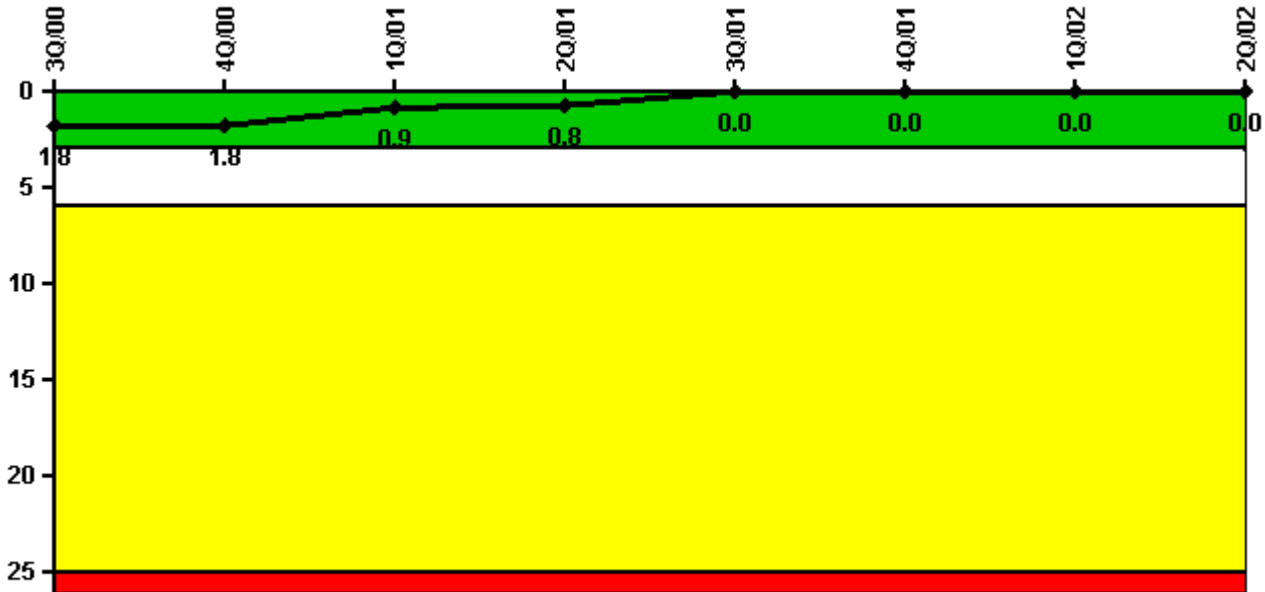


# Calvert Cliffs 1

## 2Q/2002 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



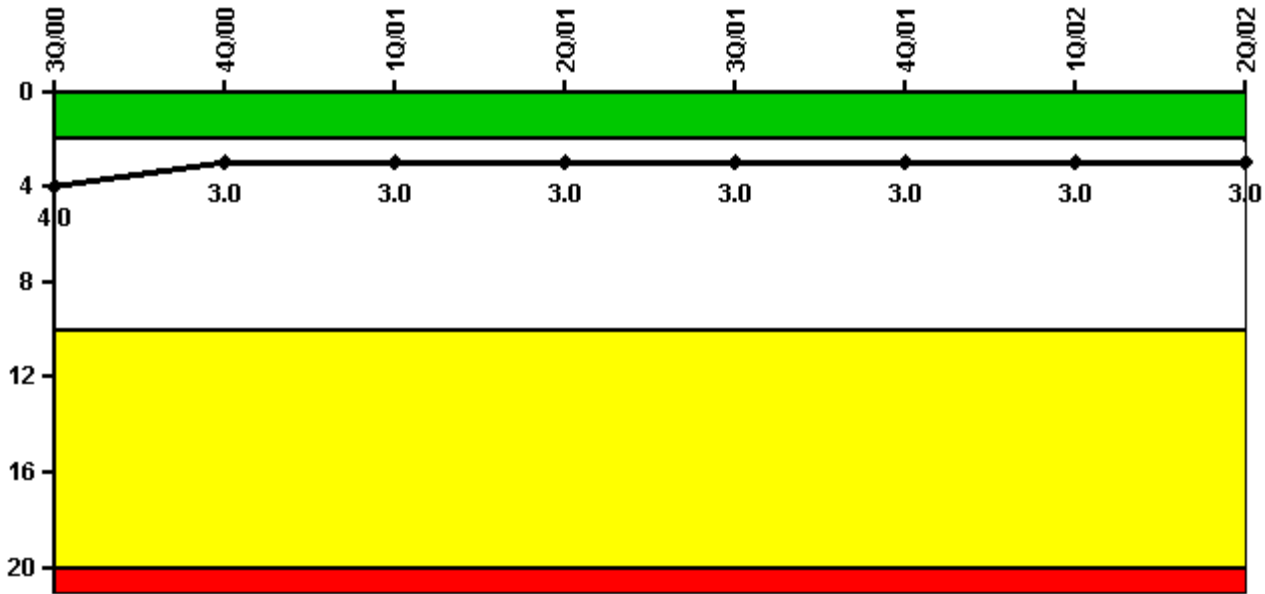
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	1.0	0	0	0	0	0	0	0
Critical hours	2181.5	2209.0	2160.0	2157.2	2208.0	2209.0	1104.0	309.8
Indicator value	1.8	1.8	0.9	0.8	0	0	0	0

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



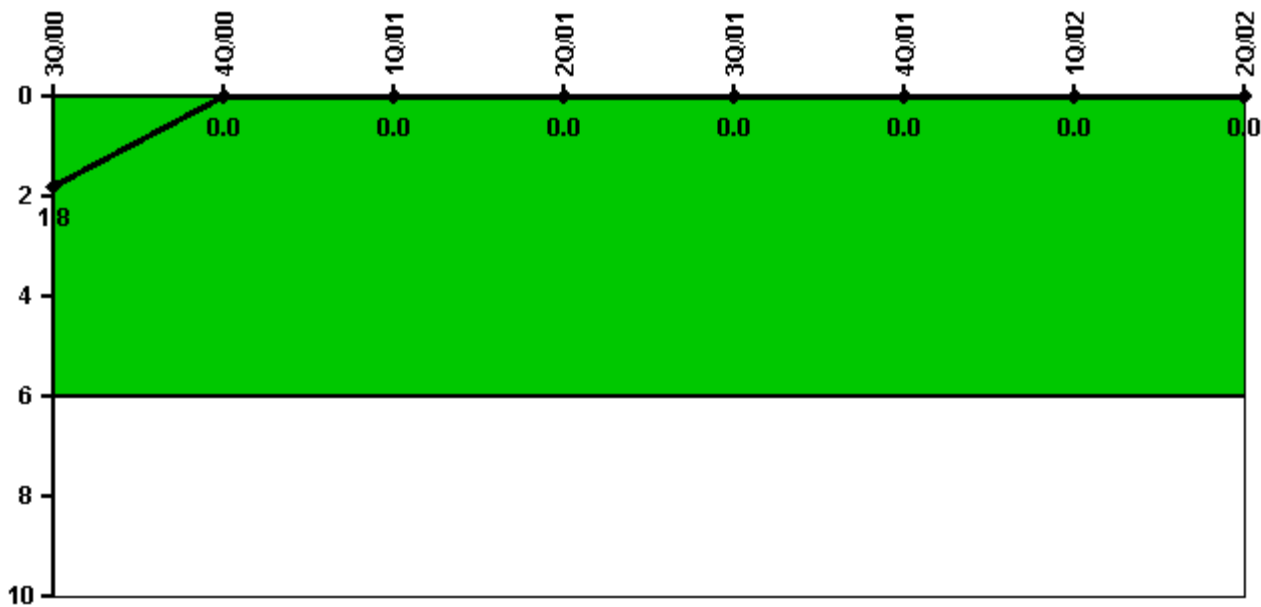
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### 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	1.0	0	0	0	0	0	0	0
Indicator value	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



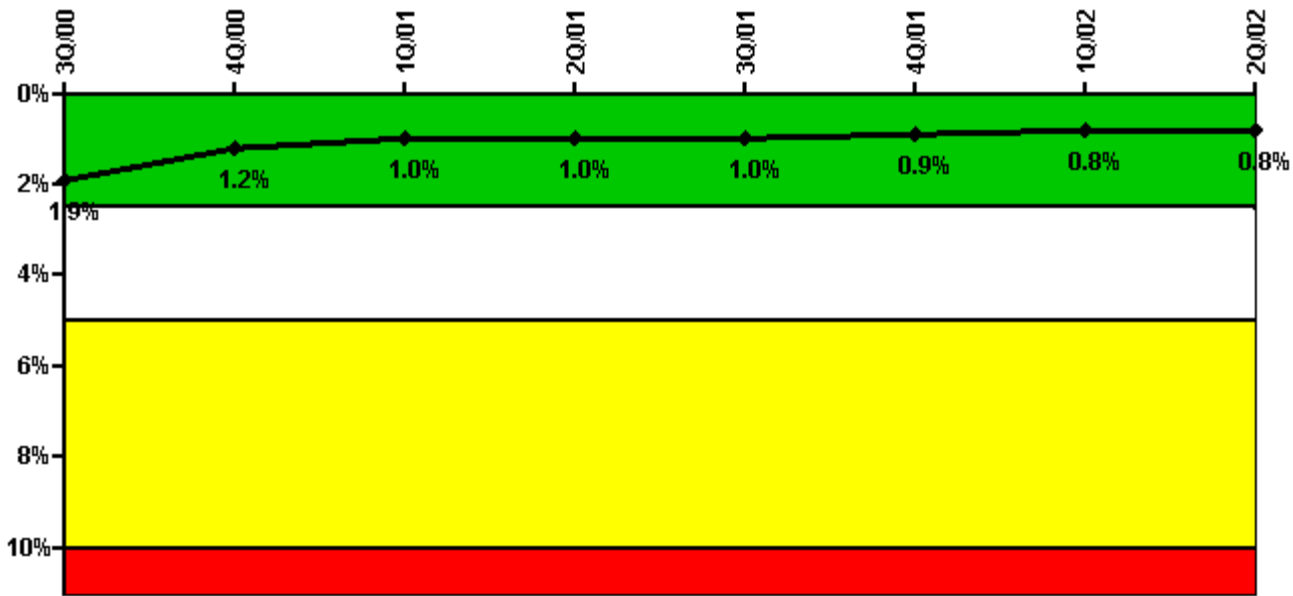
Thresholds: White > 6.0

#### 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	2181.5	2209.0	2160.0	2157.2	2208.0	2209.0	1104.0	309.8
Indicator value	1.8	0	0	0	0	0	0	0

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power



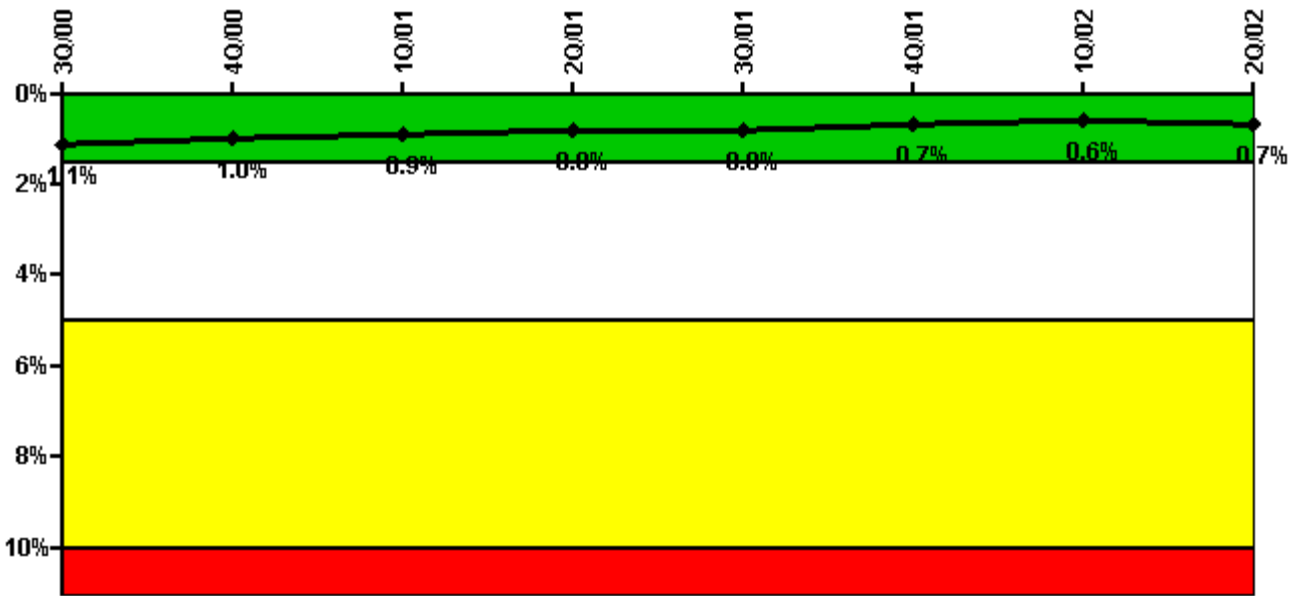
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

#### 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	29.53	3.73	42.22	8.35	3.50	2.17	1.42	0
Unplanned unavailable hours	1.10	0	10.72	29.80	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	2209.00	2160.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	8.92	0	33.50	0	2.58	0.25	0.83	0
Unplanned unavailable hours	3.82	6.33	1.57	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	2209.00	2160.00	2183.00
<b>Indicator value</b>	1.9%	1.2%	1.0%	1.0%	1.0%	0.9%	0.8%	0.8%

Licensee Comments: none

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



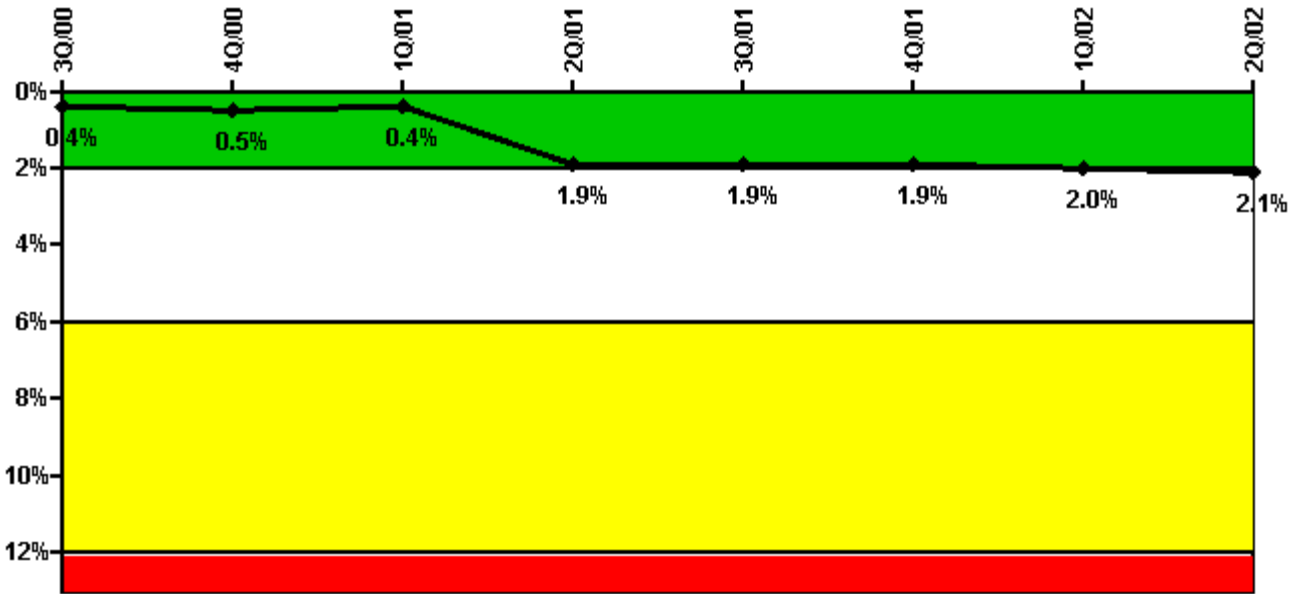
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
<b>Train 1</b>								
Planned unavailable hours	0.38	18.82	14.95	6.27	43.75	1.00	0.25	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	2181.50	2209.00	2160.00	2157.20	2208.00	2209.00	1104.00	309.80
<b>Train 2</b>								
Planned unavailable hours	8.58	9.46	27.21	0.35	0.90	23.18	22.32	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	2181.50	2209.00	2160.00	2157.20	2208.00	2209.00	1104.00	309.80
Indicator value	1.1%	1.0%	0.9%	0.8%	0.8%	0.7%	0.6%	0.7%

Licensee Comments: none

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



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

#### Notes

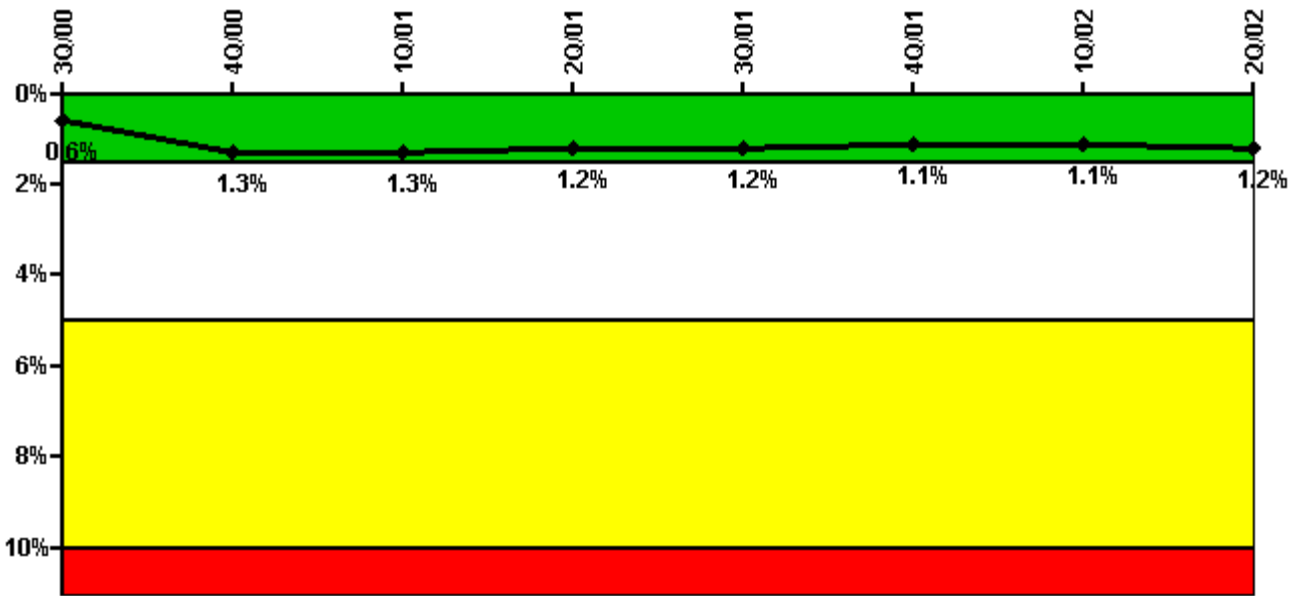
Safety System Unavailability, Heat Removal System (AFW)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
<b>Train 1</b>								
Planned unavailable hours	2.50	2.50	1.00	8.17	4.25	0.35	0	0
Unplanned unavailable hours	0	0	0	56.83	0	0	0	0
Fault exposure hours	0	0	81.30	1092.48	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2181.50	2209.00	2160.00	2157.20	2208.00	2209.00	1104.00	309.80
<b>Train 2</b>								
Planned unavailable hours	2.50	2.50	1.00	8.62	3.37	0.27	0	0
Unplanned unavailable hours	0	0	0	10.18	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	2181.50	2209.00	2160.00	2157.20	2208.00	2209.00	1104.00	309.80
<b>Train 3</b>								
Planned unavailable hours	3.16	16.00	0	1.92	0	0	0	0
Unplanned unavailable hours	0	0	10.50	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	2181.50	2209.00	2160.00	2157.20	2208.00	2209.00	1104.00	309.80
<b>Indicator value</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.4%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>2.0%</b>	<b>2.1%</b>

Licensee Comments:

2Q/02: The performance indicator color became white during this quarter despite having zero unavailable hours.

This reflects the impact of having an extended refueling outage to replace steam generators, which decreased the total number of required hours used in the denominator to calculate the indicator value. This performance indicator will go back to green for the third quarter 2002 report when fault exposure hours are reset as permitted by a recently approved FAQ.

### Safety System Unavailability, Residual Heat Removal System



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

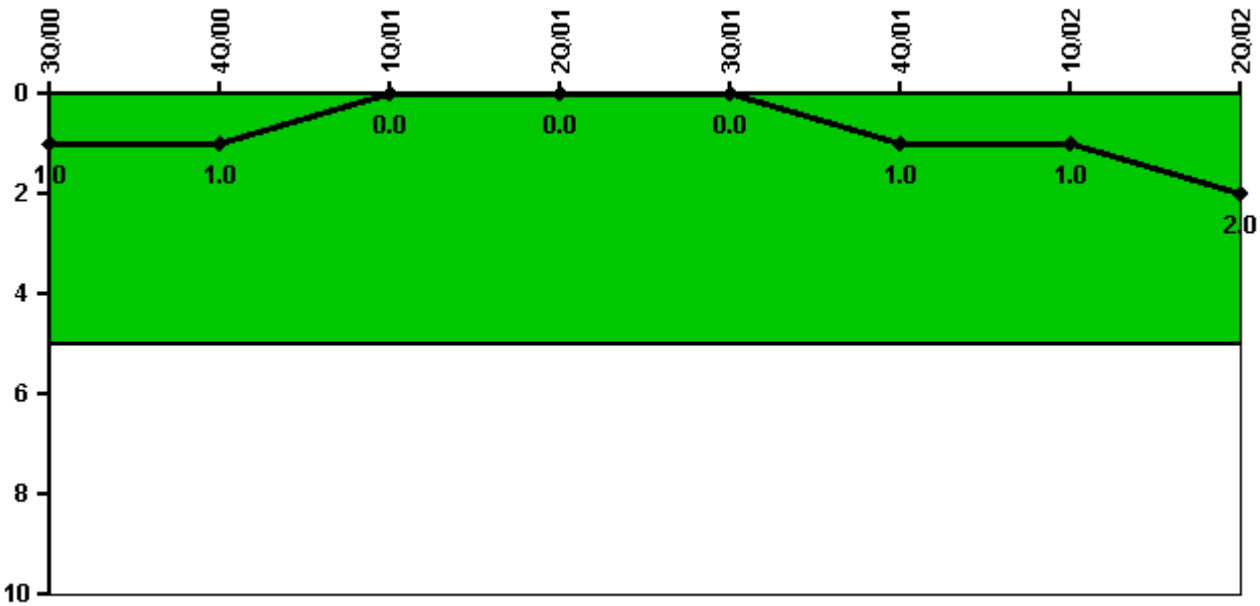
#### Notes

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	0	0	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	0	0	0	0	0	0	401.10	805.20
<b>Train 2</b>								
Planned unavailable hours	0	0	0	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	0	0	0	0	0	0	401.10	805.20
<b>Train 3</b>								
Planned unavailable hours	1.89	23.94	27.96	13.28	21.16	14.29	1.96	0

Unplanned unavailable hours	1.10	0	0	0	2.00	2.83	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	2209.00	1120.20	359.70
<b>Train 4</b>								
Planned unavailable hours	9.52	23.47	31.01	1.48	5.68	22.80	24.41	0
Unplanned unavailable hours	0	22.90	0	0	0	0	0	0
Fault exposure hours	0	673.40	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	2209.00	1120.20	359.70
Indicator value	0.6%	1.3%	1.3%	1.2%	1.2%	1.1%	1.1%	1.2%

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

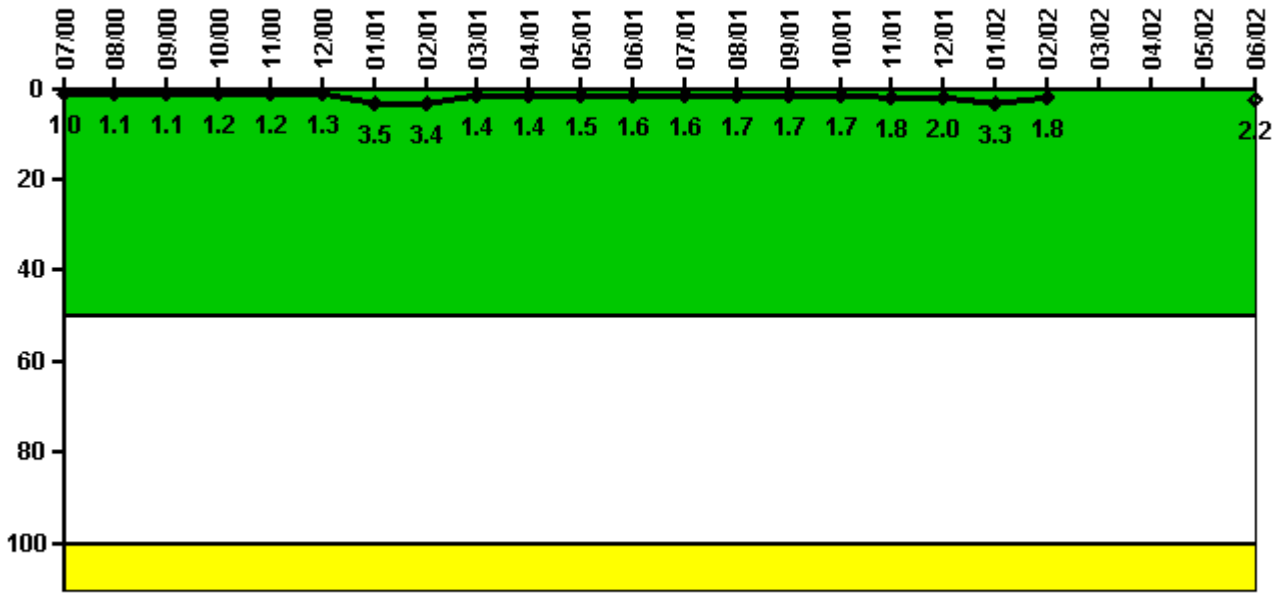
### Notes

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	0	0	0	0	0	1	0	1
Indicator value	1	1	0	0	0	1	1	2



Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

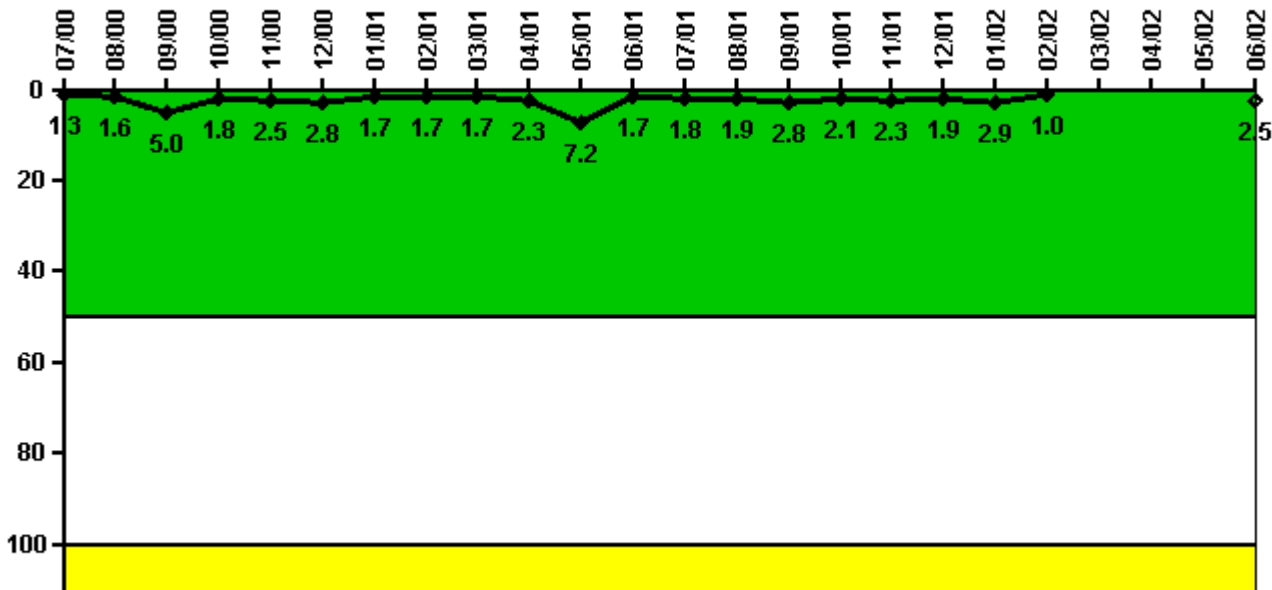
### Notes

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	0.010100	0.010700	0.011000	0.012200	0.011900	0.012600	0.035400	0.033600	0.014400	0.014400	0.015200	0.016100
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	1.0	1.1	1.1	1.2	1.2	1.3	3.5	3.4	1.4	1.4	1.5	1.6
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	0.016400	0.016700	0.016900	0.017200	0.018100	0.020200	0.033200	0.018200	N/A	N/A	N/A	0.021800
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	N/A	N/A	N/A	1.0
Indicator value	1.6	1.7	1.7	1.7	1.8	2.0	3.3	1.8	N/A	N/A	N/A	2.2

Licensee Comments:

6/02: Unit 1 was shutdown for a scheduled refueling outage during April and May 2002.

### 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	0.127	0.163	0.500	0.176	0.251	0.277	0.170	0.165	0.170	0.230	0.720	0.170
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	1.3	1.6	5.0	1.8	2.5	2.8	1.7	1.7	1.7	2.3	7.2	1.7

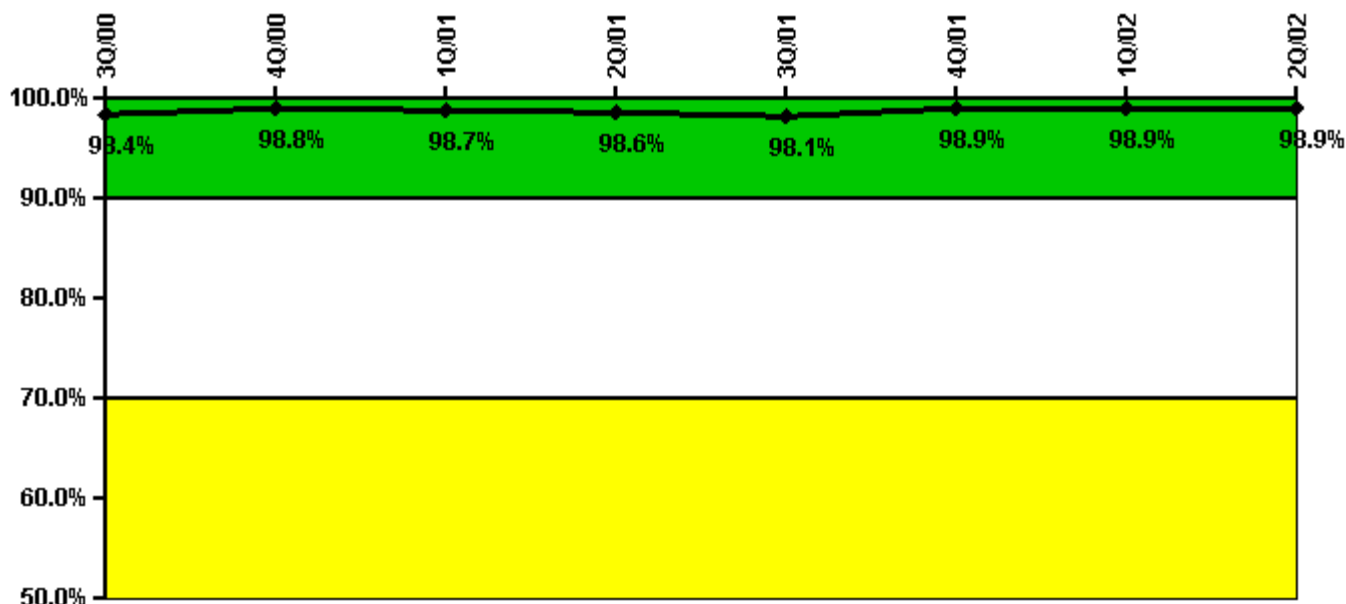
  

Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	0.180	0.185	0.281	0.210	0.230	0.190	0.286	0.103	N/A	N/A	N/A	0.250
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	N/A	N/A	N/A	10.0
Indicator value	1.8	1.9	2.8	2.1	2.3	1.9	2.9	1.0	N/A	N/A	N/A	2.5

Licensee Comments:

6/02: Unit 1 was shutdown for a scheduled refueling outage during April and May 2002.

### Drill/Exercise Performance



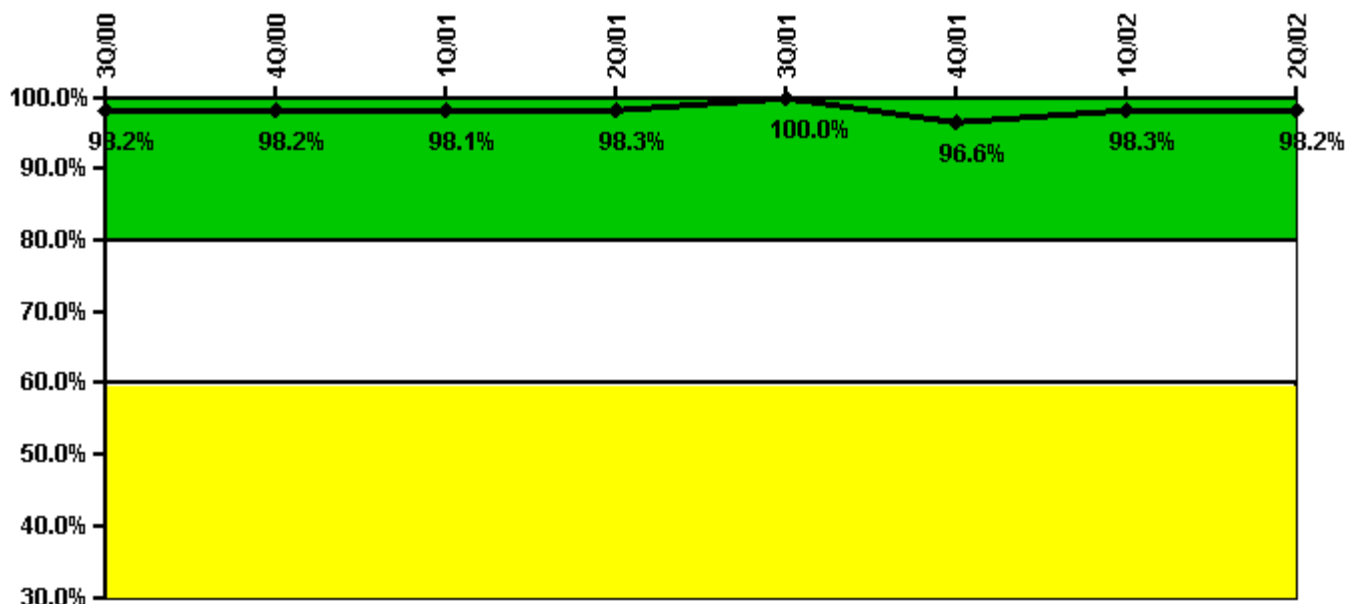
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful opportunities	32.0	33.0	11.0	22.0	27.0	25.0	14.0	8.0
Total opportunities	33.0	33.0	11.0	22.0	28.0	25.0	14.0	8.0
Indicator value	98.4%	98.8%	98.7%	98.6%	98.1%	98.9%	98.9%	98.9%

Licensee Comments: none

### ERO Drill Participation



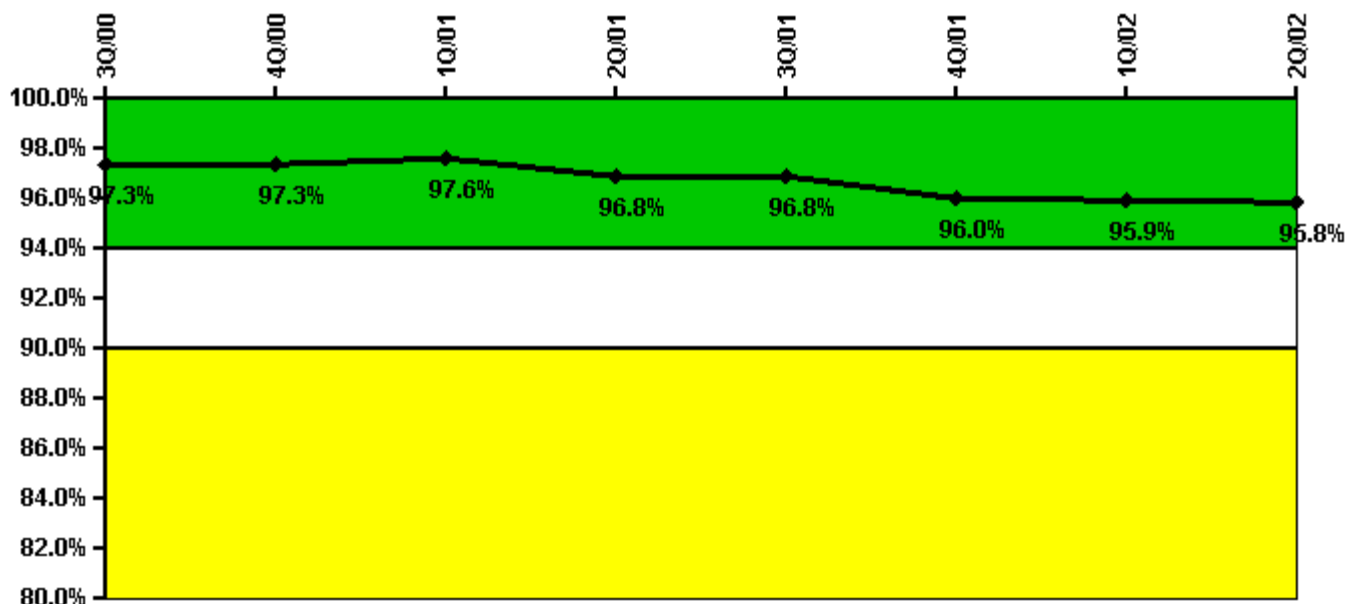
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Participating Key personnel	55.0	54.0	53.0	59.0	57.0	57.0	58.0	54.0
Total Key personnel	56.0	55.0	54.0	60.0	57.0	59.0	59.0	55.0
Indicator value	98.2%	98.2%	98.1%	98.3%	100.0%	96.6%	98.3%	98.2%

Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

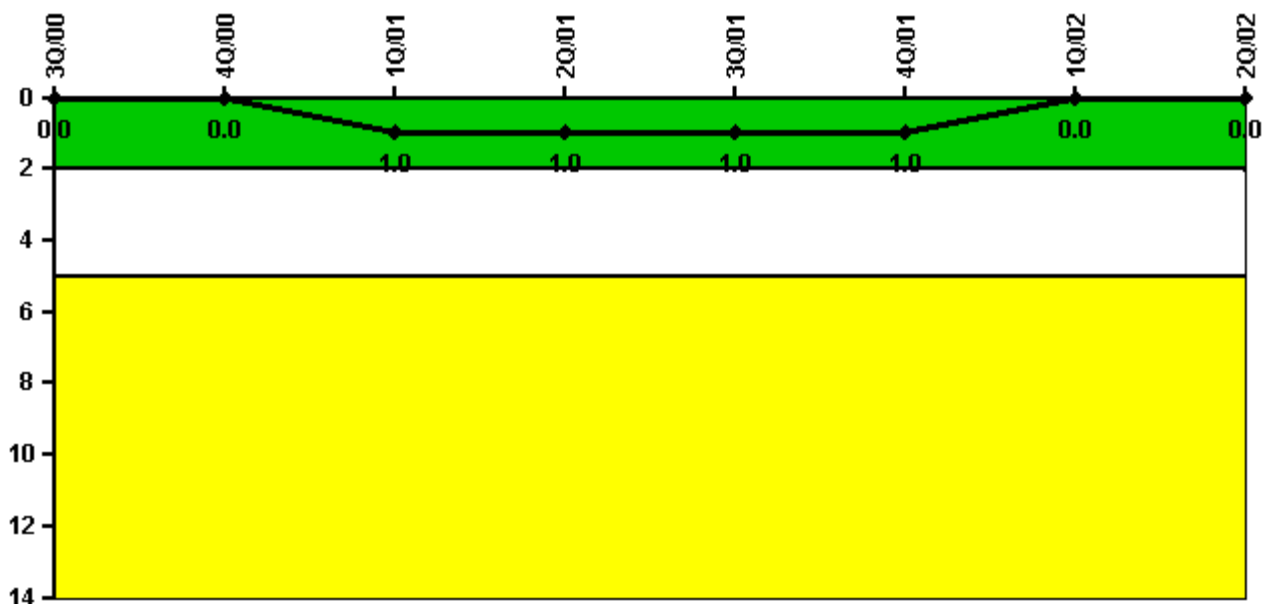
#### Notes

Alert & Notification System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful siren-tests	906	1039	990	944	969	1078	918	956
Total sirens-tests	936	1068	1002	1002	1002	1140	930	1019
Indicator value	97.3%	97.3%	97.6%	96.8%	96.8%	96.0%	95.9%	95.8%

Licensee Comments:

2Q/02: Calvert Cliffs Nuclear Power Plant is planning to submit a FAQ to resolve an issue concerning how to report multiple siren signal transmissions and receipts during silent testing.

### 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	1	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	1	1	1	1	0	0

Licensee Comments: none

### RETS/ODCM Radiological Effluent



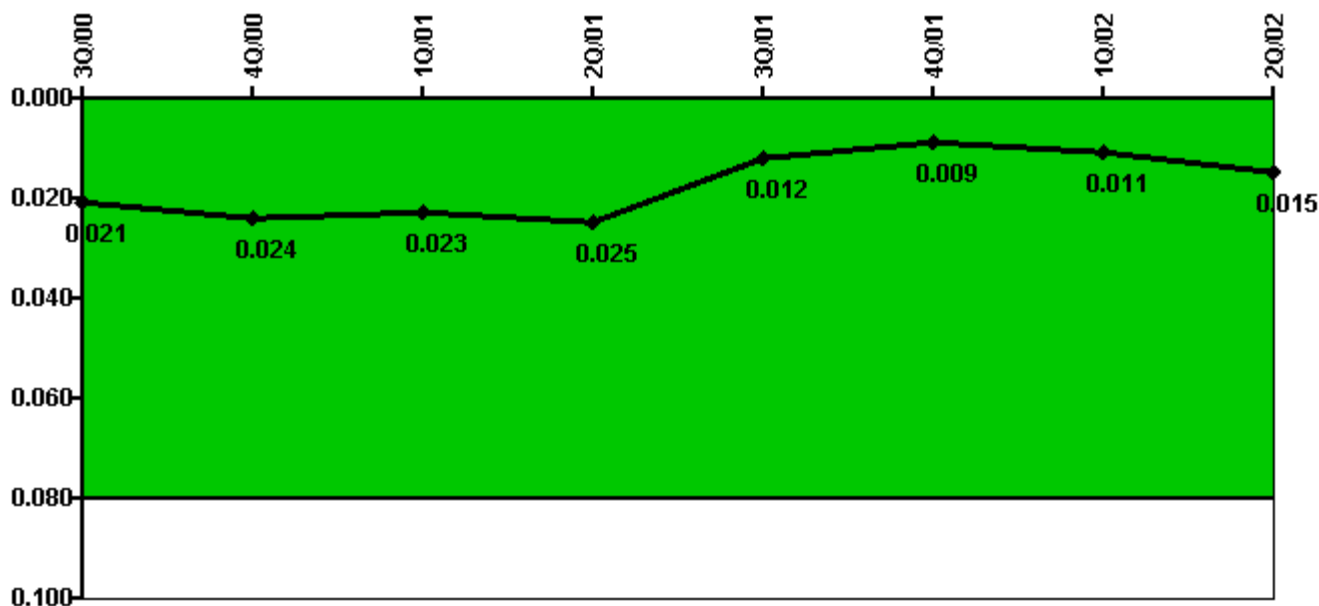
Thresholds: White > 1.0 Yellow > 3.0

#### 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

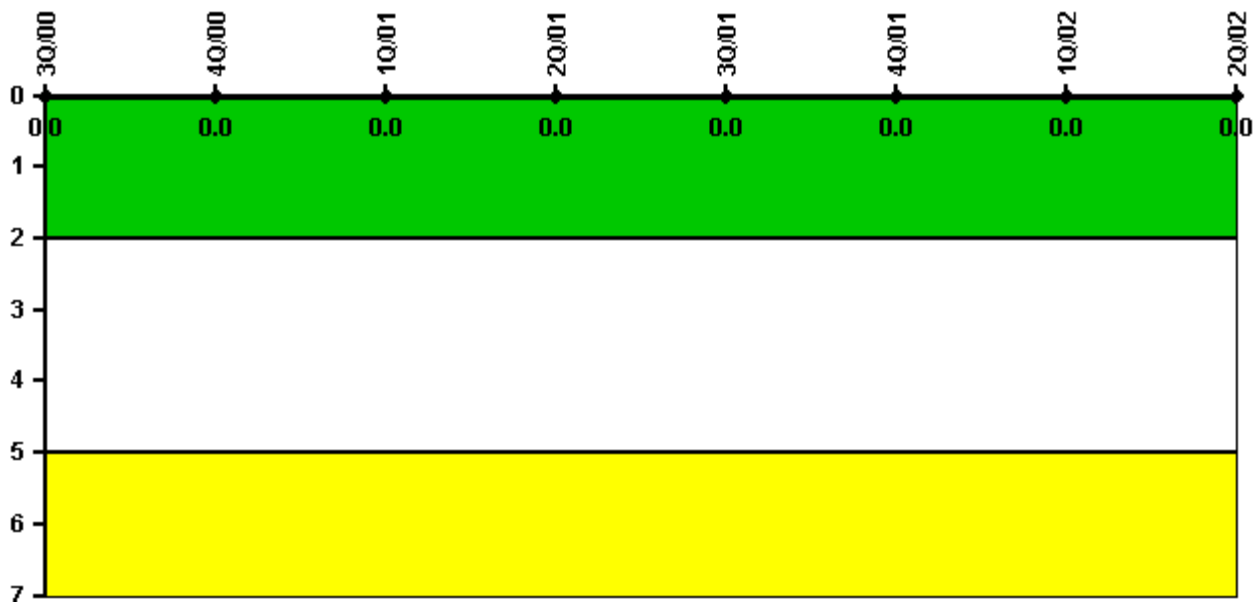
#### Notes

Protected Area Security Performance Index	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
IDS compensatory hours	390.70	116.70	14.80	85.60	69.60	39.90	51.10	162.40
CCTV compensatory hours	0	0	0	0	0	0	19.5	19.5
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.021	0.024	0.023	0.025	0.012	0.009	0.011	0.015

Licensee Comments: none



### Personnel Screening Program



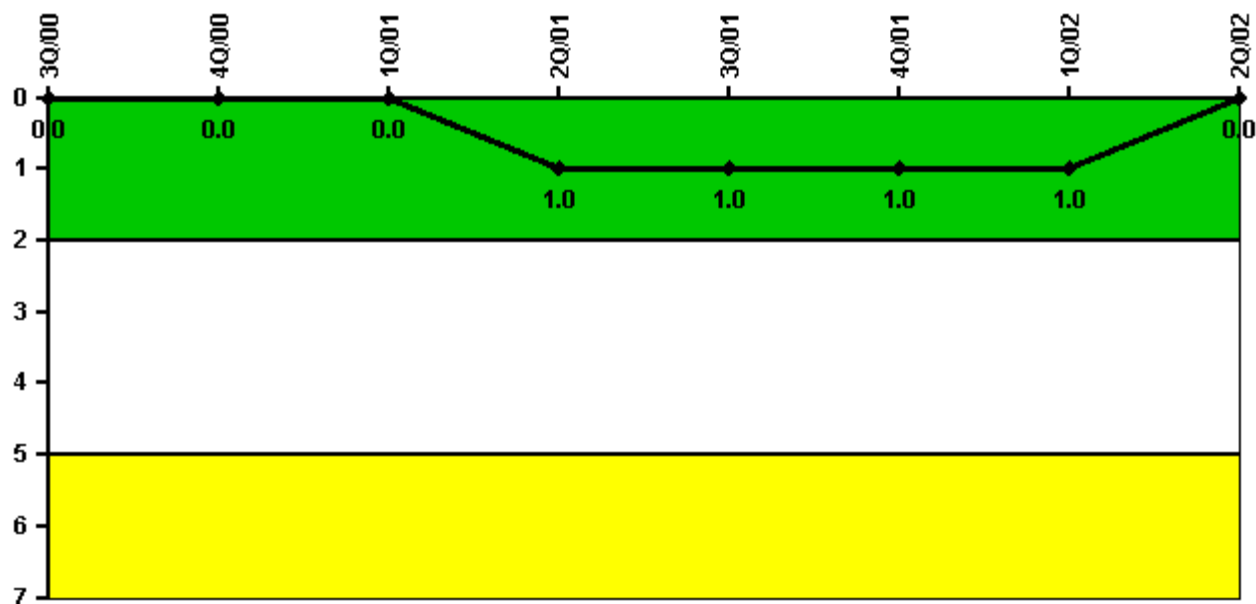
Thresholds: White > 2.0 Yellow > 5.0

#### 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	1	0	0	0	0
Indicator value	0	0	0	1	1	1	1	0

Licensee Comments: none

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Last Modified: July 31, 2002