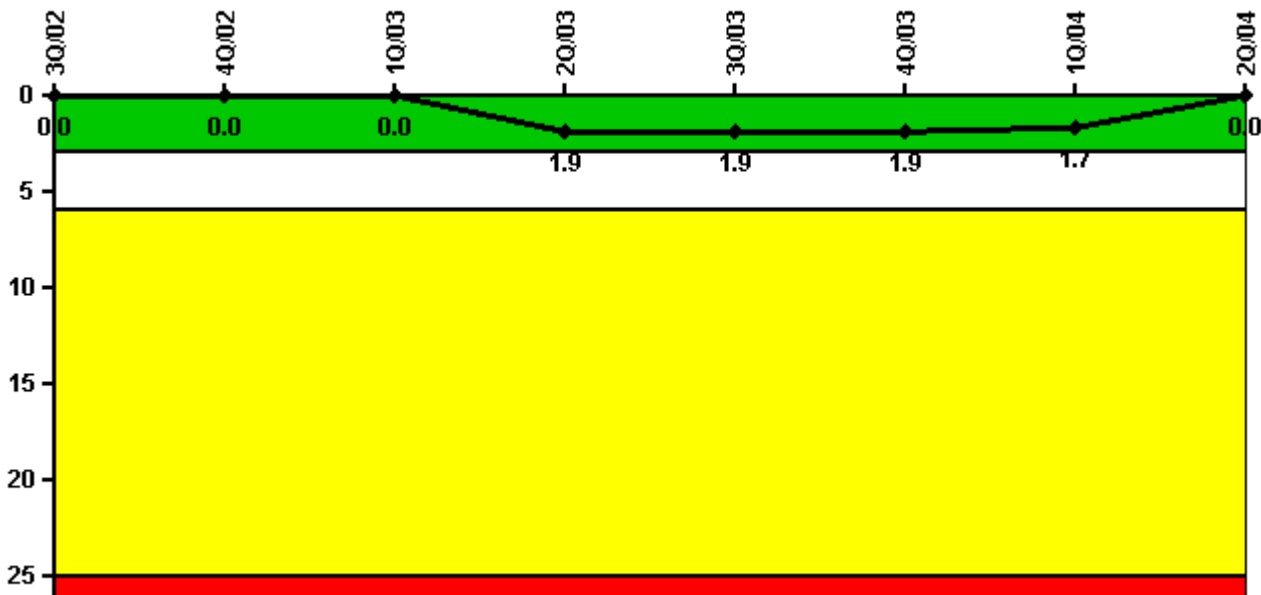


North Anna 1

2Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



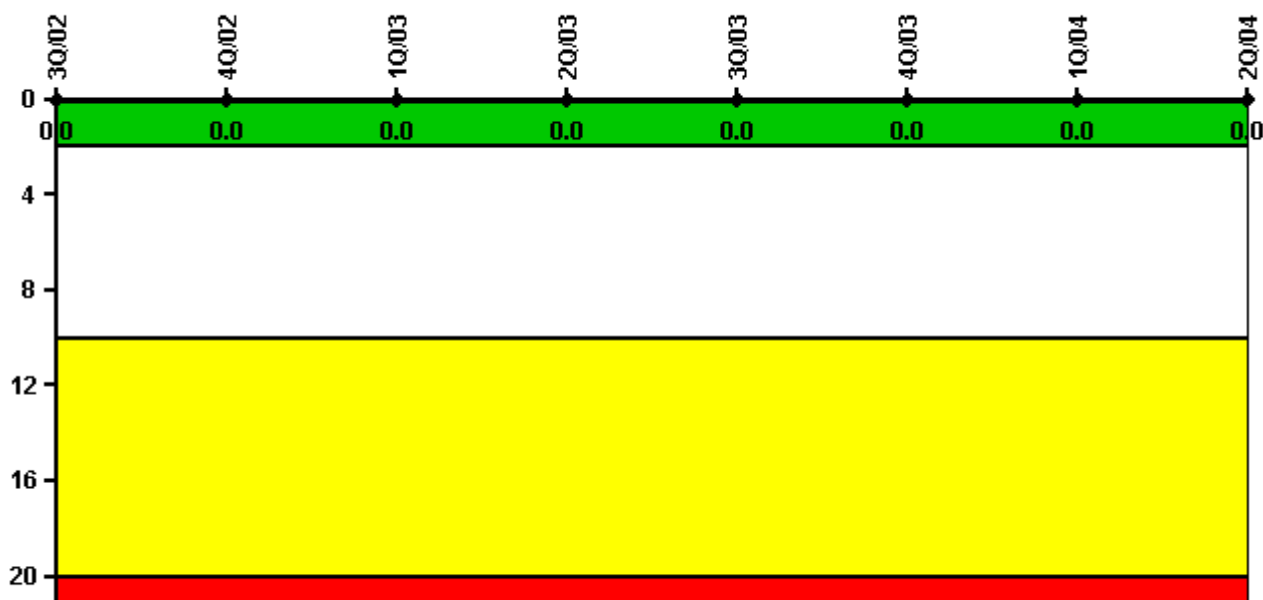
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned scrams	0	0	0	2.0	0	0	0	0
Critical hours	2208.0	2209.0	1273.7	1549.9	2208.0	2209.0	2051.8	2183.0
Indicator value	0	0	0	1.9	1.9	1.9	1.7	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



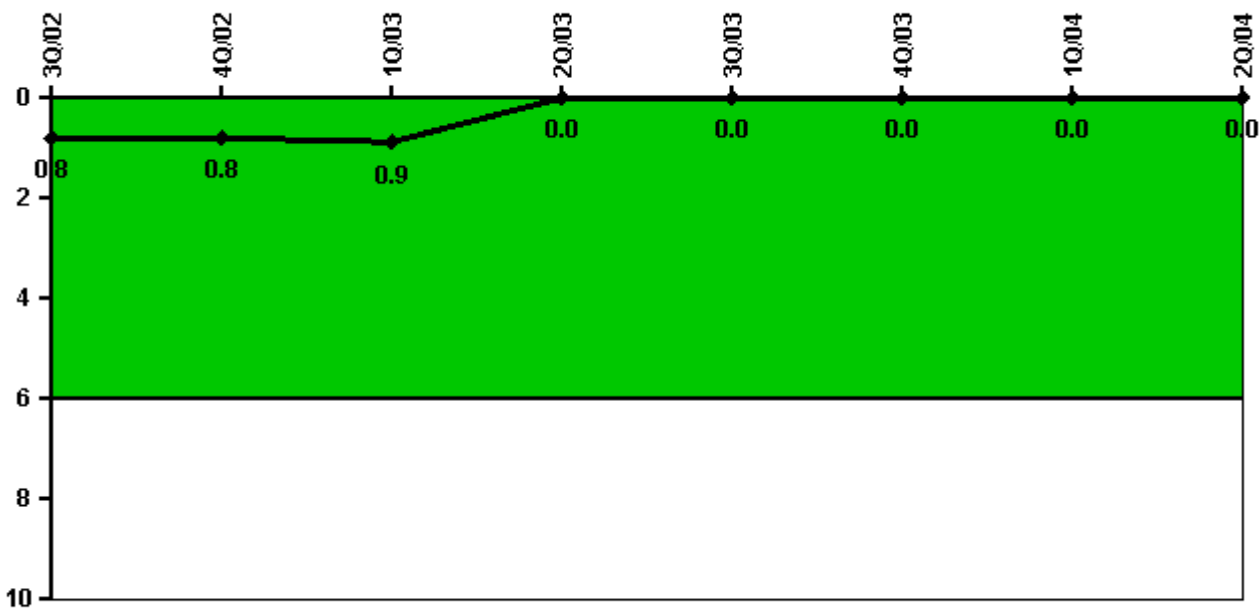
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
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



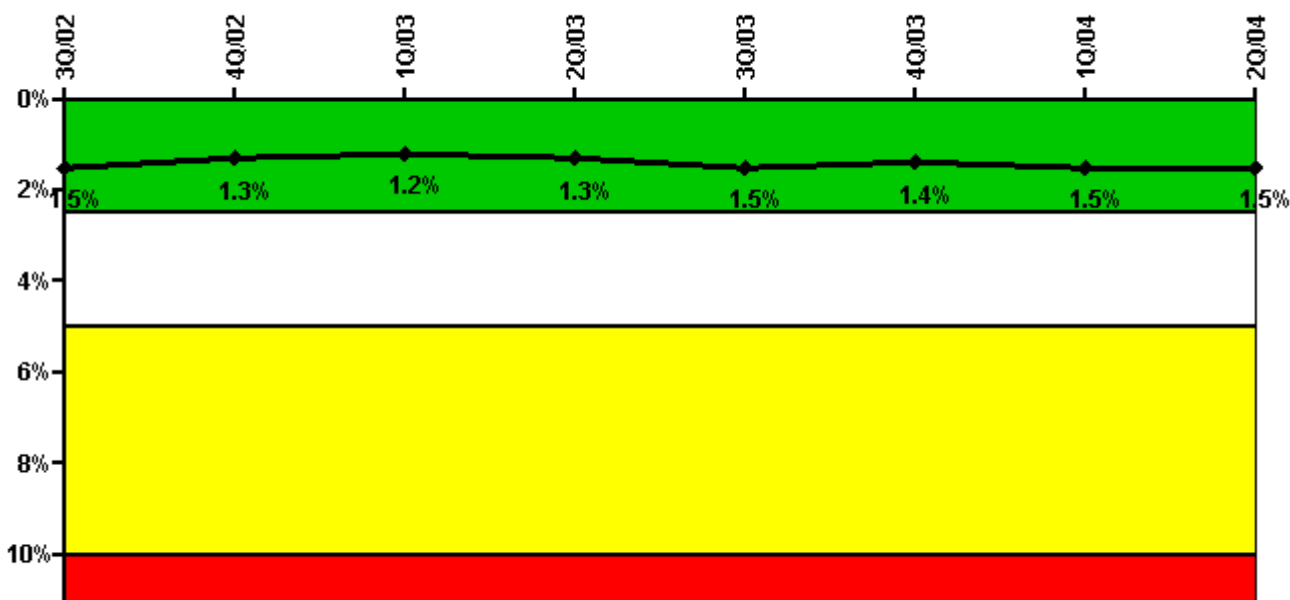
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	1273.7	1549.9	2208.0	2209.0	2051.8	2183.0
Indicator value	0.8	0.8	0.9	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

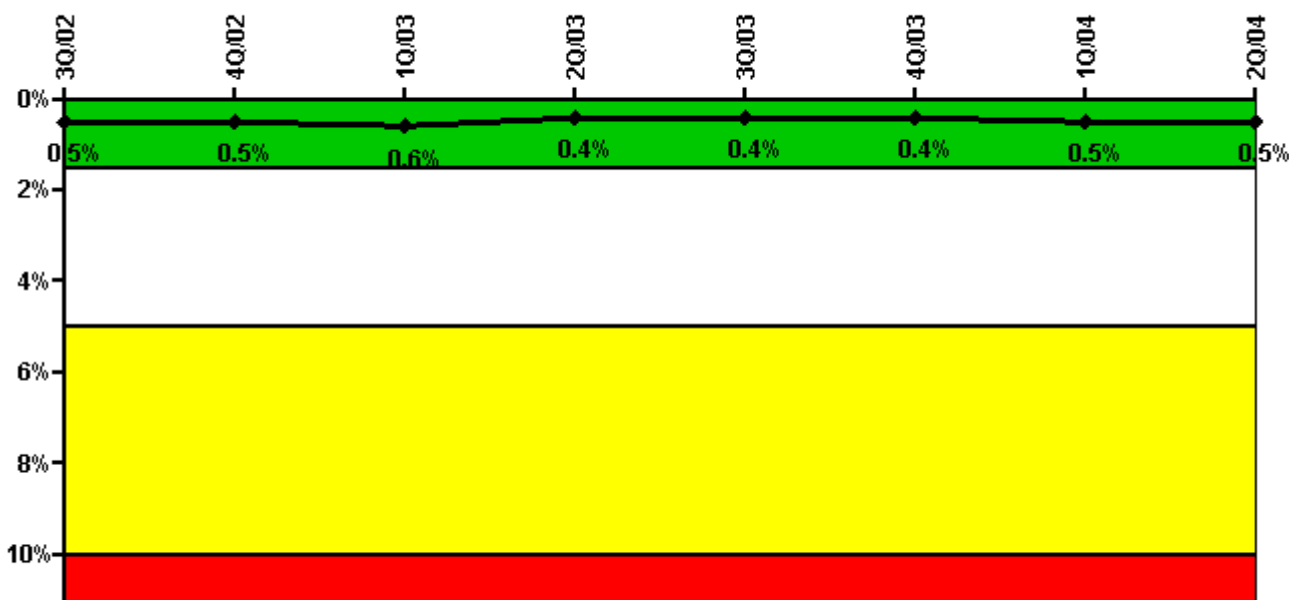
Notes

Safety System Unavailability, Emergency AC Power	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	25.48	7.36	4.61	2.67	50.35	9.10	6.20	37.97
Unplanned unavailable hours	0	9.67	77.40	23.50	23.00	0	104.52	2.50
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1723.64	1677.40	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	29.59	10.60	7.69	7.48	54.00	14.39	8.02	27.52
Unplanned unavailable hours	0	11.80	0	3.88	0	18.21	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	2208.00	2209.00	1723.64	1806.70	2208.00	2209.00	2184.00	2183.00
Indicator value	1.5%	1.3%	1.2%	1.3%	1.5%	1.4%	1.5%	1.5%

Licensee Comments:

2Q/01: Revised to incorporate 0.25 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no effect on the color of the indicator.

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)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	2.49	7.14	1.15	5.65	5.51	2.38	5.95	4.08
Unplanned unavailable hours	0	0.65	3.08	0.12	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	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	6.37	3.90	19.77	5.02	5.79	5.04	3.12	5.05
Unplanned unavailable hours	0	0	6.45	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	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00
Indicator value	0.5%	0.5%	0.6%	0.4%	0.4%	0.4%	0.5%	0.5%

Licensee Comments:

1Q/04: Revised to incorporate 3.49 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no effect on the color of the indicator.

4Q/03: Revised to incorporate 4.04 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no effect on the color of the indicator.

3Q/03: Revised to incorporate 5.80 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no effect on the color of the indicator.

2Q/03: Revised to incorporate 7.67 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no effect on the color of the indicator.

1Q/03: Revised to incorporate 2.52 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no effect on the color of the indicator.

4Q/02: Revised to incorporate 4.60 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no effect on

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00
Train 3								
Planned unavailable hours	4.28	4.80	0.33	9.81	10.45	6.48	5.32	9.92
Unplanned unavailable hours	0	0	0	3.27	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	2208.00	2209.00	1283.17	1829.18	2208.00	2209.00	2184.00	2183.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%

Licensee Comments:

1Q/04: Revised to incorporate 3.49 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

4Q/03: Revised to incorporate 4.04 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

3Q/03: Revised to incorporate 5.80 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

2Q/03: Revised to incorporate 7.37 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

1Q/03: Revised to incorporate 2.49 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

4Q/02: Revised to incorporate 4.60 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

3Q/02: Revised to incorporate 4.77 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

2Q/02: Revised to incorporate 6.60 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

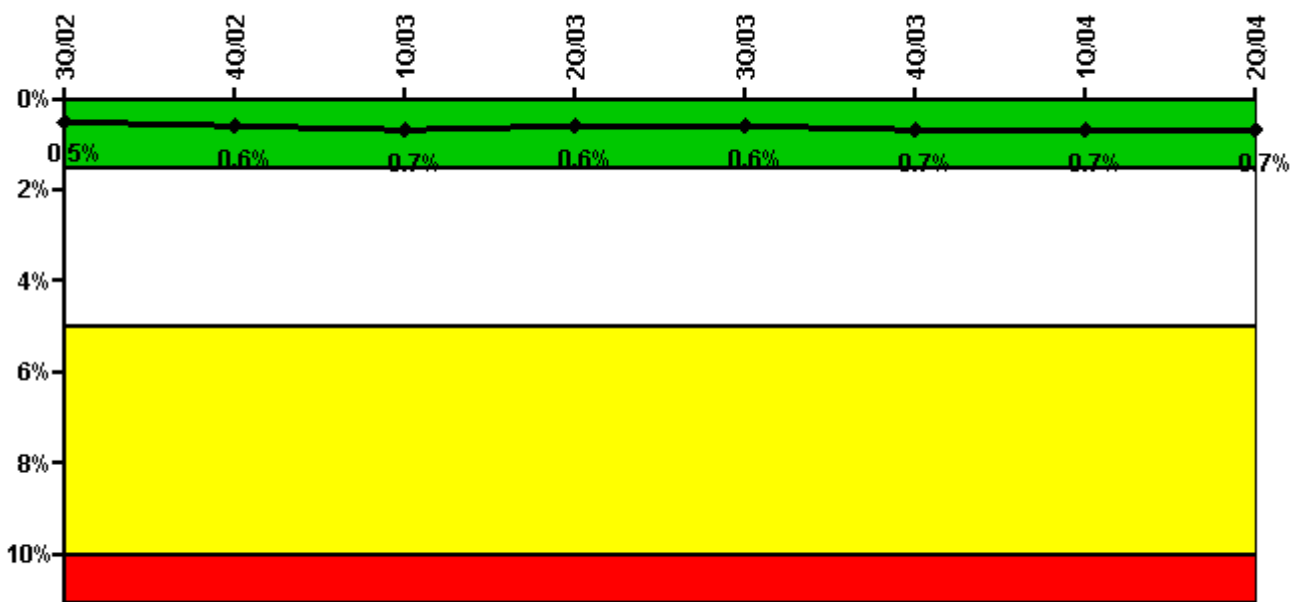
1Q/02: Revised to incorporate 4.49 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

4Q/01: Revised to incorporate 4.09 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

3Q/01: Revised to incorporate 1.42 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

2Q/01: Revised to incorporate 4.65 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

Safety System Unavailability, Residual Heat Removal System



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

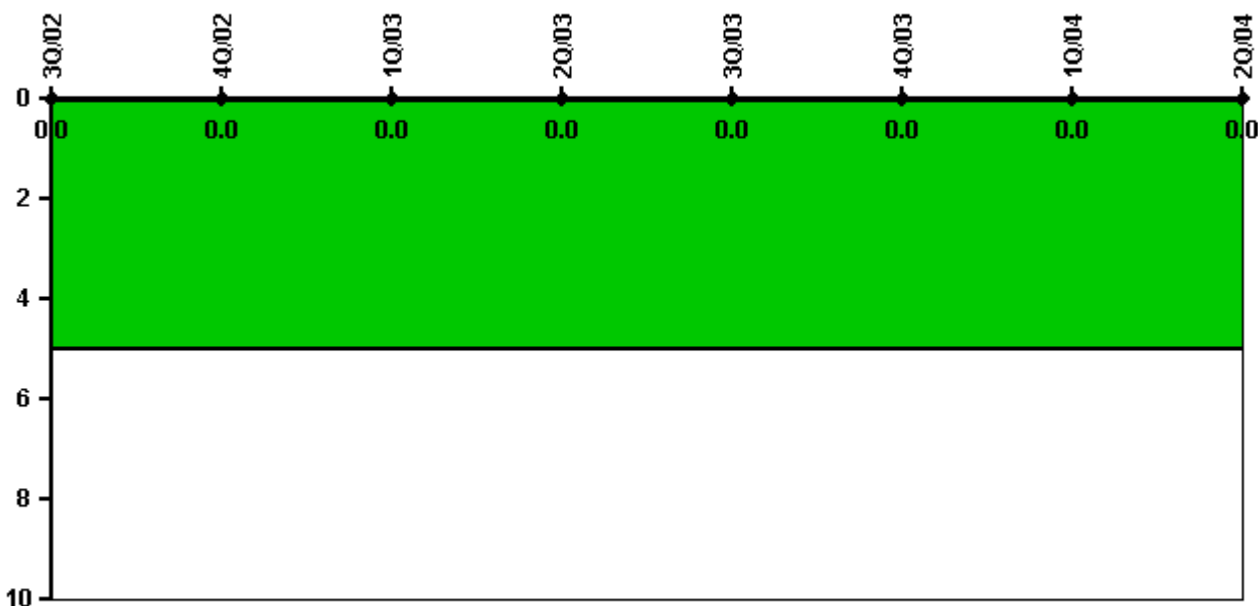
Notes

Safety System Unavailability, Residual Heat Removal System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	21.01	5.60	1.15	7.93	19.58	28.98	6.47	5.95
Unplanned unavailable hours	0	52.33	2.50	1.82	1.65	0	2.53	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	2208.00	2209.00	1287.27	1844.79	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	14.00	11.78	11.30	5.82	10.31	26.45	31.47	15.52
Unplanned unavailable hours	0	57.50	67.18	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	2208.00	2209.00	1287.27	1844.79	2208.00	2209.00	2184.00	2183.00
Train 3								
Planned unavailable hours	0	37.17	3.20	0	10.15	0	0	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	2208.00	2209.00	1414.64	2106.56	2208.00	2209.00	2184.00	2183.00
Train 4								
Planned unavailable hours	0	0	2.98	0	0	0	0	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	2208.00	2209.00	1414.64	2106.56	2208.00	2209.00	2184.00	2183.00
Indicator value	0.5%	0.6%	0.7%	0.6%	0.6%	0.7%	0.7%	0.7%

Licsee Comments:

- 1Q/04: Revised to incorporate 3.48 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.
- 4Q/03: Revised to incorporate 4.03 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.
- 3Q/03: Revised to incorporate 5.73 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.
- 2Q/03: Revised to incorporate 7.37 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.
- 1Q/03: Revised to incorporate 2.48 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.
- 4Q/02: Revised to incorporate 4.60 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.
- 3Q/02: Revised to incorporate 4.76 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.
- 2Q/02: Revised to incorporate 6.59 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.
- 1Q/02: Revised to incorporate 5.76 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.
- 4Q/01: Revised to incorporate 8.96 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.
- 3Q/01: Revised to incorporate 1.91 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.
- 2Q/01: Revised to incorporate 4.65 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

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

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

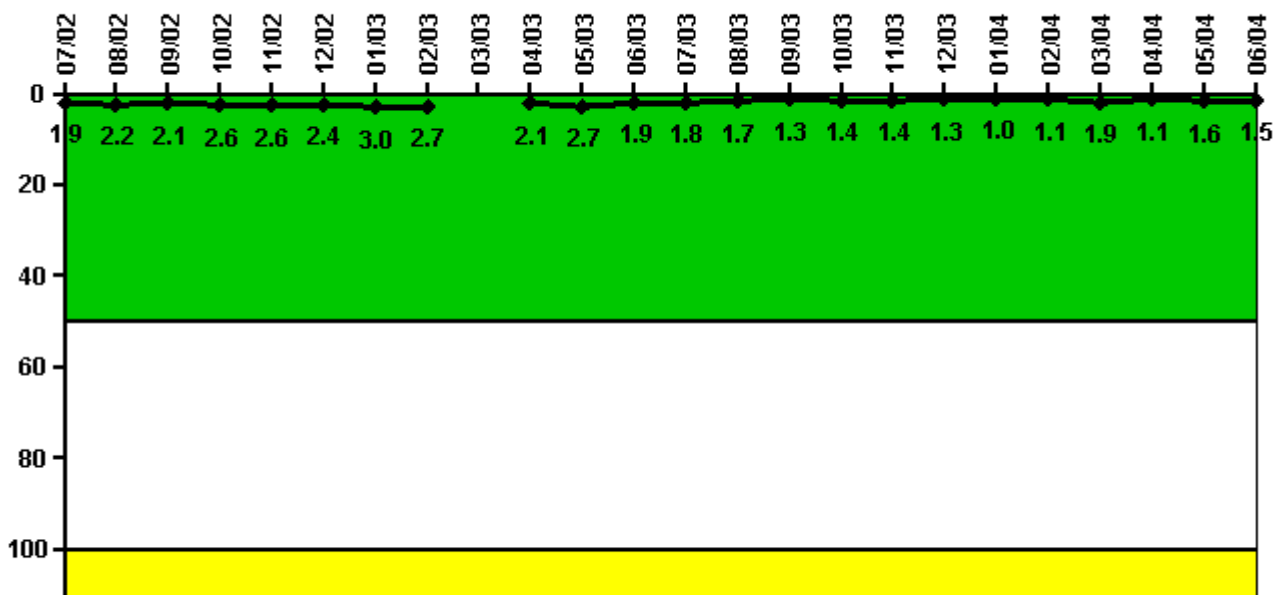
Notes

Reactor Coolant System Activity	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum activity	0.000684	0.000769	0.000872	0.000815	0.000797	0.000852	0.000809	0.000947	N/A	0.000412	0.000495	0.000410
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N/A	0	0	0

Reactor Coolant System Activity	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum activity	0.000513	0.000458	0.000705	0.000527	0.000559	0.000534	0.000546	0.000561	0.000594	0.000595	0.000600	0.000633
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

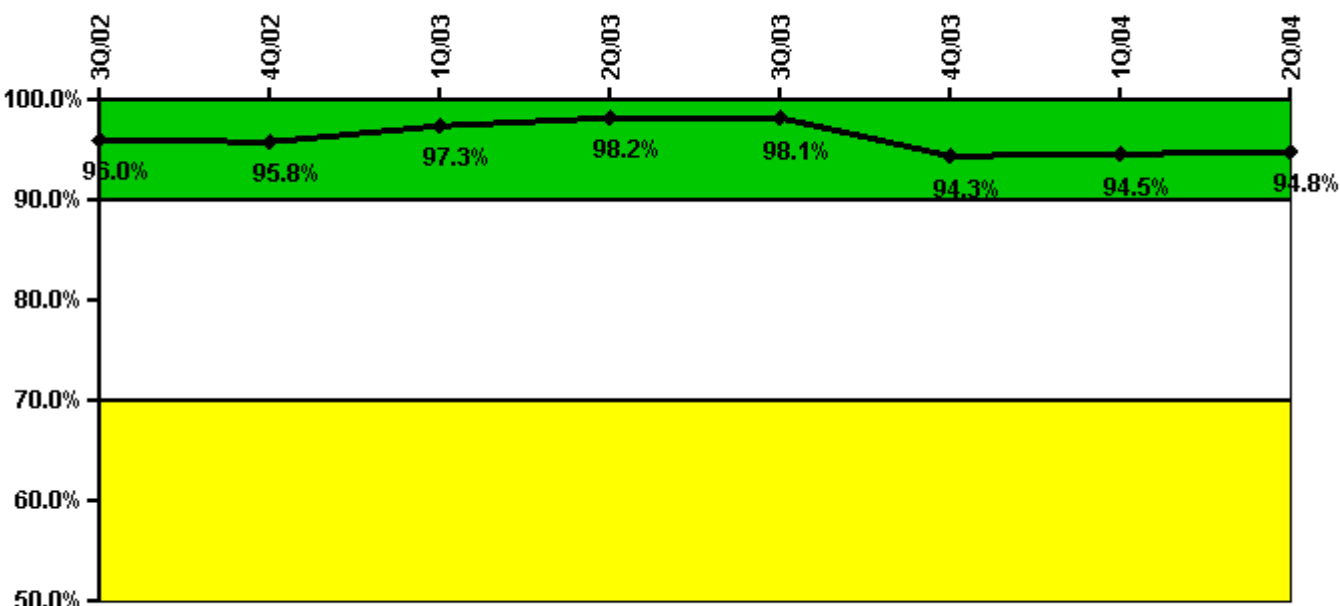
Notes

Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	0.192	0.215	0.207	0.263	0.257	0.235	0.299	0.267	N/A	0.212	0.272	0.192
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	1.9	2.2	2.1	2.6	2.6	2.4	3.0	2.7	N/A	2.1	2.7	1.9

Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	0.179	0.173	0.135	0.140	0.136	0.132	0.097	0.113	0.188	0.113	0.155	0.150
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	1.7	1.3	1.4	1.4	1.3	1.0	1.1	1.9	1.1	1.6	1.5

Licensee Comments: none

Drill/Exercise Performance



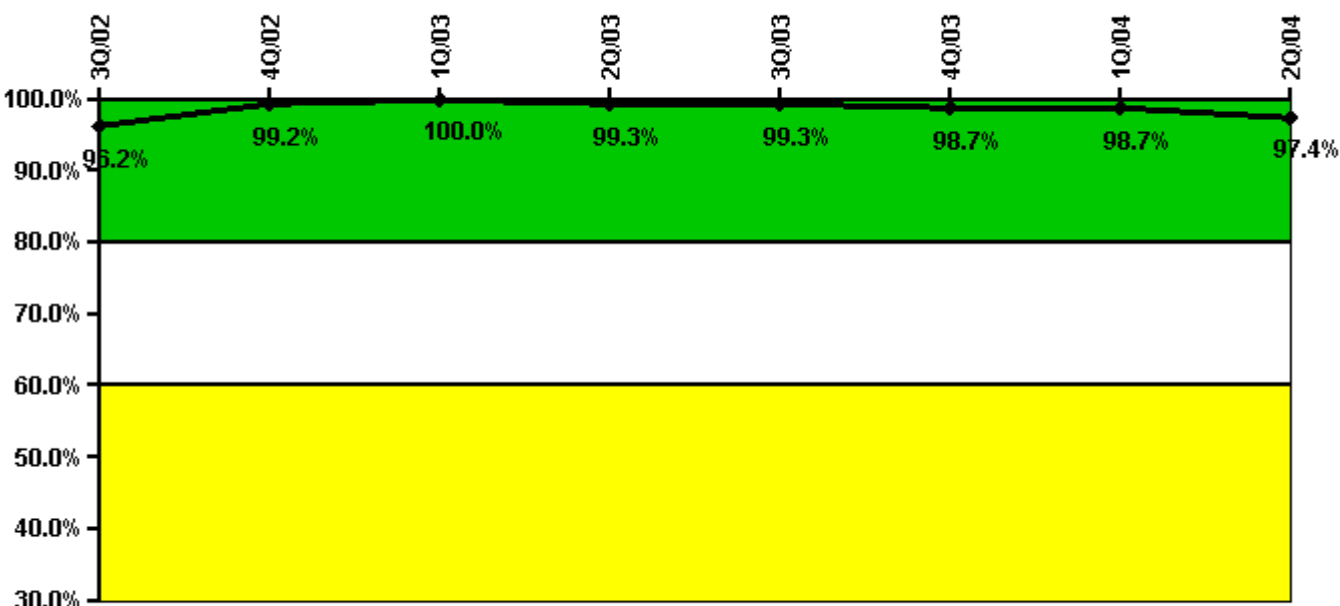
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful opportunities	21.0	10.0	30.0	108.0	3.0	25.0	31.0	11.0
Total opportunities	21.0	10.0	32.0	108.0	3.0	35.0	32.0	11.0
Indicator value	96.0%	95.8%	97.3%	98.2%	98.1%	94.3%	94.5%	94.8%

Licensee Comments: none

ERO Drill Participation



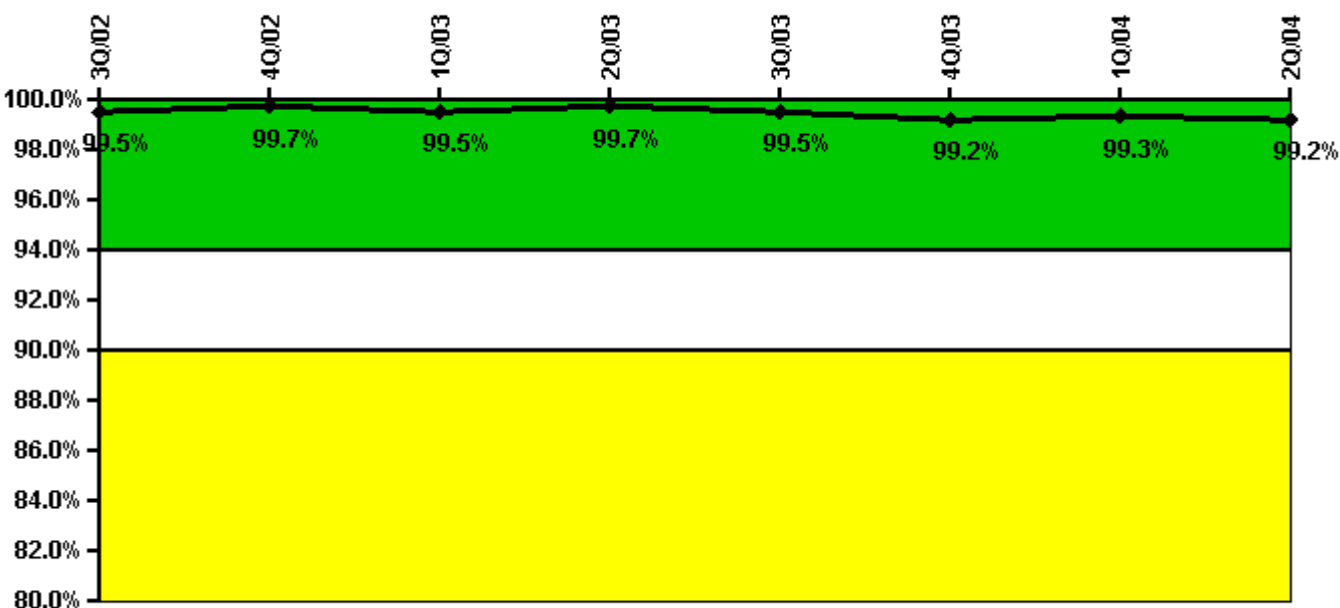
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Participating Key personnel	127.0	127.0	124.0	151.0	152.0	150.0	150.0	147.0
Total Key personnel	132.0	128.0	124.0	152.0	153.0	152.0	152.0	151.0
Indicator value	96.2%	99.2%	100.0%	99.3%	99.3%	98.7%	98.7%	97.4%

Licensee Comments: none

Alert & Notification System



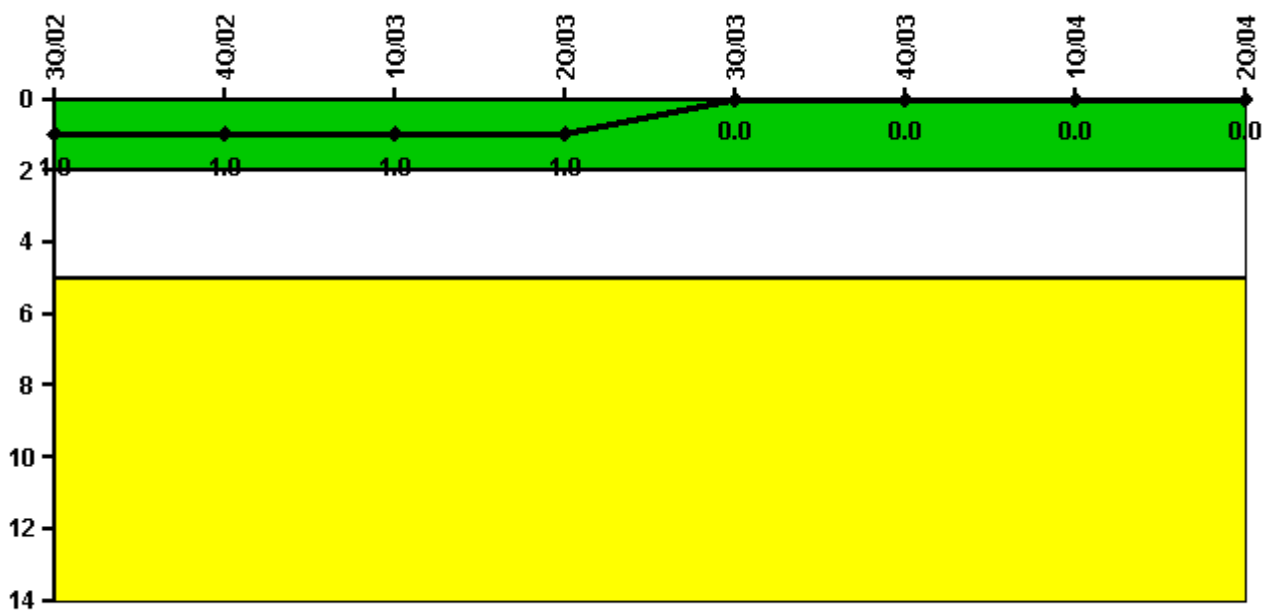
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful siren-tests	431	434	431	436	436	435	440	441
Total sirens-tests	434	434	434	436	441	441	441	443
Indicator value	99.5%	99.7%	99.5%	99.7%	99.5%	99.2%	99.3%	99.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness



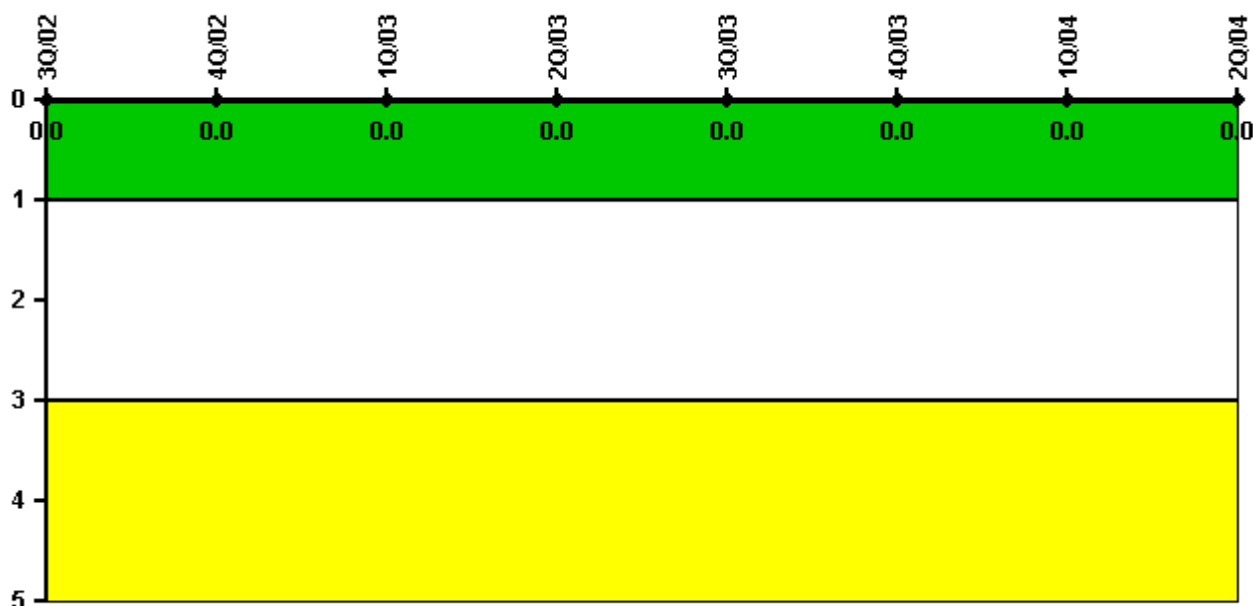
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
High radiation area occurrences	1	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	1	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/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: September 8, 2004