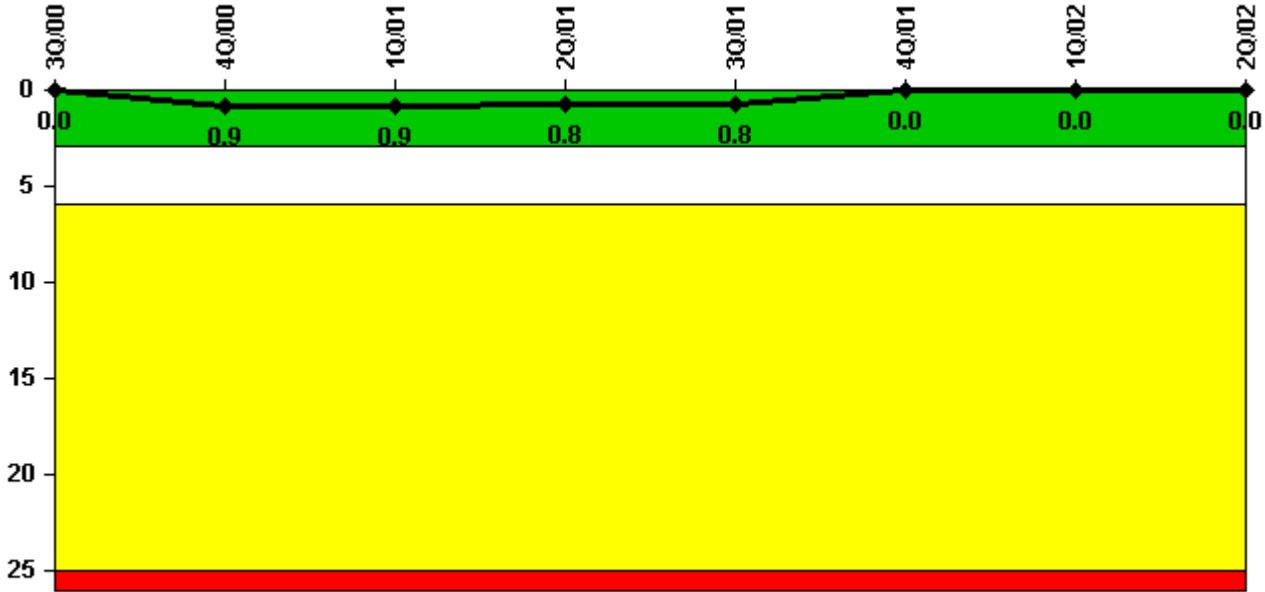


# Surry 1

## 2Q/2002 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



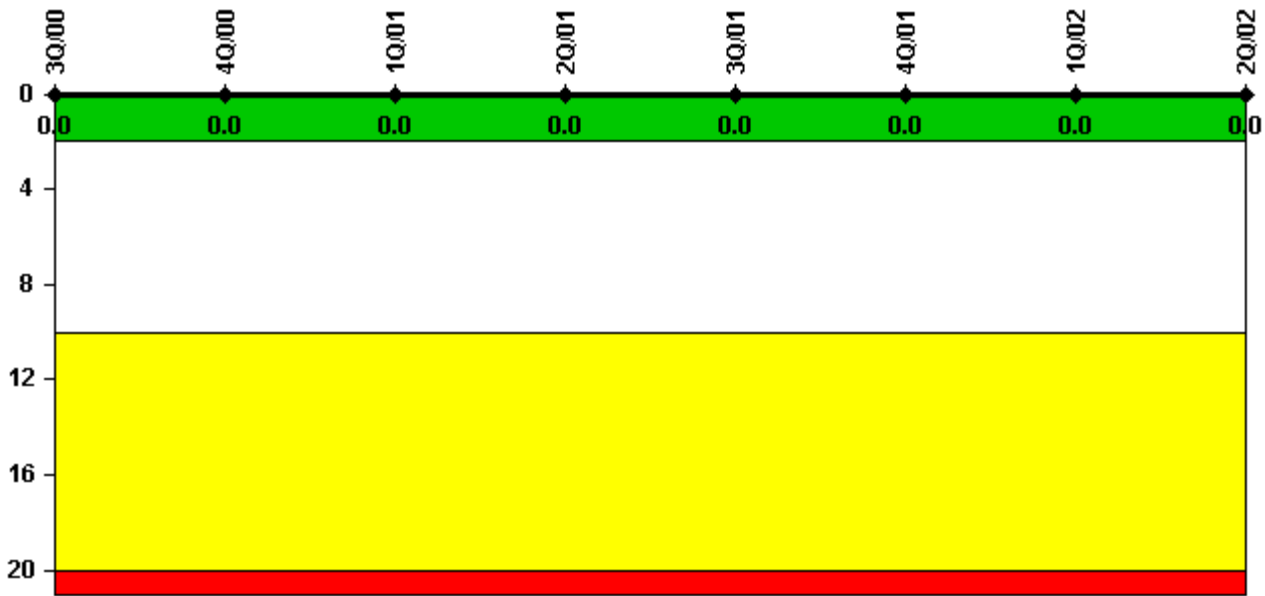
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2208.0	2189.6	2160.0	2145.9	2208.0	943.6	2160.0	2183.0
Indicator value	0	0.9	0.9	0.8	0.8	0	0	0

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



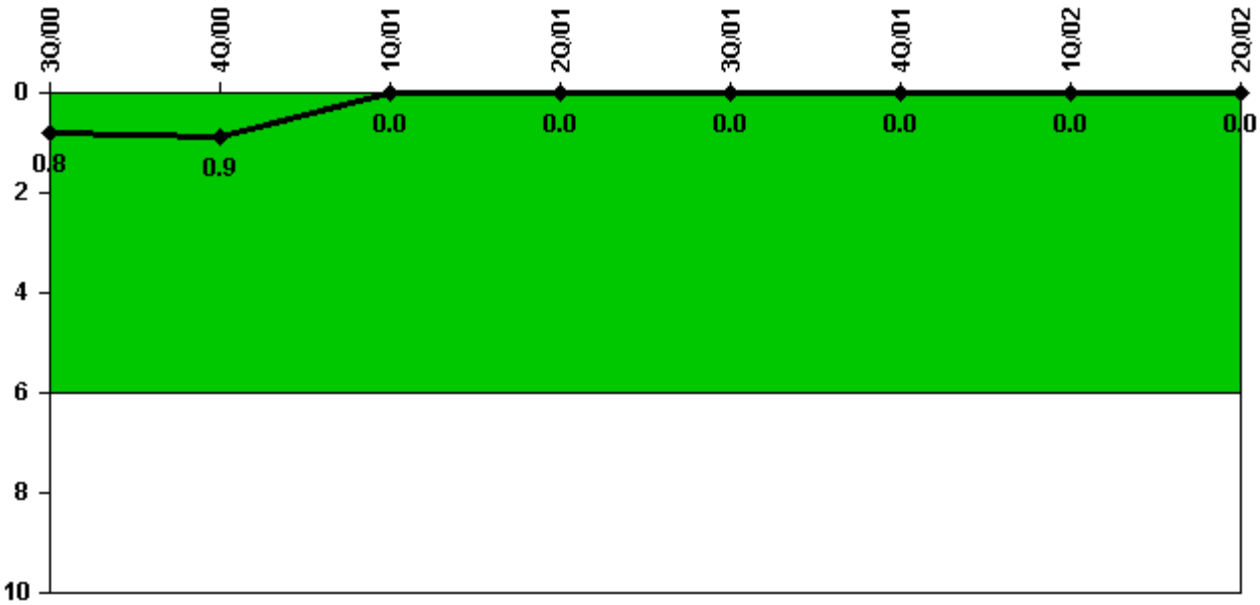
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

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



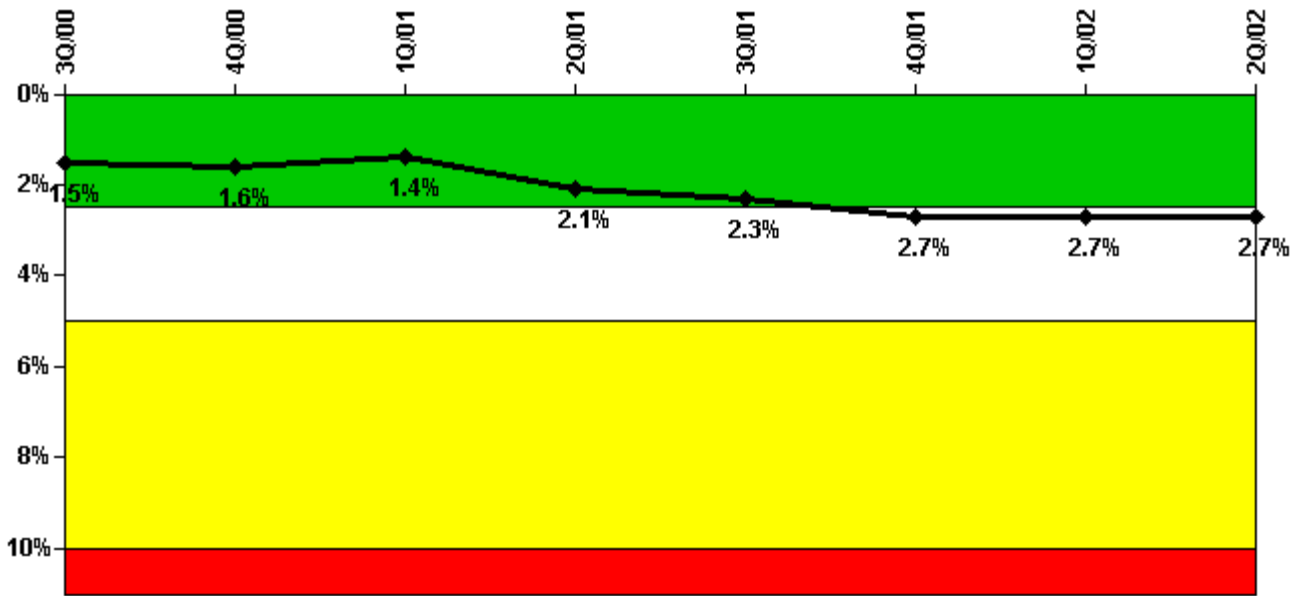
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2189.6	2160.0	2145.9	2208.0	943.6	2160.0	2183.0
Indicator value	0.8	0.9	0	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

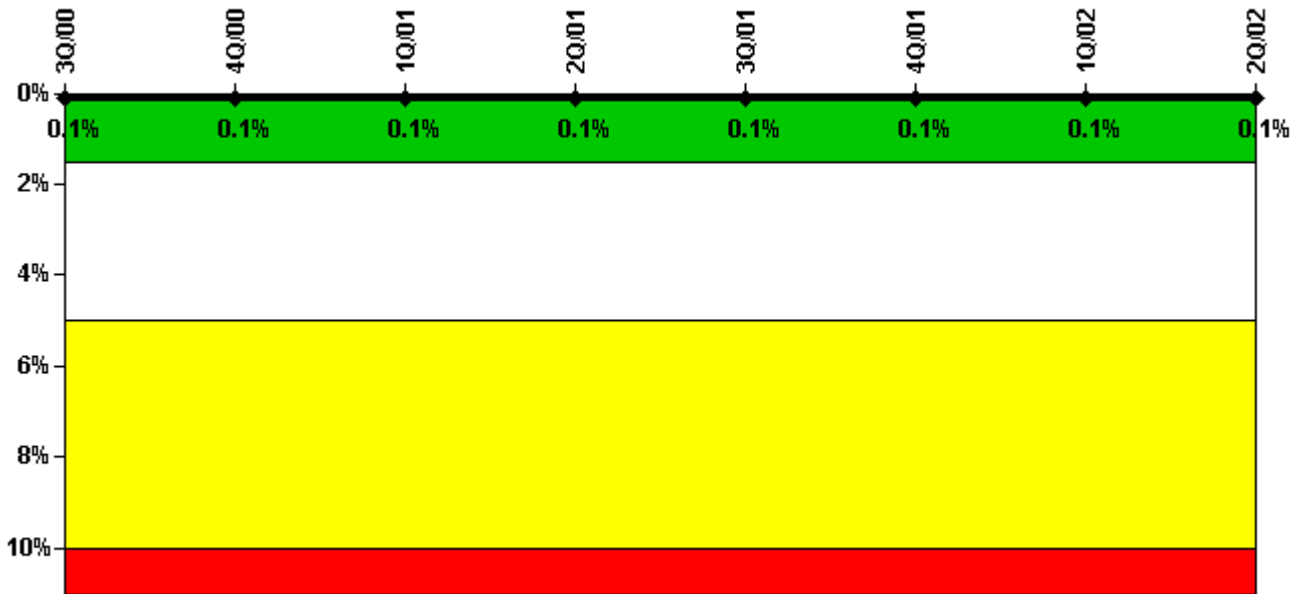
Safety System Unavailability, Emergency AC Power	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
<b>Train 1</b>								
Planned unavailable hours	17.39	11.50	14.05	13.67	101.25	5.23	35.93	11.35
Unplanned unavailable hours	83.68	0	0	0	21.38	0.15	3.45	5.15
Fault exposure hours	0	0	0	0	0	237.77	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	994.68	2160.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	33.78	19.74	26.29	23.94	30.86	11.10	21.07	47.55
Unplanned unavailable hours	0	10.30	0	131.35	3.53	8.03	7.37	0
Fault exposure hours	0	0	0	192.03	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	994.68	2160.00	2183.00
Indicator value	1.5%	1.6%	1.4%	2.1%	2.3%	2.7%	2.7%	2.7%

#### Licensee Comments:

2Q/02: Response to an FAQ resulted in not allowing contingency actions to be used in monthly performed procedures. Therefore, hours were reinstated for these actions from May 2001 through June 2002. The additional hours resulted in this indicator changing to white in color.

2Q/02: During an audit, a minor discrepancy was found in data submitted for March 2002. Data was corrected with no change in color.

### Safety System Unavailability, High Pressure Injection System (HPSI)



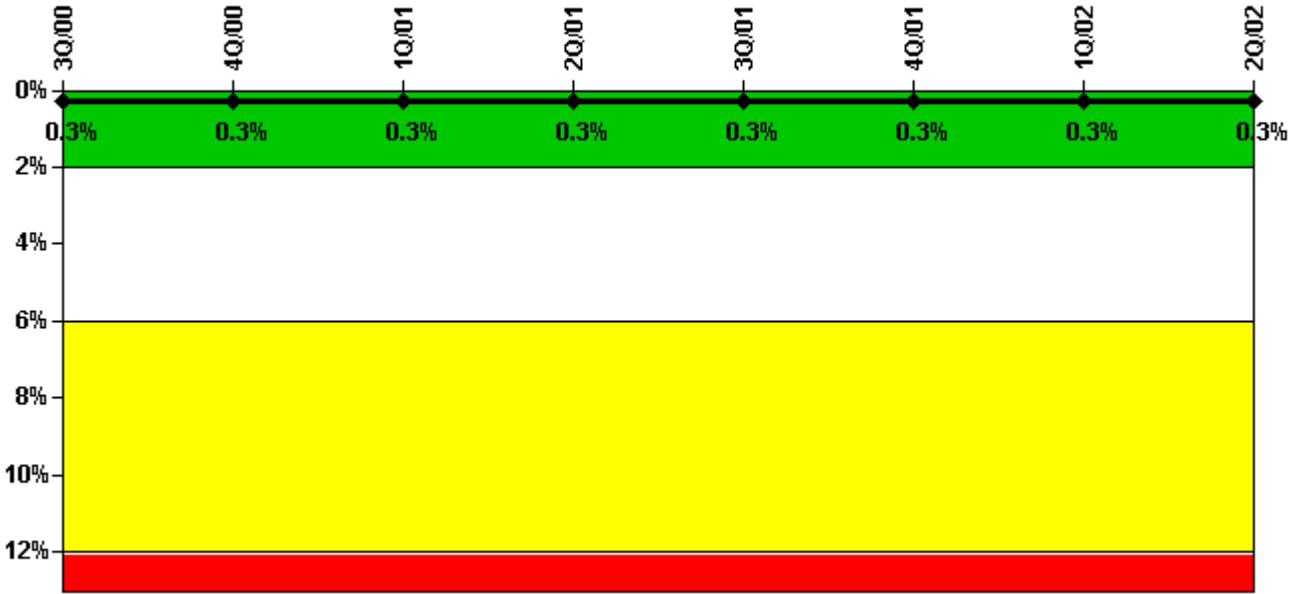
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
<b>Train 1</b>								
Planned unavailable hours	0	0	3.60	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	2160.00	2183.00	2208.00	994.70	2160.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	0	1.00	0.70	0.50	2.50	0.70	1.10	4.20
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	2160.00	2183.00	2208.00	994.70	2160.00	2183.00
<b>Indicator value</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (AFW)



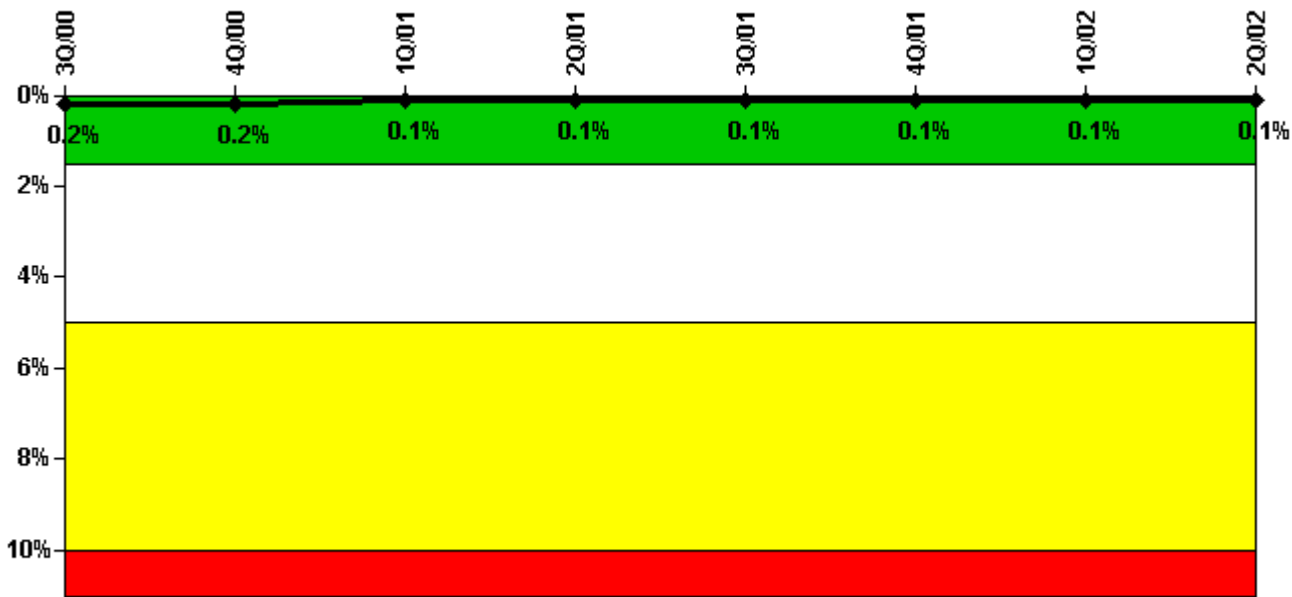
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

#### Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
<b>Train 1</b>								
Planned unavailable hours	3.19	15.57	12.40	1.80	12.20	0.20	10.80	0.90
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	2160.00	2183.00	2208.00	994.70	2160.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	0.92	2.23	0	1.90	1.60	1.00	0.90	8.30
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	2160.00	2183.00	2208.00	994.70	2160.00	2183.00
<b>Train 3</b>								
Planned unavailable hours	2.48	18.20	11.30	3.50	1.40	0	1.40	16.10
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	2160.00	2183.00	2208.00	994.70	2160.00	2183.00
<b>Indicator value</b>	0.3%	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%

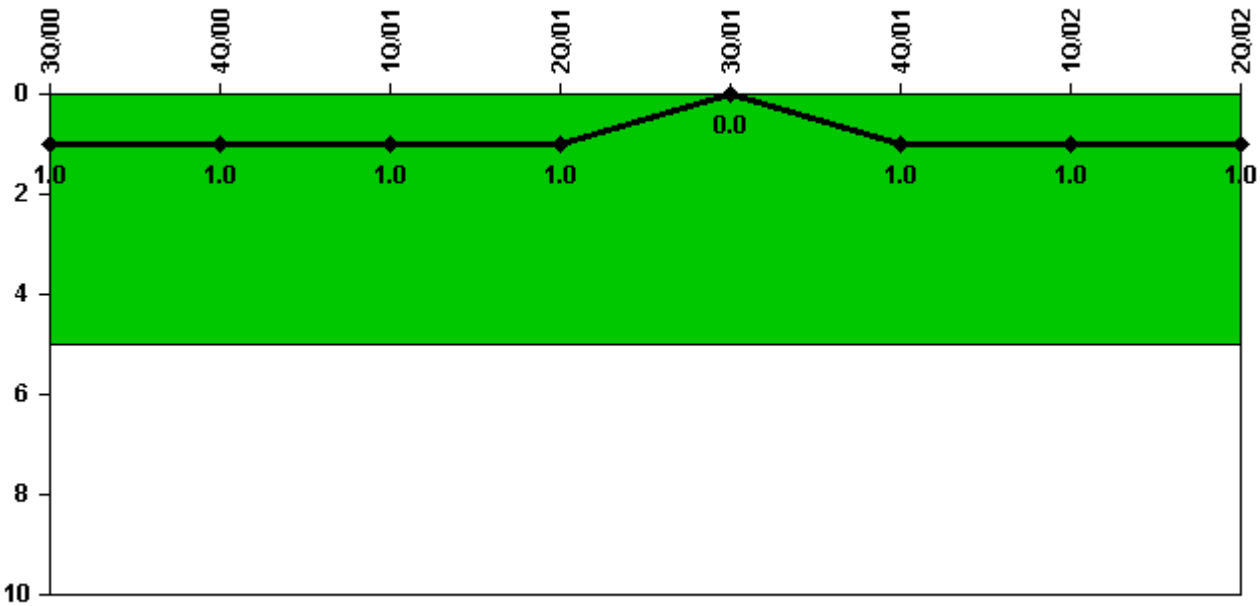
### Notes

Safety System Unavailability, Residual Heat Removal System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
<b>Train 1</b>								
Planned unavailable hours	0.58	0	1.10	0.20	11.50	0.20	4.90	1.44
Unplanned unavailable hours	0	0	2.10	0	0	0	0.40	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	2160.00	2183.00	2208.00	1771.80	2160.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	13.15	0	0.10	0.10	0.50	0.20	0.60	1.12
Unplanned unavailable hours	0	0	2.10	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	1015.00	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	1771.80	2160.00	2183.00
<b>Train 3</b>								
Planned unavailable hours	0	0	0	0	0	9.40	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	2160.00	2183.00	2208.00	1963.30	2160.00	2183.00
<b>Train 4</b>								
Planned unavailable hours	0	0	0	0	0	9.40	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	2160.00	2183.00	2208.00	1963.30	2160.00	2183.00
Indicator value	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

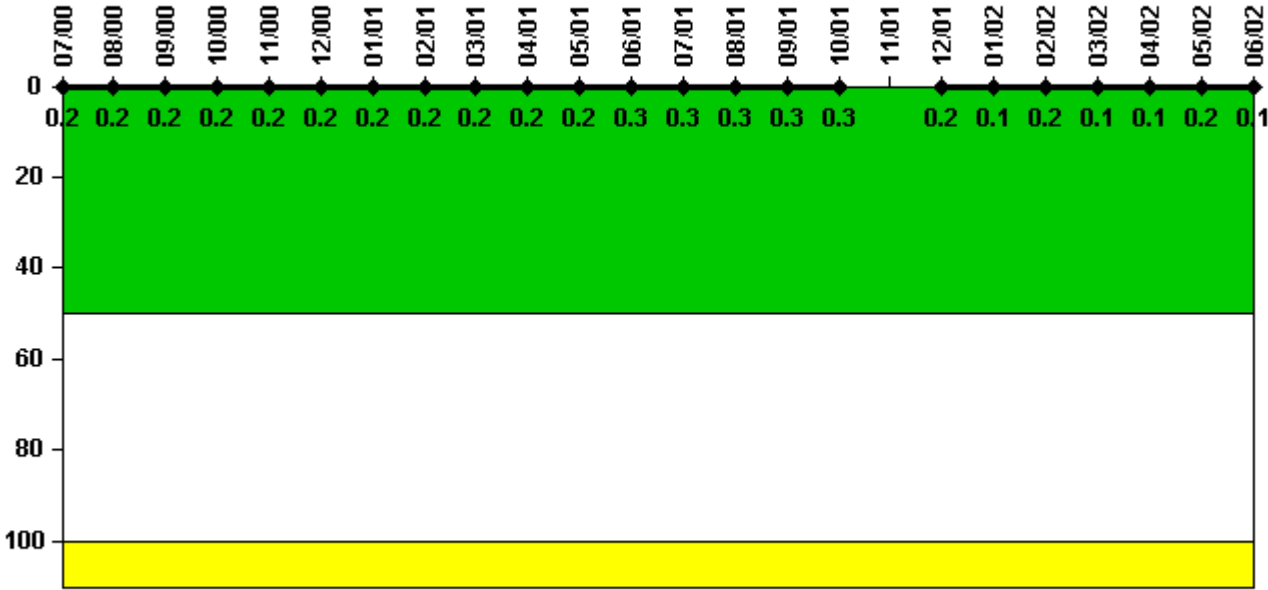
### Notes

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

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

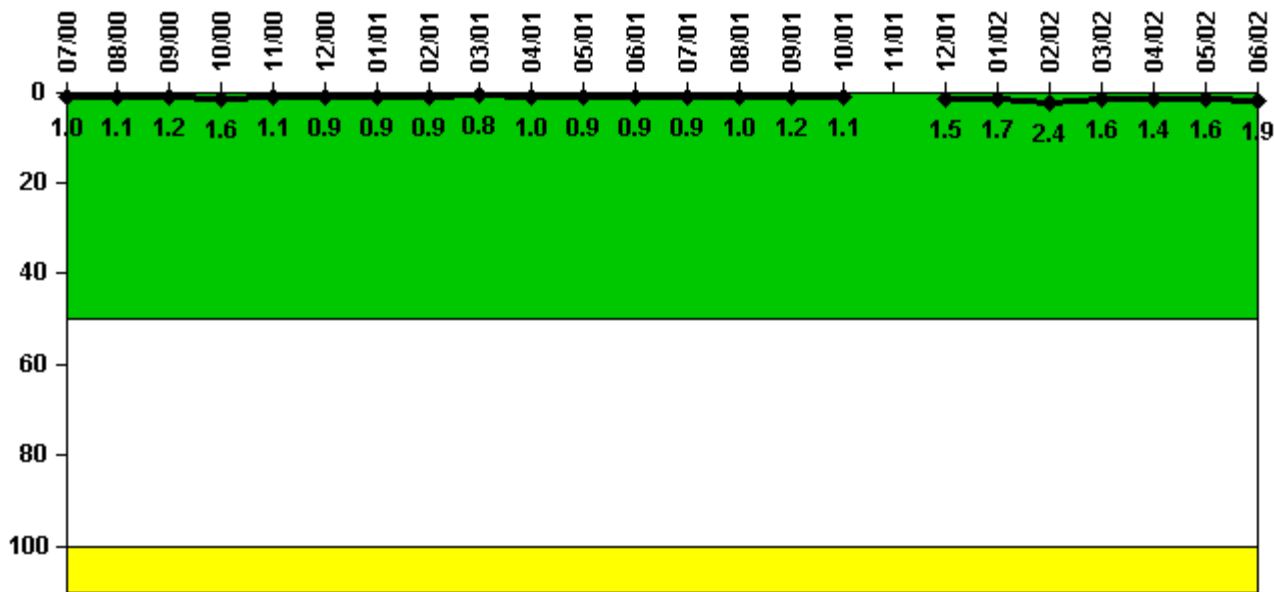
Reactor Coolant System Activity	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.001550	0.001770	0.002050	0.002060	0.002060	0.002000	0.002240	0.002240	0.002270	0.002450	0.002450	0.002500
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3

Reactor Coolant System Activity	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum activity	0.002630	0.002840	0.003020	0.002670	N/A	0.001550	0.001060	0.001650	0.001200	0.001200	0.001500	0.001410
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	0.3	0.3	0.3	0.3	N/A	0.2	0.1	0.2	0.1	0.1	0.2	0.1

Licensee Comments: none

### Reactor Coolant System Leakage



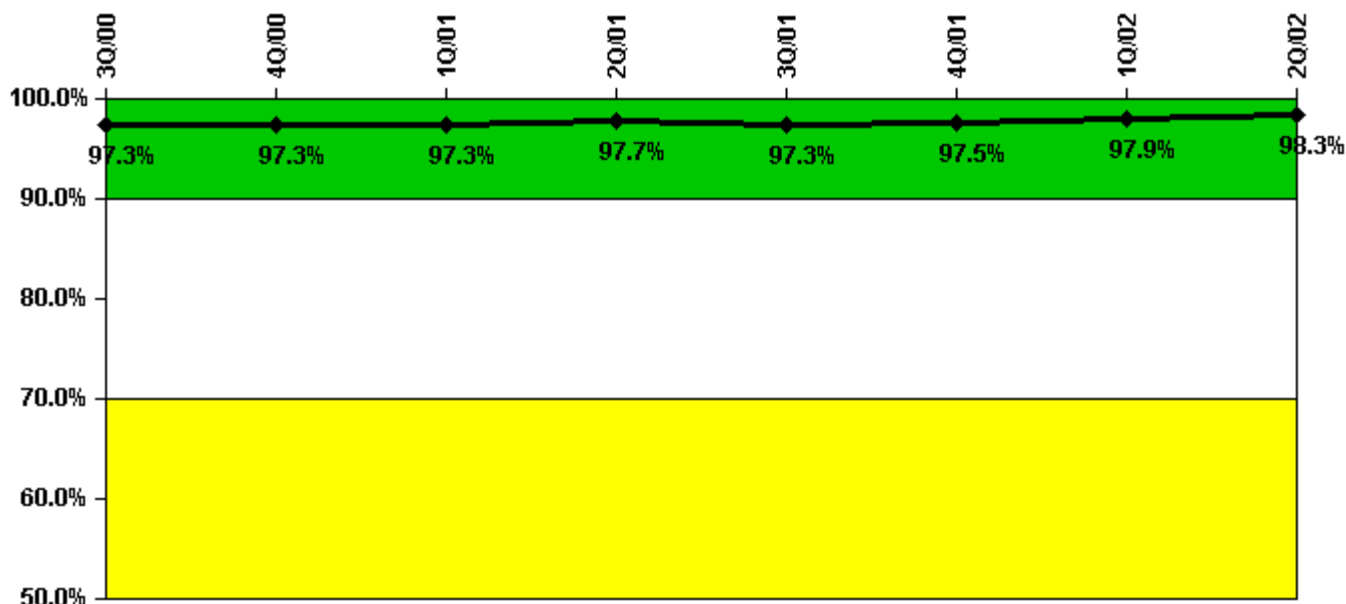
Thresholds: White > 50.0 Yellow > 100.0

**Notes**

Reactor Coolant System Leakage	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	0.100	0.110	0.120	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	10.0	10.0	10.0
Indicator value	1.0	1.1	1.2	1.6	1.1	0.9	0.9	0.9	0.8	1.0	0.9	0.9
Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	0.090	0.100	0.120	0.110	N/A	0.150	0.170	0.240	0.160	0.140	0.160	0.190
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	1.0	1.2	1.1	N/A	1.5	1.7	2.4	1.6	1.4	1.6	1.9

Licensee Comments: none

### Drill/Exercise Performance



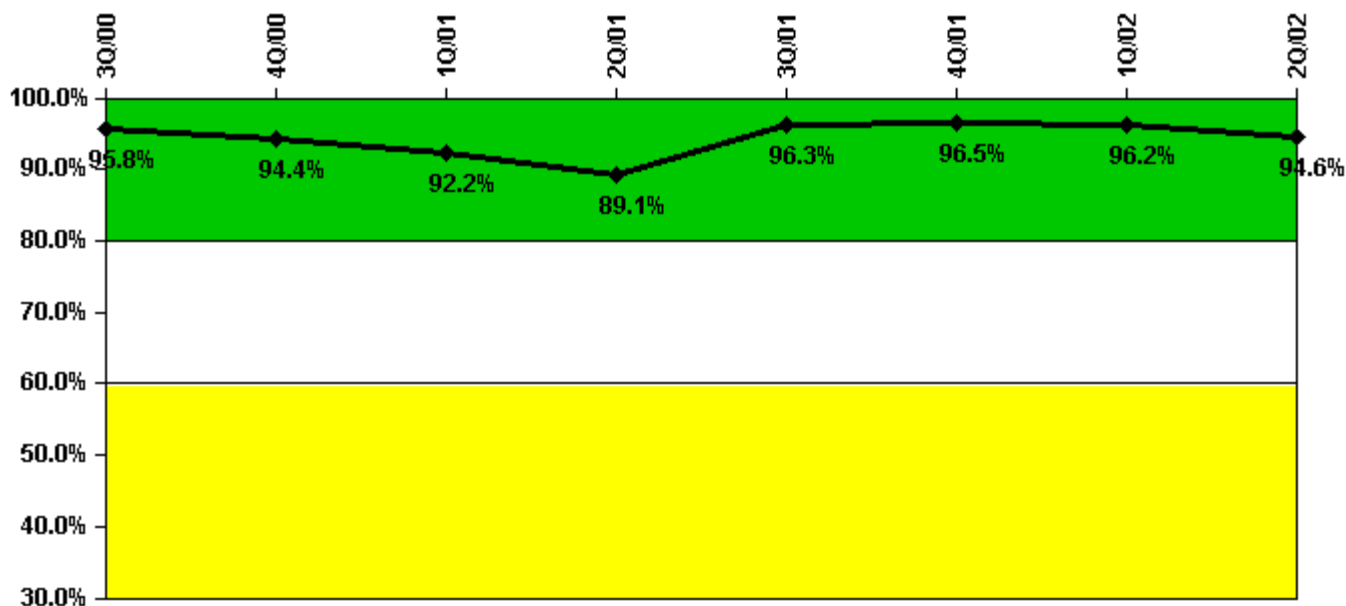
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful opportunities	72.0	0	0	49.0	39.0	27.0	40.0	55.0
Total opportunities	72.0	0	0	51.0	41.0	28.0	40.0	55.0
Indicator value	97.3%	97.3%	97.3%	97.7%	97.3%	97.5%	97.9%	98.3%

Licensee Comments: none

### ERO Drill Participation



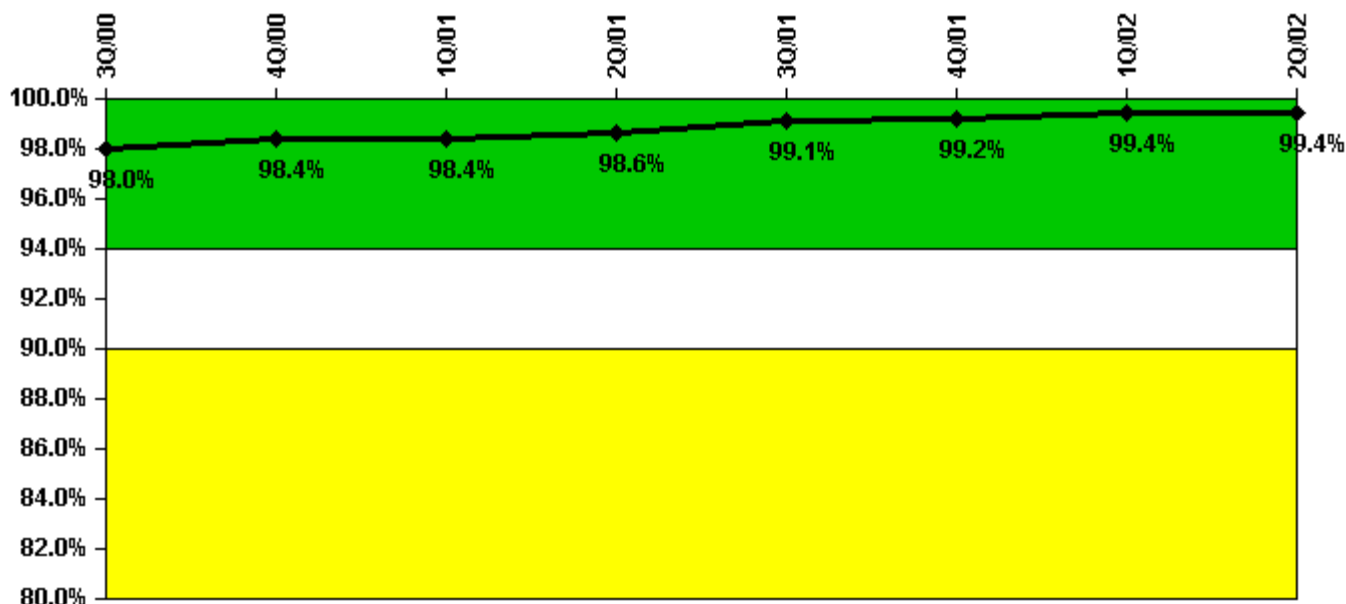
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Participating Key personnel	161.0	136.0	119.0	123.0	129.0	137.0	126.0	141.0
Total Key personnel	168.0	144.0	129.0	138.0	134.0	142.0	131.0	149.0
Indicator value	95.8%	94.4%	92.2%	89.1%	96.3%	96.5%	96.2%	94.6%

Licensee Comments: none

### Alert & Notification System



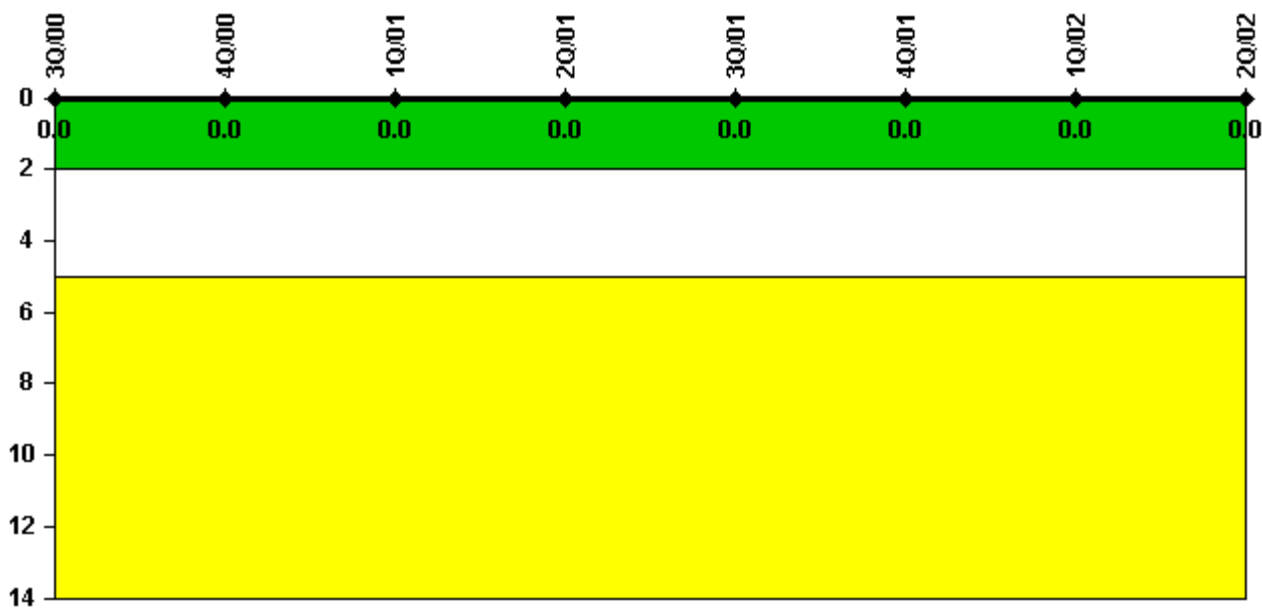
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful siren-tests	437	444	442	507	447	508	518	515
Total sirens-tests	448	448	448	512	448	512	520	520
Indicator value	98.0%	98.4%	98.4%	98.6%	99.1%	99.2%	99.4%	99.4%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



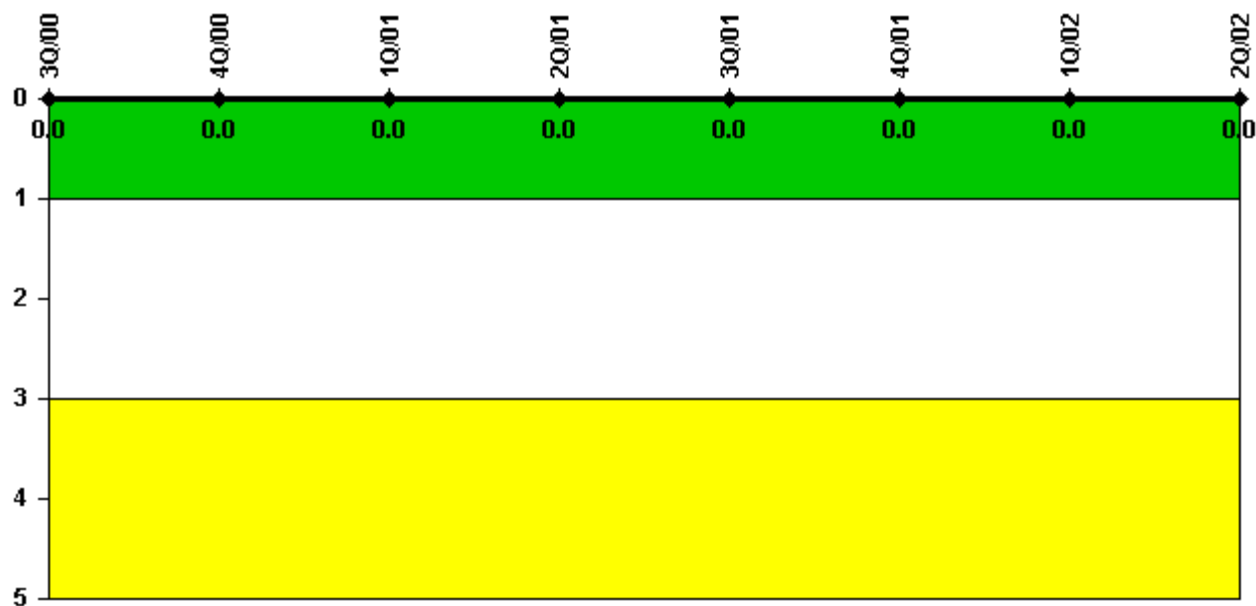
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

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



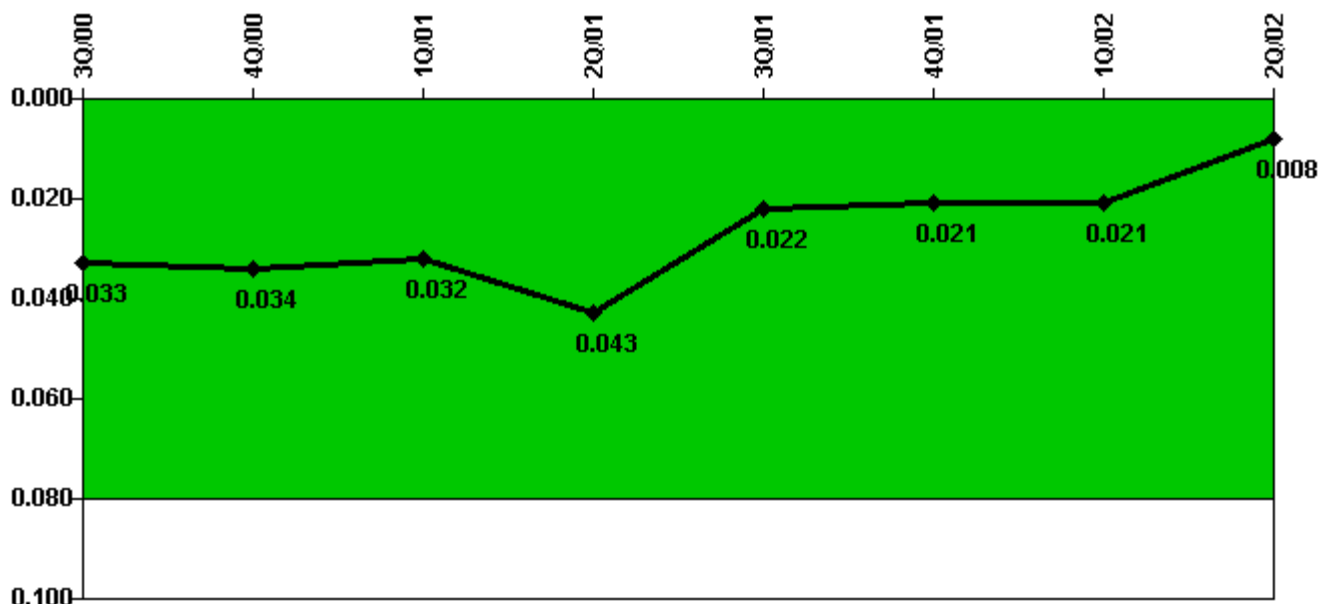
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/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**

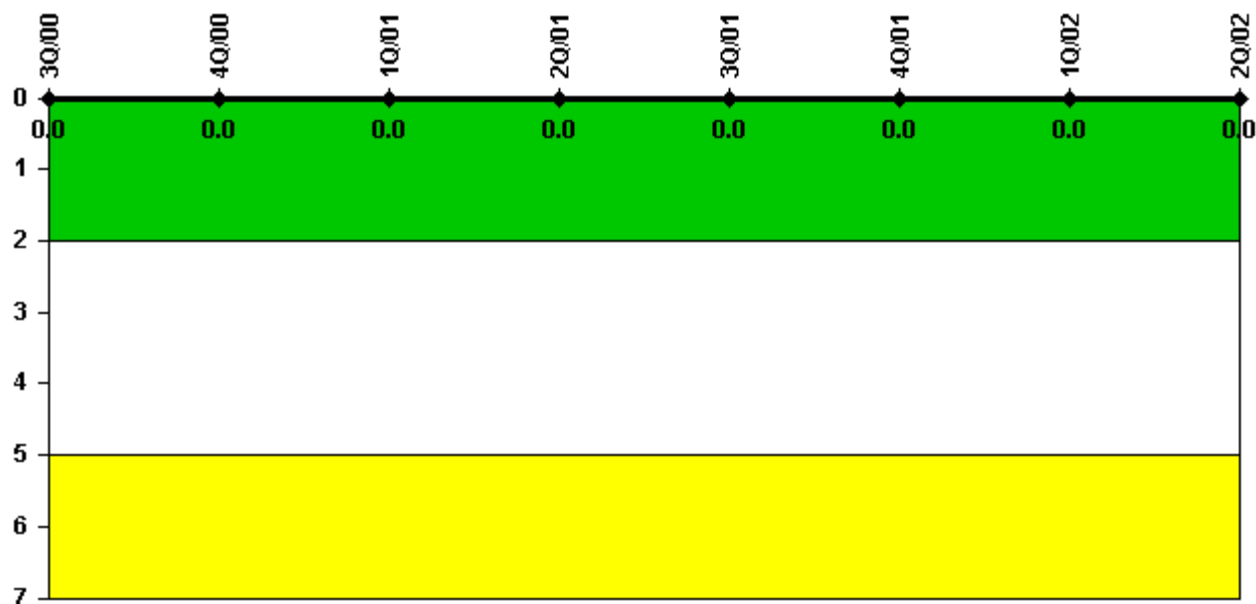
Protected Area Security Performance Index	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
IDS compensatory hours	515.21	16.10	0	256.52	125.73	0	0	13.26
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.033	0.034	0.032	0.043	0.022	0.021	0.021	0.008

Licensee Comments:

2Q/02: 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



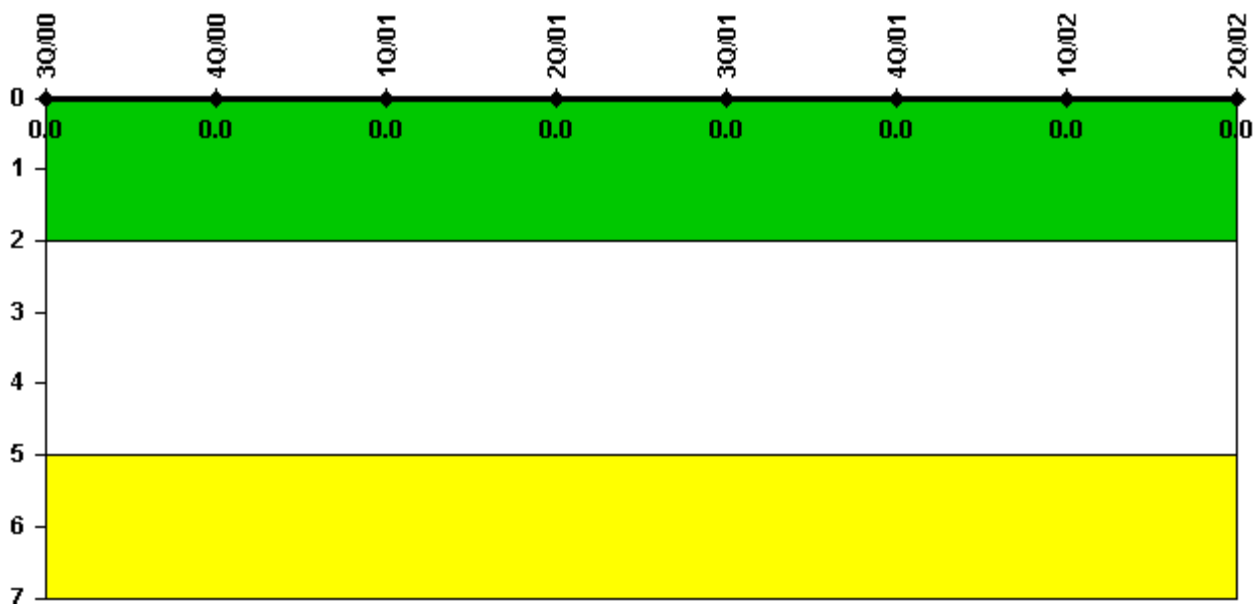
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/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	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/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: September 18, 2002