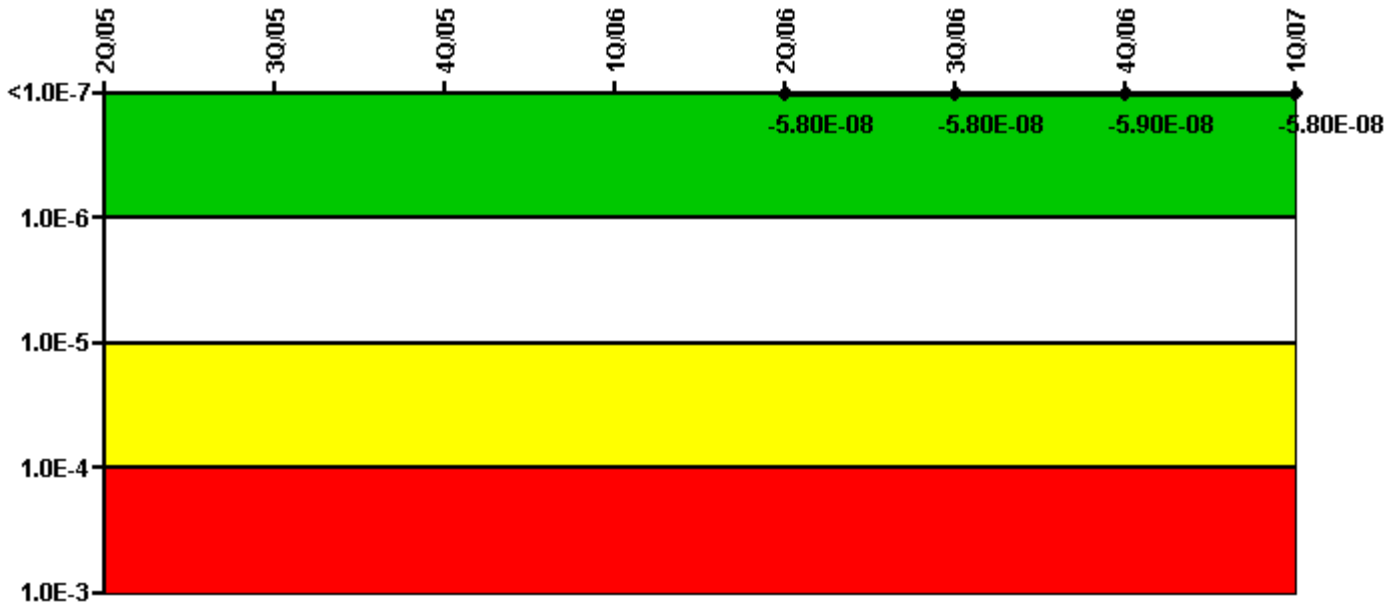
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (Δ CDF)					-8.00E-09	4.80E-09	5.10E-08	4.80E-08
URI (Δ CDF)					-1.90E-06	-2.30E-06	-2.30E-06	-2.30E-06
PLE					NO	NO	NO	NO
Indicator value					-1.91E-06	-2.30E-06	-2.25E-06	-2.25E-06

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



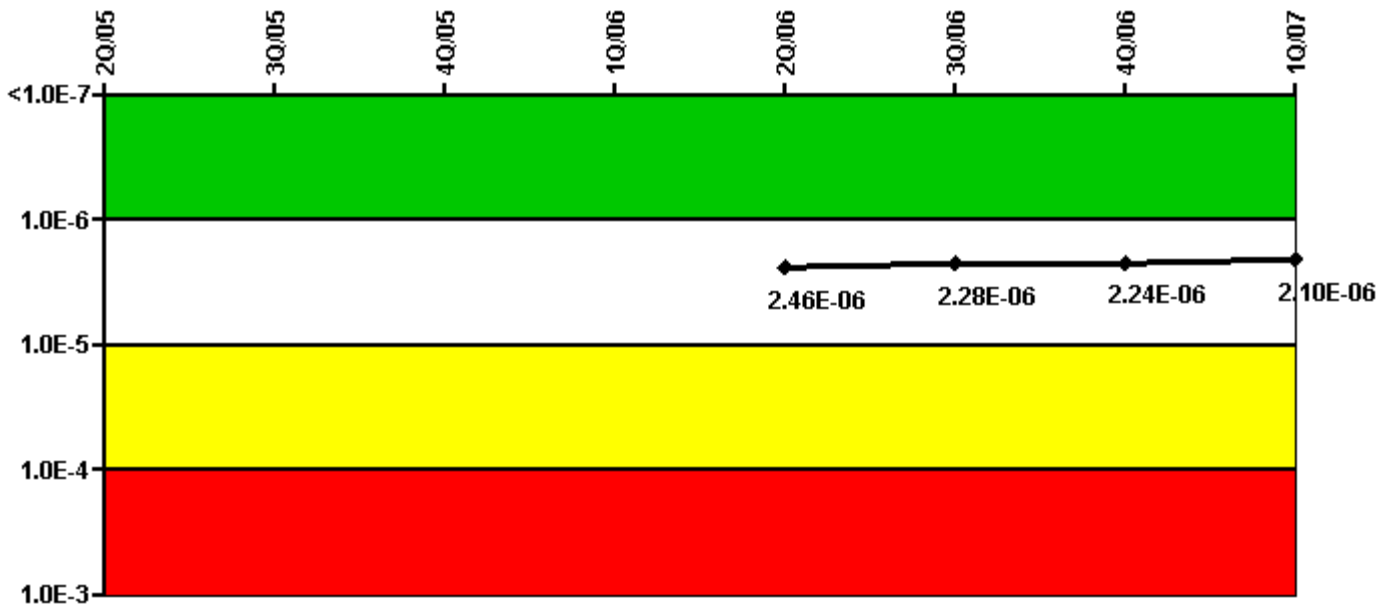
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (Δ CDF)					-4.20E-08	-4.20E-08	-4.20E-08	-4.20E-08
URI (Δ CDF)					-1.60E-08	-1.60E-08	-1.70E-08	-1.60E-08
PLE					NO	NO	NO	NO
Indicator value					-5.80E-08	-5.80E-08	-5.90E-08	-5.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

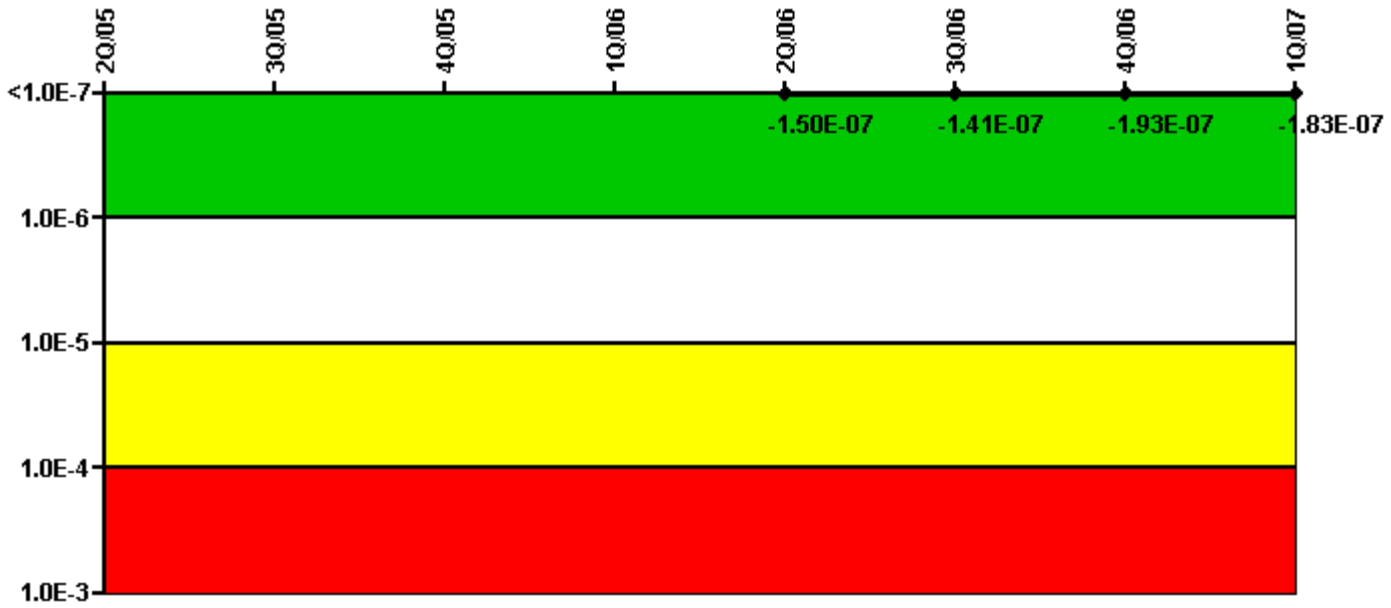
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					8.60E-07	6.80E-07	5.40E-07	2.00E-07
URI (ΔCDF)					1.60E-06	1.60E-06	1.70E-06	1.90E-06
PLE					NO	NO	NO	NO
Indicator value					2.46E-06	2.28E-06	2.24E-06	2.10E-06

Licensee Comments:

1Q/07: Risk Cap Invoked.

Mitigating Systems Performance Index, Residual Heat Removal System



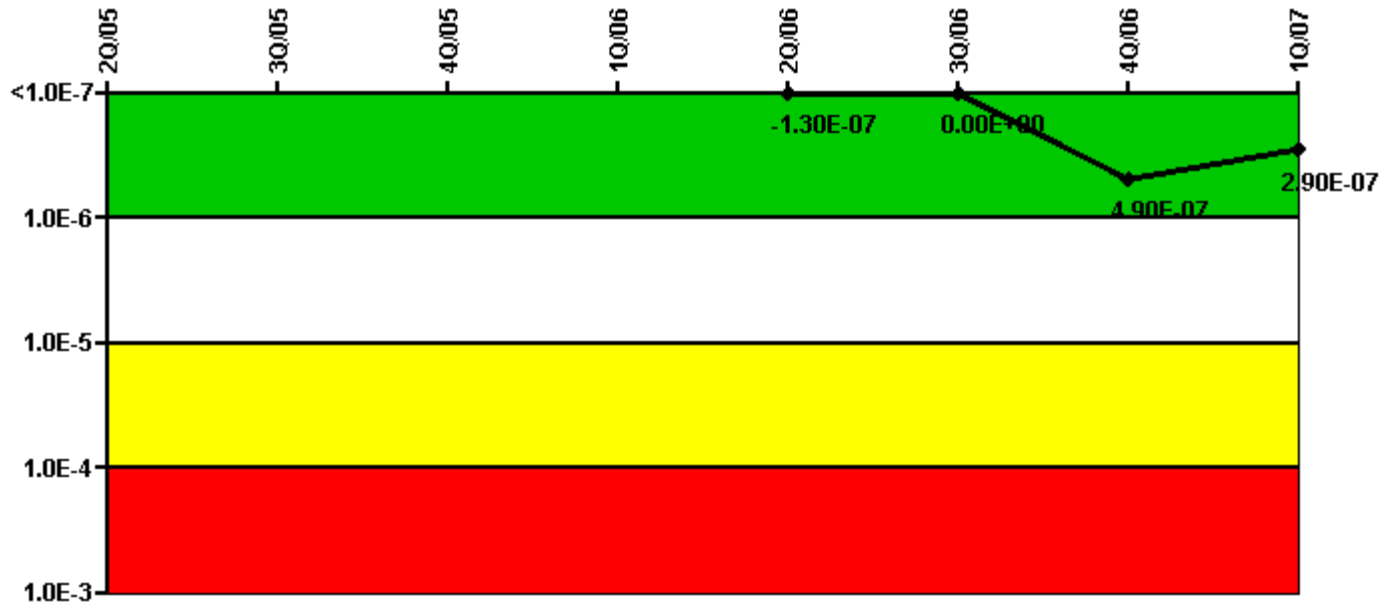
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (Δ CDF)					6.60E-11	9.50E-09	-4.30E-08	-4.30E-08
URI (Δ CDF)					-1.50E-07	-1.50E-07	-1.50E-07	-1.40E-07
PLE					NO	NO	NO	NO
Indicator value					-1.50E-07	-1.41E-07	-1.93E-07	-1.83E-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	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					5.80E-07	7.10E-07	1.20E-06	1.00E-06
URI (ΔCDF)					-7.10E-07	-7.10E-07	-7.10E-07	-7.10E-07
PLE					NO	NO	NO	NO
Indicator value					-1.30E-07	0.00E+00	4.90E-07	2.90E-07

Licensee Comments:

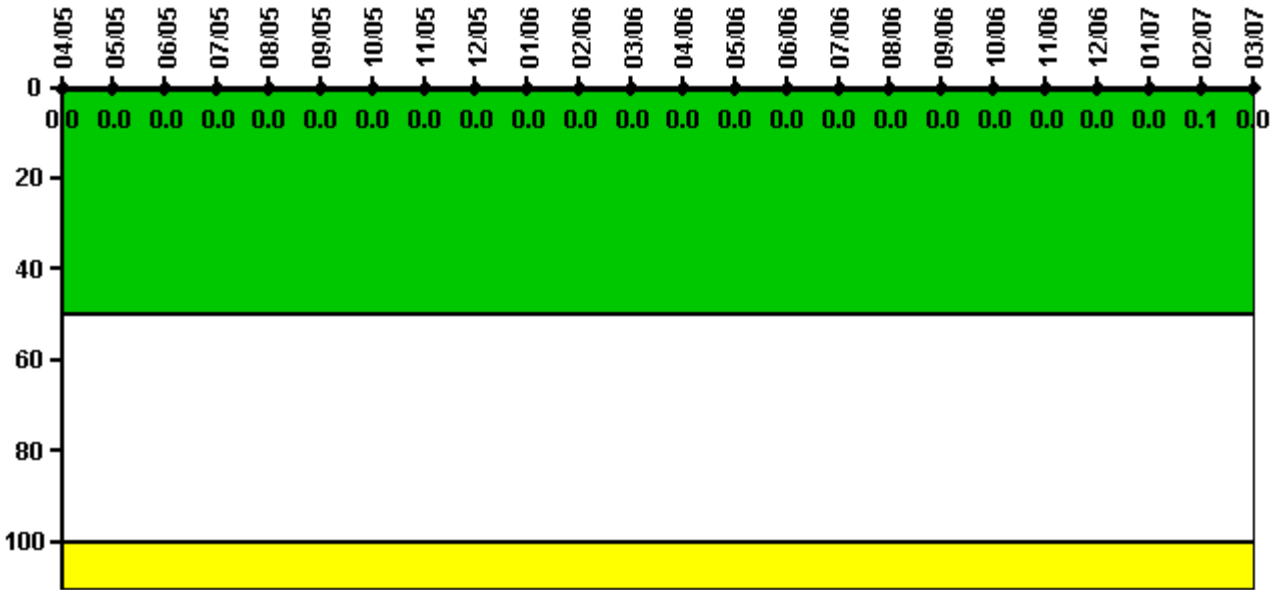
1Q/07: Changed PRA Parameter(s).

4Q/06: Changed PRA Parameter(s).

3Q/06: Changed PRA Parameter(s).

2Q/06: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

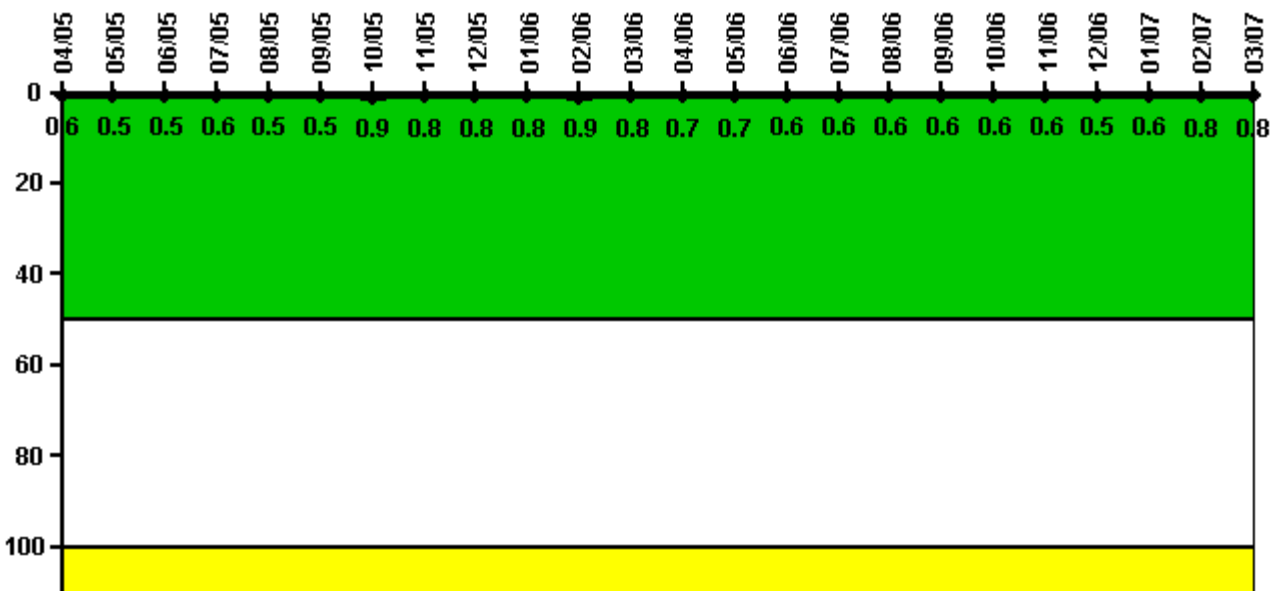
Notes

Reactor Coolant System Activity	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum activity	0.000366	0.000363	0.000381	0.000372	0.000499	0.000419	0.000209	0.000222	0.000236	0.000235	0.000240	0.000404
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

Reactor Coolant System Activity	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum activity	0.000271	0.000266	0.000267	0.000294	0.000306	0.000292	0.000295	0.000307	0.000308	0.000315	0.000854	0.000371
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	0.1	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

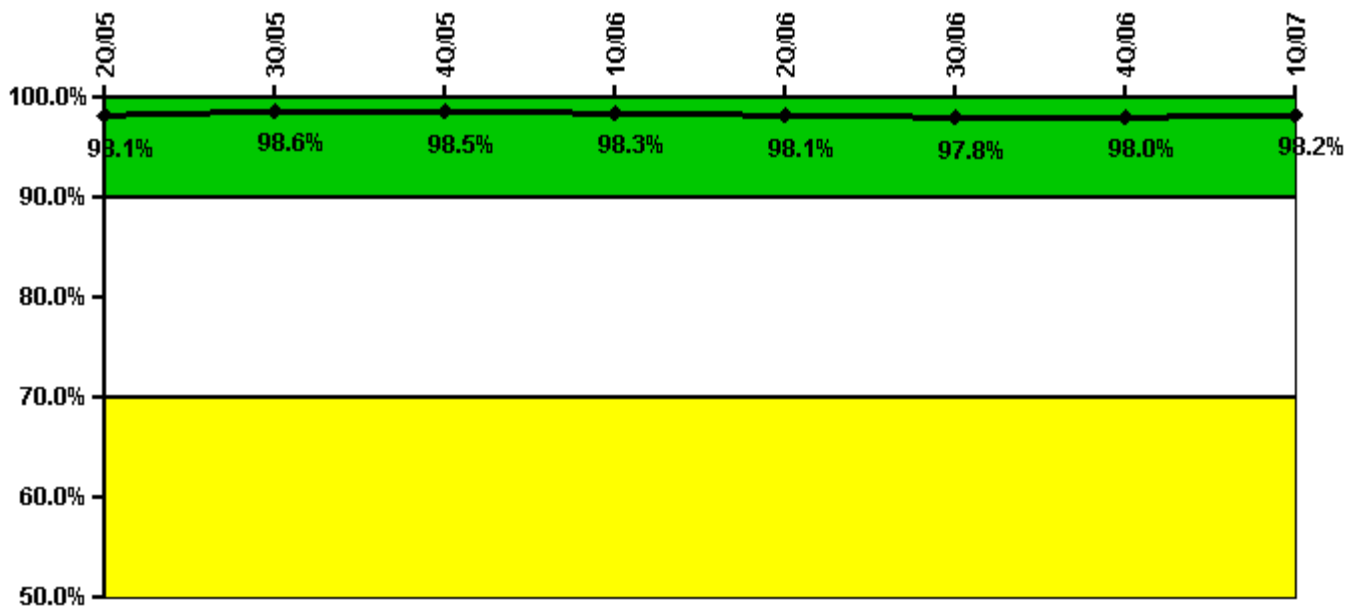
Notes

Reactor Coolant System Leakage	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum leakage	0.064	0.053	0.053	0.063	0.052	0.054	0.091	0.079	0.078	0.078	0.091	0.084
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	0.6	0.5	0.5	0.9	0.8	0.8	0.8	0.9	0.8

Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	0.071	0.068	0.061	0.063	0.058	0.062	0.061	0.059	0.054	0.061	0.078	0.076
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	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.8	0.8

Licensee Comments: none

Drill/Exercise Performance



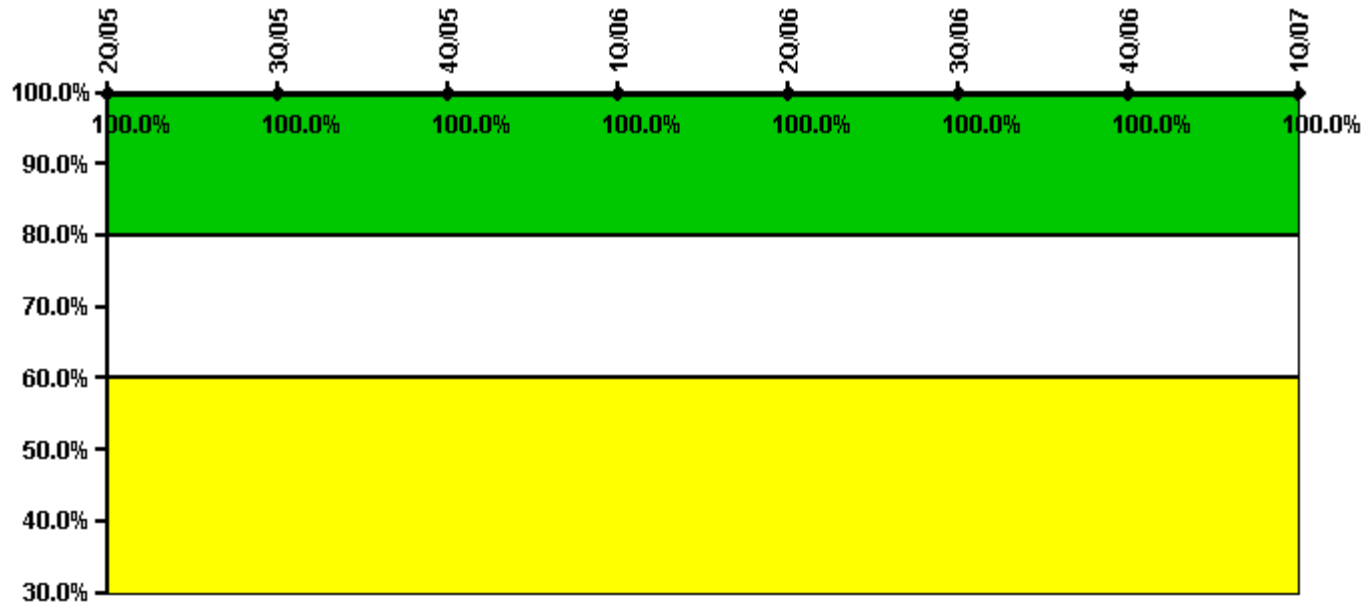
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful opportunities	81.0	30.0	57.0	22.0	12.0	136.0	40.0	10.0
Total opportunities	84.0	30.0	58.0	22.0	12.0	139.0	40.0	10.0
Indicator value	98.1%	98.6%	98.5%	98.3%	98.1%	97.8%	98.0%	98.2%

Licensee Comments: none

ERO Drill Participation



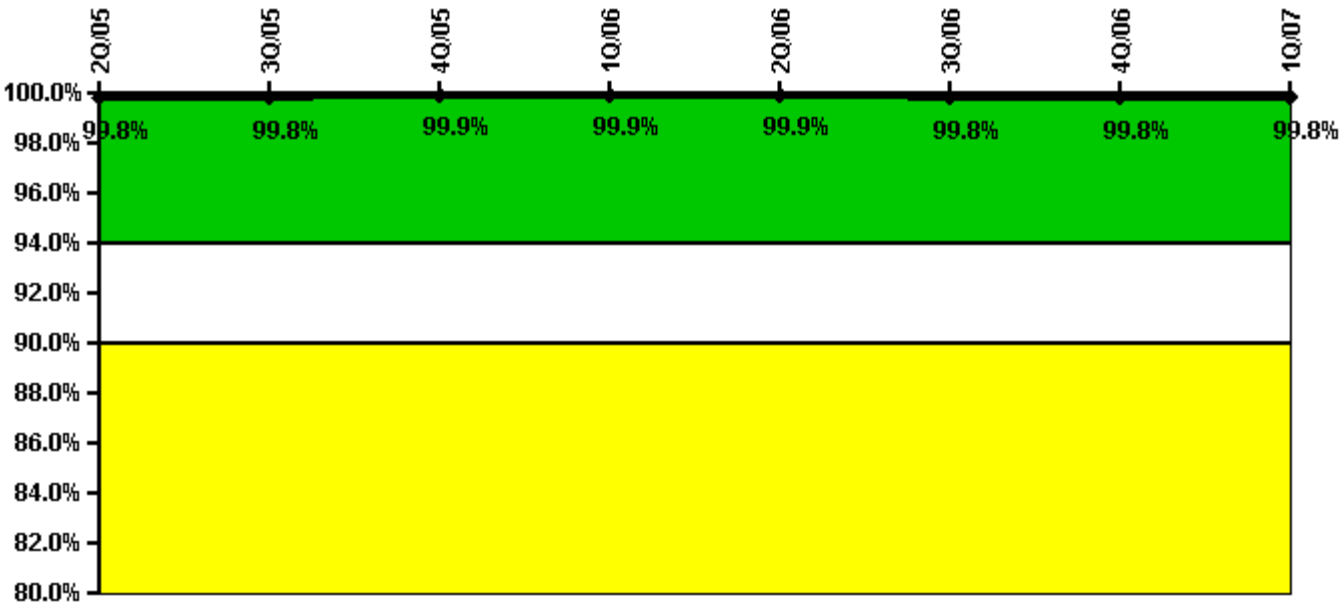
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Participating Key personnel	71.0	76.0	74.0	78.0	78.0	76.0	76.0	71.0
Total Key personnel	71.0	76.0	74.0	78.0	78.0	76.0	76.0	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



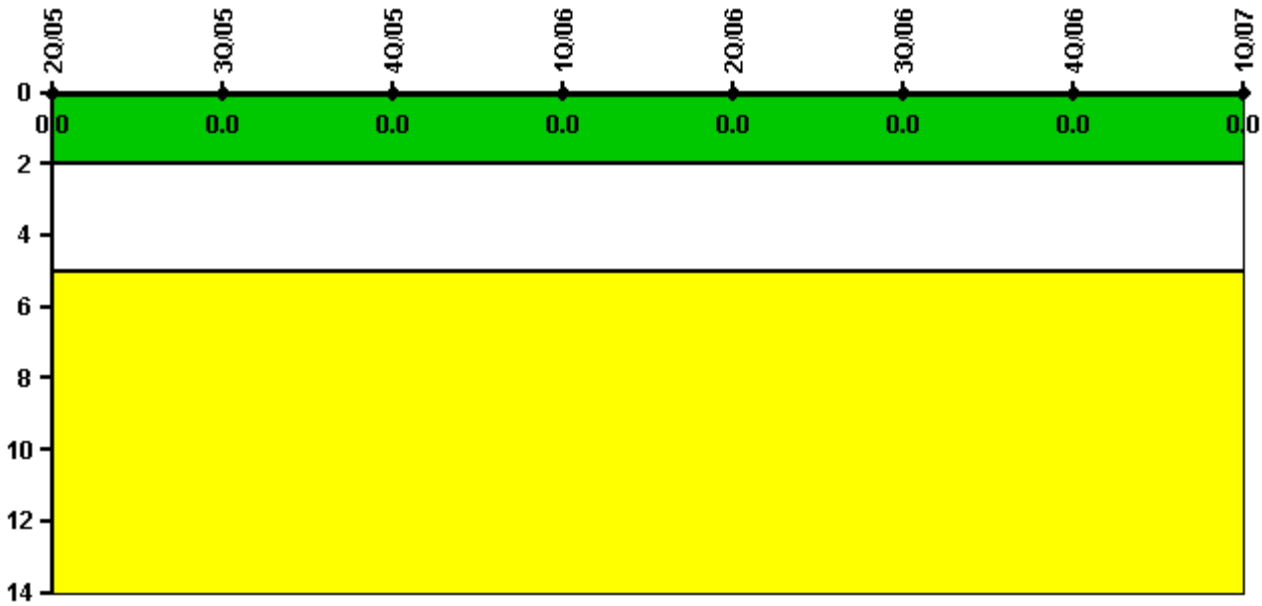
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful siren-tests	6006	6005	6012	6105	6005	5988	5915	6008
Total sirens-tests	6015	6014	6016	6110	6012	6012	5922	6016
Indicator value	99.8%	99.8%	99.9%	99.9%	99.9%	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	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/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	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/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.