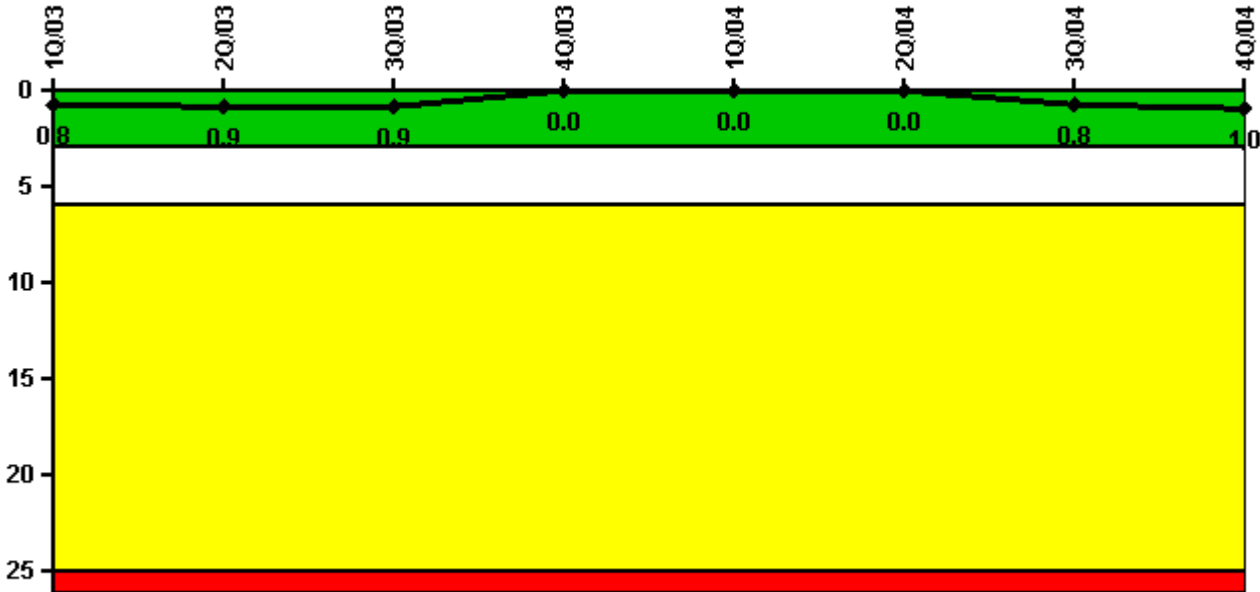


Palisades

4Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



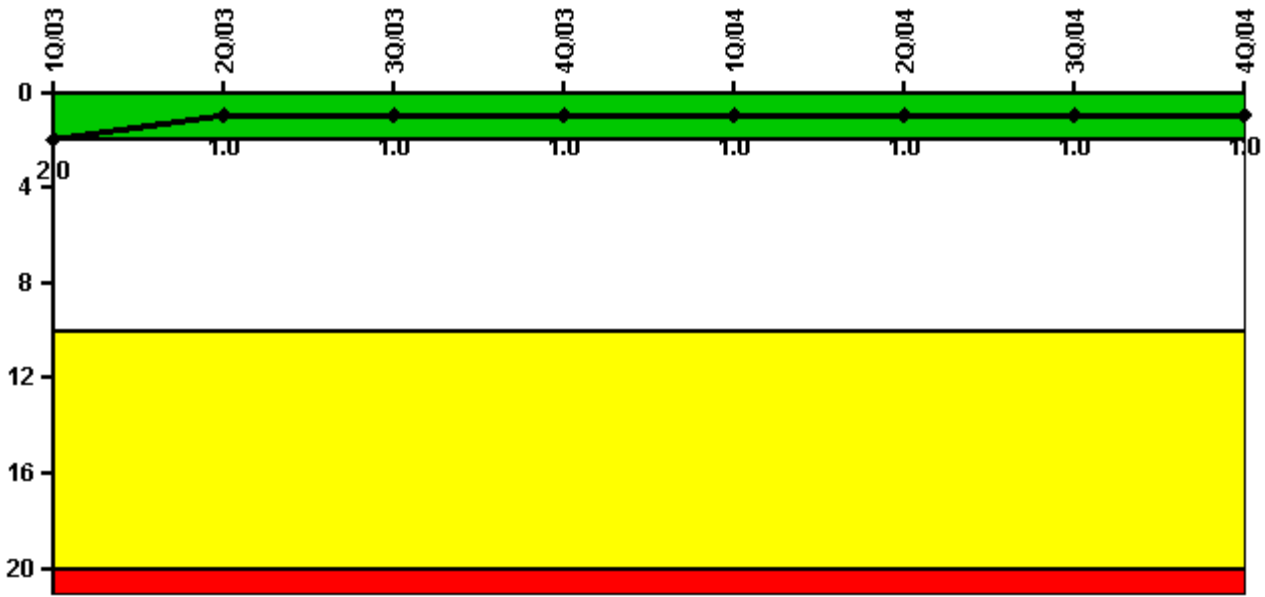
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	0	0	1.0	0
Critical hours	1782.4	1743.9	2208.0	2209.0	2184.0	2183.0	1756.4	1104.6
Indicator value	0.8	0.9	0.9	0	0	0	0.8	1.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



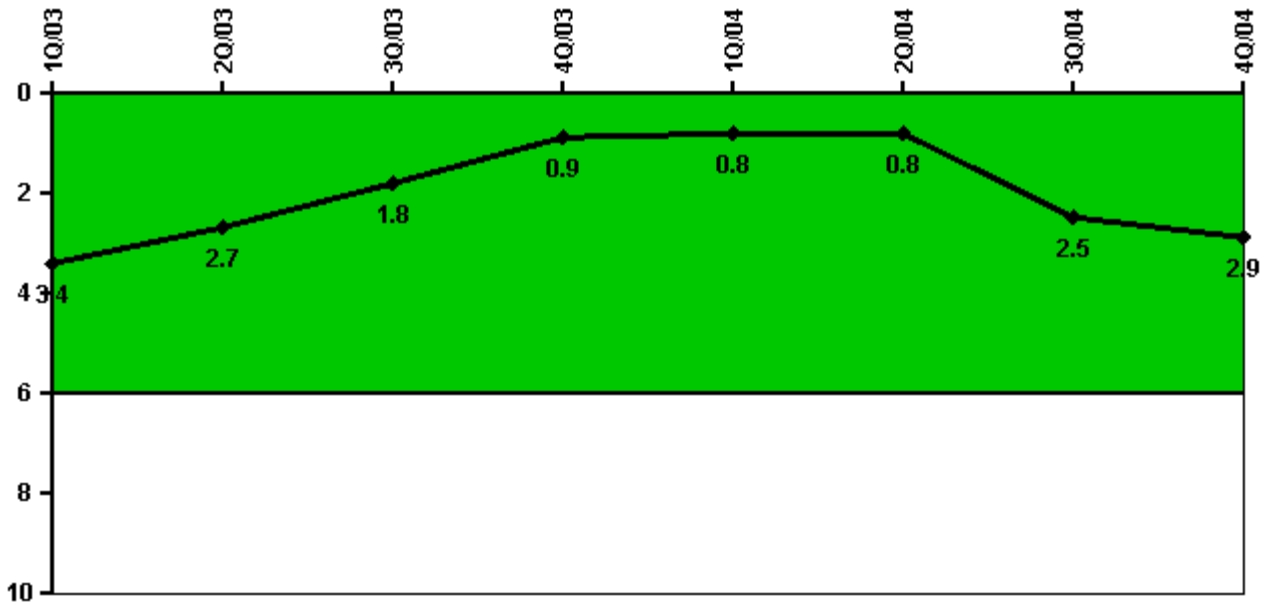
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

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	0	0	0	0	0	0
Indicator value	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



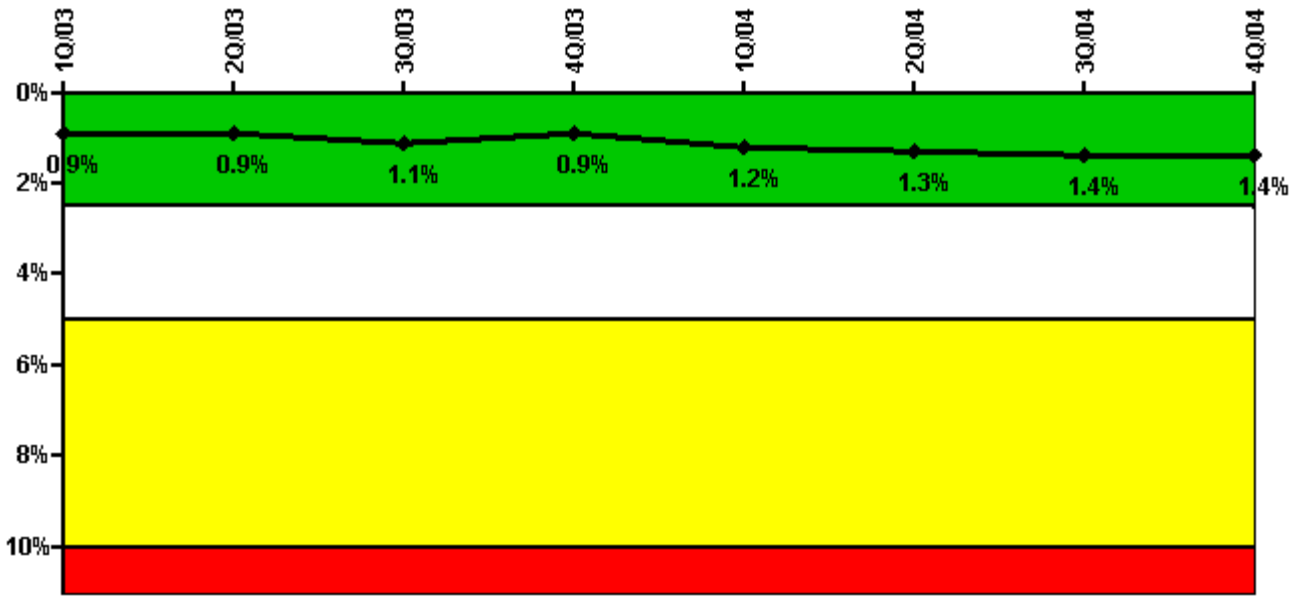
Thresholds: White > 6.0

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	1.0	0	0	0	1.0	0	2.0	0
Critical hours	1782.4	1743.9	2208.0	2209.0	2184.0	2183.0	1756.4	1104.6
Indicator value	3.4	2.7	1.8	0.9	0.8	0.8	2.5	2.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



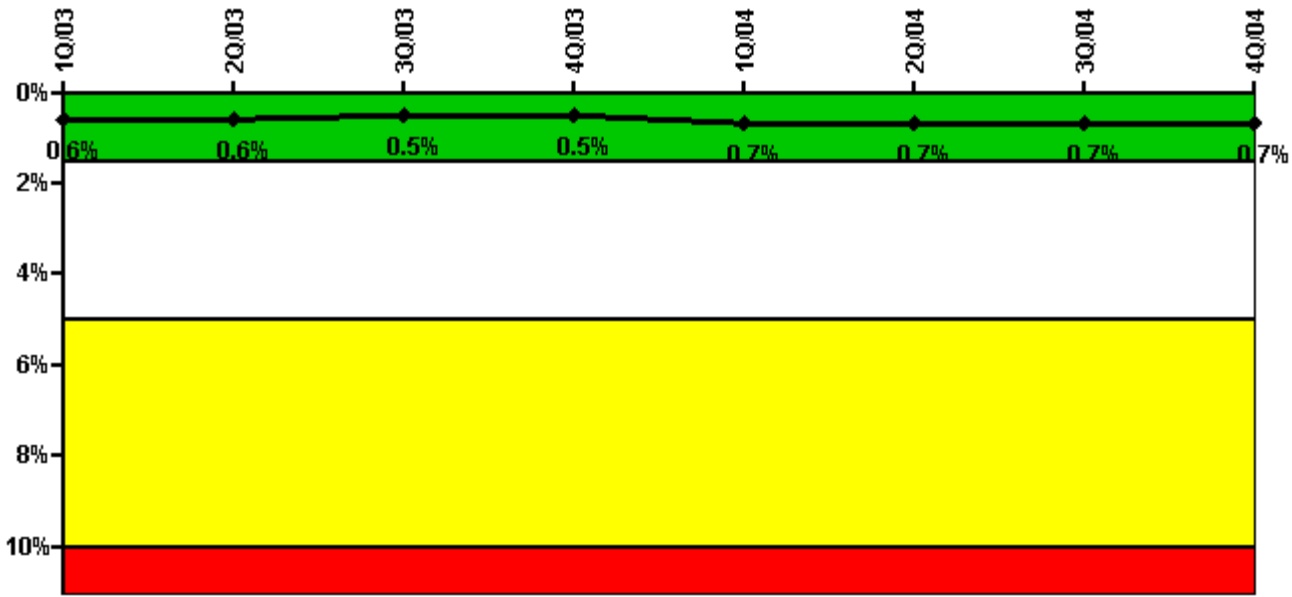
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

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	7.33	12.80	33.60	0.64	104.05	5.11	6.53	1.50
Unplanned unavailable hours	5.57	0	11.20	46.35	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	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	2.67	17.57	42.75	0.47	0.96	86.40	6.33	0.20
Unplanned unavailable hours	15.77	0	0	0	48.40	0	1.43	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	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	0.9%	0.9%	1.1%	0.9%	1.2%	1.3%	1.4%	1.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



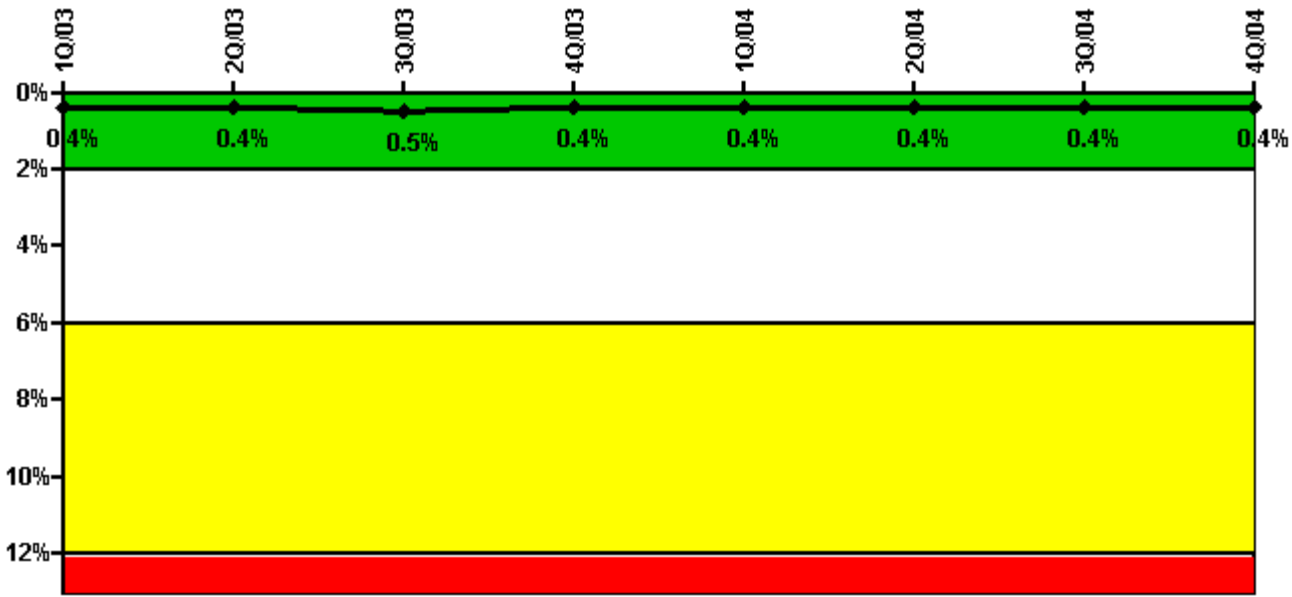
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	18.96	12.78	0	8.08	46.50	3.86	33.19	0.75
Unplanned unavailable hours	0	0	0	4.25	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	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47
Train 2								
Planned unavailable hours	6.29	0	2.40	0.47	30.65	7.15	18.44	0.97
Unplanned unavailable hours	0	0	43.57	0	0	8.60	0	0
Fault exposure hours	0	0	0	3.95	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47
Indicator value	0.6%	0.6%	0.5%	0.5%	0.7%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

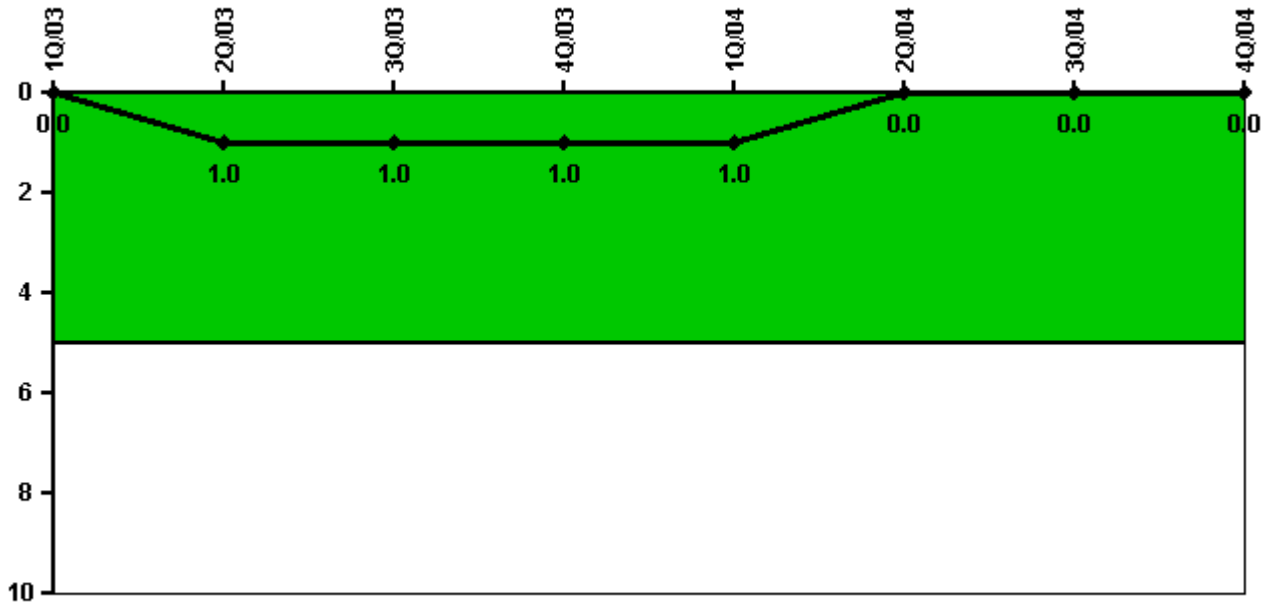
Notes

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	1.42	1.27	25.78	2.01	1.64	4.68	1.45	2.25
Unplanned unavailable hours	0.32	0	25.37	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	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47
Train 2								
Planned unavailable hours	1.88	15.51	18.57	2.05	6.97	5.13	1.33	2.32
Unplanned unavailable hours	0.32	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	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1776.03	1104.63
Train 3								
Planned unavailable hours	10.15	35.80	1.82	15.91	22.02	3.73	0.65	0
Unplanned unavailable hours	0.18	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	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47
Indicator value	0.4%	0.4%	0.5%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Licensee Comments: none

Safety System Functional Failures (PWR)



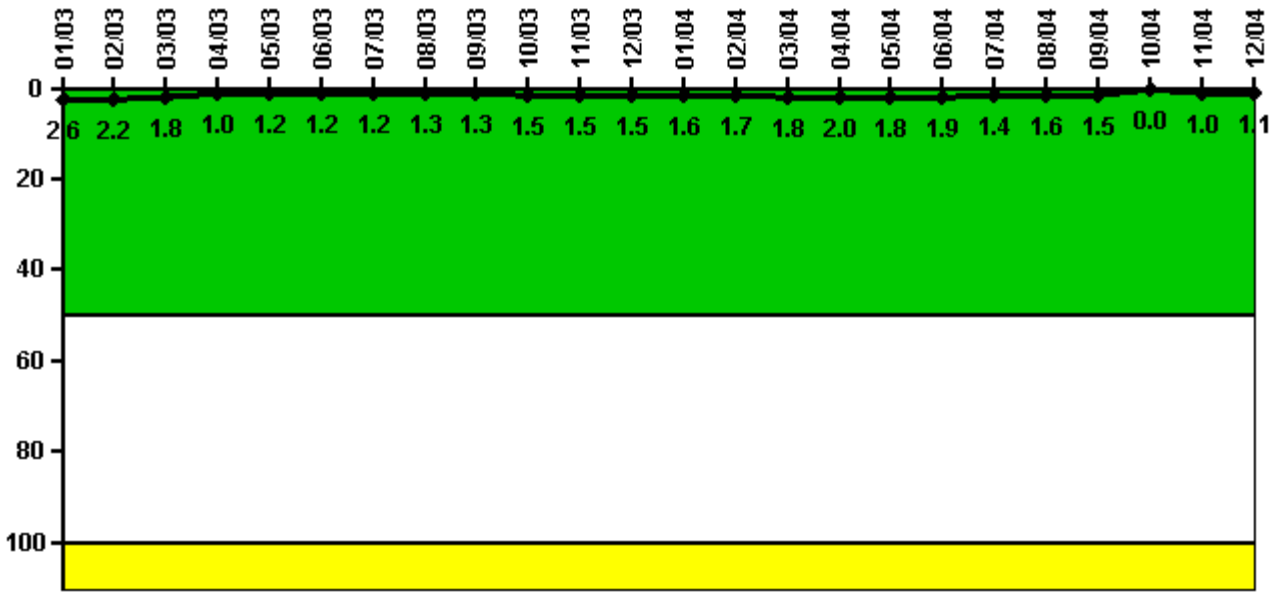
Thresholds: White > 5.0

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	1	0	0	0	0	0	0
Indicator value	0	1	1	1	1	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



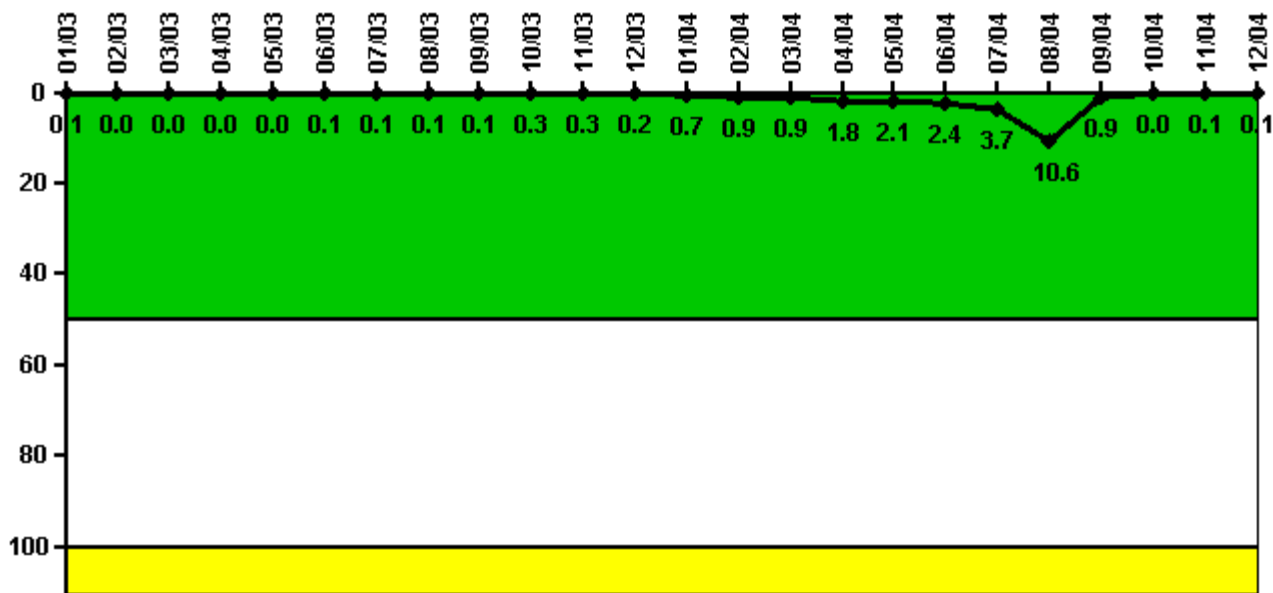
Thresholds: White > 50.0 Yellow > 100.0

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	0.026000	0.022200	0.017900	0.009580	0.011800	0.011600	0.012200	0.012800	0.013300	0.014600	0.014900	0.015400
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	2.6	2.2	1.8	1.0	1.2	1.2	1.2	1.3	1.3	1.5	1.5	1.5
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	0.016100	0.016600	0.018400	0.019700	0.018400	0.018800	0.014000	0.016000	0.015000	0.000003	0.010100	0.011100
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	1.6	1.7	1.8	2.0	1.8	1.9	1.4	1.6	1.5	0	1.0	1.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

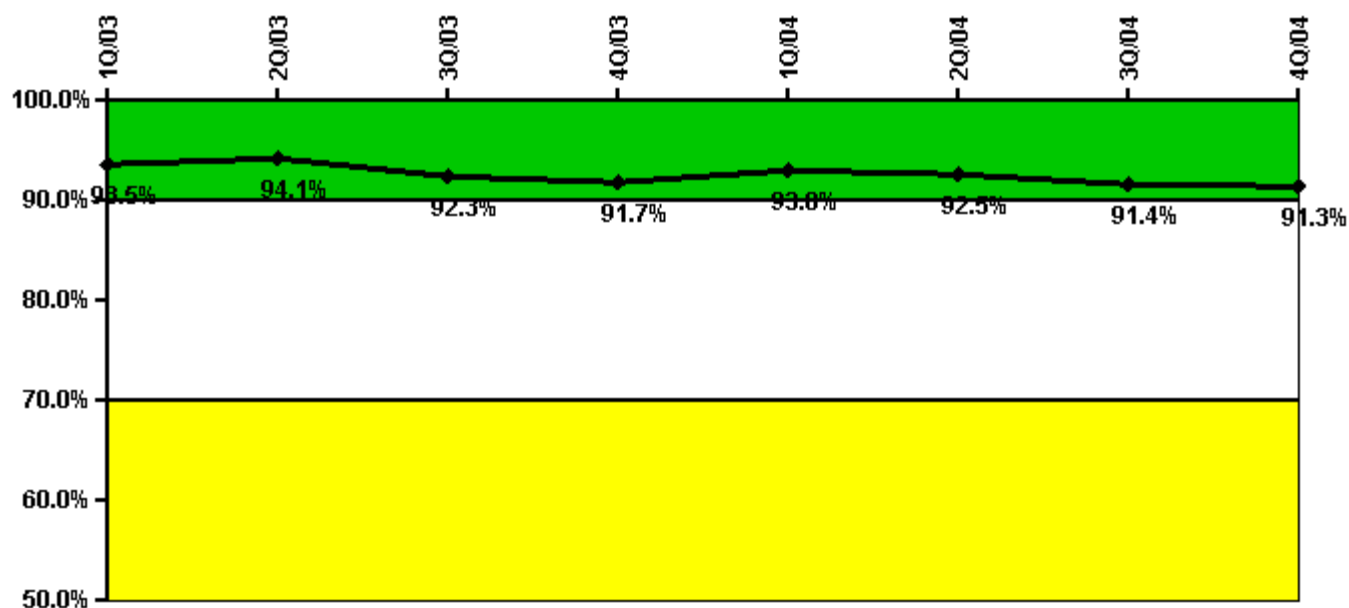
Notes

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	0.005	0.001	0.001	0.002	0.002	0.007	0.013	0.013	0.011	0.029	0.026	0.018
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	0.1	0	0	0	0	0.1	0.1	0.1	0.1	0.3	0.3	0.2

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	0.073	0.085	0.094	0.180	0.209	0.240	0.370	1.057	0.085	0	0.005	0.011
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	0.9	0.9	1.8	2.1	2.4	3.7	10.6	0.9	0	0.1	0.1

Licensee Comments: none

Drill/Exercise Performance



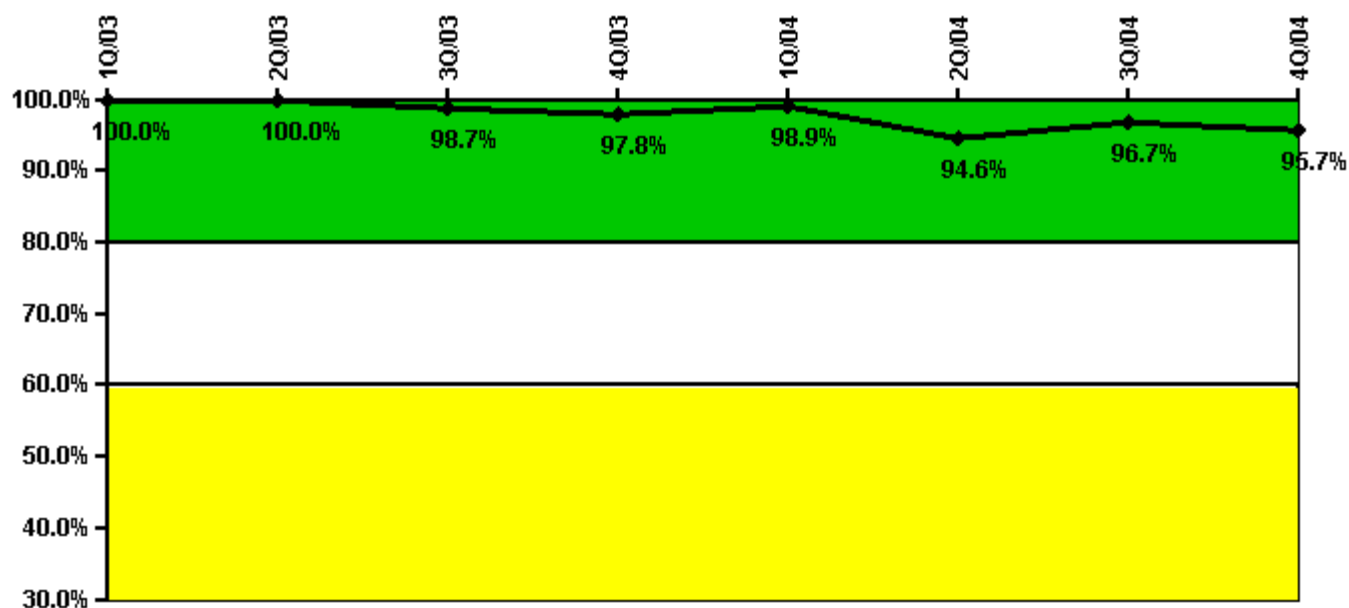
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	38.0	18.0	41.0	28.0	23.0	27.0	25.0	11.0
Total opportunities	39.0	18.0	48.0	32.0	25.0	28.0	29.0	12.0
Indicator value	93.5%	94.1%	92.3%	91.7%	93.0%	92.5%	91.4%	91.3%

Licensee Comments: none

ERO Drill Participation



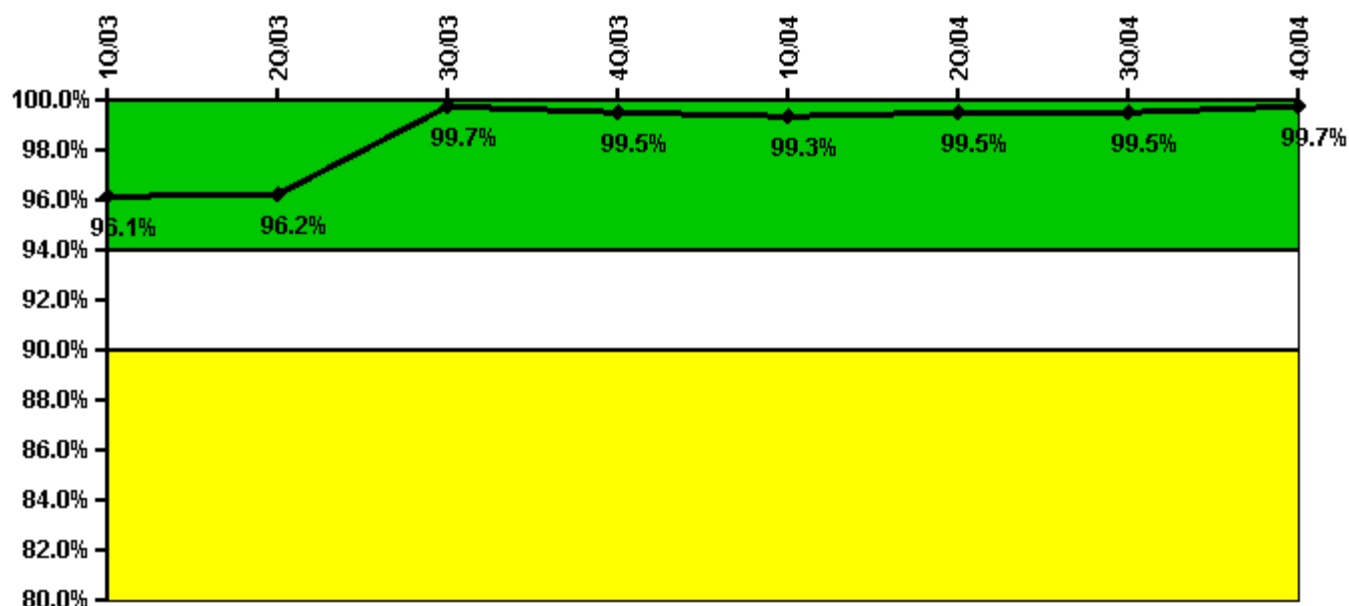
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	75.0	72.0	74.0	90.0	86.0	87.0	89.0	88.0
Total Key personnel	75.0	72.0	75.0	92.0	87.0	92.0	92.0	92.0
Indicator value	100.0%	100.0%	98.7%	97.8%	98.9%	94.6%	96.7%	95.7%

Licensee Comments: none

Alert & Notification System



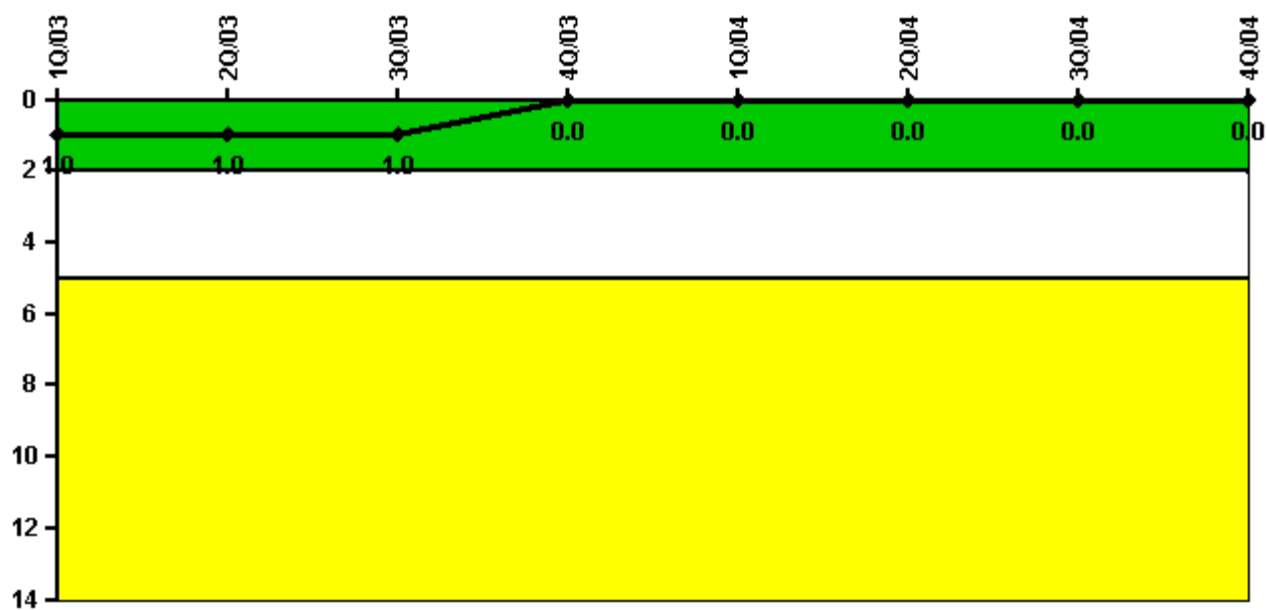
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful siren-tests	486	182	183	181	181	183	183	183
Total sirens-tests	488	183	183	183	183	183	183	183
Indicator value	96.1%	96.2%	99.7%	99.5%	99.3%	99.5%	99.5%	99.7%

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	1	1	1	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