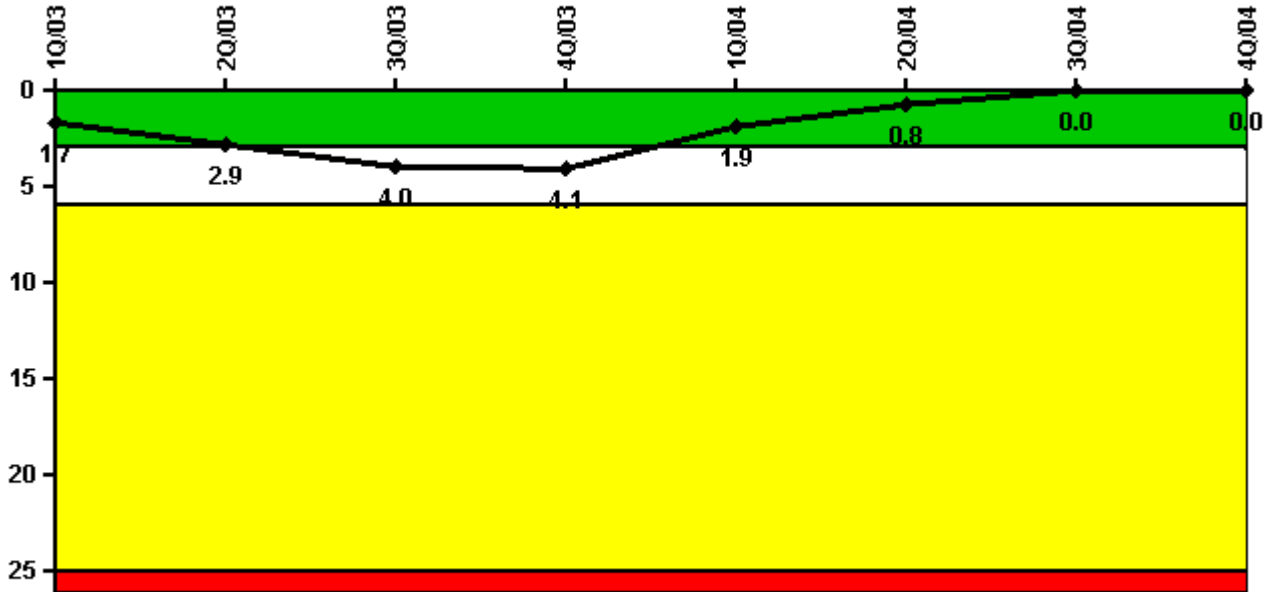


Surry 1

4Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



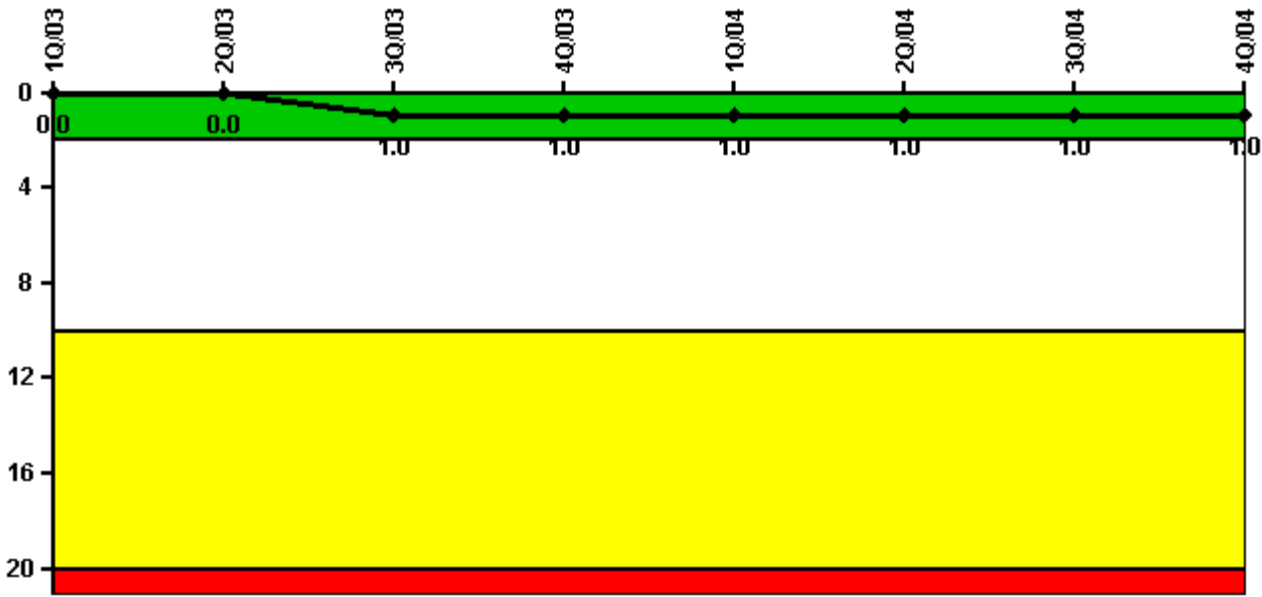
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned scrams	2.0	1.0	1.0	0	0	0	0	0
Critical hours	1869.5	855.8	2147.7	2008.7	2184.0	2183.0	2208.0	1422.9
Indicator value	1.7	2.9	4.0	4.1	1.9	0.8	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



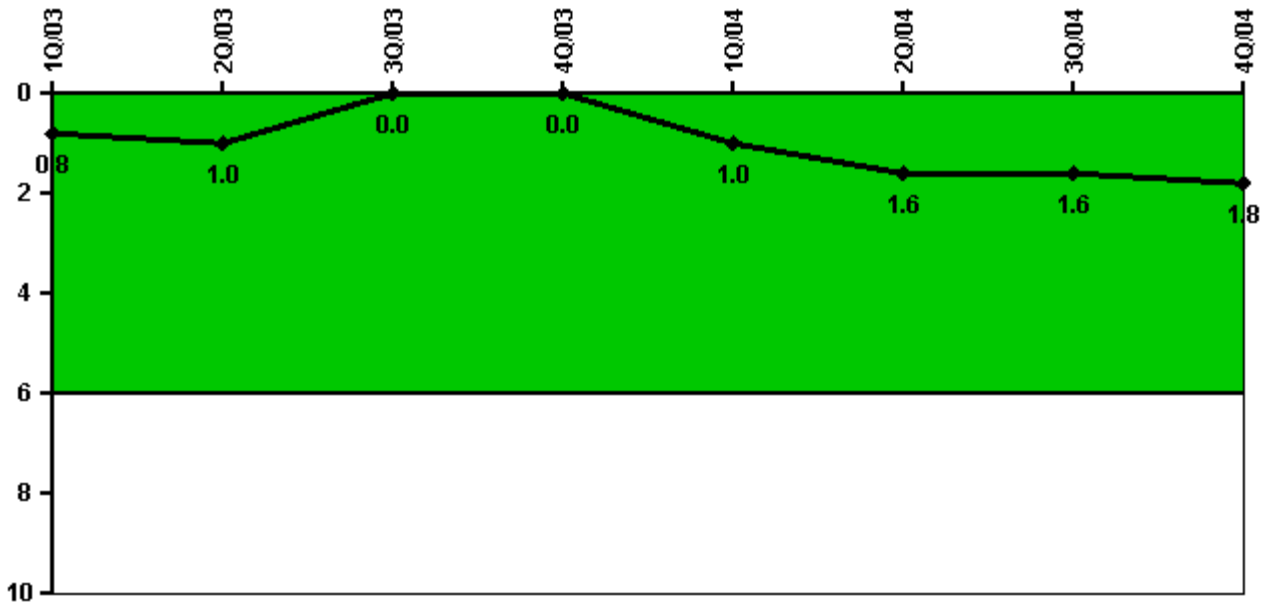
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Scrams	0	0	1.0	0	0	0	0	0
Indicator value	0	0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



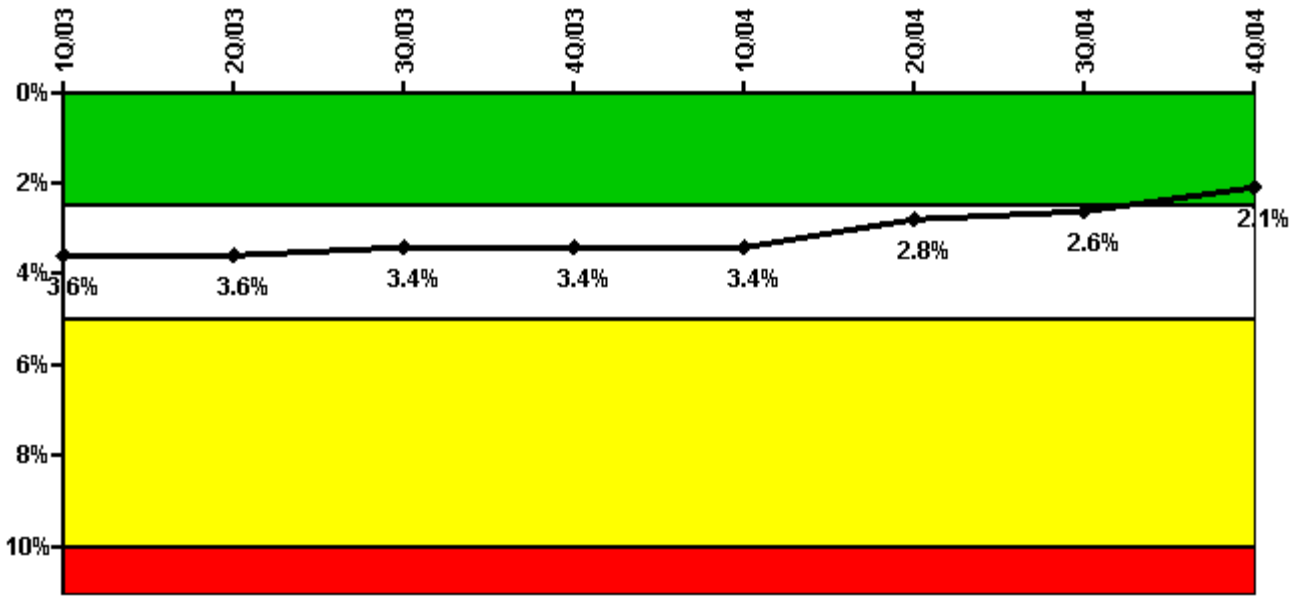
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned power changes	0	0	0	0	1.0	1.0	0	0
Critical hours	1869.5	855.8	2147.7	2008.7	2184.0	2183.0	2208.0	1422.9
Indicator value	0.8	1.0	0	0	1.0	1.6	1.6	1.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



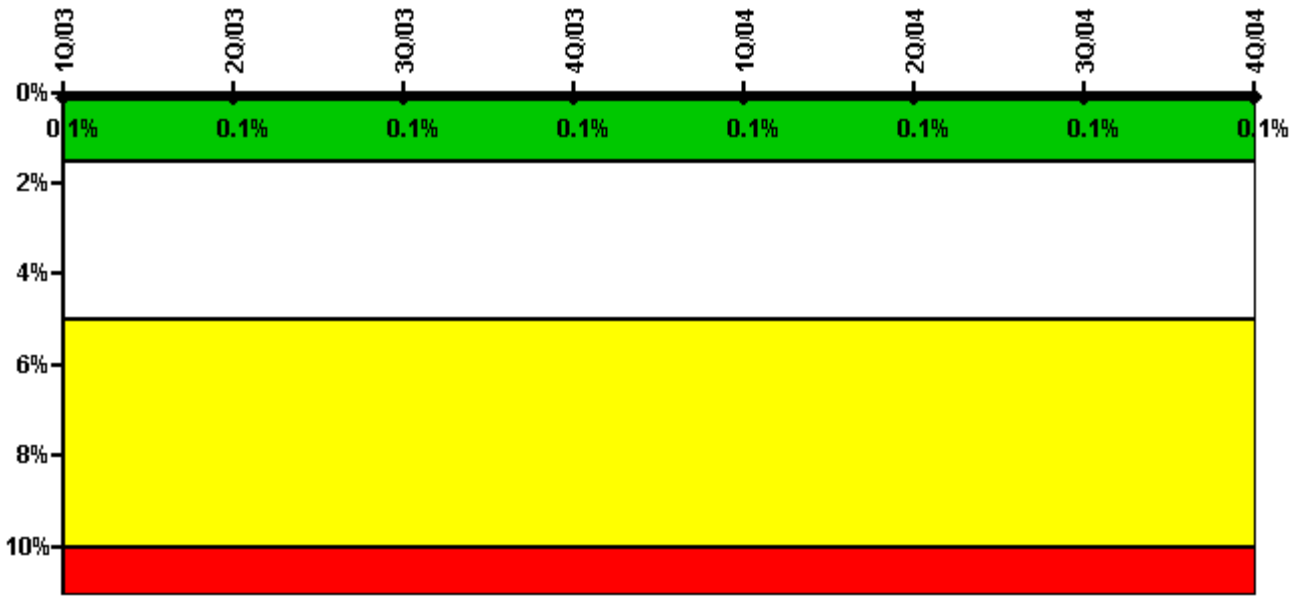
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	84.65	15.03	12.37	11.25	12.45	16.57	17.50	10.27
Unplanned unavailable hours	0	0	2.95	0	3.83	0	31.00	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1963.67	983.09	2208.00	2055.52	2184.00	2183.00	2208.00	1462.22
Train 2								
Planned unavailable hours	10.36	10.49	18.78	23.33	21.23	18.94	22.14	18.94
Unplanned unavailable hours	120.18	7.42	0	0	0	9.23	0	9.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1963.67	983.09	2208.00	2055.52	2184.00	2183.00	2208.00	1462.22
Indicator value	3.6%	3.6%	3.4%	3.4%	3.4%	2.8%	2.6%	2.1%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



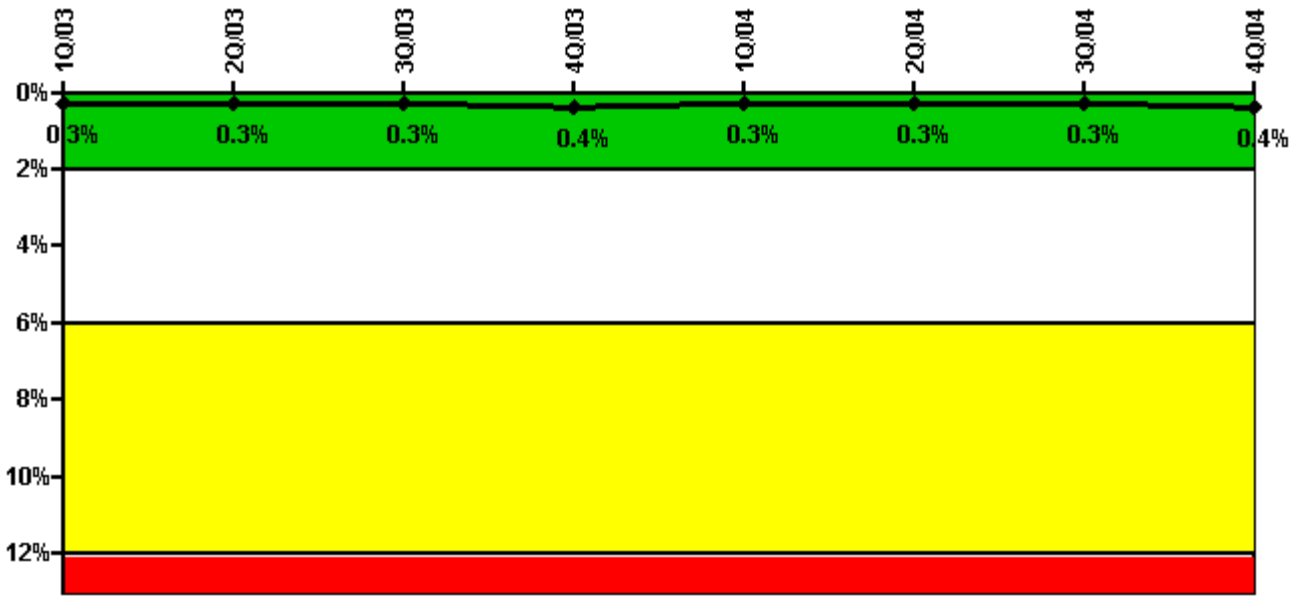
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0	0	1.65	1.18	0	5.03	2.36	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1048.50	2208.00	2007.00	2184.00	2183.00	2208.00	1422.90
Train 2								
Planned unavailable hours	1.83	21.50	1.27	11.10	1.85	3.02	1.25	7.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1048.50	2208.00	2007.00	2184.00	2183.00	2208.00	1422.90
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

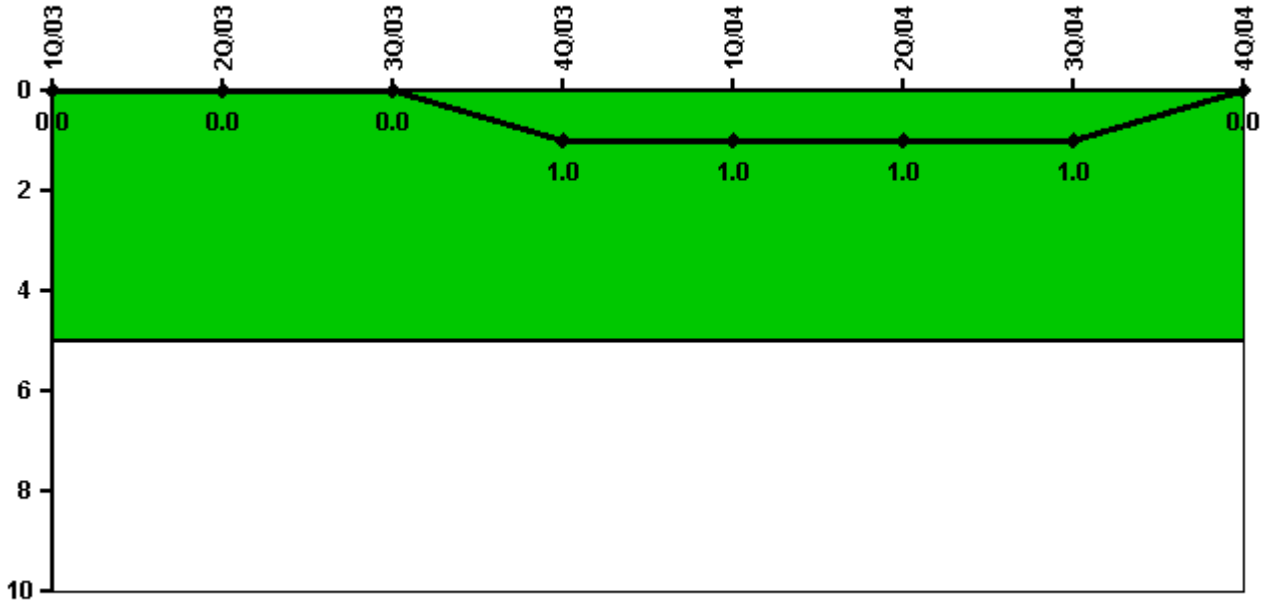
Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0.88	2.90	2.03	14.03	0.80	0.60	1.18	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1164.50	2208.00	2208.00	2184.00	2183.00	2208.00	1462.20
Train 2								
Planned unavailable hours	1.20	0	1.05	1.65	10.00	1.35	1.58	2.85
Unplanned unavailable hours	0	0	0	0	0	0	0	9.98
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1164.50	2208.00	2208.00	2184.00	2183.00	2208.00	1462.20
Train 3								
Planned unavailable hours	2.50	0	12.00	35.52	1.65	1.58	15.15	1.20
Unplanned unavailable hours	71.30	0	0	0	0	0	0	17.71
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1951.00	981.50	2208.00	2007.00	2184.00	2183.00	2208.00	1441.60
Indicator value	0.3%	0.3%	0.3%	0.4%	0.3%	0.3%	0.3%	0.4%

Licensee Comments: none

Licensee Comments: none

Safety System Functional Failures (PWR)



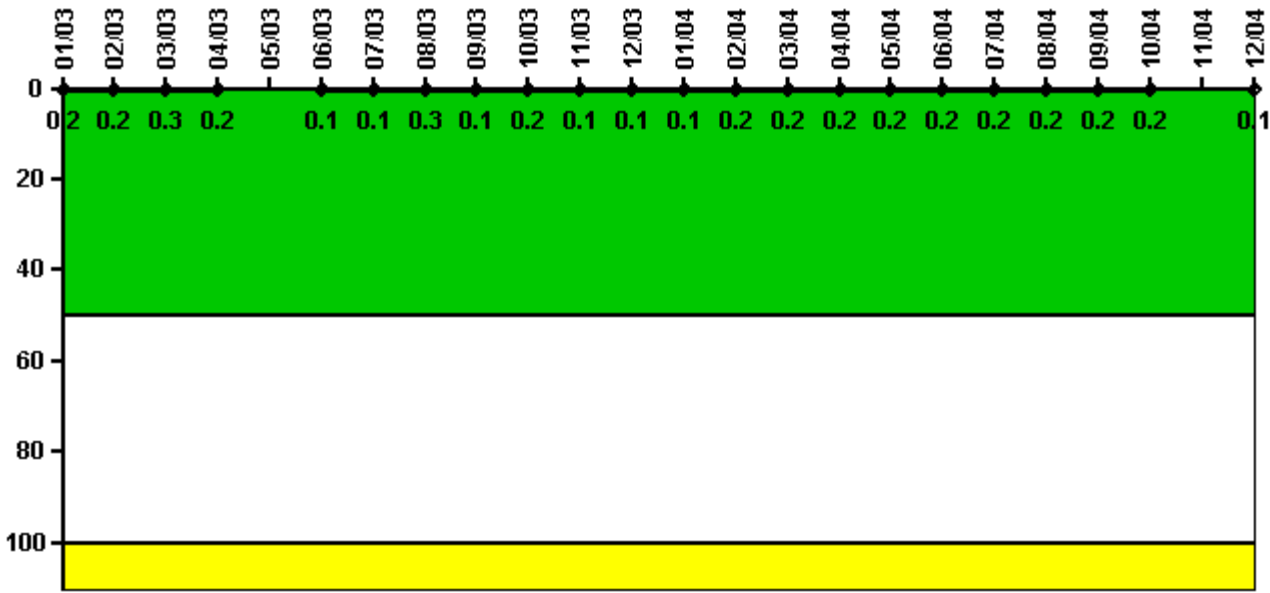
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Safety System Functional Failures	0	0	0	1	0	0	0	0
Indicator value	0	0	0	1	1	1	1	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

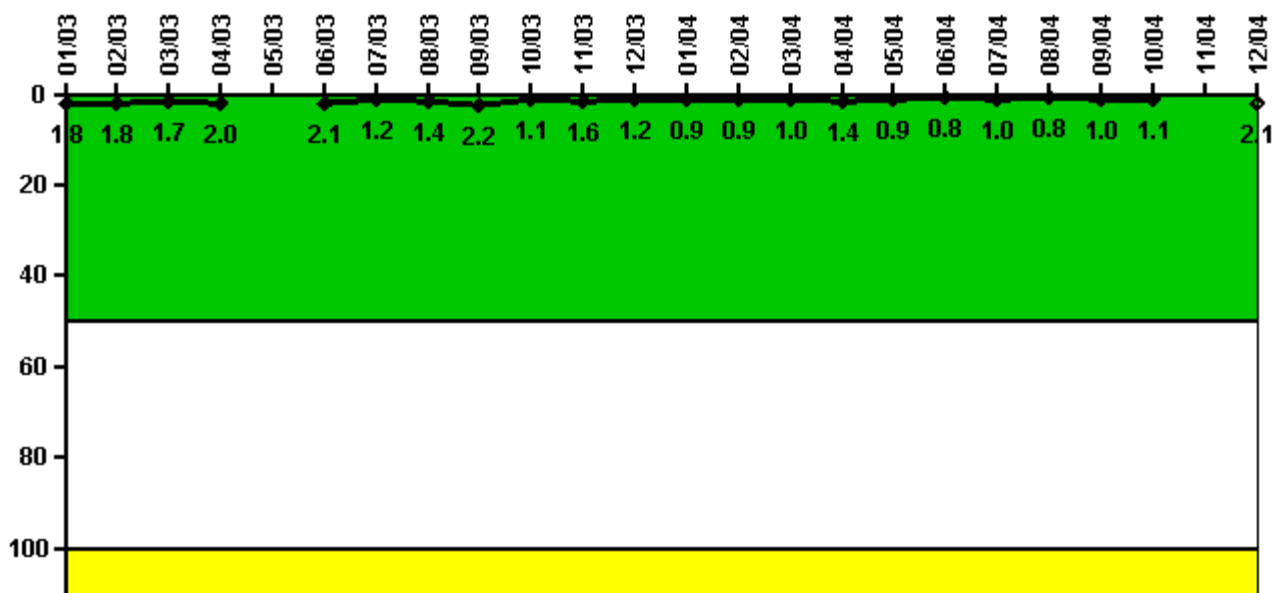
Notes

Reactor Coolant System Activity	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum activity	0.001870	0.001920	0.002810	0.002100	N/A	0.000956	0.001080	0.002690	0.001380	0.002180	0.001300	0.001400
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	0.3	0.2	N/A	0.1	0.1	0.3	0.1	0.2	0.1	0.1

Reactor Coolant System Activity	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum activity	0.001420	0.001540	0.001670	0.001720	0.001700	0.001710	0.001780	0.002040	0.001980	0.002010	N/A	0.000968
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N/A	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

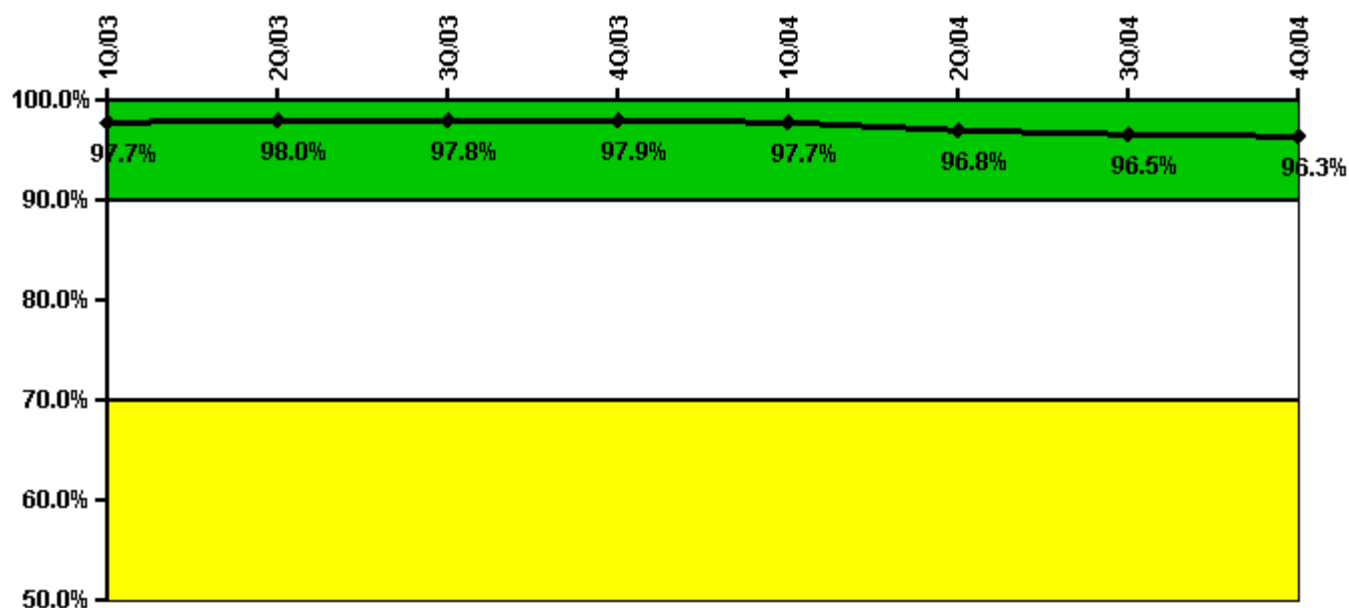
Notes

Reactor Coolant System Leakage	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum leakage	0.180	0.180	0.170	0.200	N/A	0.210	0.120	0.140	0.220	0.110	0.160	0.120
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	1.8	1.8	1.7	2.0	N/A	2.1	1.2	1.4	2.2	1.1	1.6	1.2

Reactor Coolant System Leakage	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum leakage	0.090	0.090	0.100	0.140	0.090	0.080	0.100	0.080	0.100	0.110	N/A	0.210
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	0.9	1.0	1.4	0.9	0.8	1.0	0.8	1.0	1.1	N/A	2.1

Licensee Comments: none

Drill/Exercise Performance



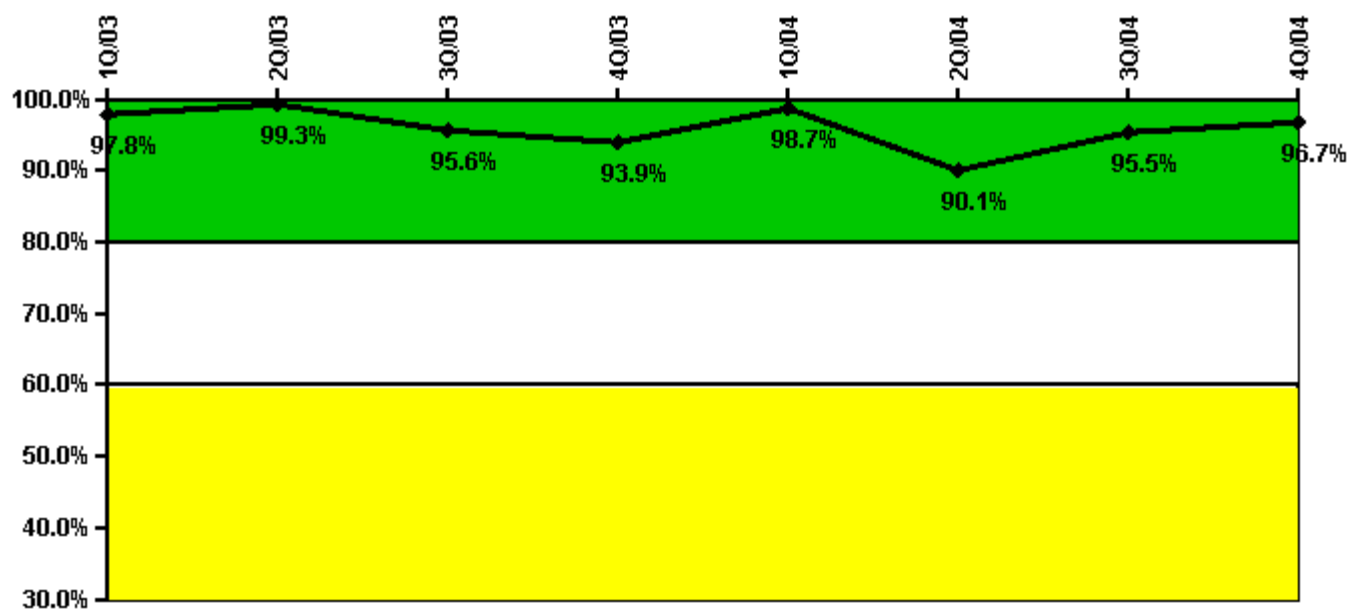
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	14.0	48.0	51.0	0	16.0	12.0	32.0	8.0
Total opportunities	14.0	49.0	54.0	0	16.0	13.0	34.0	8.0
Indicator value	97.7%	98.0%	97.8%	97.9%	97.7%	96.8%	96.5%	96.3%

Licensee Comments: none

ERO Drill Participation



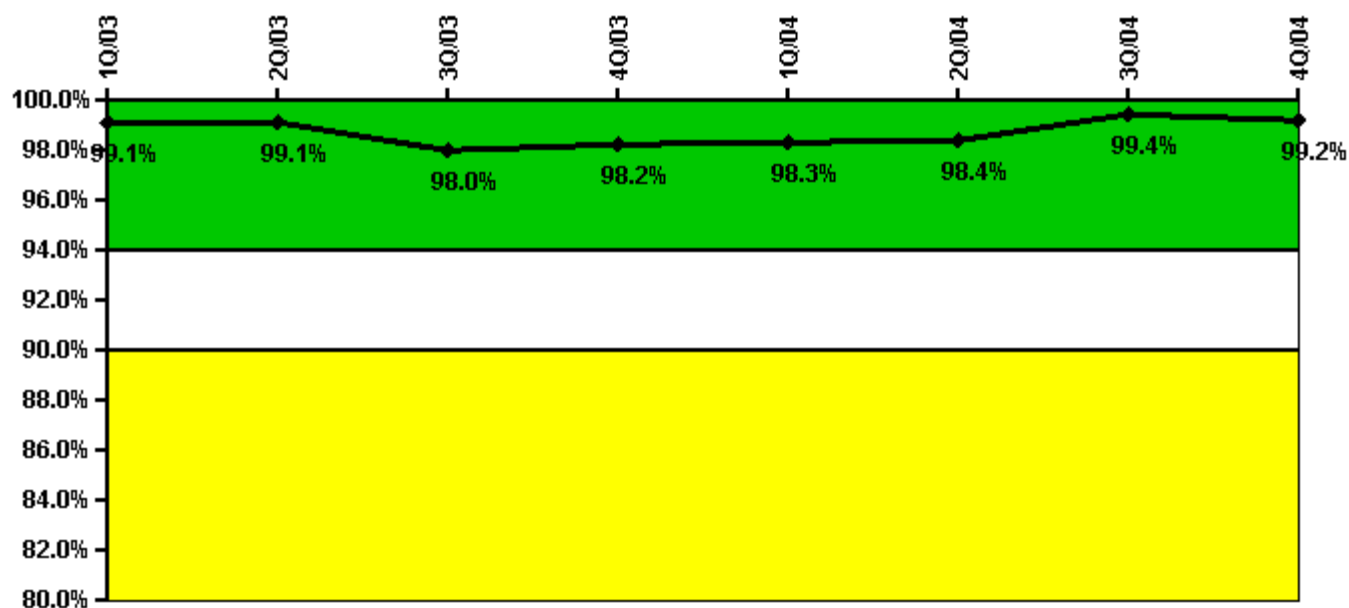
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	136.0	137.0	152.0	154.0	156.0	145.0	150.0	148.0
Total Key personnel	139.0	138.0	159.0	164.0	158.0	161.0	157.0	153.0
Indicator value	97.8%	99.3%	95.6%	93.9%	98.7%	90.1%	95.5%	96.7%

Licensee Comments: none

Alert & Notification System



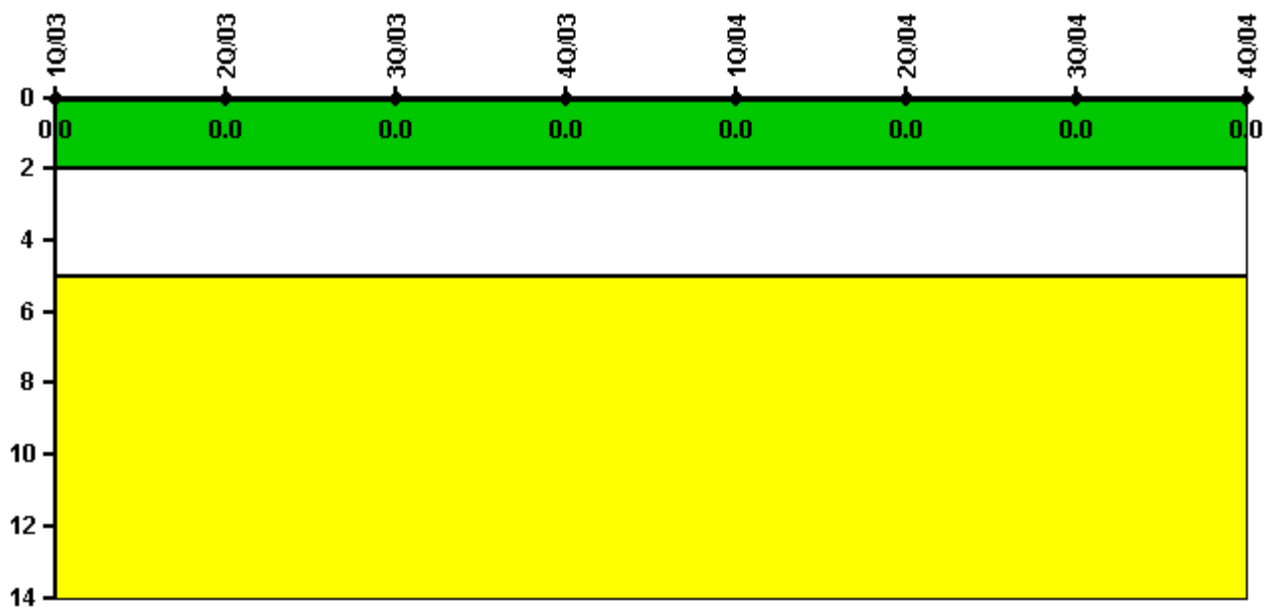
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful siren-tests	525	531	510	600	467	533	532	461
Total sirens-tests	530	536	536	603	469	536	536	469
Indicator value	99.1%	99.1%	98.0%	98.2%	98.3%	98.4%	99.4%	99.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness



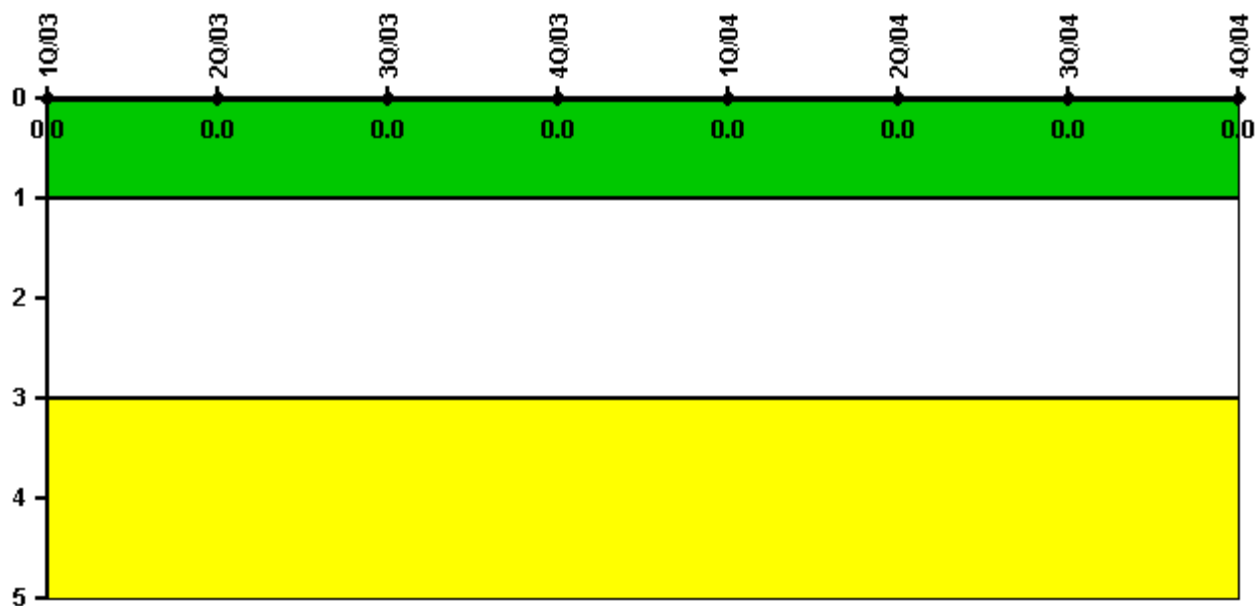
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
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	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
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.

▲ [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 9, 2005