

Surry 1

1Q/2001 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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	0	0	0	1.0	0
Critical hours	2209.0	2184.0	1646.0	2208.0	2189.6	2160.0
Indicator value	0	0	0	0	0.9	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



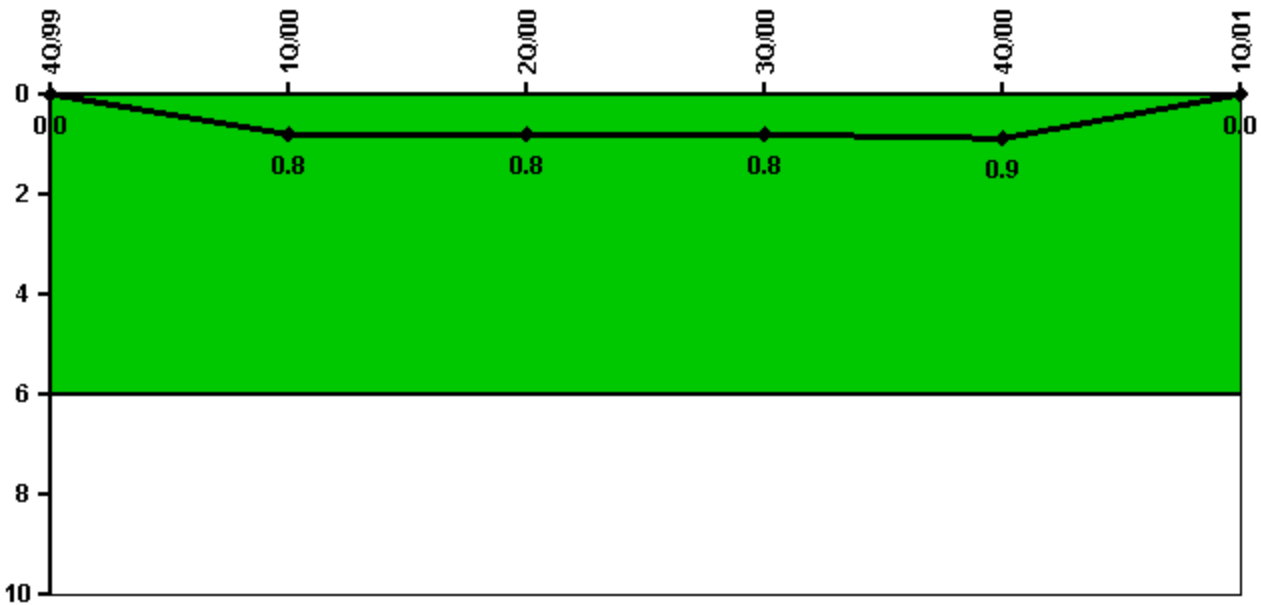
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Scrams	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



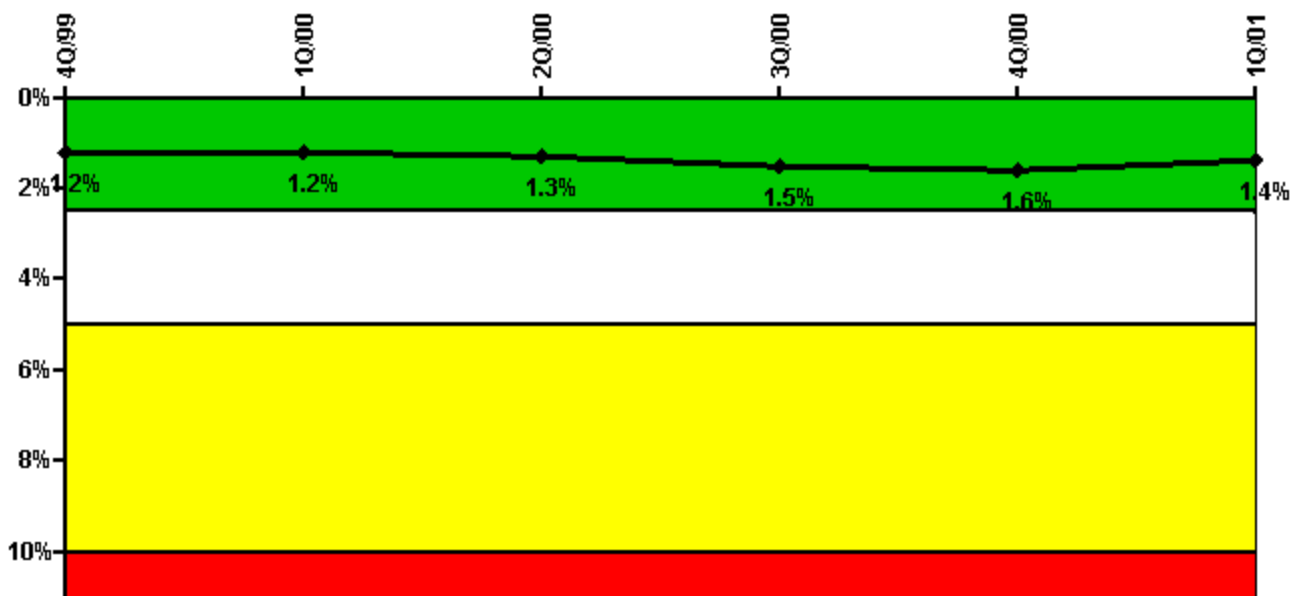
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned power changes	0	1.0	0	0	0	0
Critical hours	2209.0	2184.0	1646.0	2208.0	2189.6	2160.0
Indicator value	0	0.8	0.8	0.8	0.9	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

Notes

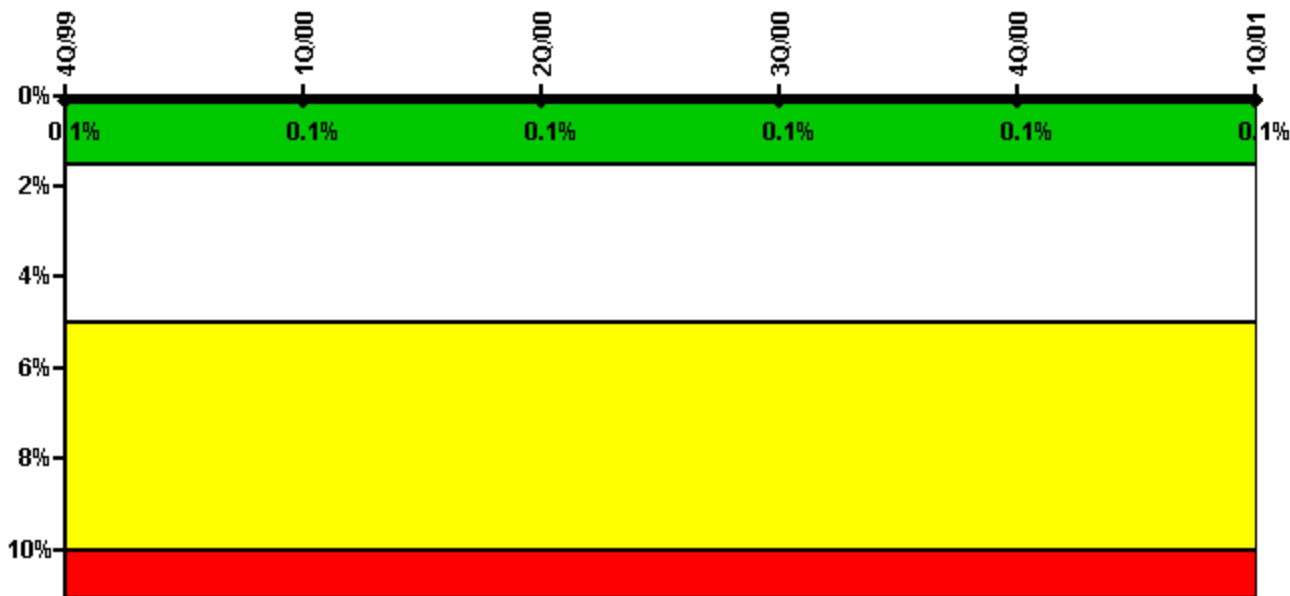
Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	17.30	13.40	26.60	17.39	11.50	14.05
Unplanned unavailable hours	0	0	0	83.68	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2076.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	41.05	26.08	16.86	33.78	19.74	26.29
Unplanned unavailable hours	0	0	50.20	0	10.30	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	1.2%	1.2%	1.3%	1.5%	1.6%	1.4%

Licensee Comments:

1Q/01: An audit of input data required correcting unavailable hours for Train 2 from 1Q2000 through 4Q2000 for unaccounted test time. Also, hours train required for service for April 2000 were inaccurate due to non-compensation for Daylight Savings Time (1 hour). All data were corrected with no change in color.

2Q/00: Due to the clarifying notes for testing and on-line planned overhaul maintenance in Revision 0 of NEI 99-02, reportable "planned unavailable hours" for this PI could be reduced. Historical data from 1Q1997 through 1Q2000 was corrected. The PI color did not change.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

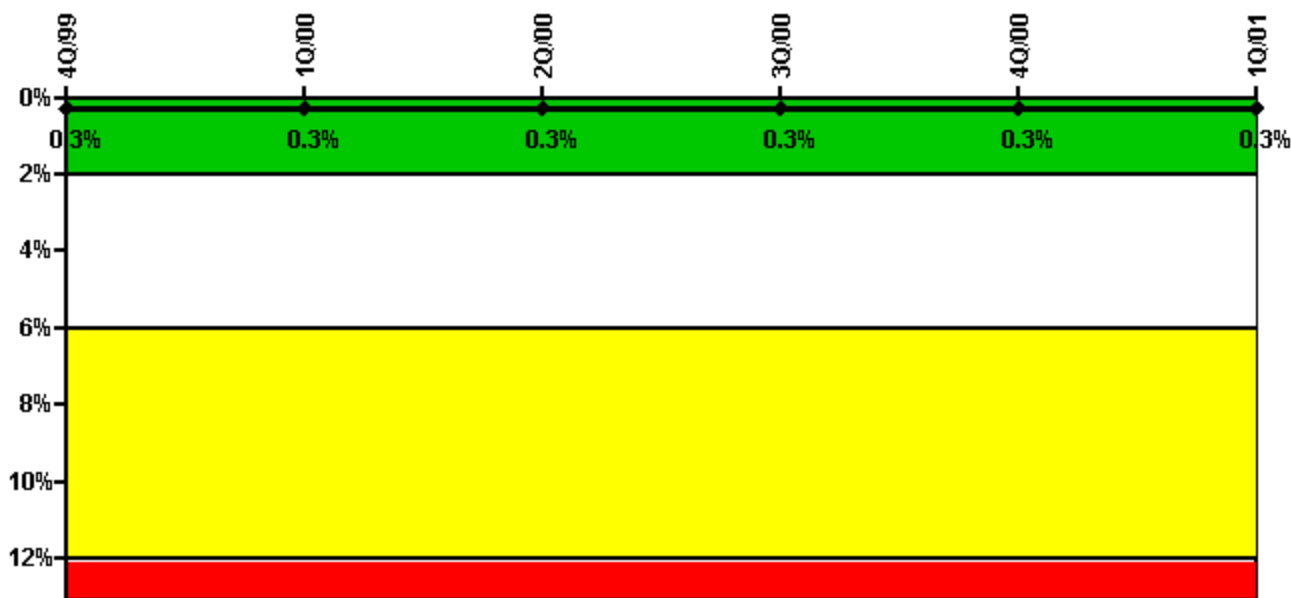
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	5.20	0	0	0	3.60
Unplanned unavailable hours	0	0	1.20	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	0	10.00	9.70	0	1.00	0.70
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments:

1Q/01: Hours train required for service for April 2000 were inaccurate due to non-compensation for Daylight Savings Time (1 hour). All data were corrected with no change in color.

Safety System Unavailability, Heat Removal System (AFW)



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

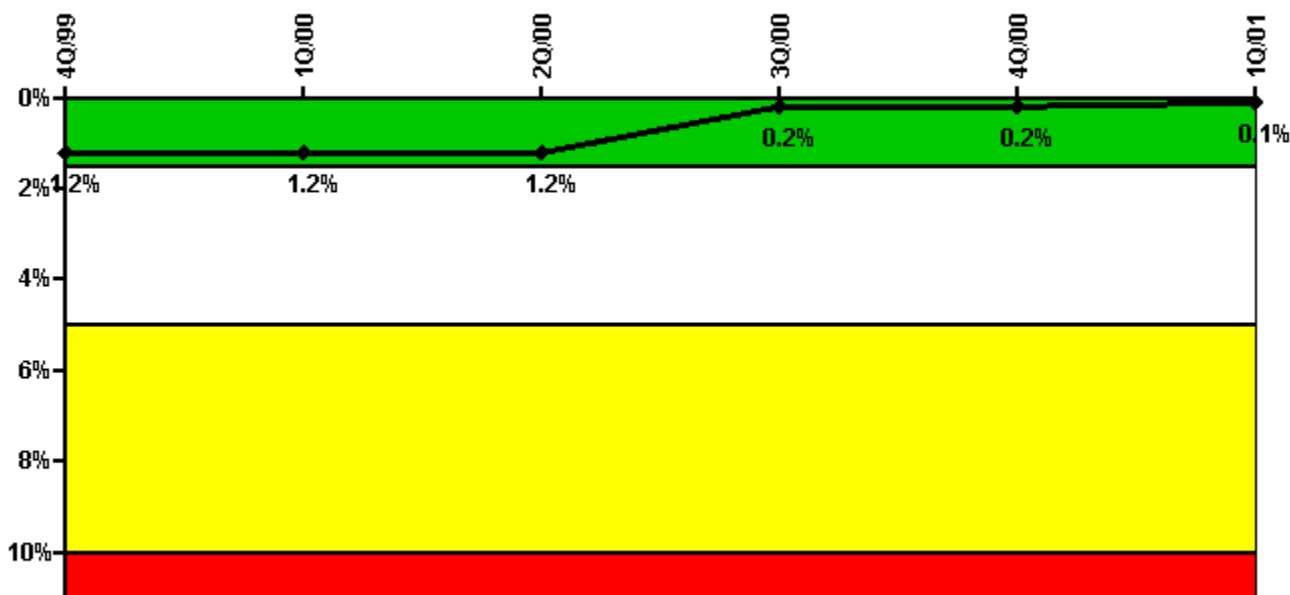
Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	3.30	2.90	0.60	3.19	15.57	12.40
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	0	1.50	1.20	0.92	2.23	0
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00
Train 3						
Planned unavailable hours	2.00	19.90	11.30	2.48	18.20	11.30
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2197.00	2209.00	2160.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%

Licensee Comments:

1Q/01: Hours train required for service for April 2000 were inaccurate due to non-compensation for Daylight Savings Time (1 hour). All data were corrected with no change in color.

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/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	10.00	0.40	0.58	0	1.10
Unplanned unavailable hours	0	0	1.50	0	0	2.10
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	0	0.10	0.40	13.15	0	0.10
Unplanned unavailable hours	0	0	0	0	0	2.10
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	1015.00	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00
Train 3						
Planned unavailable hours	0	0	10.40	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2076.00	2208.00	2209.00	2160.00
Train 4						
Planned unavailable hours	0	0	10.50	0	0	0
Unplanned unavailable hours	0	0	6.80	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2076.00	2208.00	2209.00	2160.00

Indicator value	1.2%	1.2%	1.2%	0.2%	0.2%	0.1%
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Licensee Comments:

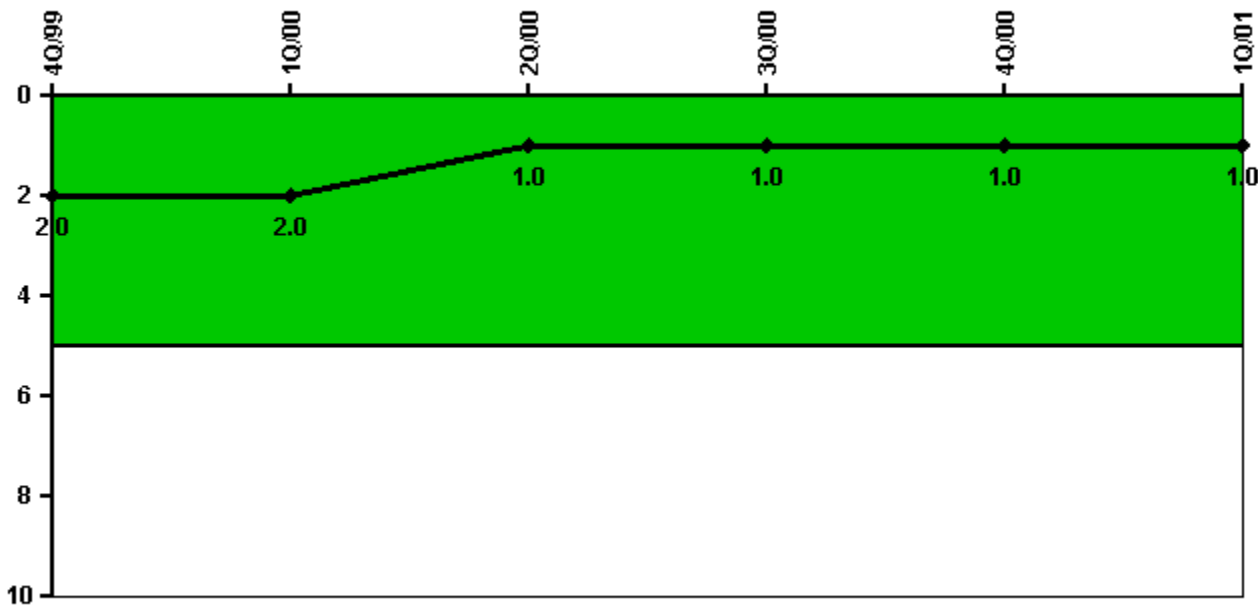
1Q/01: An audit of unavailable hours required correcting data for Train 1 in 3Q2000. Also, hours train required for service for April 2000 were inaccurate due to non-compensation for Daylight Savings Time (1 hour). All data were corrected with no change in color.

3Q/00: Fault exposure hours for Train 2 for February, 1999 have been removed as allowed by NEI 99-02, Rev. 0

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process.

Safety System Functional Failures (PWR)



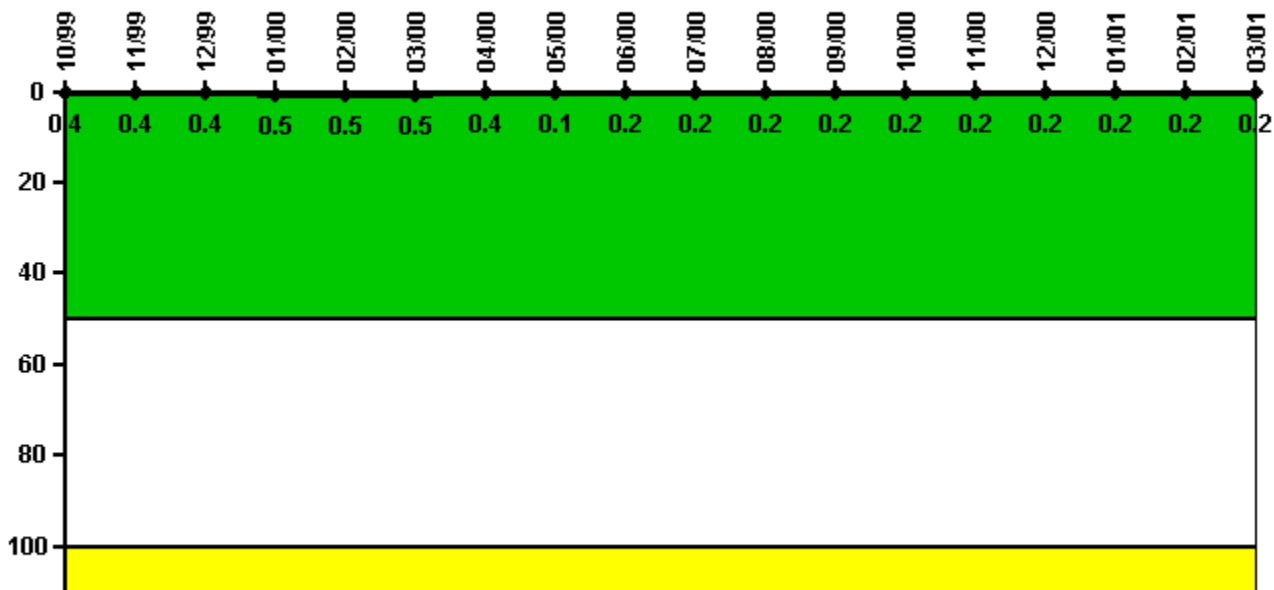
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Safety System Functional Failures	0	0	0	1	0	0
Indicator value	2	2	1	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

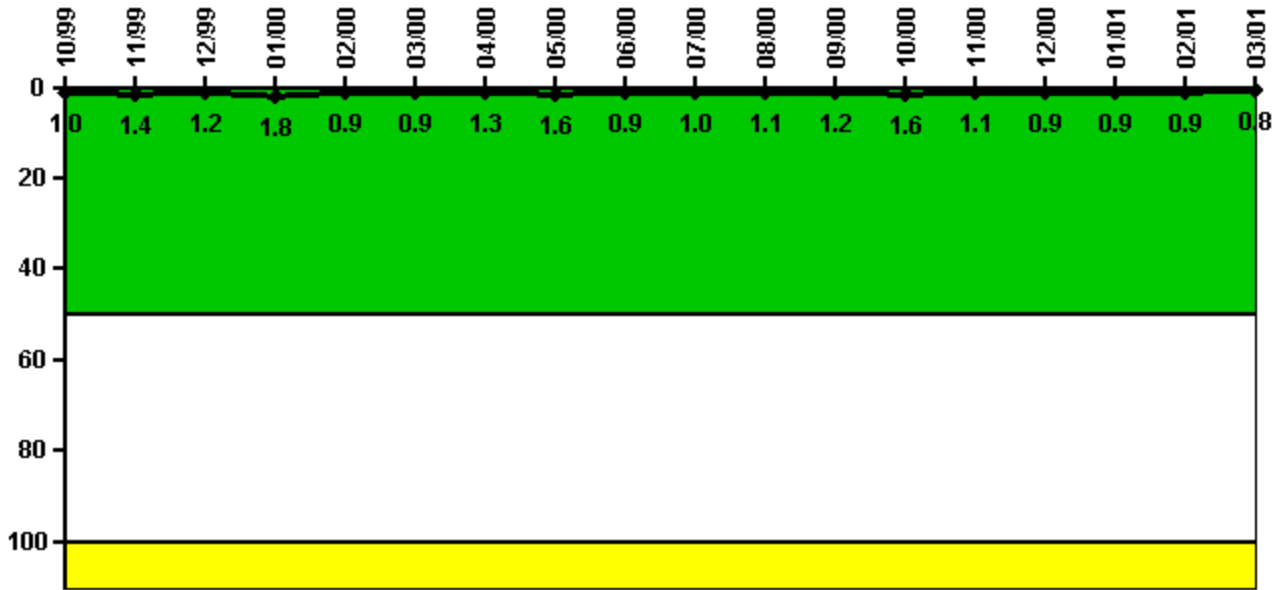
Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.004070	0.004460	0.004370	0.004500	0.004660	0.005130	0.003910	0.001360	0.001720	0.001550	0.001770	0.002050
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	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.1	0.2	0.2	0.2	0.2

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.002060	0.002060	0.002000	0.002240	0.002240	0.002270
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

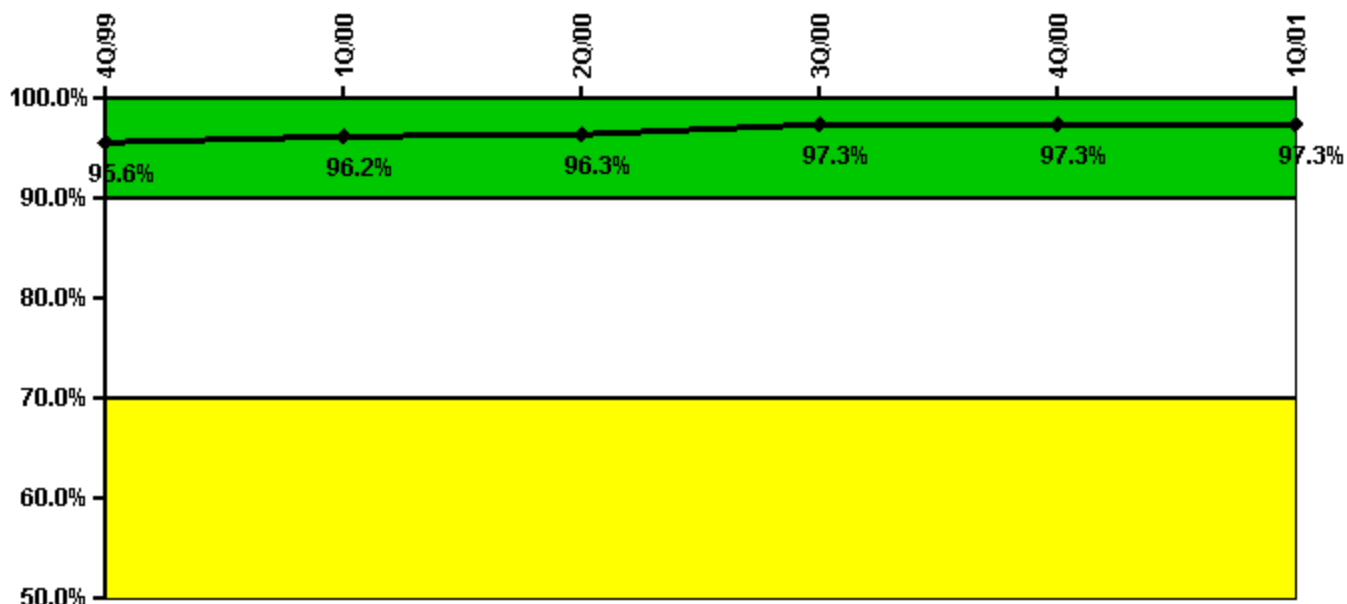
Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.100	0.140	0.120	0.180	0.090	0.090	0.130	0.160	0.090	0.100	0.110	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	1.0	1.4	1.2	1.8	0.9	0.9	1.3	1.6	0.9	1.0	1.1	1.2

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.160	0.110	0.090	0.090	0.090	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.6	1.1	0.9	0.9	0.9	0.8

Licensee Comments: none

Drill/Exercise Performance



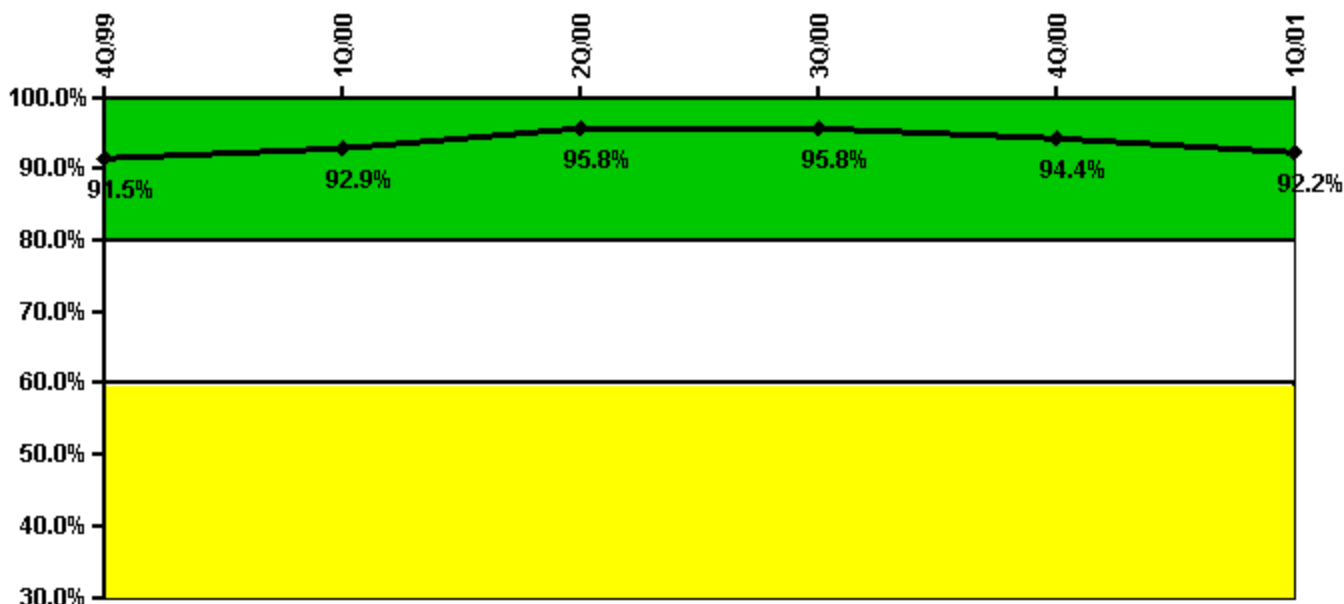
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful opportunities	78.0	44.0	7.0	72.0	0	0
Total opportunities	81.0	45.0	7.0	72.0	0	0
Indicator value	95.6%	96.2%	96.3%	97.3%	97.3%	97.3%

Licensee Comments: none

ERO Drill Participation



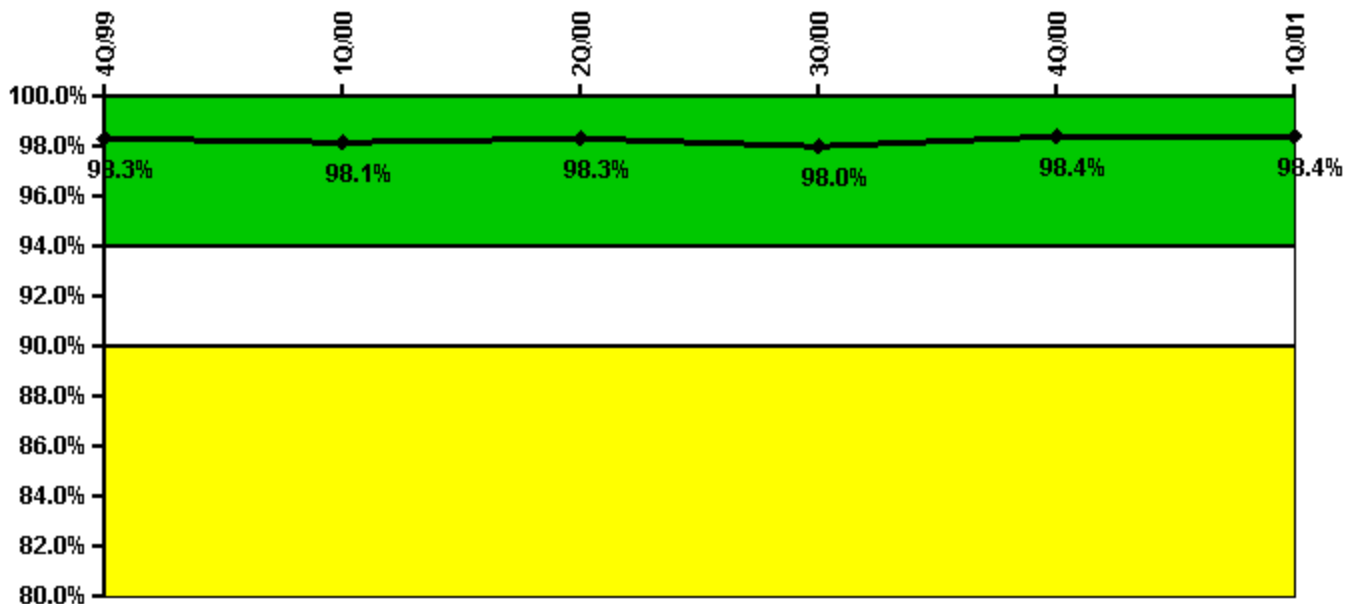
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Participating Key personnel	151.0	157.0	158.0	161.0	136.0	119.0
Total Key personnel	165.0	169.0	165.0	168.0	144.0	129.0
Indicator value	91.5%	92.9%	95.8%	95.8%	94.4%	92.2%

Licensee Comments: none

Alert & Notification System



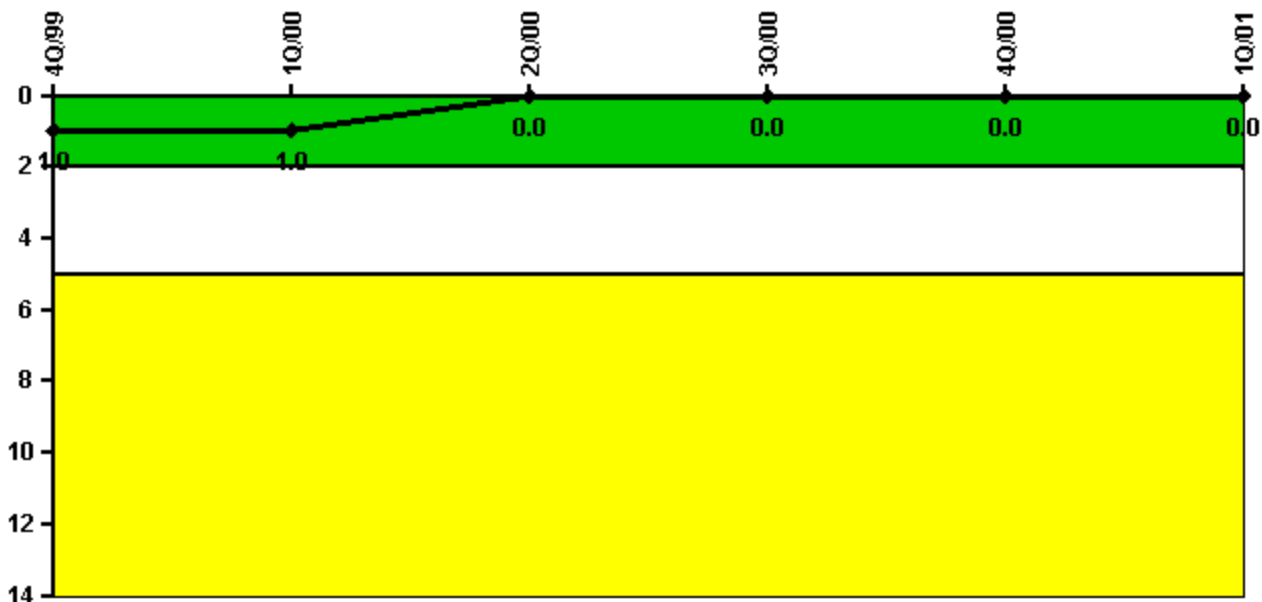
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful siren-tests	492	498	441	437	444	442
Total sirens-tests	504	506	448	448	448	448
Indicator value	98.3%	98.1%	98.3%	98.0%	98.4%	98.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
High radiation area occurrences	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0
Indicator value	1	1	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



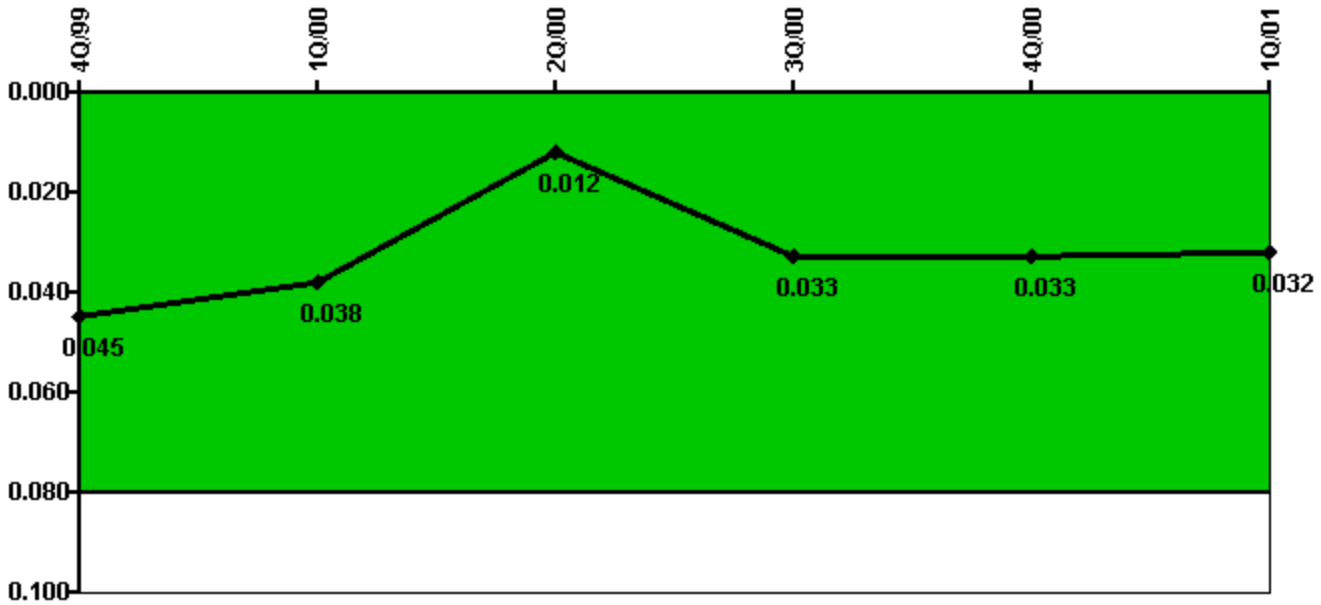
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
RETS/ODCM occurrences	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

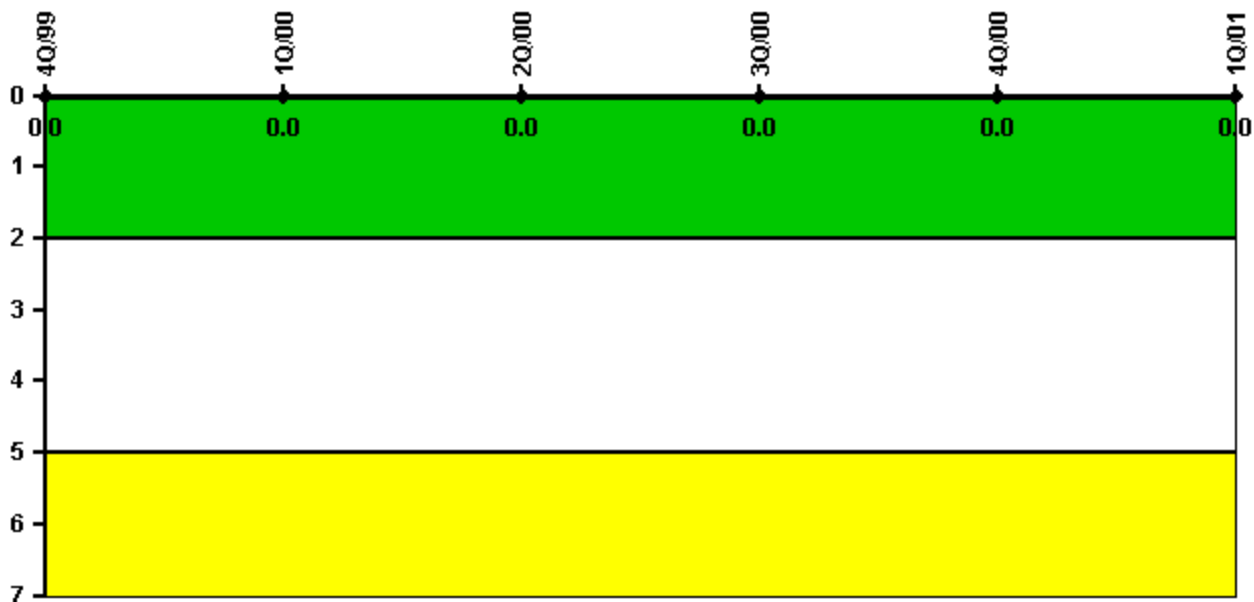
Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
IDS compensatory hours	8.20	26.05	59.40	513.85	16.10	0
CCTV compensatory hours	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.045	0.038	0.012	0.033	0.033	0.032

Licensee Comments:

1Q/01: The Protected Area perimeter threat assessment function at Surry is primarily provided by armed response personnel in towers. This performance data reflects one CCTV camera which covers the part of the perimeter not covered by a tower.

Personnel Screening Program



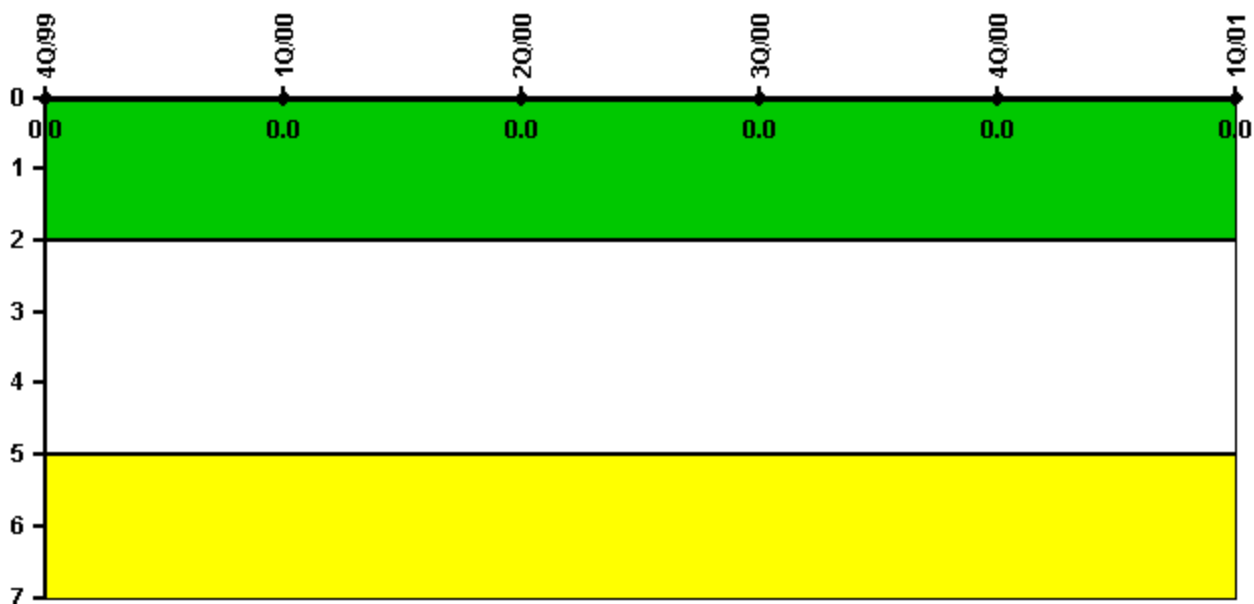
Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Program failures	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Program Failures	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0

Licensee Comments: none

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

Last Modified: March 28, 2002