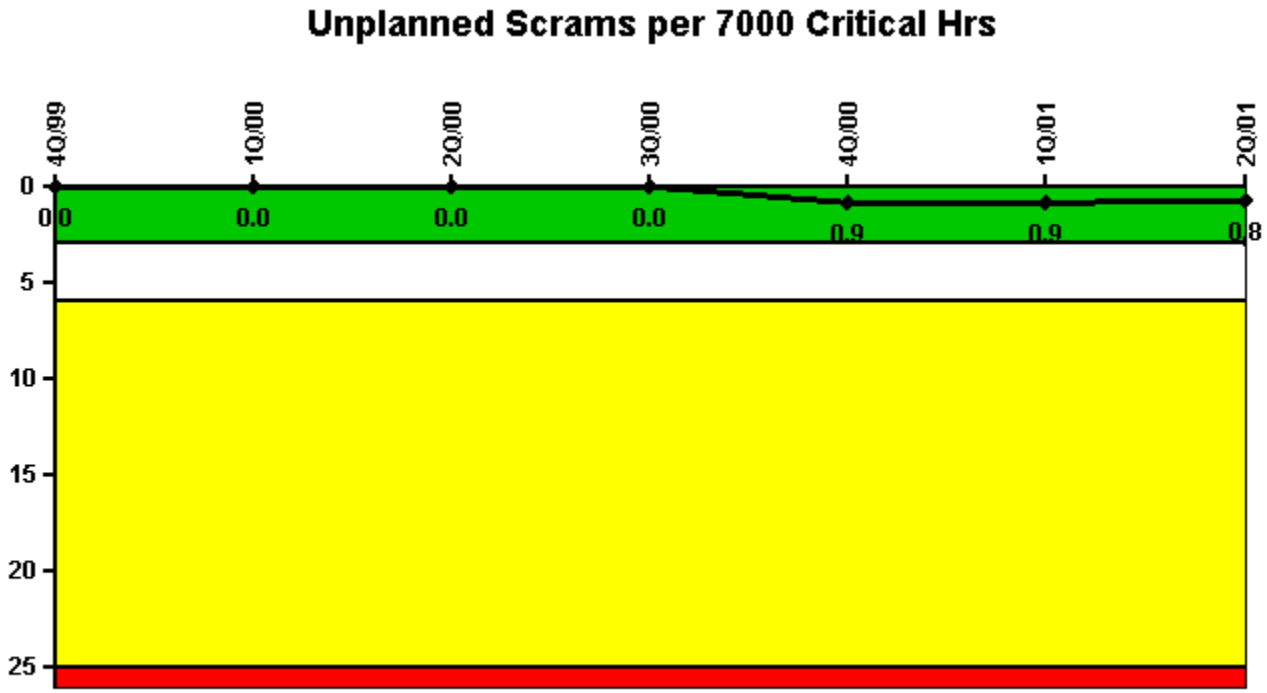
Surry 1

2Q/2001 Performance Indicators

Licensee's General Comments: none



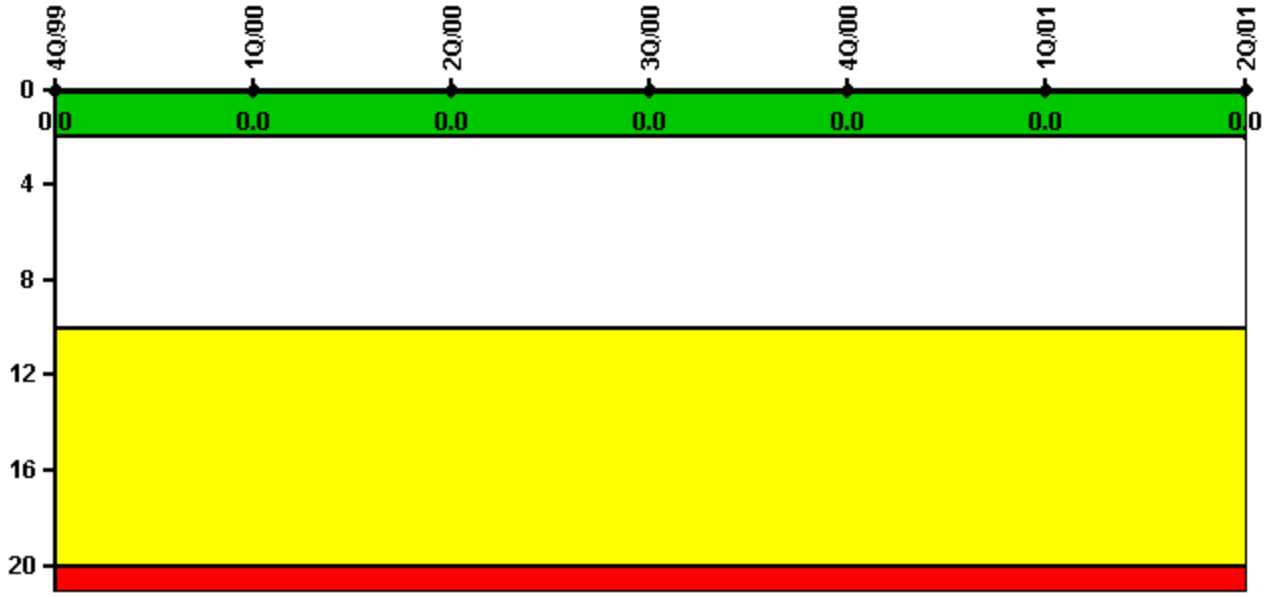
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned scrams	0	0	0	0	1.0	0	0
Critical hours	2209.0	2184.0	1646.0	2208.0	2189.6	2160.0	2145.9
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



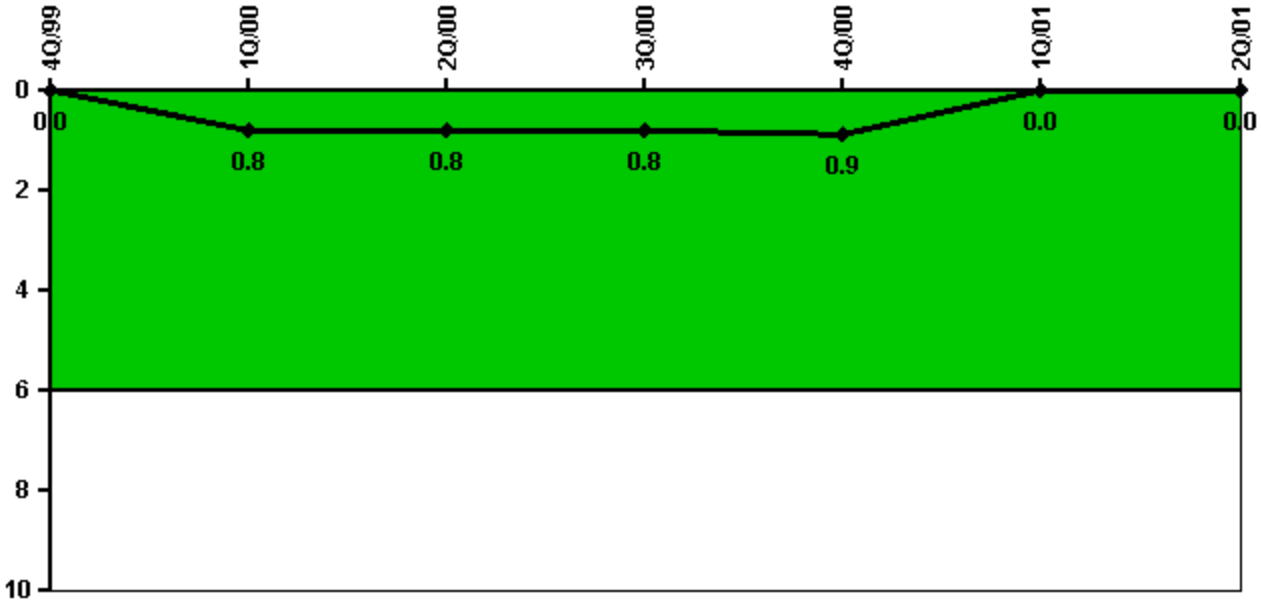
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



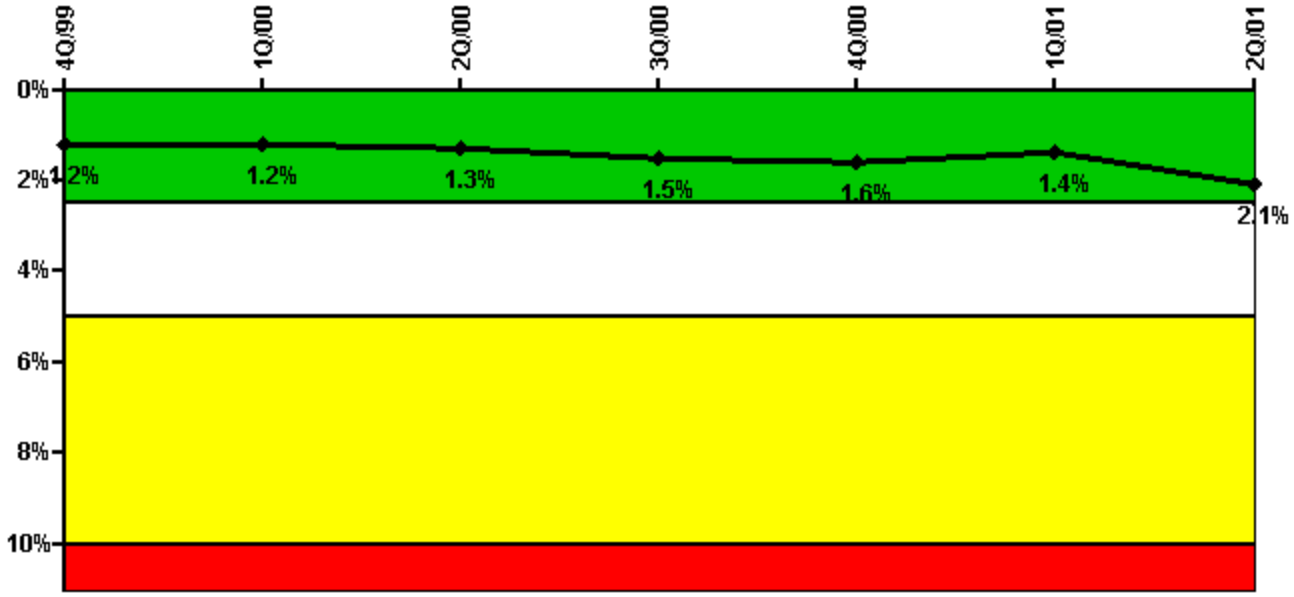
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned power changes	0	1.0	0	0	0	0	0
Critical hours	2209.0	2184.0	1646.0	2208.0	2189.6	2160.0	2145.9
Indicator value	**0**	**0.8**	**0.8**	**0.8**	**0.9**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



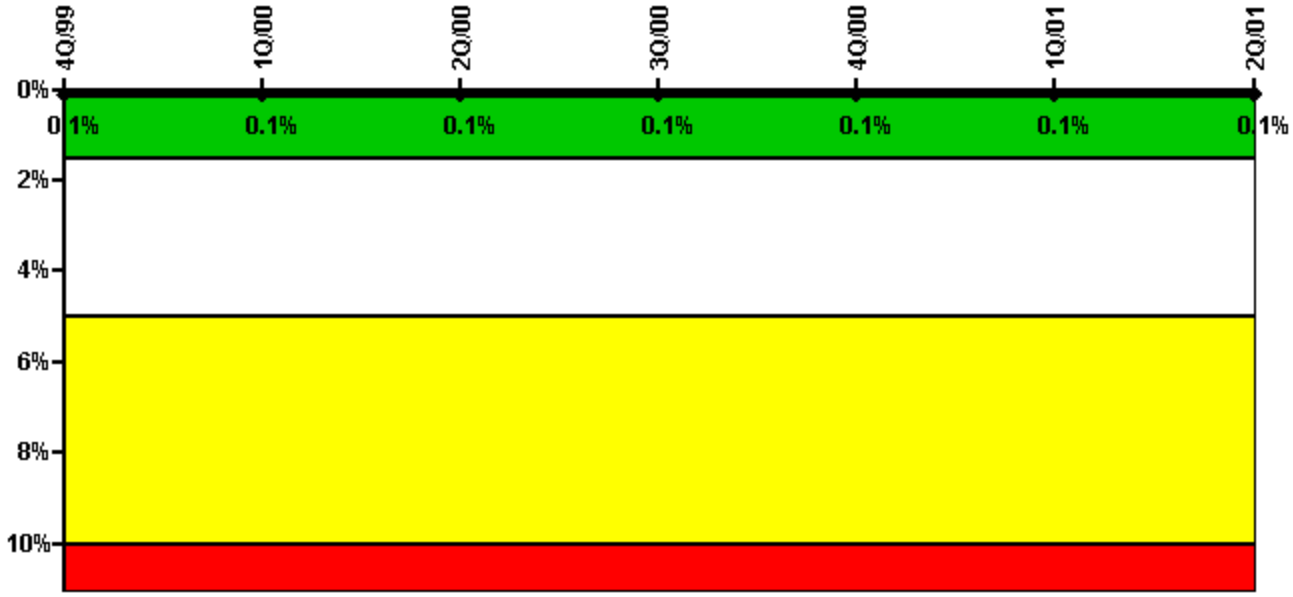
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	17.30	13.40	26.60	17.39	11.50	14.05	5.97
Unplanned unavailable hours	0	0	0	83.68	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2076.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	41.05	26.08	16.86	33.78	19.74	26.29	15.55
Unplanned unavailable hours	0	0	50.20	0	10.30	0	131.35
Fault exposure hours	0	0	0	0	0	0	192.03
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**1.2%**	**1.2%**	**1.3%**	**1.5%**	**1.6%**	**1.4%**	**2.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



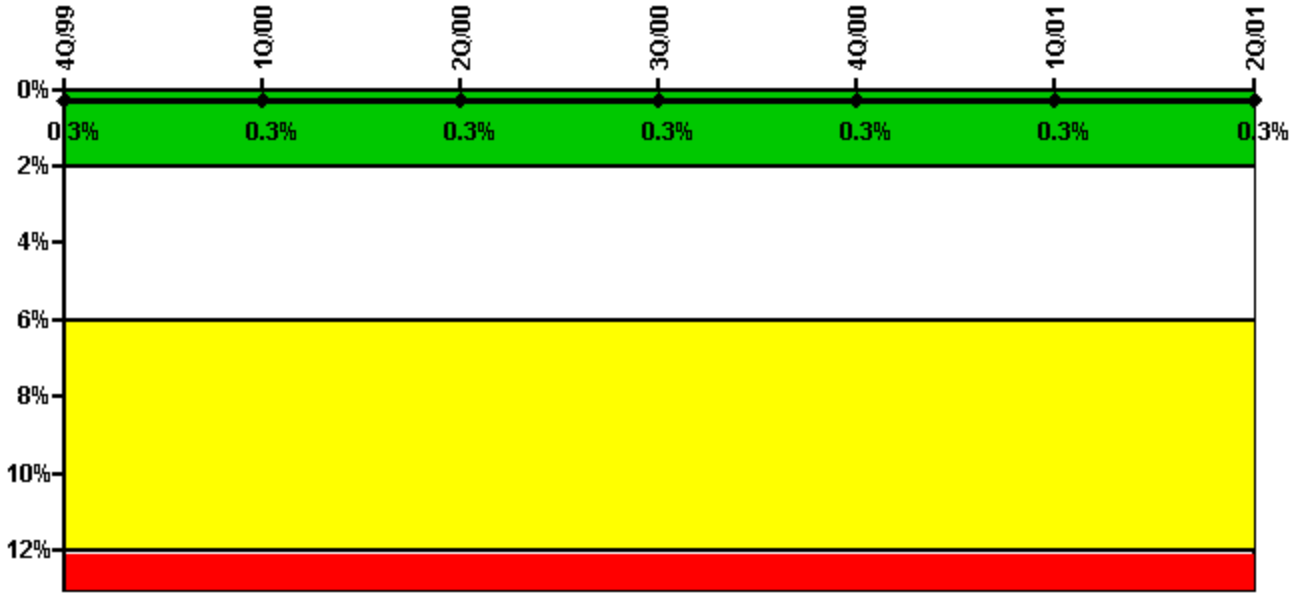
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0	5.20	0	0	0	3.60	0
Unplanned unavailable hours	0	0	1.20	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	0	10.00	9.70	0	1.00	0.70	0.50
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



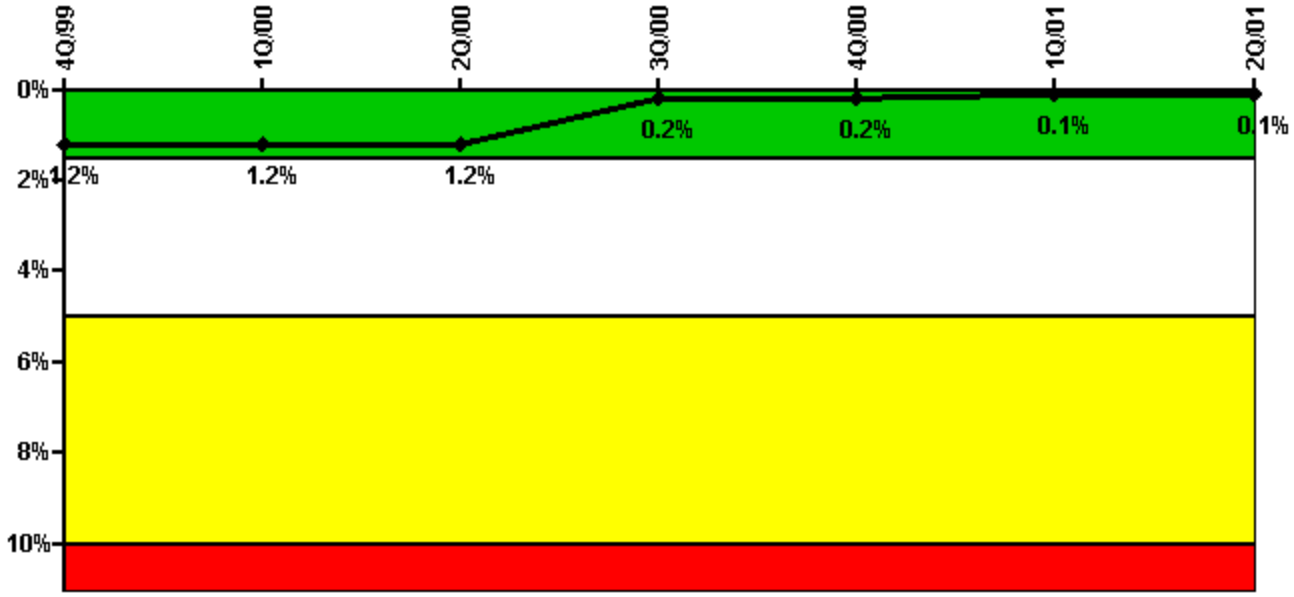
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	3.30	2.90	0.60	3.19	15.57	12.40	1.80
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	0	1.50	1.20	0.92	2.23	0	1.90
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00
Train 3							
Planned unavailable hours	2.00	19.90	11.30	2.48	18.20	11.30	3.50
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2197.00	2209.00	2160.00	2183.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

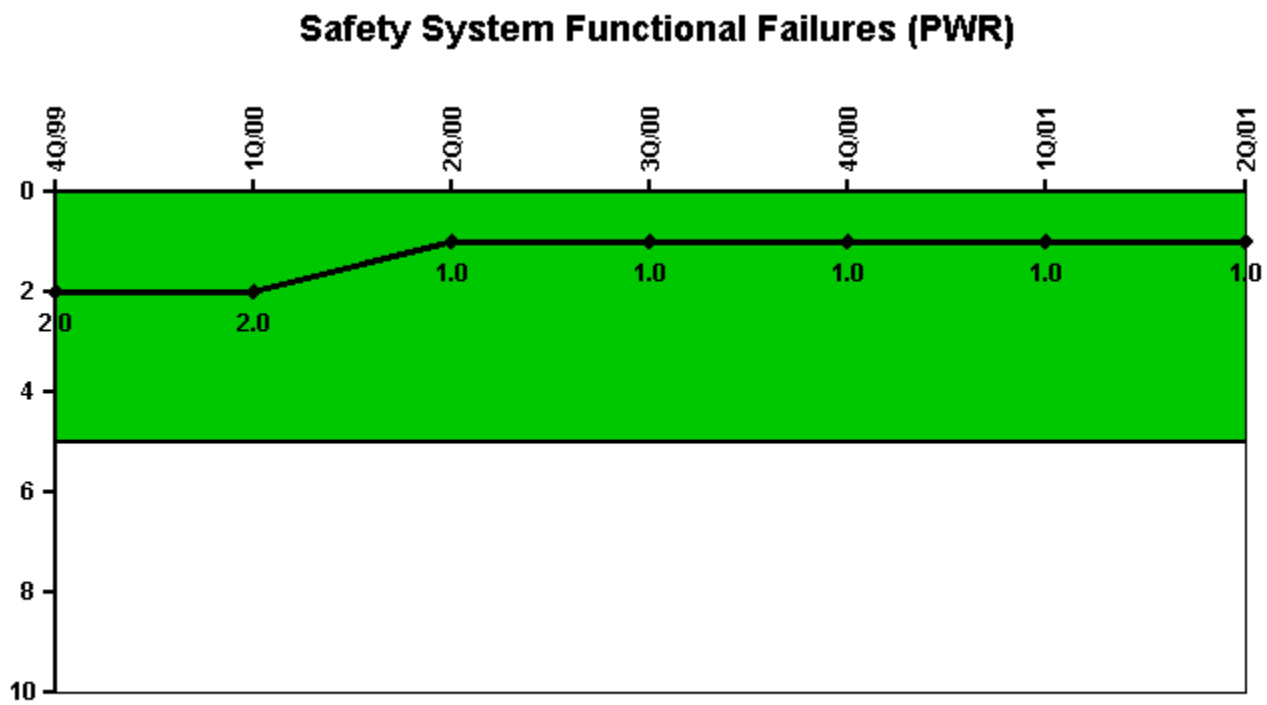
Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0	10.00	0.40	0.58	0	1.10	0.20
Unplanned unavailable hours	0	0	1.50	0	0	2.10	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	0	0.10	0.40	13.15	0	0.10	0.10
Unplanned unavailable hours	0	0	0	0	0	2.10	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	1015.00	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00
Train 3							
Planned unavailable hours	0	0	10.40	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2076.00	2208.00	2209.00	2160.00	2183.00
Train 4							
Planned unavailable hours	0	0	10.50	0	0	0	0
Unplanned unavailable hours	0	0	6.80	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2076.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**1.2%**	**1.2%**	**1.2%**	**0.2%**	**0.2%**	**0.1%**	**0.1%**

Licensee Comments: none

Effective Reset Comments:

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



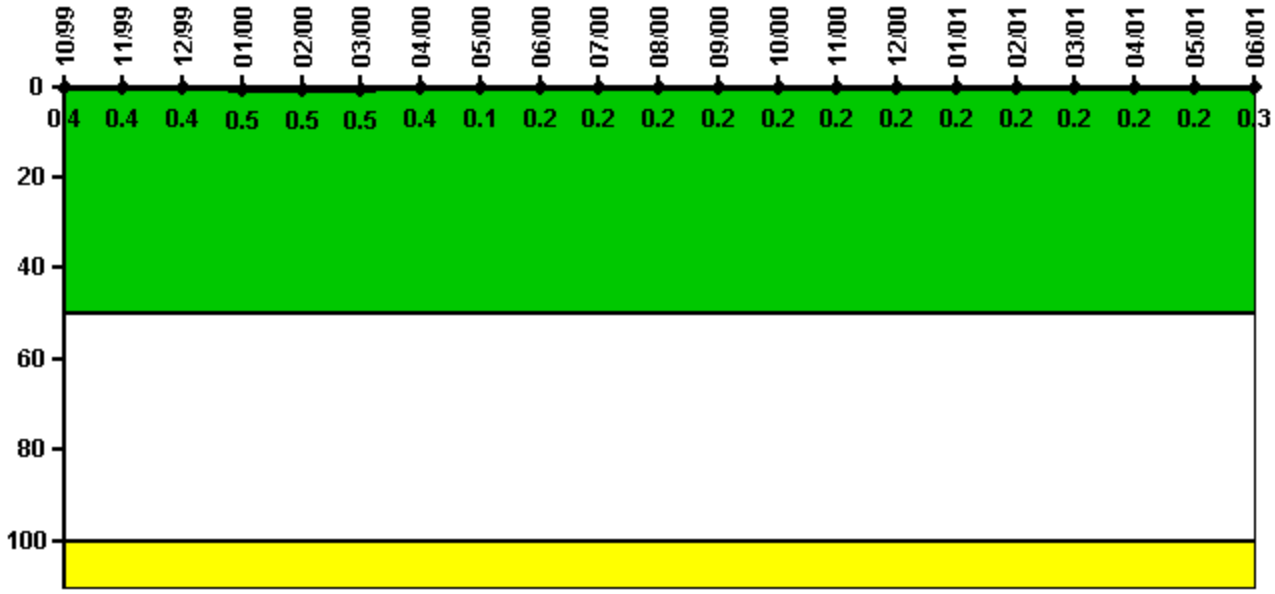
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

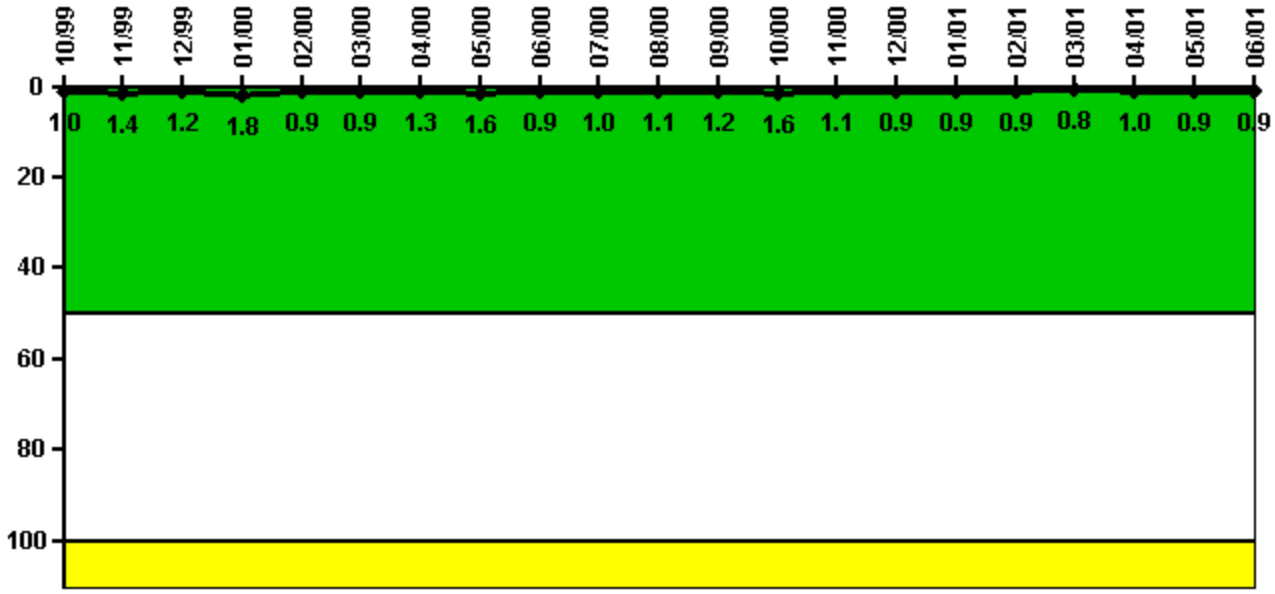
Notes

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	4/01	5/01	6/01
Maximum activity	0.002060	0.002060	0.002000	0.002240	0.002240	0.002270	0.002450	0.002450	0.002500
Technical specification limit	1.0	1.0	1.0	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**	**0.2**	**0.2**	**0.3**

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

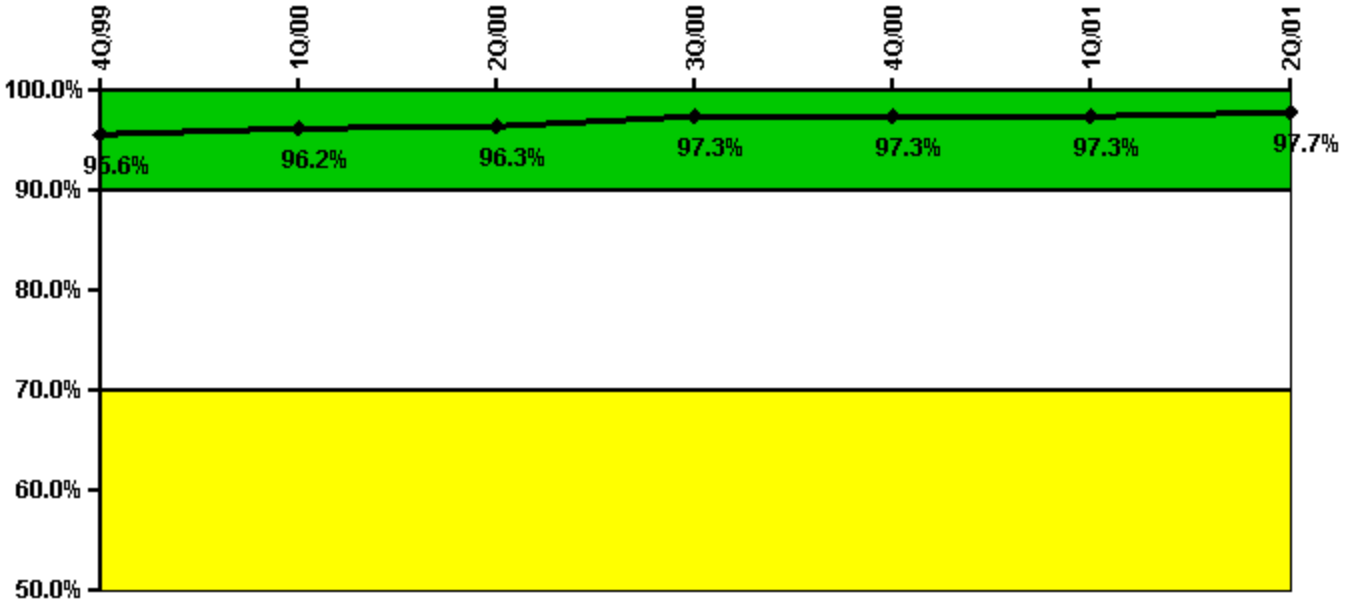
Notes

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	4/01	5/01	6/01
Maximum leakage	0.160	0.110	0.090	0.090	0.090	0.080	0.100	0.090	0.090
Technical specification limit	10.0	10.0	10.0	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**	**1.0**	**0.9**	**0.9**

Licensee Comments: none

Drill/Exercise Performance

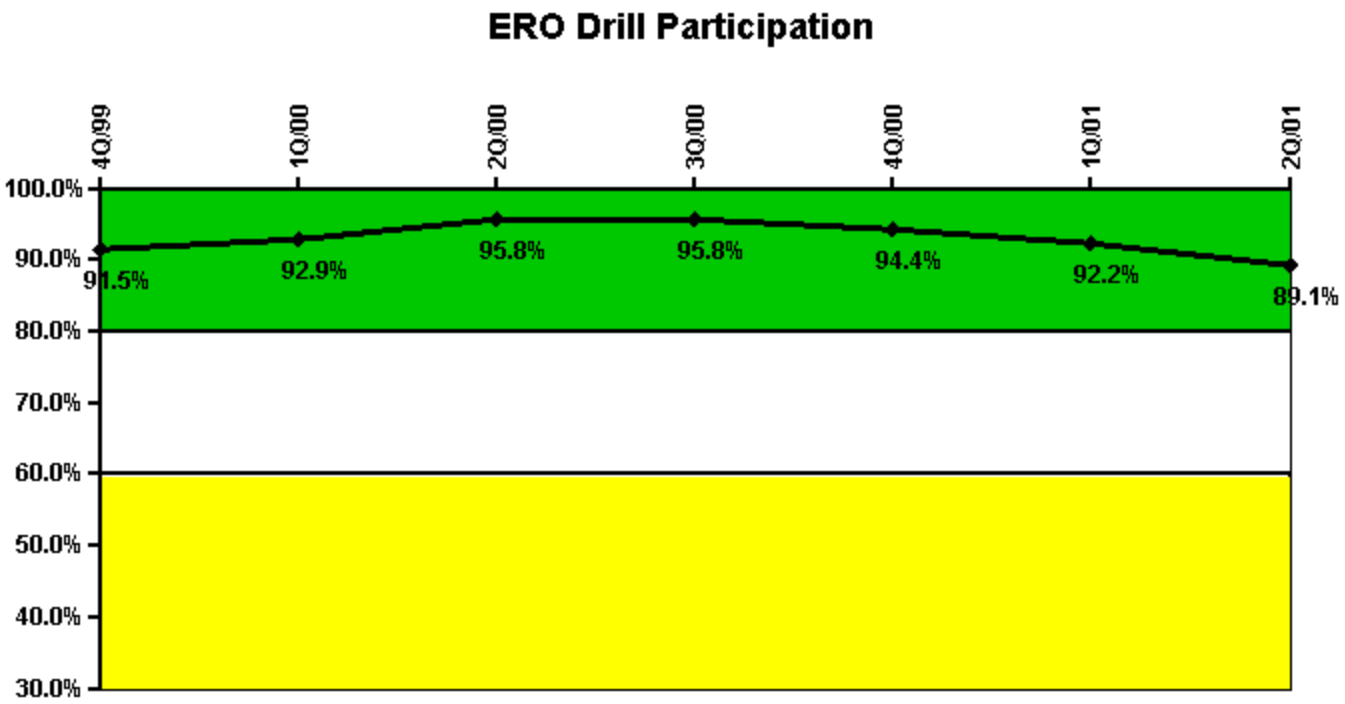


Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful opportunities	78.0	44.0	7.0	72.0	0	0	49.0
Total opportunities	81.0	45.0	7.0	72.0	0	0	51.0
Indicator value	**95.6%**	**96.2%**	**96.3%**	**97.3%**	**97.3%**	**97.3%**	**97.7%**

Licensee Comments: none



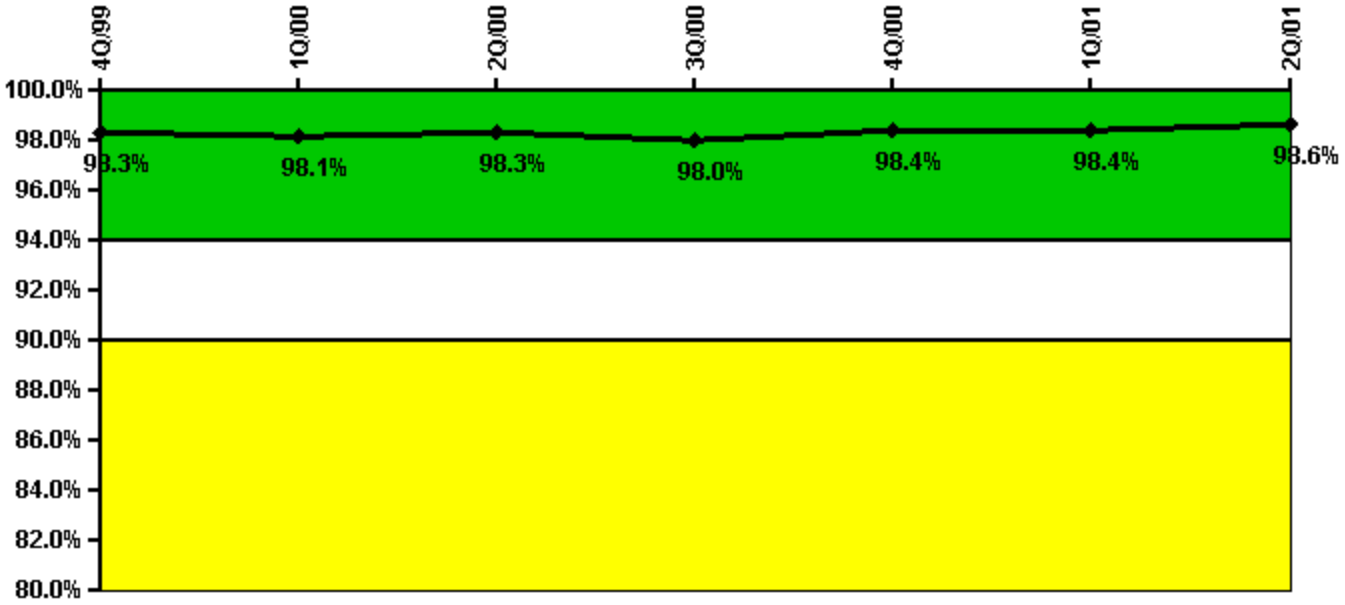
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Participating Key personnel	151.0	157.0	158.0	161.0	136.0	119.0	123.0
Total Key personnel	165.0	169.0	165.0	168.0	144.0	129.0	138.0
Indicator value	**91.5%**	**92.9%**	**95.8%**	**95.8%**	**94.4%**	**92.2%**	**89.1%**

Licensee Comments: none

Alert & Notification System



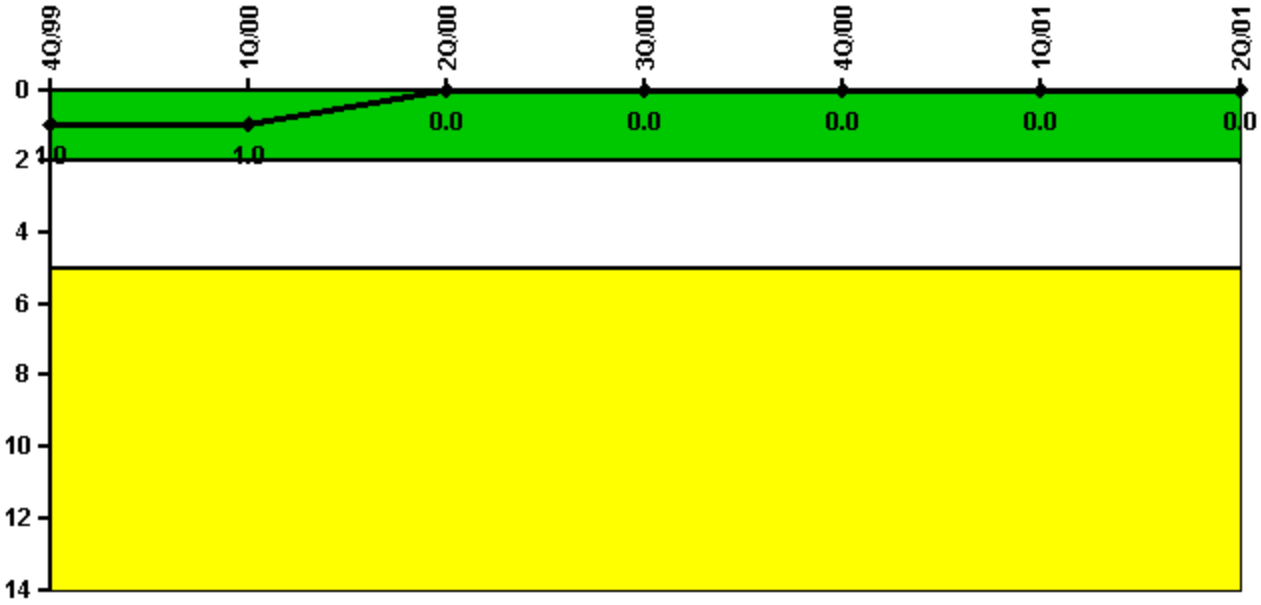
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful siren-tests	492	498	441	437	444	442	507
Total sirens-tests	504	506	448	448	448	448	512
Indicator value	**98.3%**	**98.1%**	**98.3%**	**98.0%**	**98.4%**	**98.4%**	**98.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness



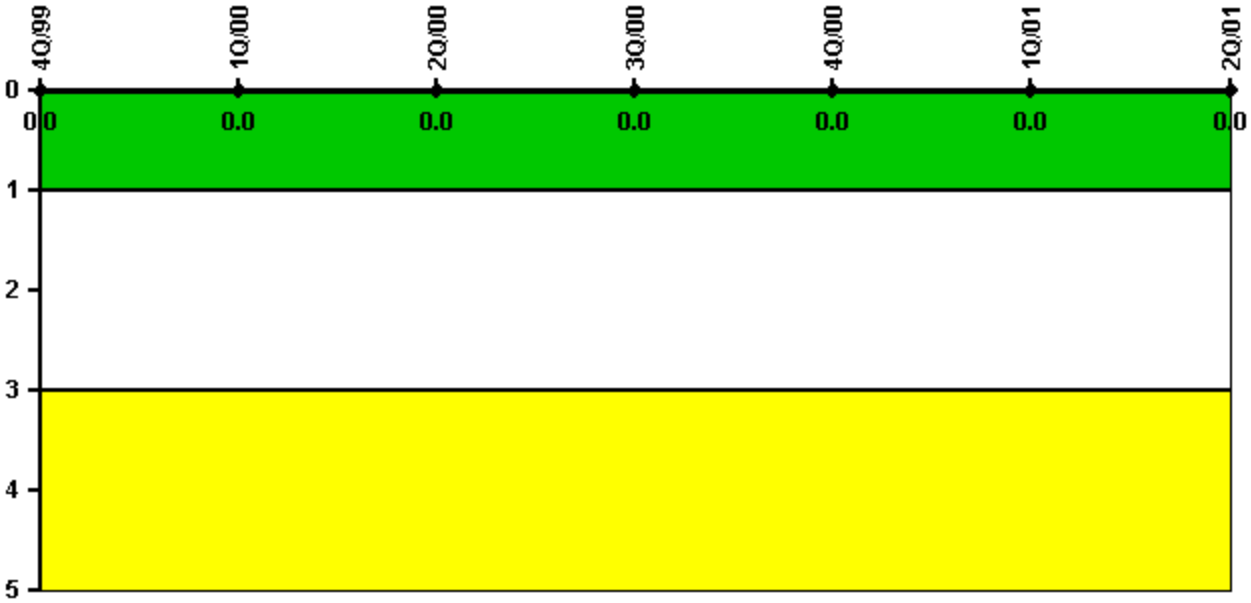
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



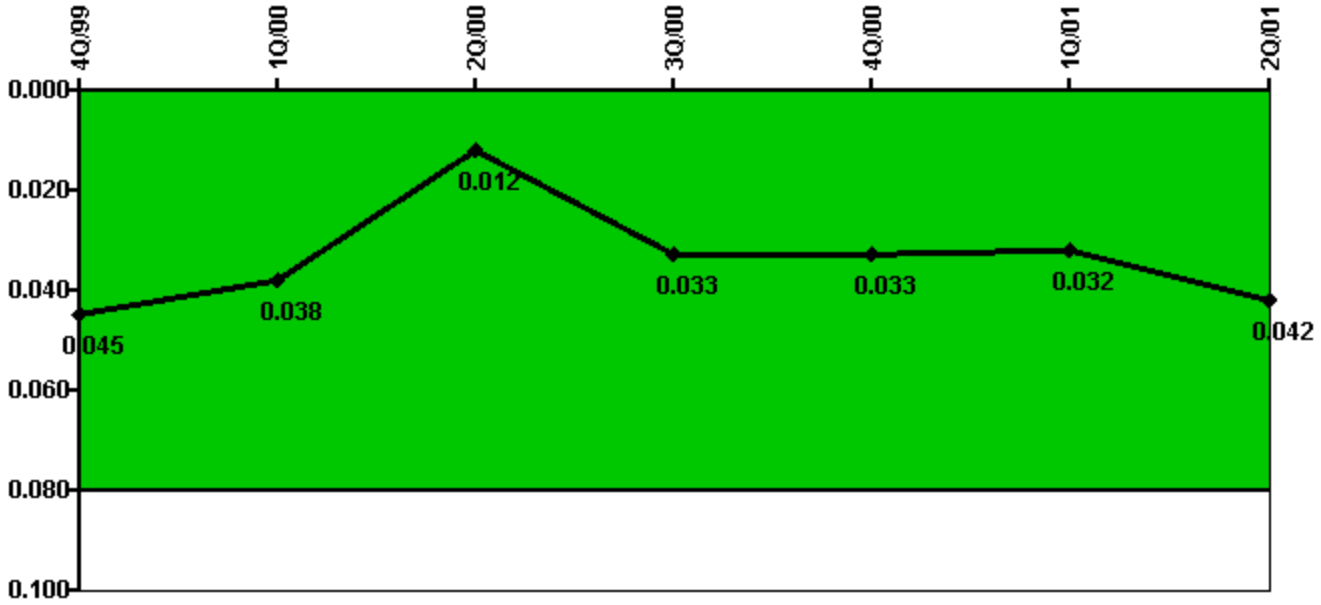
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

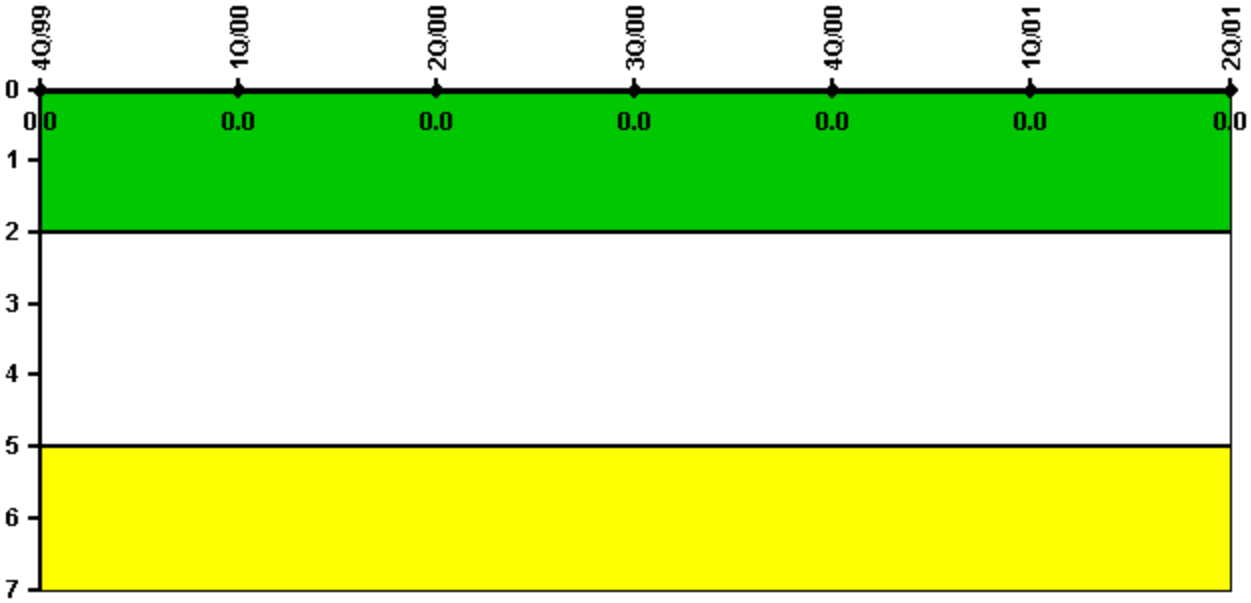
Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
IDS compensatory hours	8.20	26.05	59.40	513.85	16.10	0	246.48
CCTV compensatory hours	0	0	0	0	0	0	0
IDS normalization factor	1.05	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	1.0
Index Value	**0.045**	**0.038**	**0.012**	**0.033**	**0.033**	**0.032**	**0.042**

Licensee Comments:

2Q/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



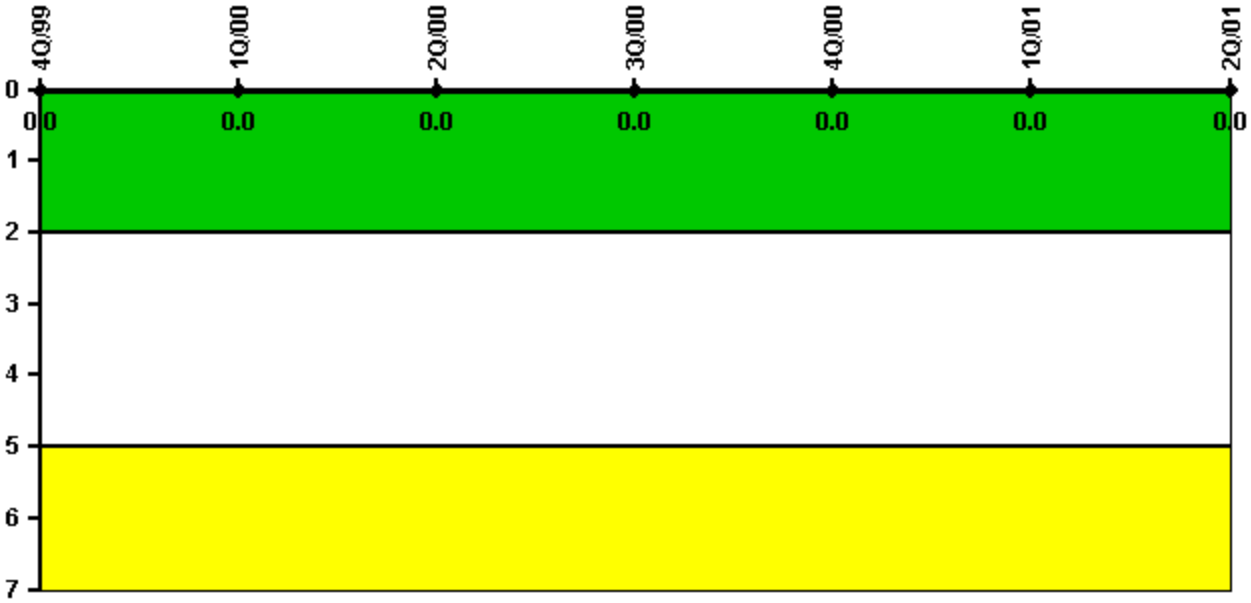
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Last Modified: March 27, 2002