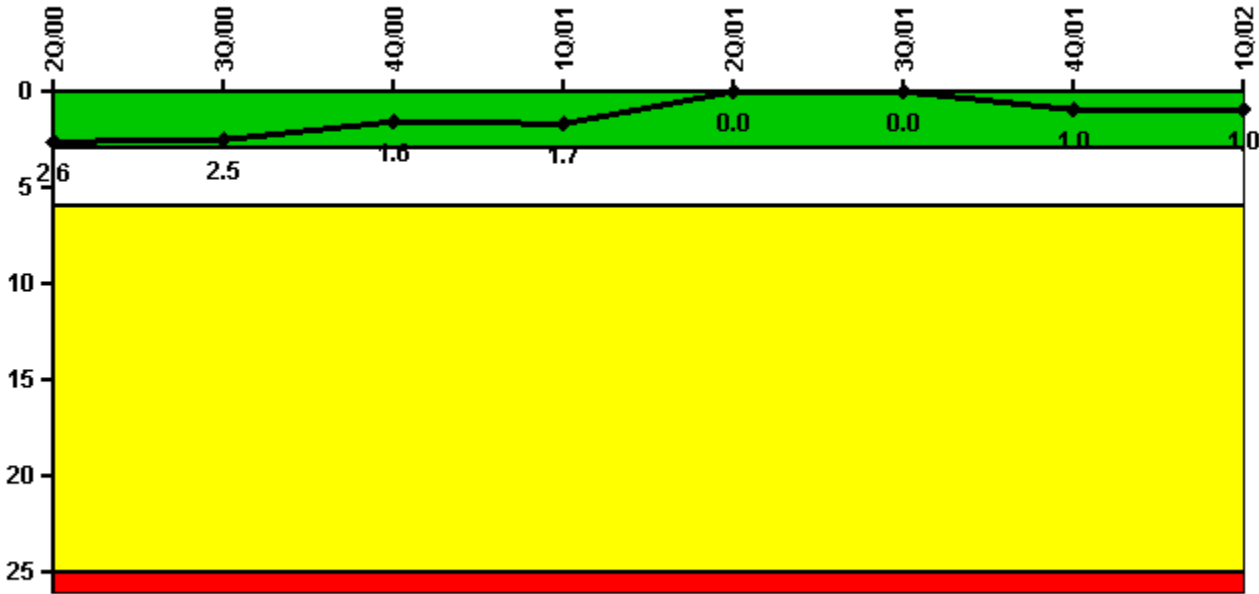


North Anna 2

1Q/2002 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/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned scrams	2.0	0	0	0	0	0	1.0	0
Critical hours	2150.1	2208.0	2209.0	1626.4	1979.3	2208.0	1017.0	2160.0
Indicator value	2.6	2.5	1.6	1.7	0	0	1.0	1.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



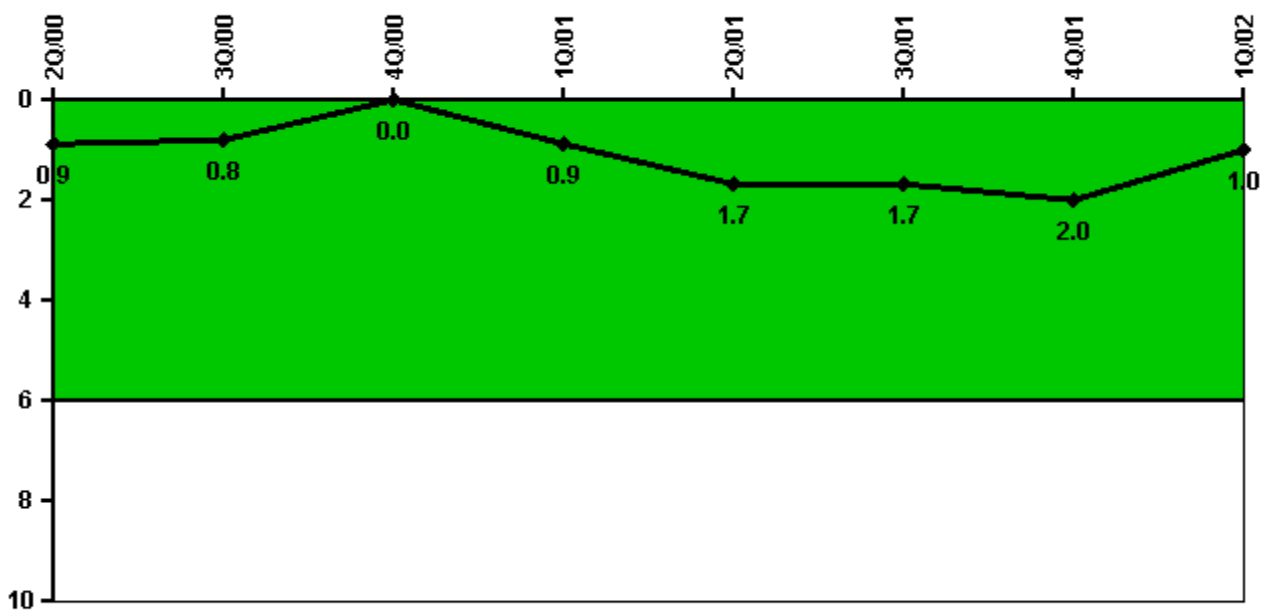
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
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



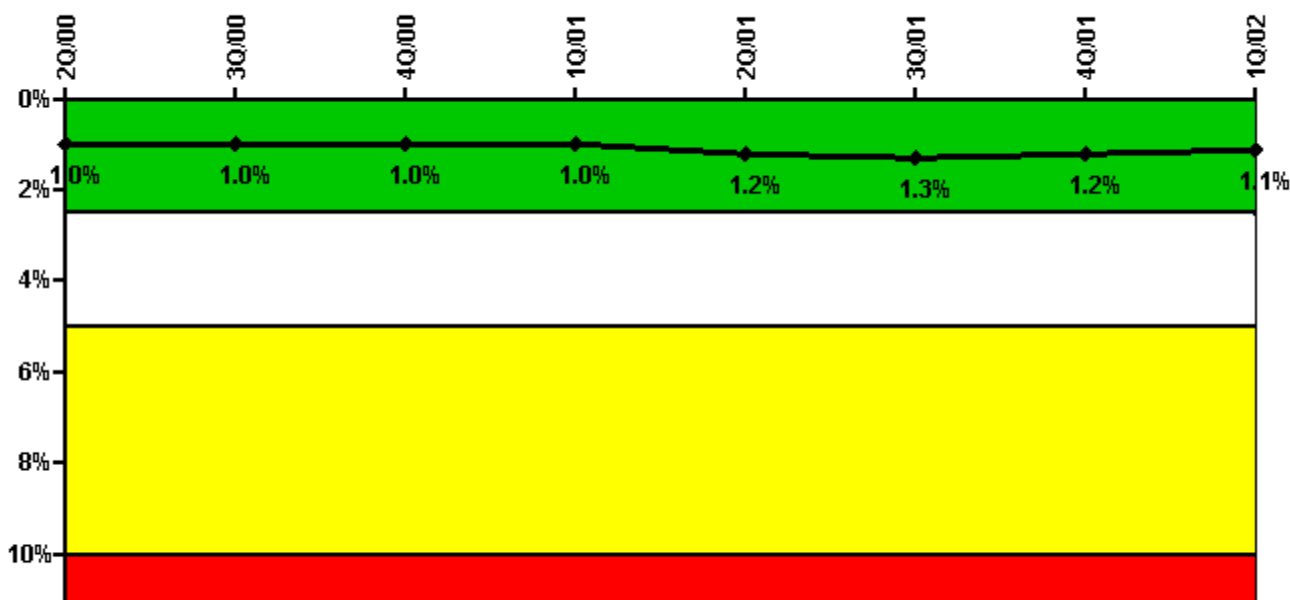
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	0	0	0	1.0	1.0	0	0	0
Critical hours	2150.1	2208.0	2209.0	1626.4	1979.3	2208.0	1017.0	2160.0
Indicator value	0.9	0.8	0	0.9	1.7	1.7	2.0	1.0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



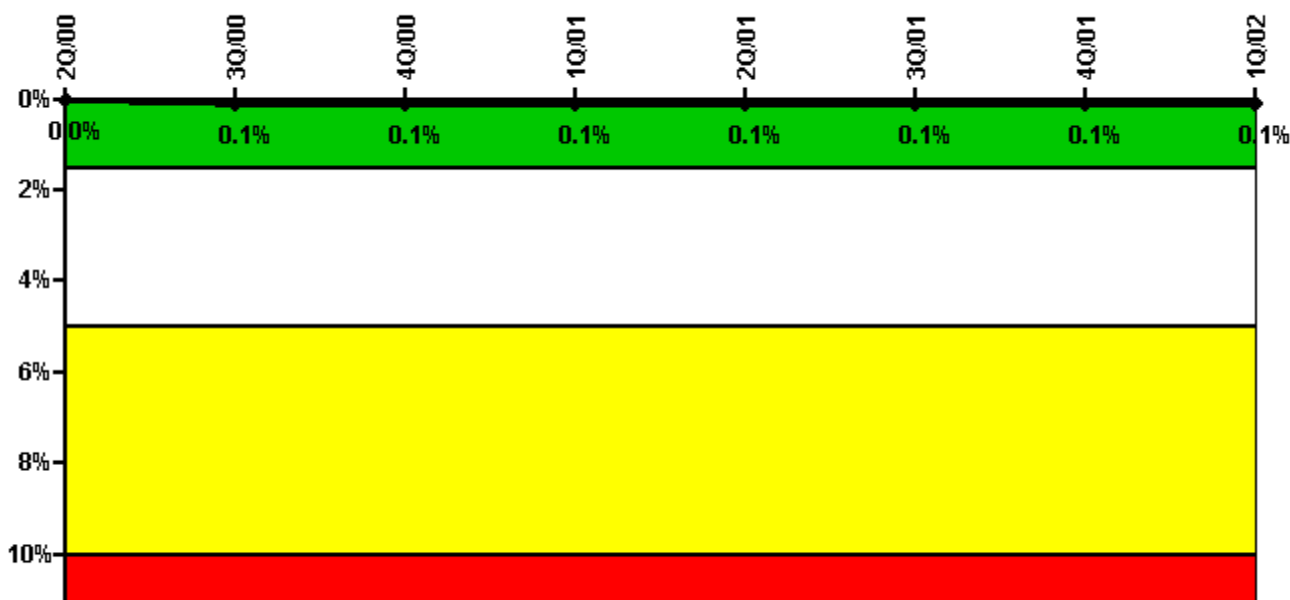
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	10.35	9.79	34.51	44.53	58.32	10.45	33.28	13.03
Unplanned unavailable hours	0.08	0	0	1.19	0	0	0	0.17
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1915.75	2094.90	2208.00	1654.37	2160.00
Train 2								
Planned unavailable hours	6.42	18.10	34.97	10.40	68.80	29.19	20.13	9.28
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	2183.00	2208.00	2209.00	1915.75	2094.90	2208.00	1654.37	2160.00
Indicator value	1.0%	1.0%	1.0%	1.0%	1.2%	1.3%	1.2%	1.1%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



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

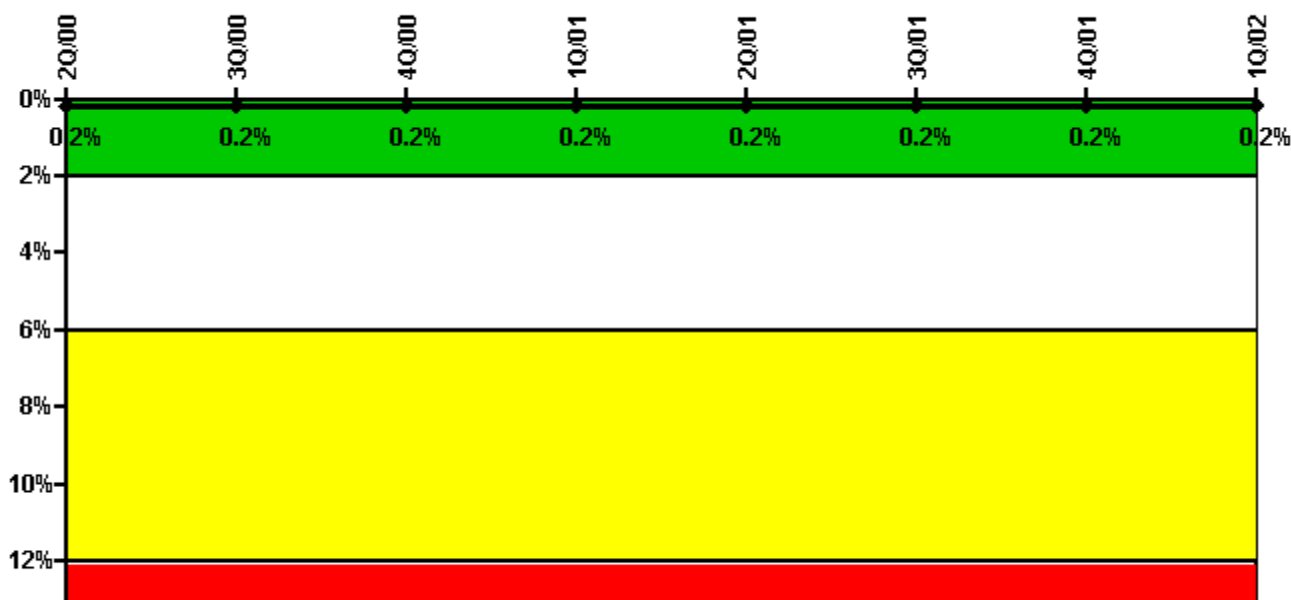
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	11.87	27.90	1.00	1.13	1.22	1.60	1.95	1.38
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	2183.00	2208.00	2209.00	1671.50	1998.90	2208.00	1095.73	2160.00
Train 2								
Planned unavailable hours	0.83	3.13	0.93	1.47	1.58	1.43	1.50	1.65
Unplanned unavailable hours	0	0	0	0	0	0	0	0.42
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1671.50	1998.90	2208.00	1095.73	2160.00
Indicator value	0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments:

1Q/02: Experienced 83.69 unknown T/2 fault exposure hrs. based on Cooling Water support system inoperability.

Safety System Unavailability, Heat Removal System (AFW)



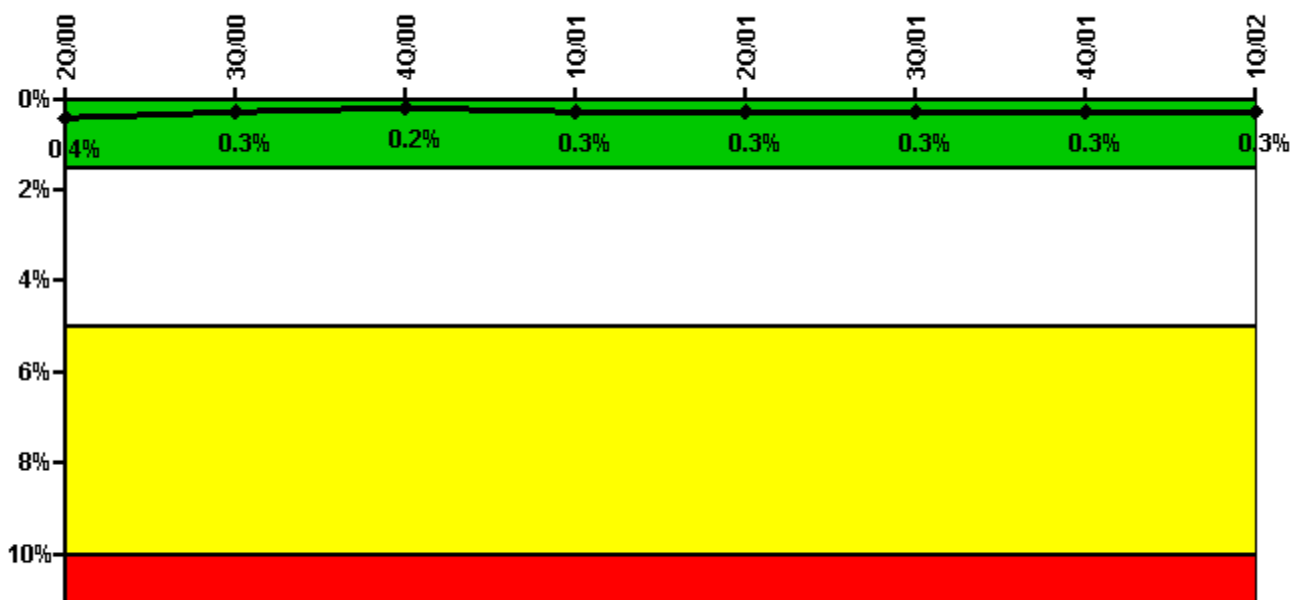
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	1.18	0.97	19.50	1.32	0.85	0.92	1.23	14.08
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	2183.00	2208.00	2209.00	1667.17	1998.90	2208.00	1085.55	2160.00
Train 2								
Planned unavailable hours	2.42	1.17	14.00	1.23	1.48	1.12	0	1.22
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	2183.00	2208.00	2209.00	1667.70	1998.90	2208.00	1085.55	2160.00
Train 3								
Planned unavailable hours	4.73	3.12	7.37	3.53	6.58	2.98	5.05	5.22
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	2183.00	2208.00	2209.00	1667.17	1998.90	2208.00	1085.55	2160.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



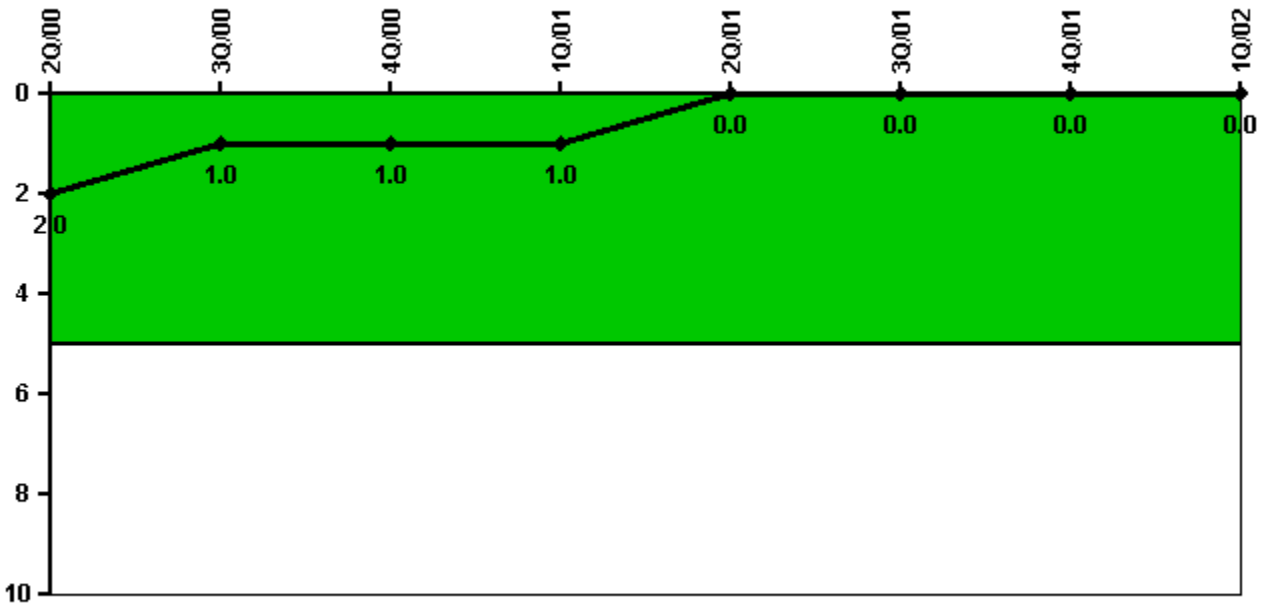
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	3.59	16.48	11.82	29.31	5.04	4.18	1.85	4.16
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	2183.00	2208.00	2209.00	1671.50	2006.70	2208.00	1095.73	2160.00
Train 2								
Planned unavailable hours	60.54	15.99	9.23	26.81	10.20	2.50	0	3.18
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	2183.00	2208.00	2209.00	1671.50	2006.70	2208.00	1095.73	2160.00
Train 3								
Planned unavailable hours	0	0	0	5.95	0	0	5.36	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	2183.00	2208.00	2209.00	1917.30	2183.00	2208.00	1736.49	2160.00
Train 4								
Planned unavailable hours	0	6.13	6.20	9.05	7.13	0	3.15	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	2183.00	2208.00	2209.00	1917.30	2183.00	2208.00	1736.49	2160.00
Indicator value	0.4%	0.3%	0.2%	0.3%	0.3%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)



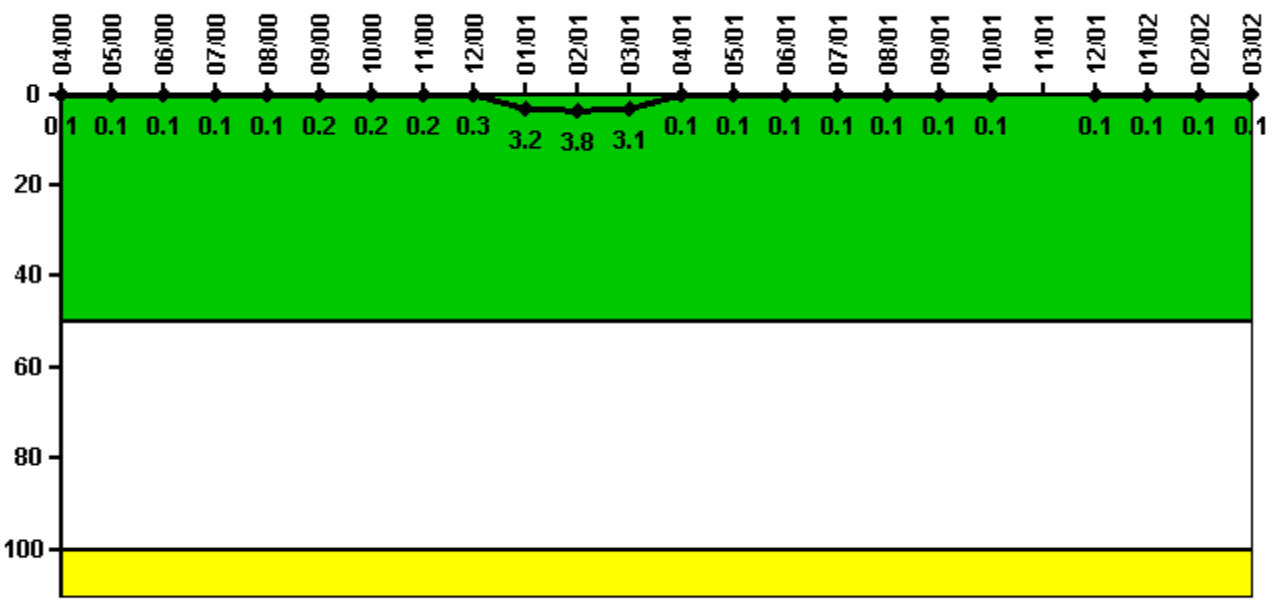
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Safety System Functional Failures	1	0	0	0	0	0	0	0
Indicator value	2	1	1	1	0	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

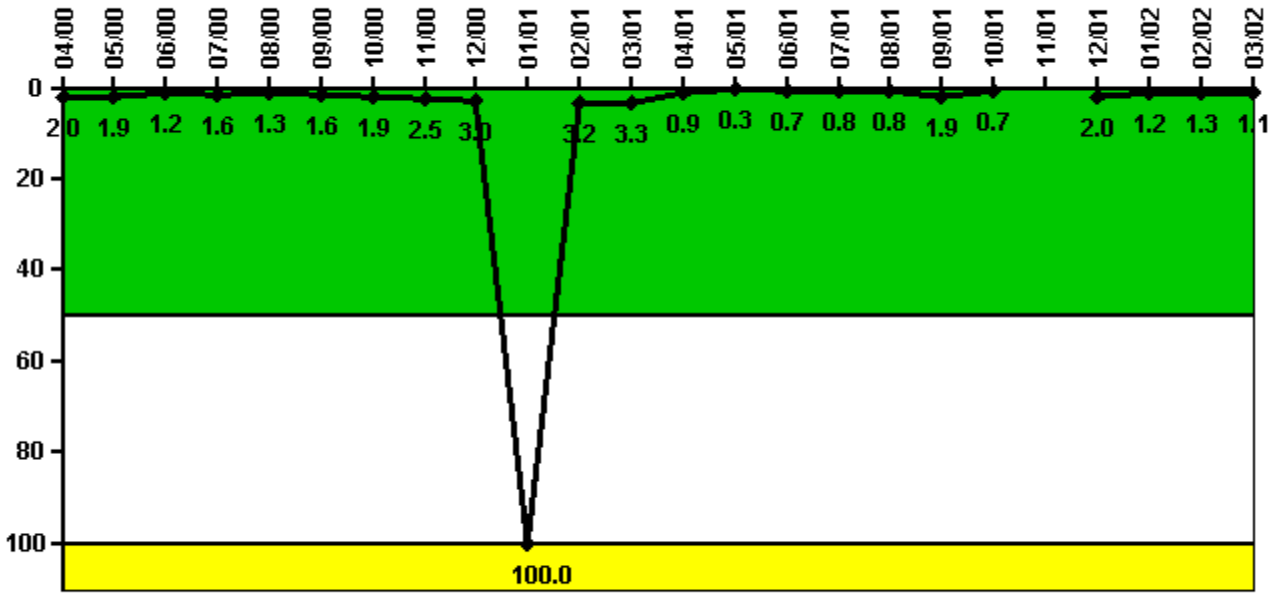
Notes

Reactor Coolant System Activity	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.001480	0.001340	0.001330	0.001280	0.001390	0.001660	0.001850	0.002240	0.002790	0.031600	0.038000	0.031000
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	0.2	0.2	0.2	0.3	3.2	3.8	3.1

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0.000703	0.000727	0.000804	0.000956	0.001140	0.001020	0.001190	N/A	0.001120	0.001140	0.001280	0.001270
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	N/A	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

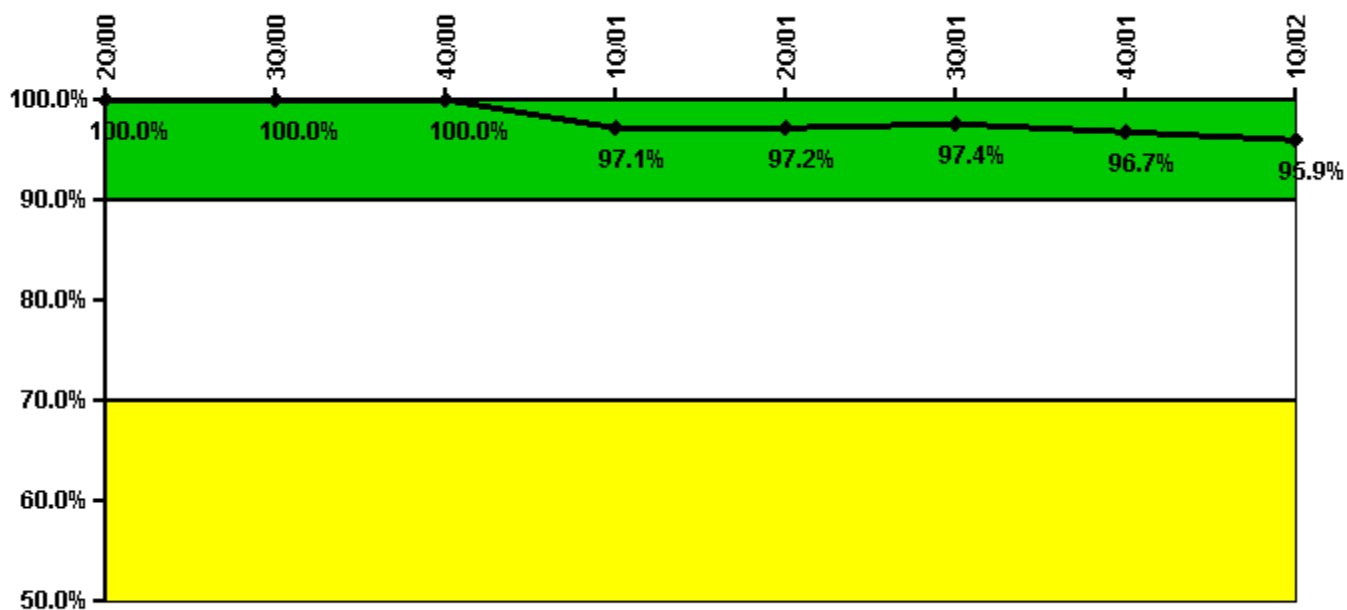
Notes

Reactor Coolant System Leakage	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.205	0.192	0.115	0.155	0.130	0.155	0.193	0.247	0.298	10.002	0.322	0.330
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	2.0	1.9	1.2	1.6	1.3	1.6	1.9	2.5	3.0	100.0	3.2	3.3

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	0.086	0.030	0.072	0.080	0.079	0.185	0.072	N/A	0.198	0.122	0.128	0.105
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	0.3	0.7	0.8	0.8	1.9	0.7	N/A	2.0	1.2	1.3	1.1

Licensee Comments: none

Drill/Exercise Performance



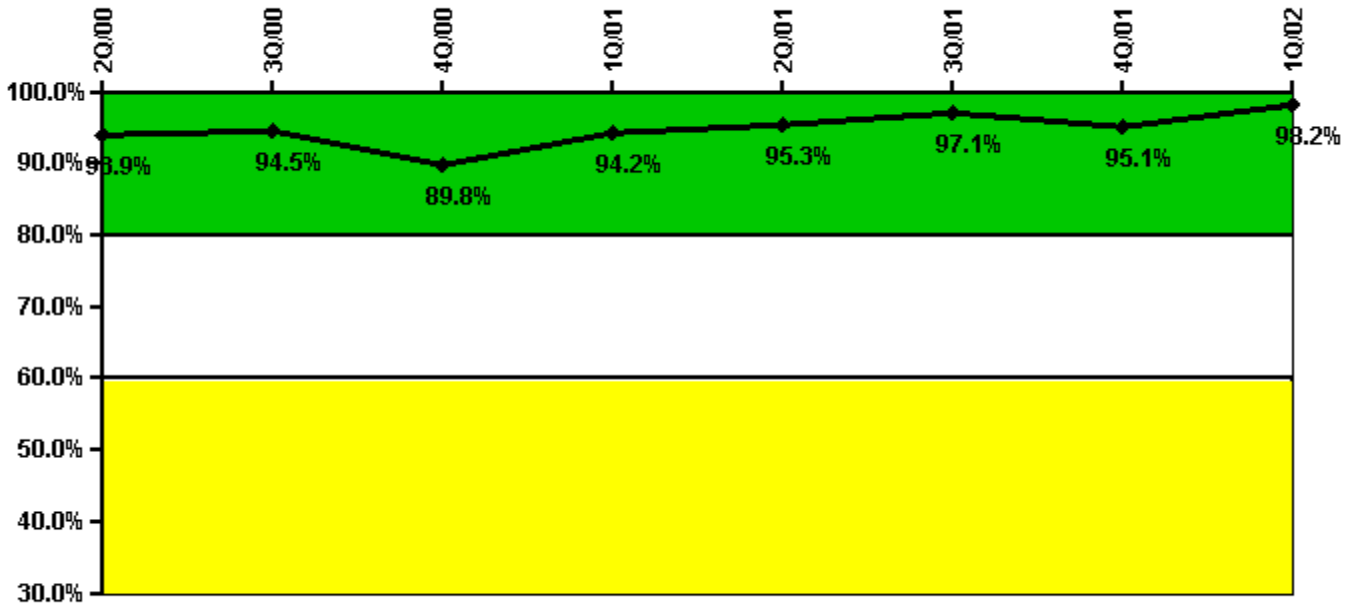
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful opportunities	2.0	4.0	18.0	30.0	18.0	16.0	35.0	39.0
Total opportunities	2.0	4.0	18.0	35.0	18.0	16.0	35.0	41.0
Indicator value	100.0%	100.0%	100.0%	97.1%	97.2%	97.4%	96.7%	95.9%

Licensee Comments: none

ERO Drill Participation



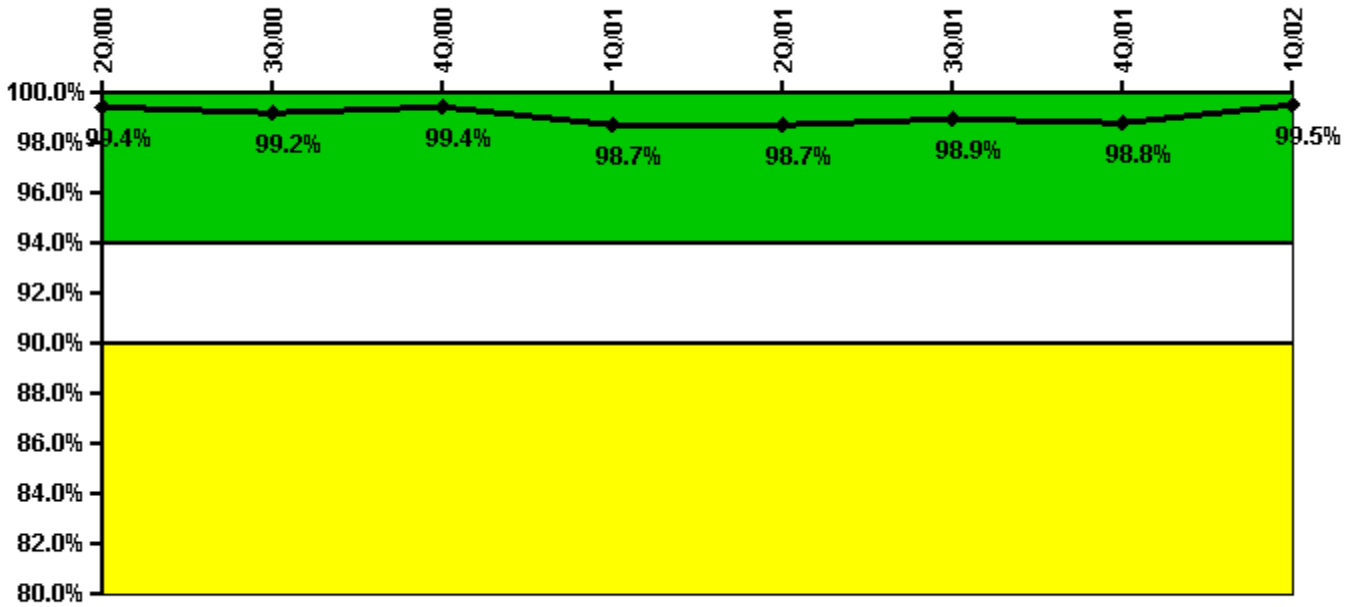
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	123.0	121.0	115.0	98.0	101.0	101.0	98.0	112.0
Total Key personnel	131.0	128.0	128.0	104.0	106.0	104.0	103.0	114.0
Indicator value	93.9%	94.5%	89.8%	94.2%	95.3%	97.1%	95.1%	98.2%

Licensee Comments: none

Alert & Notification System



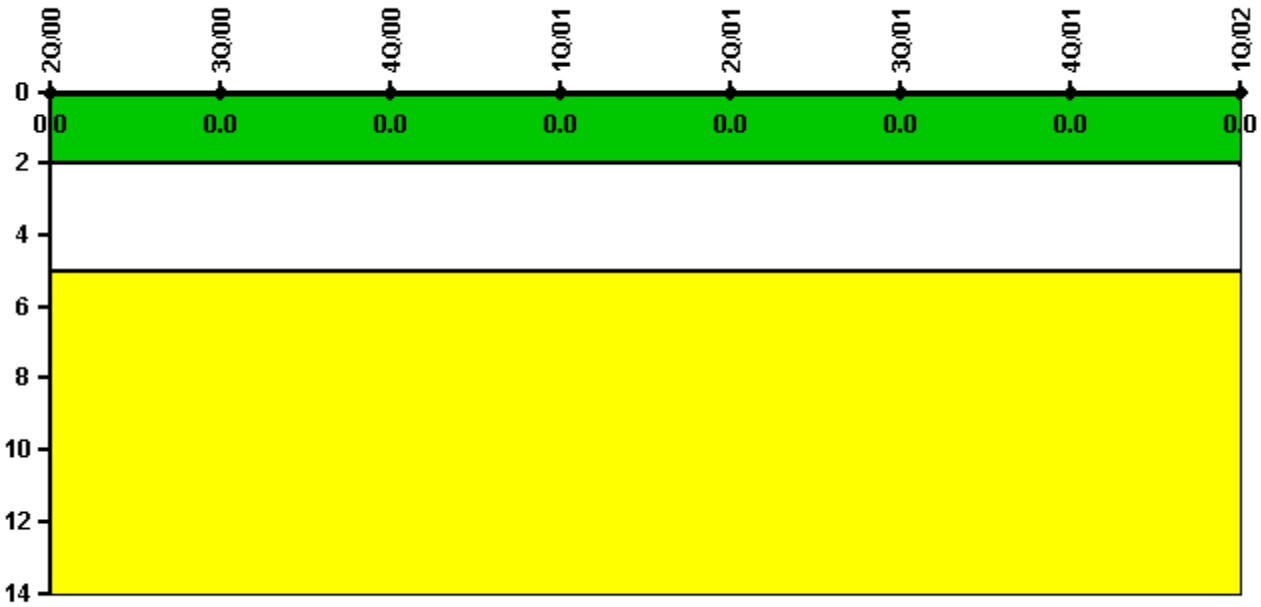
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful siren-tests	384	380	384	414	427	431	431	434
Total sirens-tests	385	385	385	427	429	434	434	434
Indicator value	99.4%	99.2%	99.4%	98.7%	98.7%	98.9%	98.8%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



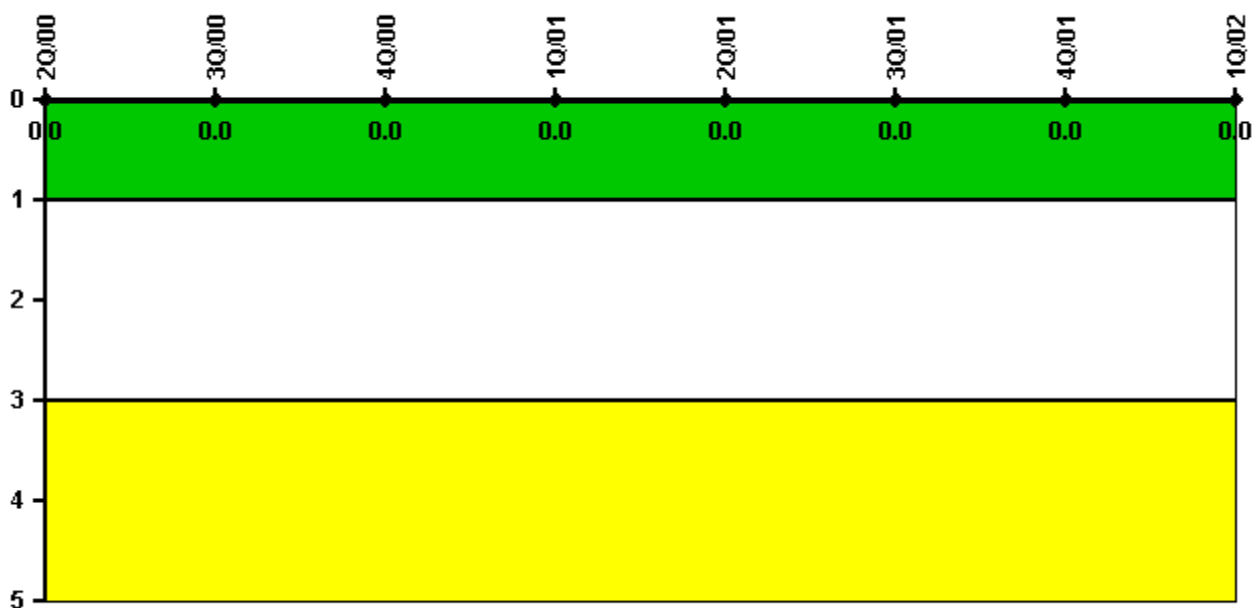
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
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



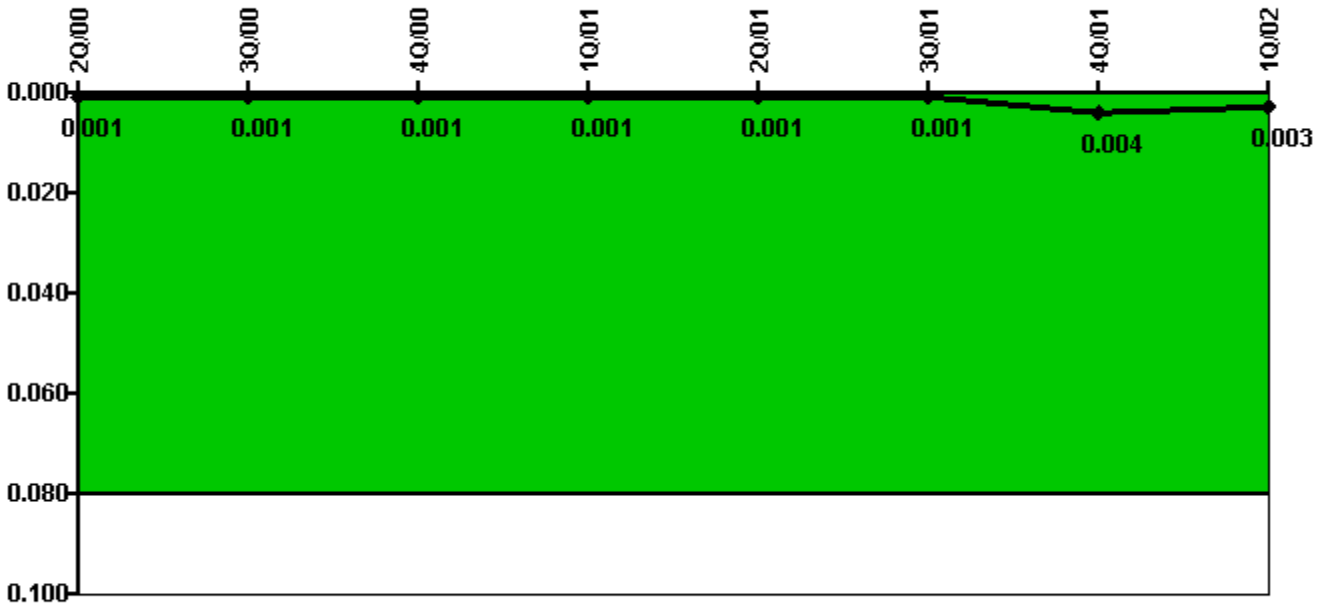
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
IDS compensatory hours	0	0	10.30	6.10	0	5.20	53.40	0
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.003

Licensee Comments:

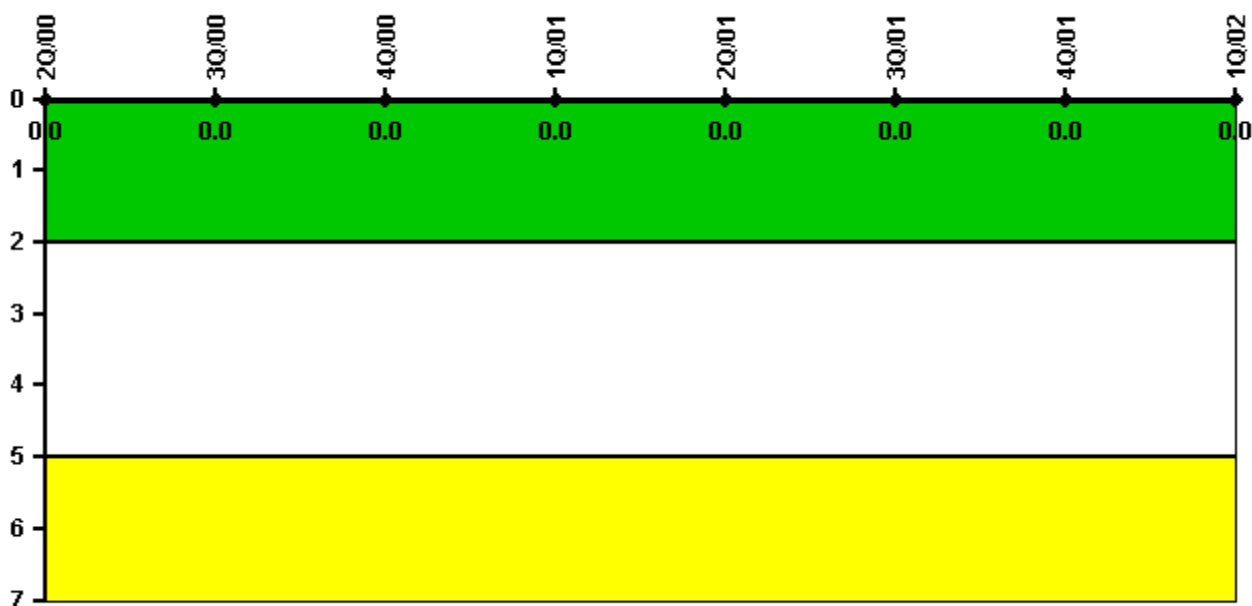
1Q/02: Performance reflects zero (0) hours of CCTV camera operation during this reporting period.

4Q/01: Performance reflects 17.4 hours of CCTV camera operation during this reporting period with zero (0) failures. Re-assessment noted October and December 2001, IDS Compensatory Hours should have been 40.0 (vs. 40.5) and 13.4 (vs 16.2) respectively.

3Q/01: Re-assessment noted September 2001, IDS Compensatory Hours should have been 5.2 vs. 6.9.

1Q/01: Re-assessment noted March 2001, IDS Compensatory Hours should have been 6.1 vs. 6.2.

Personnel Screening Program



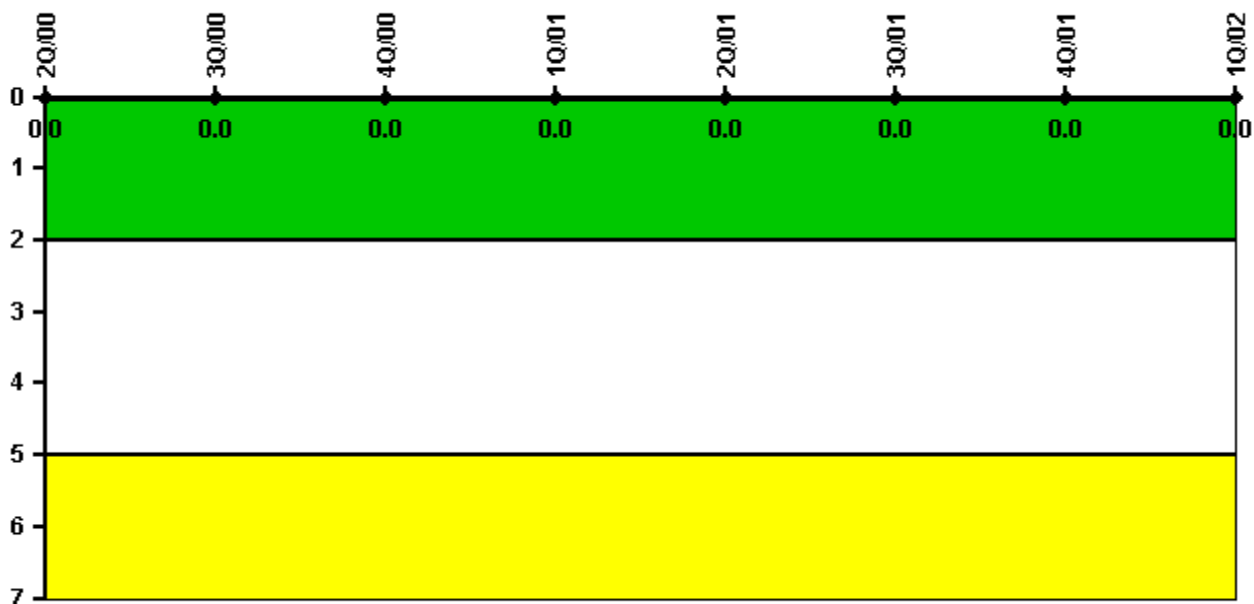
Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Program failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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

Last Modified: May 1, 2002