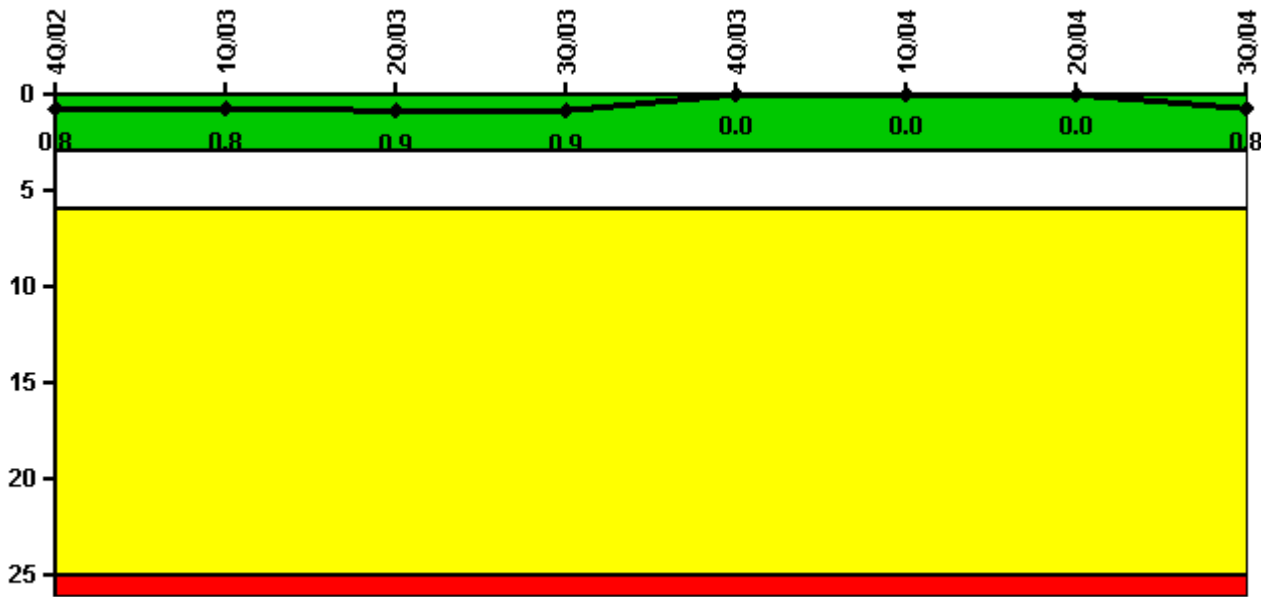


Palisades

3Q/2004 Performance Indicators

Licensee's General Comments: Data from 8/03 and 9/03 were updated as a result of a self-assessment and an NRC inspection. This update resulted in 8/03 changing from 16/16 opportunities to 14/16 opportunities, and the 9/03 data changing from 29/32 opportunities to 27/32 opportunities.

Unplanned Scrams per 7000 Critical Hrs



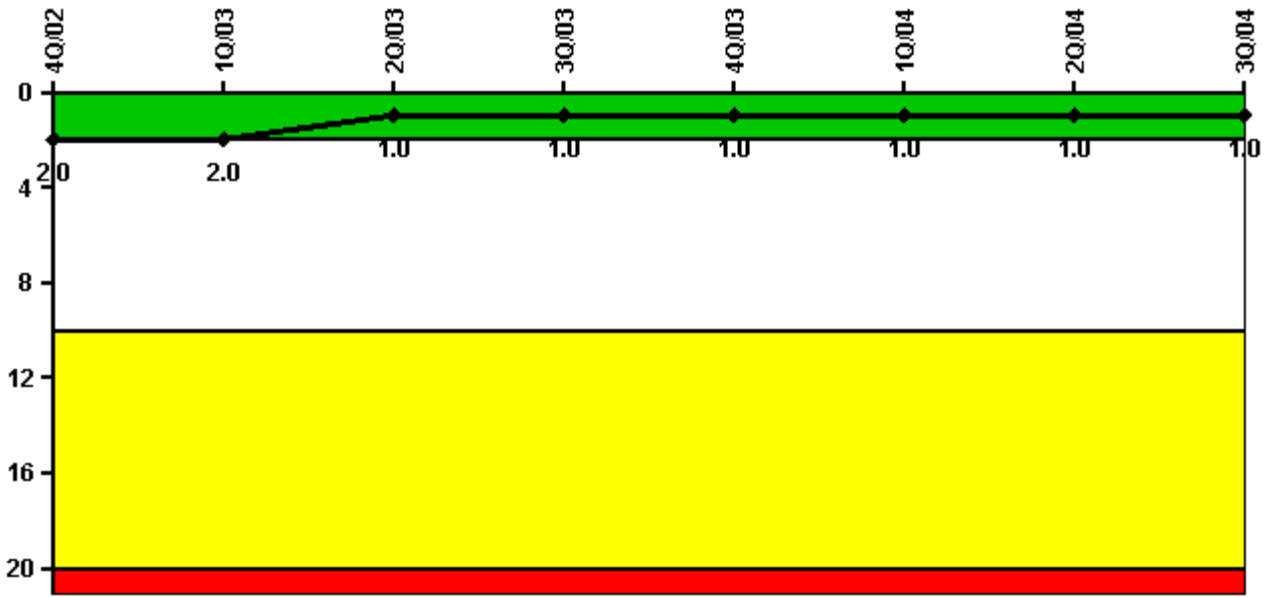
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned scrams	1.0	0	0	0	0	0	0	1.0
Critical hours	2142.1	1782.4	1743.9	2208.0	2209.0	2184.0	2183.0	1756.4
Indicator value	0.8	0.8	0.9	0.9	0	0	0	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



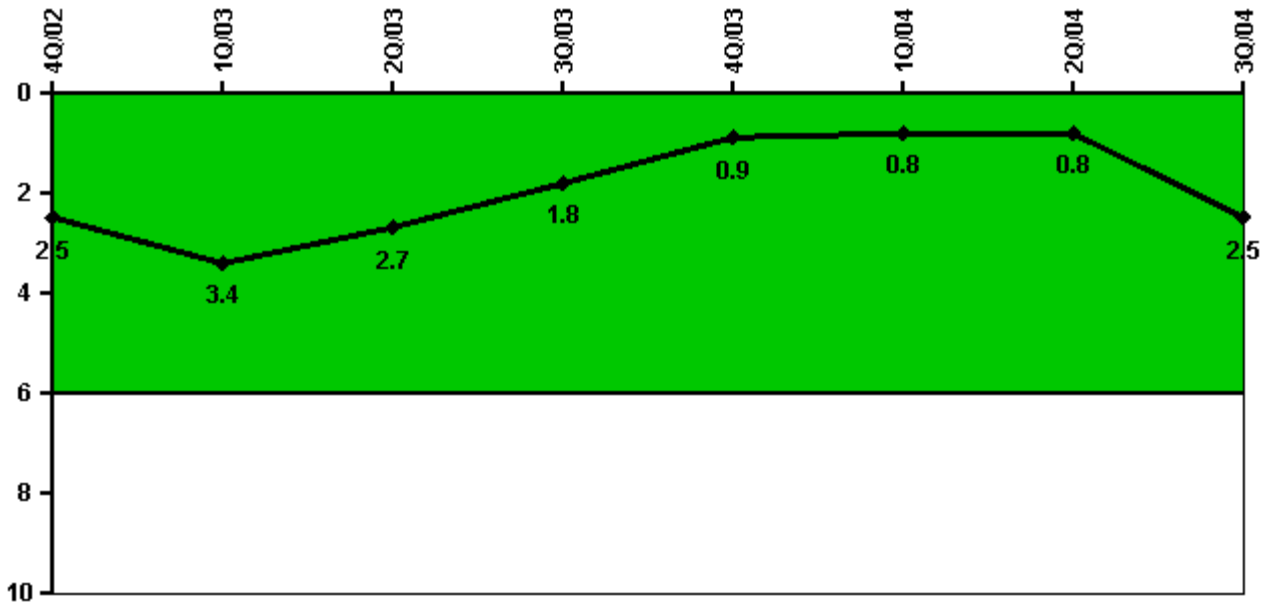
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Scrams	1.0	0	0	0	0	0	0	0
Indicator value	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



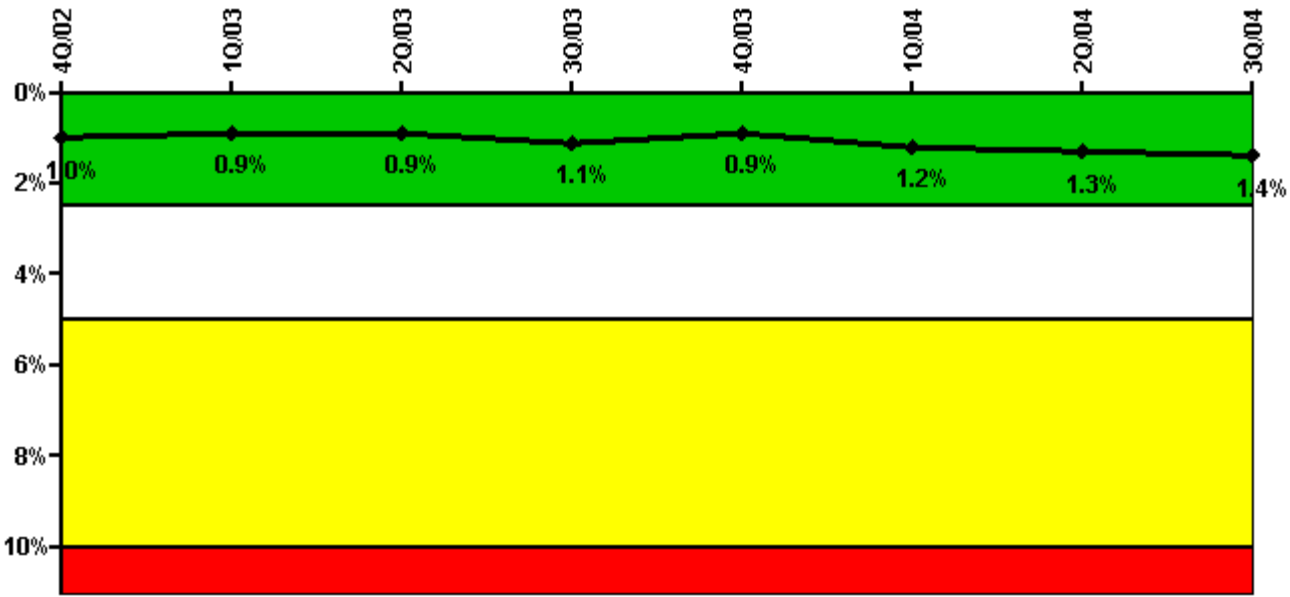
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned power changes	1.0	1.0	0	0	0	1.0	0	2.0
Critical hours	2142.1	1782.4	1743.9	2208.0	2209.0	2184.0	2183.0	1756.4
Indicator value	2.5	3.4	2.7	1.8	0.9	0.8	0.8	2.5

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



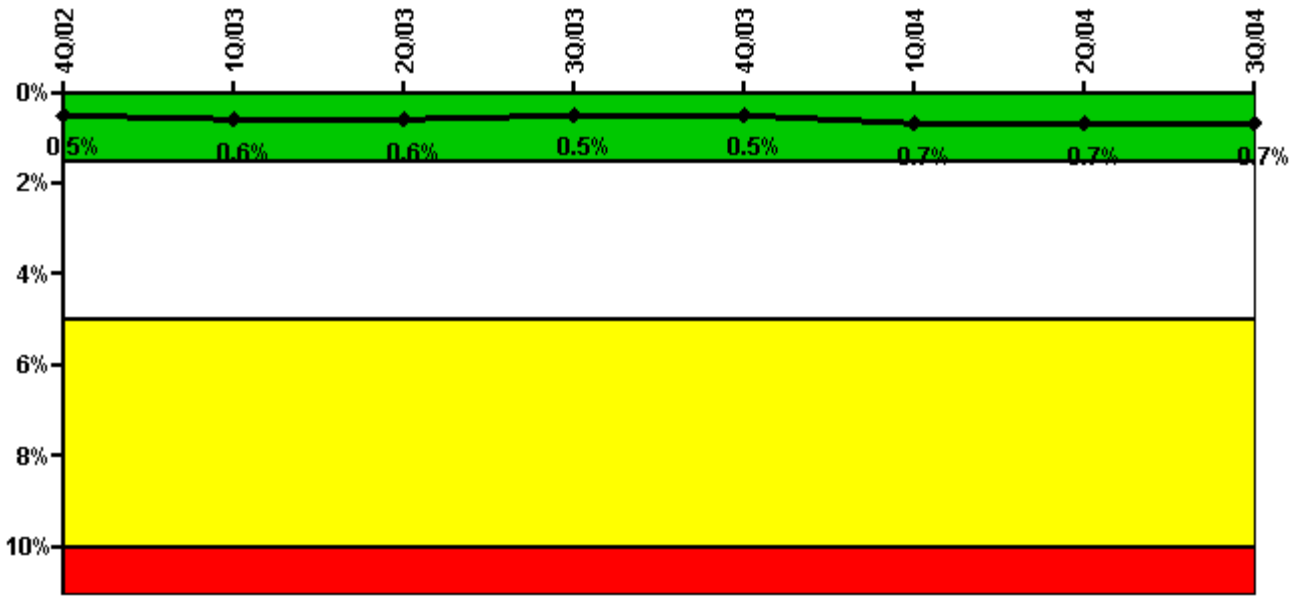
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	64.58	7.33	12.80	33.60	0.64	104.05	5.11	6.53
Unplanned unavailable hours	5.07	5.57	0	11.20	46.35	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	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	84.63	2.67	17.57	42.75	0.47	0.96	86.40	6.33
Unplanned unavailable hours	0	15.77	0	0	0	48.40	0	1.43
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	1.0%	0.9%	0.9%	1.1%	0.9%	1.2%	1.3%	1.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



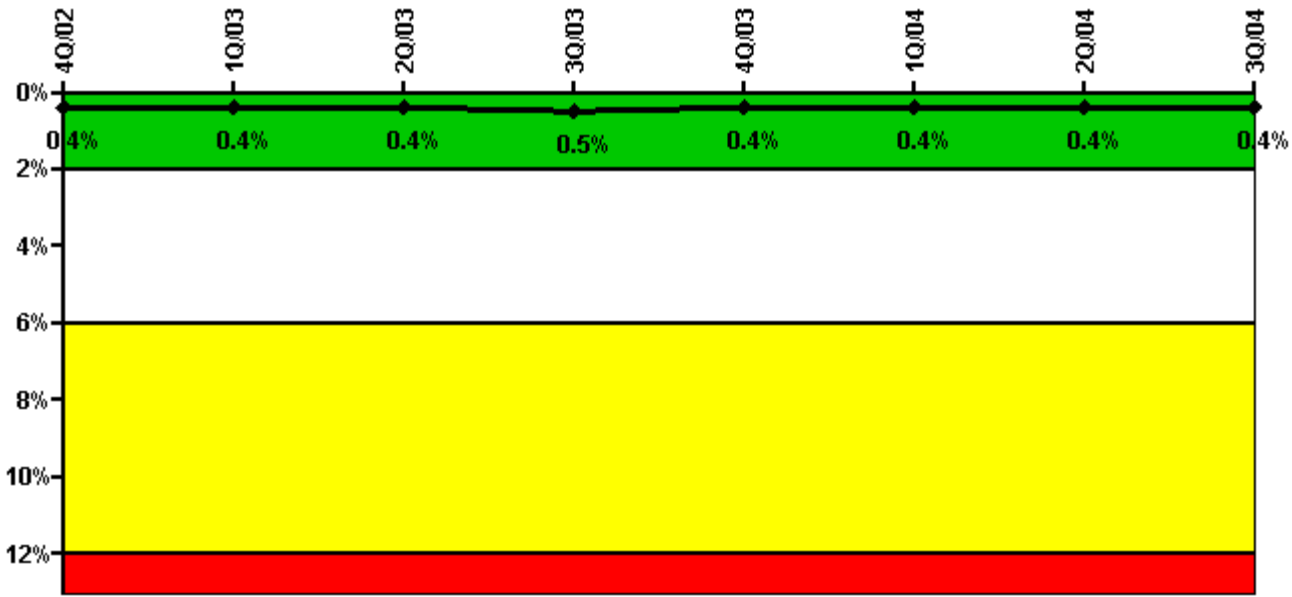
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	0.68	18.96	12.78	0	8.08	46.50	3.86	33.19
Unplanned unavailable hours	18.22	0	0	0	4.25	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	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31
Train 2								
Planned unavailable hours	4.22	6.29	0	2.40	0.47	30.65	7.15	18.44
Unplanned unavailable hours	0	0	0	43.57	0	0	8.60	0
Fault exposure hours	0	0	0	0	3.95	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31
Indicator value	0.5%	0.6%	0.6%	0.5%	0.5%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



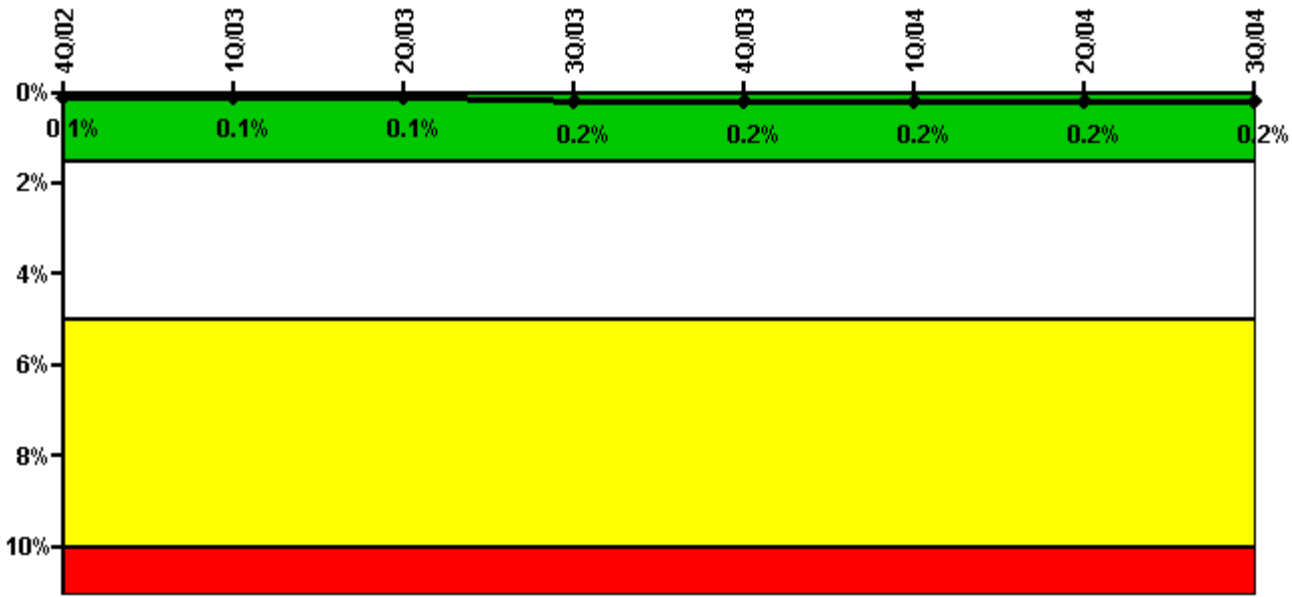
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	5.38	1.42	1.27	25.78	2.01	1.64	4.68	1.45
Unplanned unavailable hours	0	0.32	0	25.37	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	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31
Train 2								
Planned unavailable hours	2.06	1.88	15.51	18.57	2.05	6.97	5.13	1.33
Unplanned unavailable hours	0	0.32	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	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1776.03
Train 3								
Planned unavailable hours	0.95	10.15	35.80	1.82	15.91	22.02	3.73	0.65
Unplanned unavailable hours	0	0.18	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	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31
Indicator value	0.4%	0.4%	0.4%	0.5%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



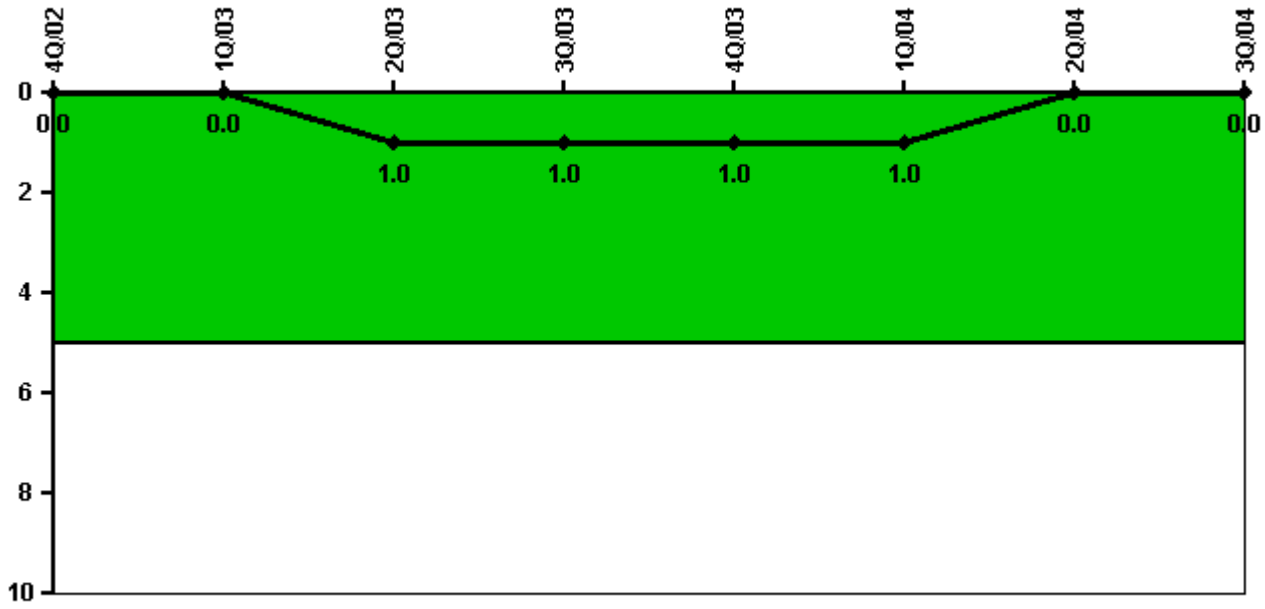
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	8.20	17.59	0.90	62.65	3.65	1.12	4.36	21.22
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	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31
Train 2								
Planned unavailable hours	0	3.38	0	0.05	0.47	0	1.30	9.88
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	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0.33	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	0	364.90	295.68	0	0	0	0	365.69
Train 4								
Planned unavailable hours	0	9.77	0	0	0	0	0	0
Unplanned unavailable hours	0	0.33	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	0	364.90	343.66	0	0	0	0	291.20
Indicator value	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



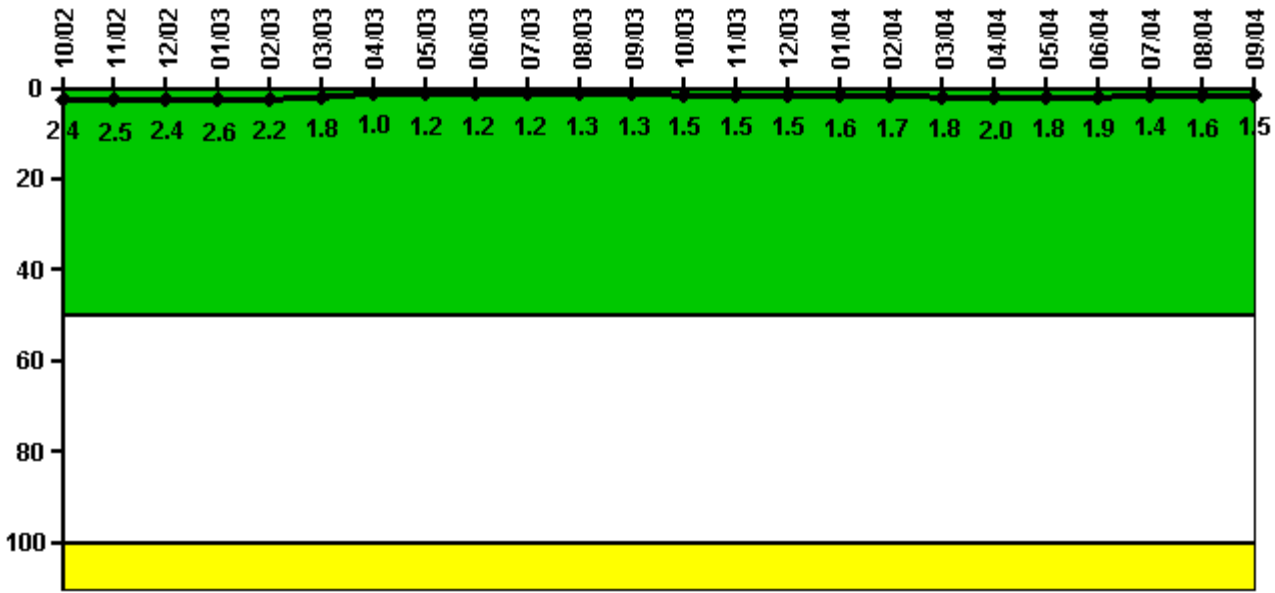
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Safety System Functional Failures	0	0	1	0	0	0	0	0
Indicator value	0	0	1	1	1	1	0	0

Licensee Comments: none

Reactor Coolant System Activity



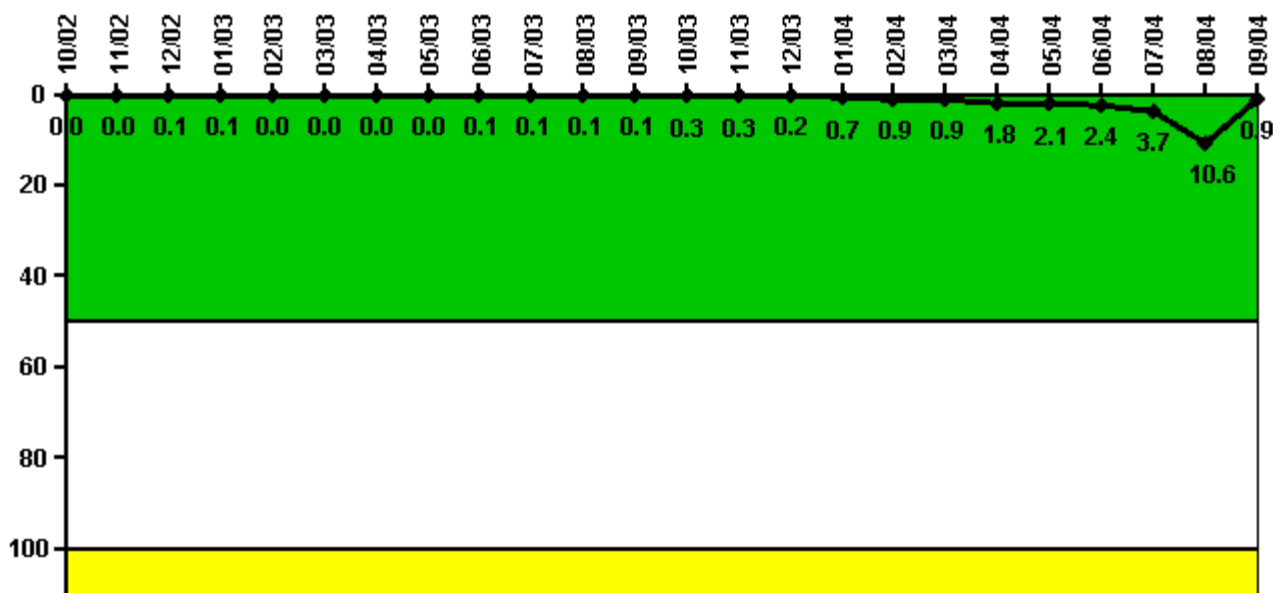
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum activity	0.023500	0.024700	0.024400	0.026000	0.022200	0.017900	0.009580	0.011800	0.011600	0.012200	0.012800	0.013300
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	2.4	2.5	2.4	2.6	2.2	1.8	1.0	1.2	1.2	1.2	1.3	1.3
Reactor Coolant System Activity	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum activity	0.014600	0.014900	0.015400	0.016100	0.016600	0.018400	0.019700	0.018400	0.018800	0.014000	0.016000	0.015000
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	1.5	1.5	1.5	1.6	1.7	1.8	2.0	1.8	1.9	1.4	1.6	1.5

Licensee Comments: none

Reactor Coolant System Leakage



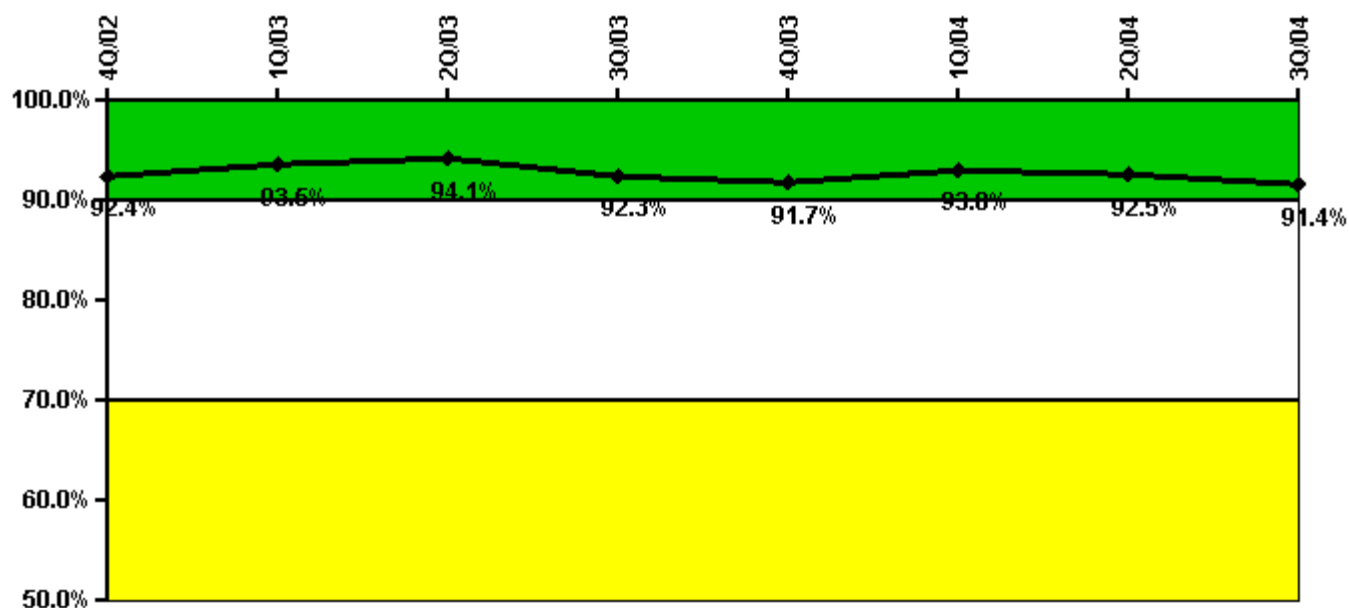
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	0.001	0.001	0.005	0.005	0.001	0.001	0.002	0.002	0.007	0.013	0.013	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	0	0.1	0.1	0	0	0	0	0.1	0.1	0.1	0.1
Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	0.029	0.026	0.018	0.073	0.085	0.094	0.180	0.209	0.240	0.370	1.057	0.085
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	0.3	0.3	0.2	0.7	0.9	0.9	1.8	2.1	2.4	3.7	10.6	0.9

Licensee Comments: none

Drill/Exercise Performance



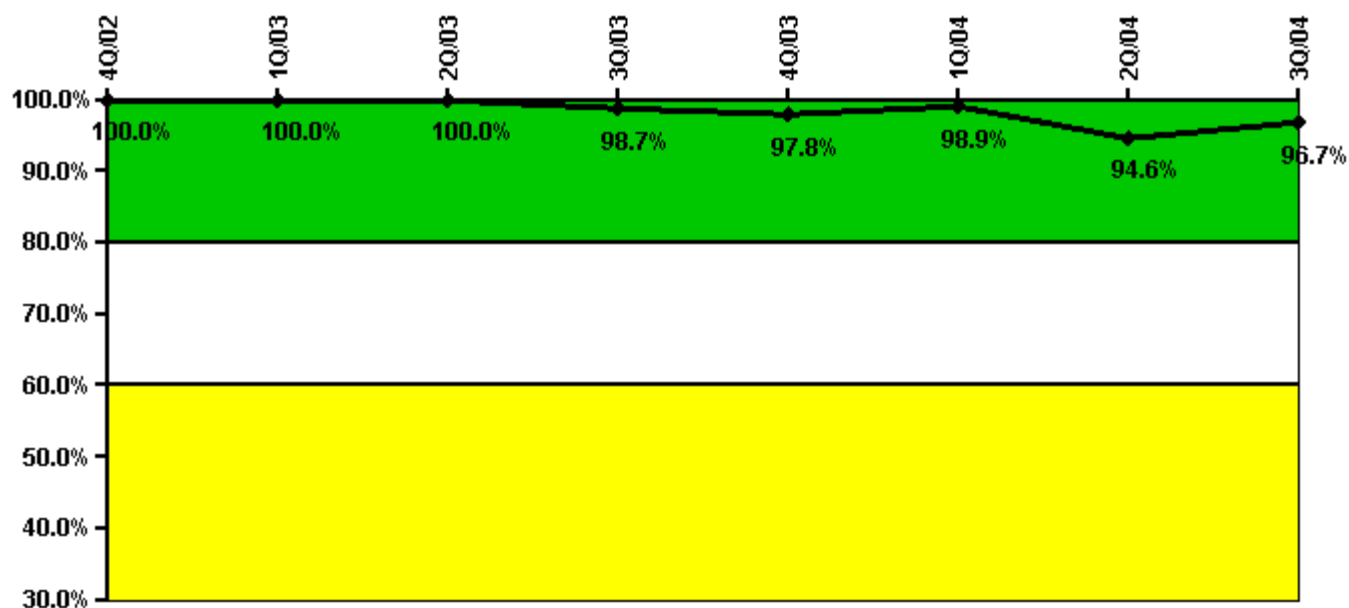
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful opportunities	24.0	38.0	18.0	41.0	28.0	23.0	27.0	25.0
Total opportunities	26.0	39.0	18.0	48.0	32.0	25.0	28.0	29.0
Indicator value	92.4%	93.5%	94.1%	92.3%	91.7%	93.0%	92.5%	91.4%

Licensee Comments: none

ERO Drill Participation



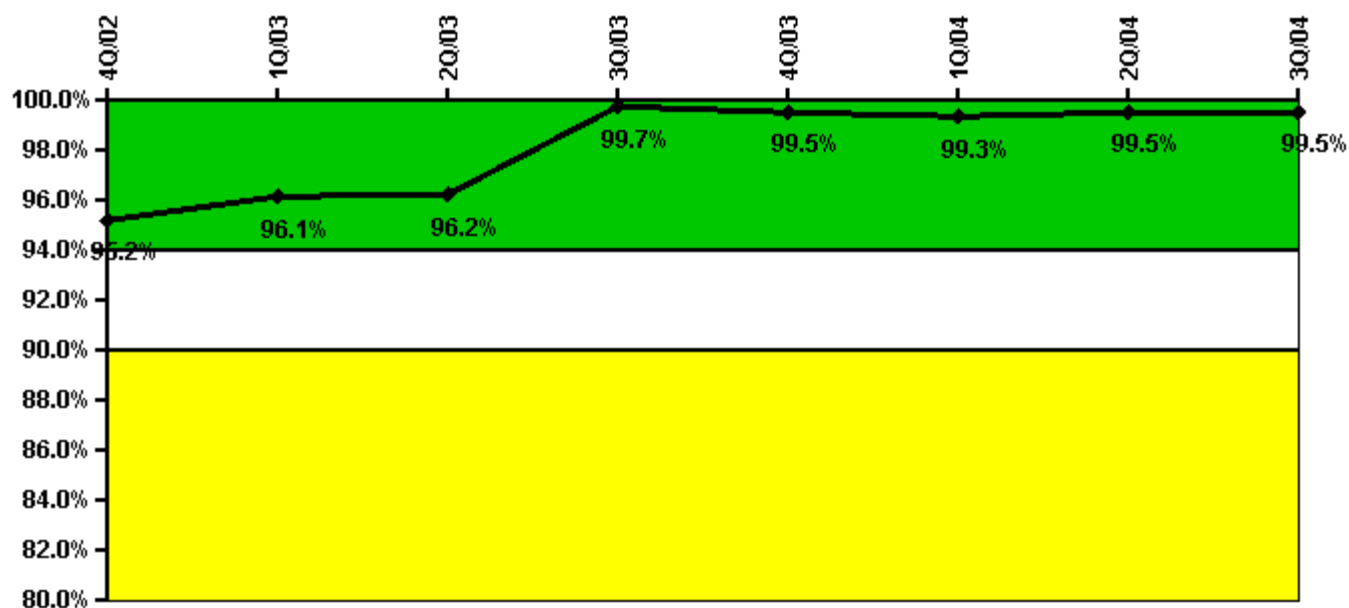
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Participating Key personnel	76.0	75.0	72.0	74.0	90.0	86.0	87.0	89.0
Total Key personnel	76.0	75.0	72.0	75.0	92.0	87.0	92.0	92.0
Indicator value	100.0%	100.0%	100.0%	98.7%	97.8%	98.9%	94.6%	96.7%

Licensee Comments: none

Alert & Notification System



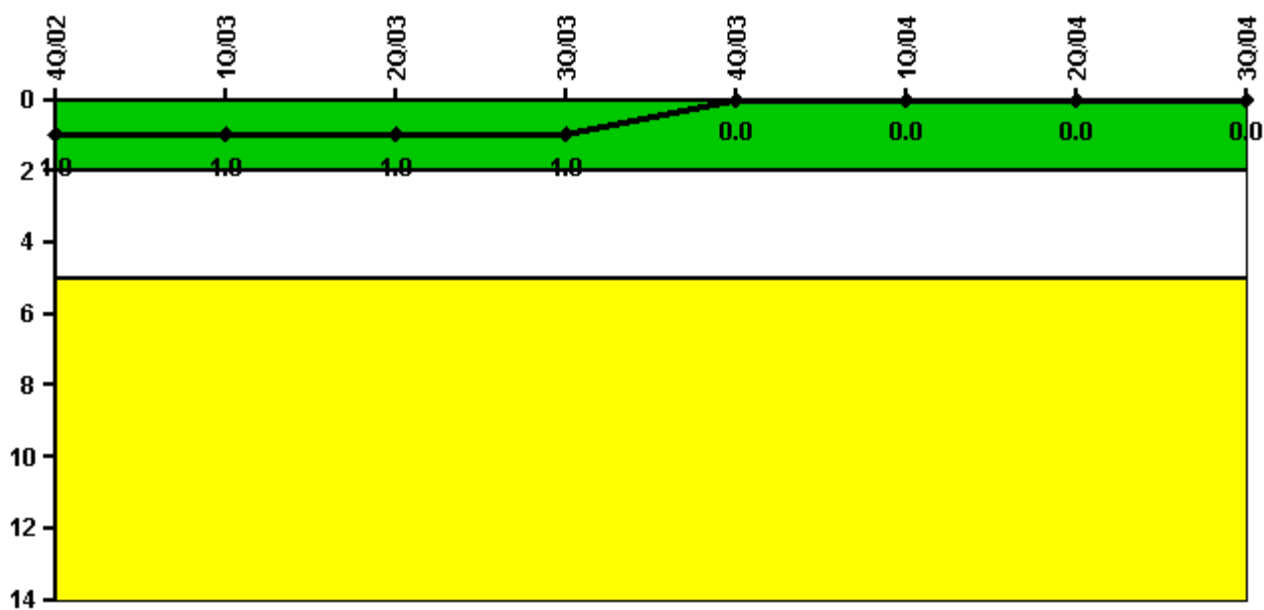
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful siren-tests	252	486	182	183	181	181	183	183
Total sirens-tests	252	488	183	183	183	183	183	183
Indicator value	95.2%	96.1%	96.2%	99.7%	99.5%	99.3%	99.5%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



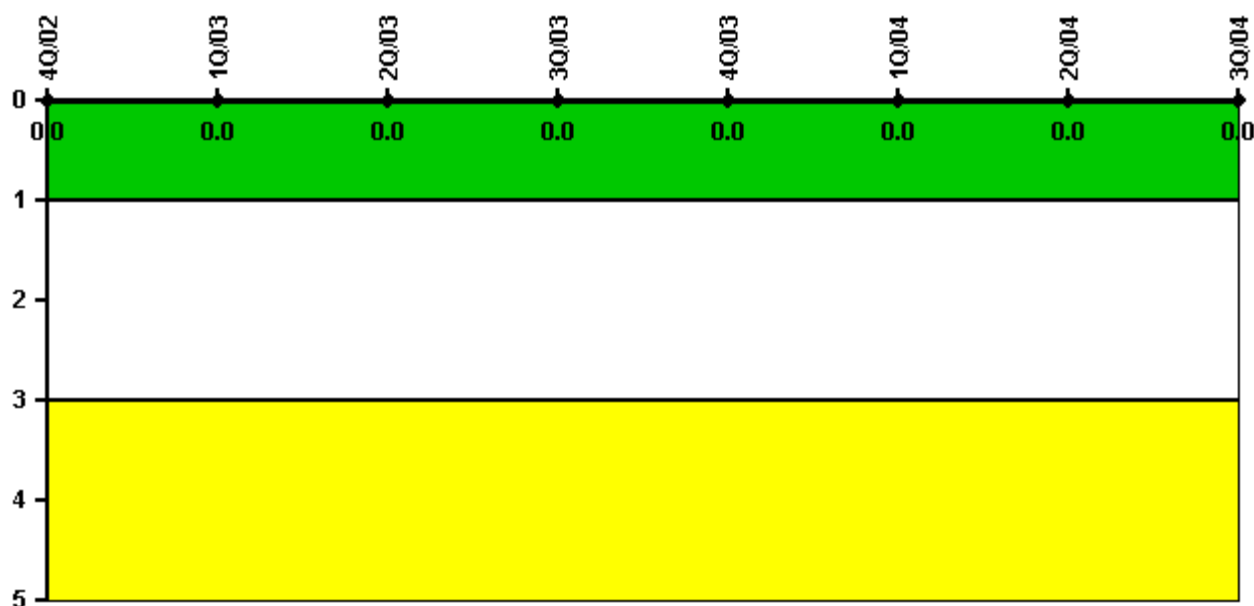
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/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	1	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/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: October 25, 2004