

# Callaway

## 1Q/2002 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



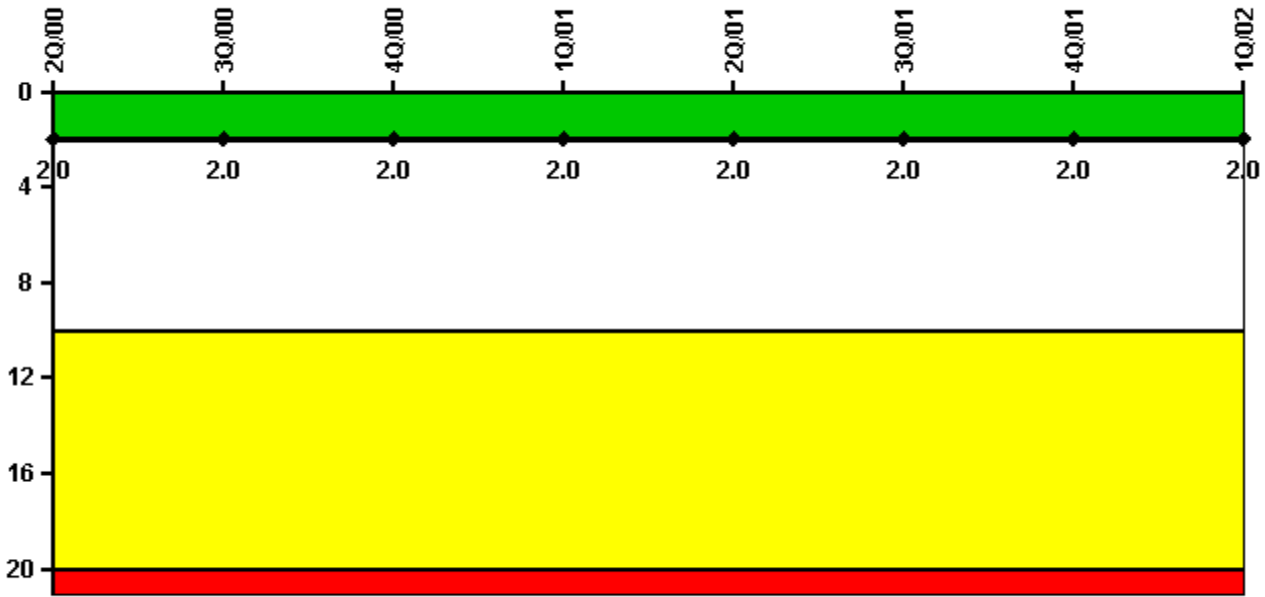
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	0	0	0	1.0	0	0	0	0
Critical hours	2183.0	2208.0	2209.0	2113.0	1139.0	2208.0	2132.0	1840.0
Indicator value	2.7	1.8	0.8	0.8	0.9	0.9	0.9	0

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



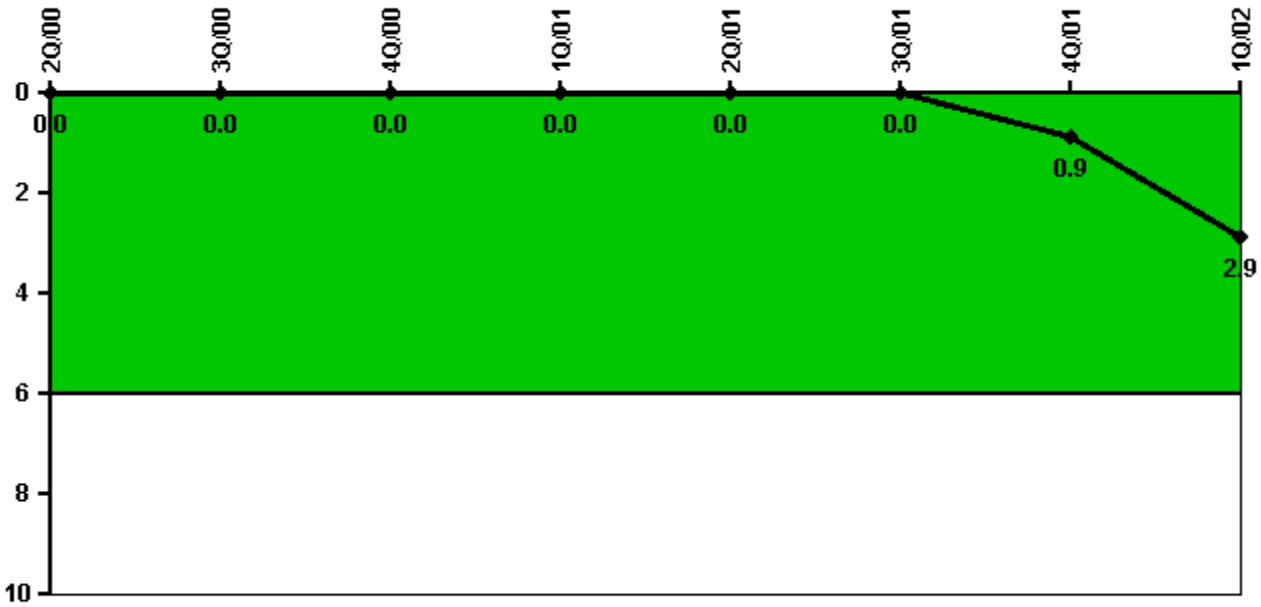
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### 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	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



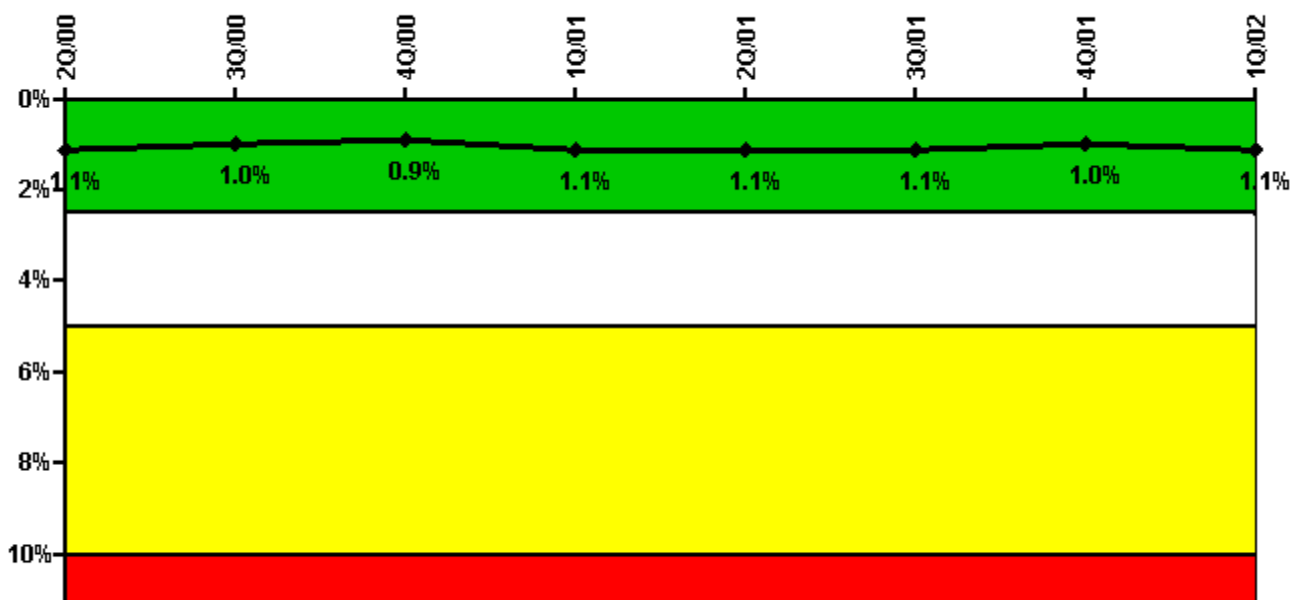
Thresholds: White > 6.0

#### 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	0	0	0	1.0	2.0
Critical hours	2183.0	2208.0	2209.0	2113.0	1139.0	2208.0	2132.0	1840.0
Indicator value	0	0	0	0	0	0	0.9	2.9

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power



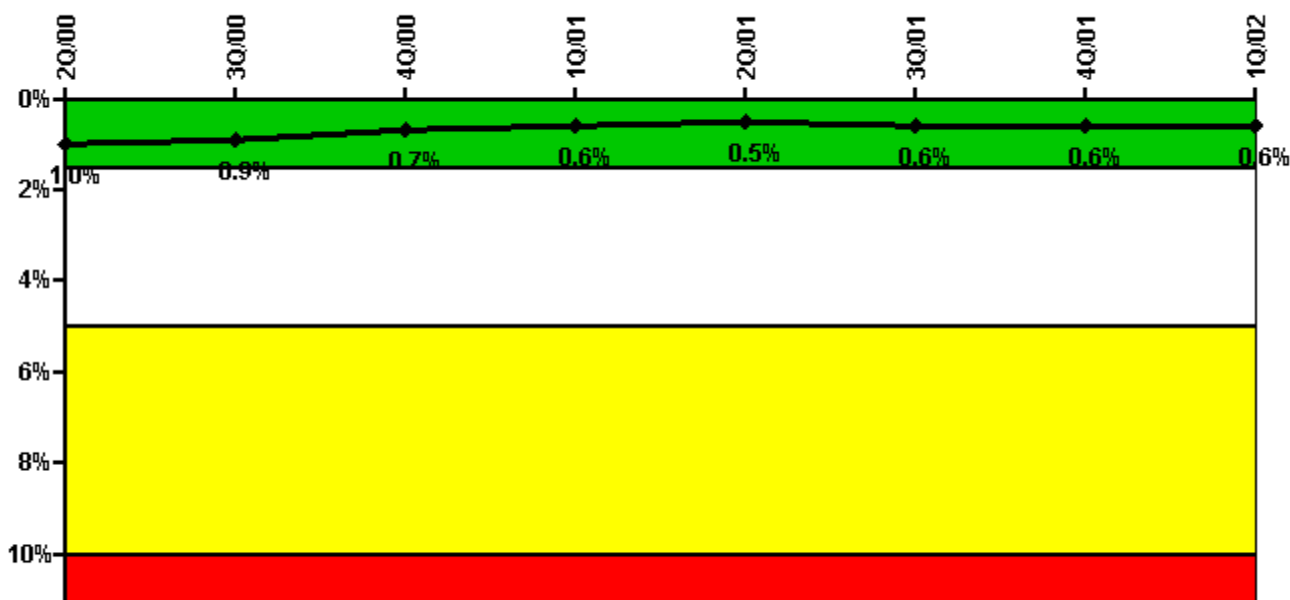
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Emergency AC Power	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
<b>Train 1</b>								
Planned unavailable hours	45.90	3.60	7.00	14.30	3.30	24.30	1.50	18.70
Unplanned unavailable hours	0	20.80	11.30	0	0	0	2.40	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	2183.00	2208.00	2208.00	2160.00	1757.60	2208.00	2208.00	1849.40
<b>Train 2</b>								
Planned unavailable hours	3.40	1.80	28.70	1.50	0.60	32.90	2.30	34.00
Unplanned unavailable hours	0	0	21.20	0	0	0	0	0
Fault exposure hours	0	0	0	132.30	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2208.00	2160.00	1757.60	2208.00	2208.00	1849.40
Indicator value	1.1%	1.0%	0.9%	1.1%	1.1%	1.1%	1.0%	1.1%

Licensee Comments: none

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



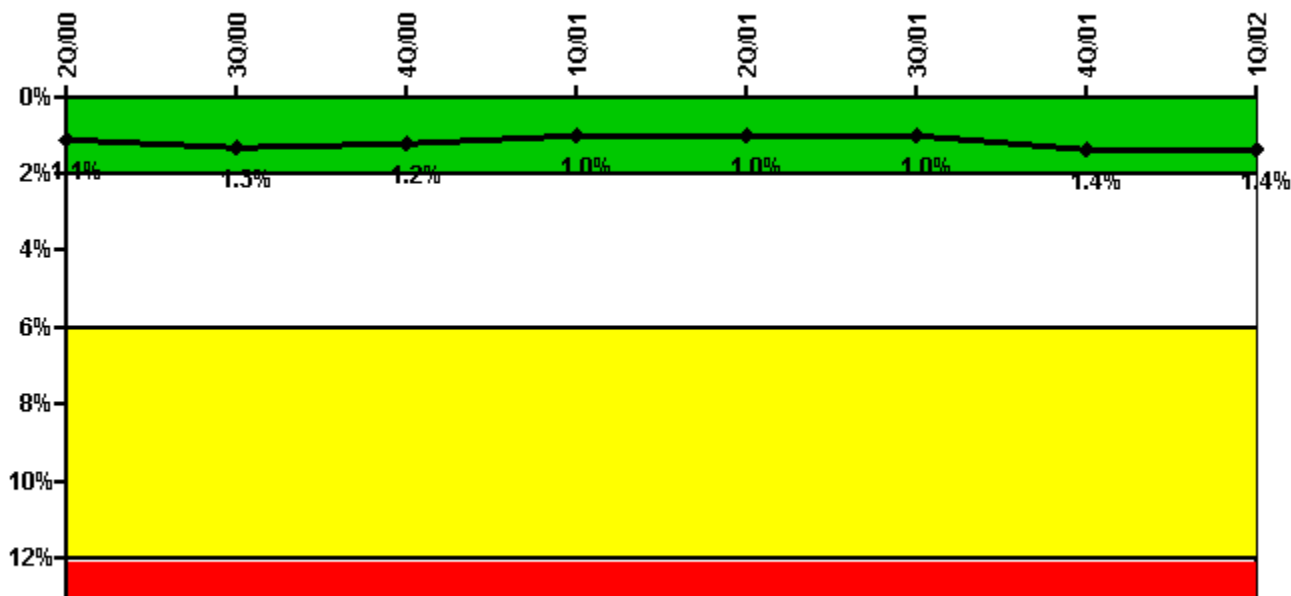
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### 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
<b>Train 1</b>								
Planned unavailable hours	46.40	39.90	7.30	2.70	3.30	23.30	6.70	4.00
Unplanned unavailable hours	0	0	9.70	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	2208.00	2160.00	1672.30	2208.00	2208.00	1849.40
<b>Train 2</b>								
Planned unavailable hours	6.20	4.00	7.90	19.10	3.60	4.90	1.60	32.50
Unplanned unavailable hours	0	0	0	0	0	0	4.30	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	2208.00	2160.00	1672.30	2208.00	2208.00	1849.40
<b>Train 3</b>								
Planned unavailable hours	46.20	4.50	26.40	3.60	2.20	8.20	19.60	2.00
Unplanned unavailable hours	1.40	0	9.70	0.60	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	2208.00	2160.00	1280.00	2208.00	2208.00	1849.40
<b>Train 4</b>								
Planned unavailable hours	5.00	3.40	15.80	3.50	3.20	6.70	19.70	18.50
Unplanned unavailable hours	0	0	0	0	0	0	4.30	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	2208.00	2160.00	1280.00	2208.00	2208.00	1849.40
<b>Indicator value</b>	<b>1.0%</b>	<b>0.9%</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>

Licensee Comments: none

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



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

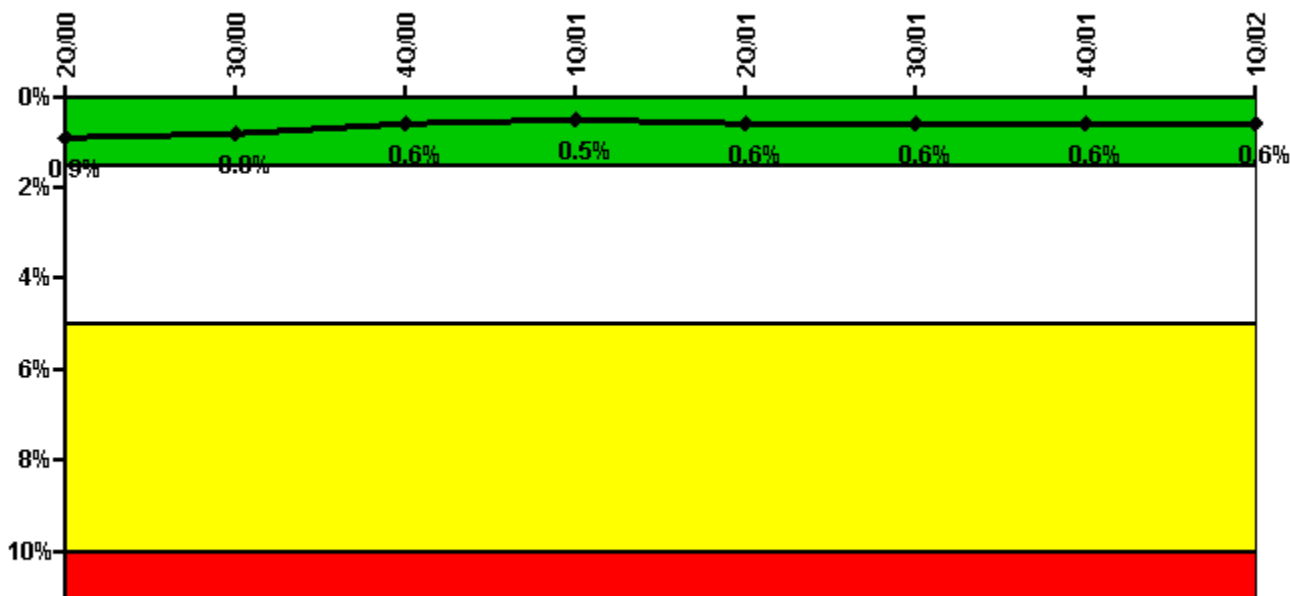
#### Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
<b>Train 1</b>								
Planned unavailable hours	42.80	30.40	7.60	12.30	0	16.20	17.40	19.20
Unplanned unavailable hours	0	0	0	0	0	0	45.70	0
Fault exposure hours	0	231.30	0	0	0	0	239.80	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2208.00	2160.00	1276.20	2208.00	2208.00	1849.40
<b>Train 2</b>								
Planned unavailable hours	6.30	5.10	42.50	3.30	0	1.20	24.10	2.60
Unplanned unavailable hours	0.60	0	0	0	0	15.30	0	13.80
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	2208.00	2160.00	1276.20	2208.00	2208.00	1849.40
<b>Train 3</b>								
Planned unavailable hours	4.80	6.30	16.30	28.10	7.50	15.00	10.60	3.30
Unplanned unavailable hours	0	0.60	0	0.50	4.50	0	0	14.70
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	2208.00	2160.00	1276.20	2208.00	2208.00	1849.40
<b>Indicator value</b>	<b>1.1%</b>	<b>1.3%</b>	<b>1.2%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>1.4%</b>	<b>1.4%</b>

#### Licensee Comments:

1Q/02: Licensee Event Report 2002-002-00 was issued this quarter due to the discovery of a calculation error affecting the 'A' motor driven auxiliary feedwater pump. This error resulted in reduced operating margin for this pump and meets the definition of a "Design Deficiency" per NEI 99-02, Rev. 2 (page 33). This design deficiency involved unavailability of 370 days plus 9.8 hours.

### Safety System Unavailability, Residual Heat Removal System



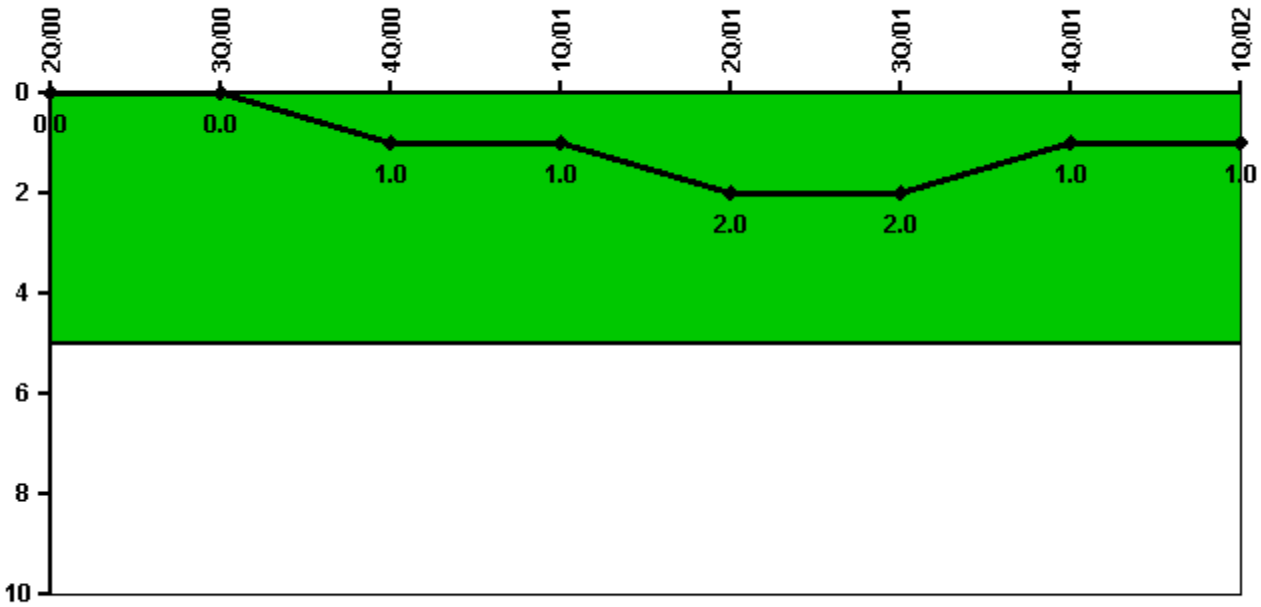
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Residual Heat Removal System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
<b>Train 1</b>								
Planned unavailable hours	69.00	6.80	8.20	1.80	25.40	6.30	25.70	2.70
Unplanned unavailable hours	0	0.30	9.70	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	2208.00	2160.00	1815.90	2208.00	2208.00	2160.00
<b>Train 2</b>								
Planned unavailable hours	6.40	4.10	5.40	11.70	1.70	16.70	1.60	17.80
Unplanned unavailable hours	0	32.70	0	0	0	0	4.30	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	2208.00	2160.00	1815.90	2208.00	2208.00	2160.00
Indicator value	0.9%	0.8%	0.6%	0.5%	0.6%	0.6%	0.6%	0.6%

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

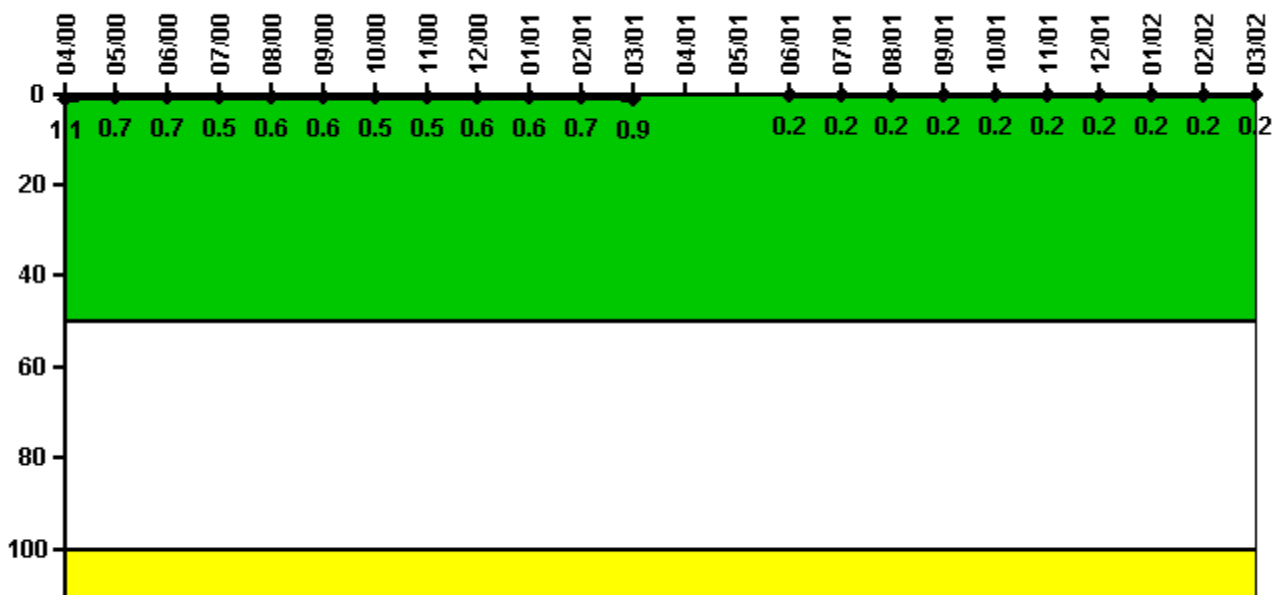
#### Notes

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

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

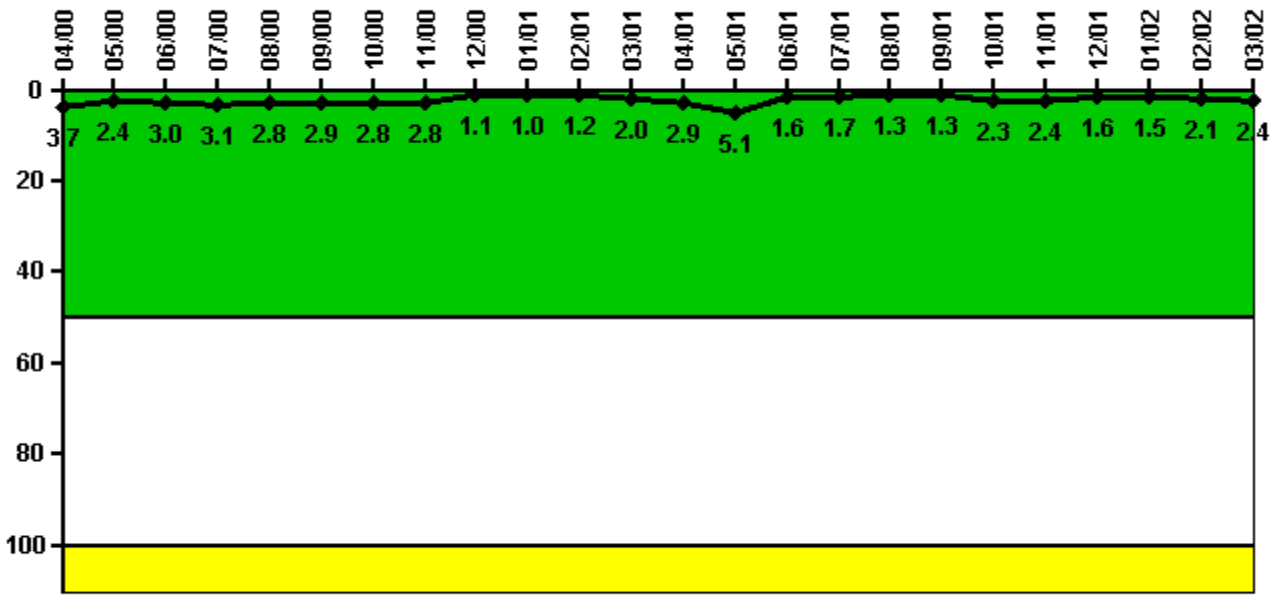
Reactor Coolant System Activity	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.011000	0.007000	0.007000	0.004780	0.005500	0.005850	0.005150	0.005420	0.005660	0.005740	0.007000	0.009070
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.1	0.7	0.7	0.5	0.6	0.6	0.5	0.5	0.6	0.6	0.7	0.9

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	N/A	N/A	0.001510	0.001530	0.001620	0.001580	0.001700	0.001720	0.001690	0.001960	0.001890	0.002290
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	N/A	N/A	0.2	0.2	0.2	0.2	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

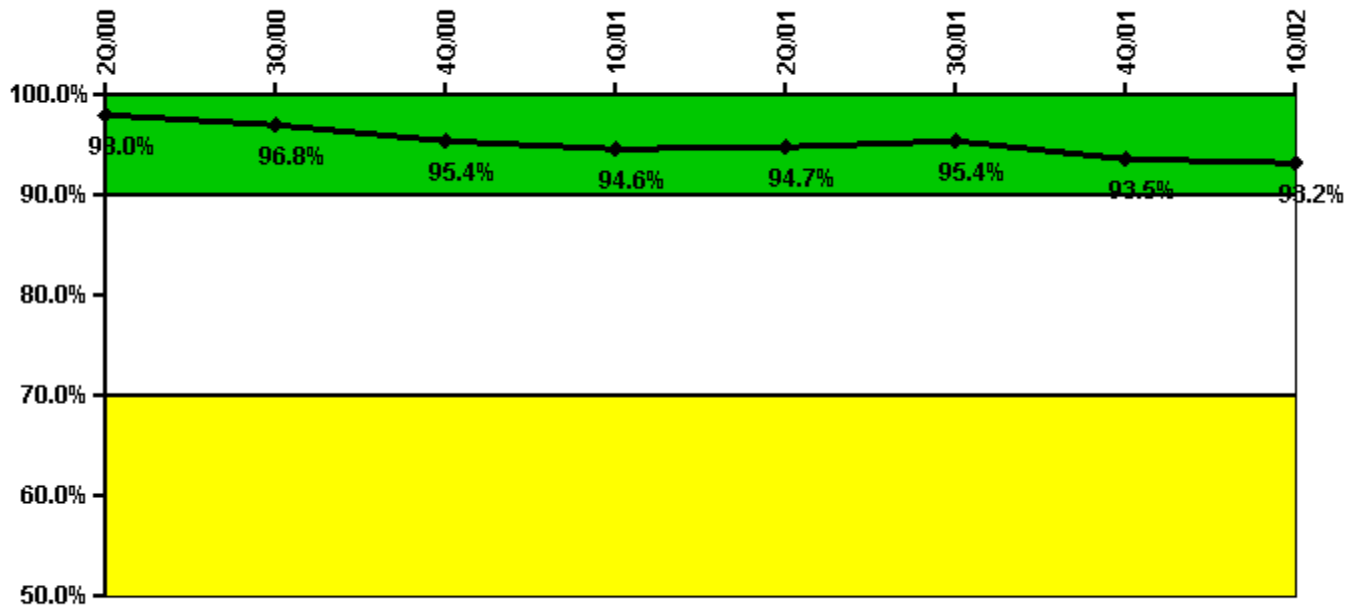
Reactor Coolant System Leakage	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.369	0.244	0.295	0.309	0.283	0.293	0.281	0.280	0.110	0.100	0.120	0.199
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.7	2.4	3.0	3.1	2.8	2.9	2.8	2.8	1.1	1.0	1.2	2.0

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	0.294	0.506	0.160	0.170	0.127	0.134	0.229	0.241	0.158	0.154	0.208	0.244
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	2.9	5.1	1.6	1.7	1.3	1.3	2.3	2.4	1.6	1.5	2.1	2.4

Licensee Comments: none

### Drill/Exercise Performance



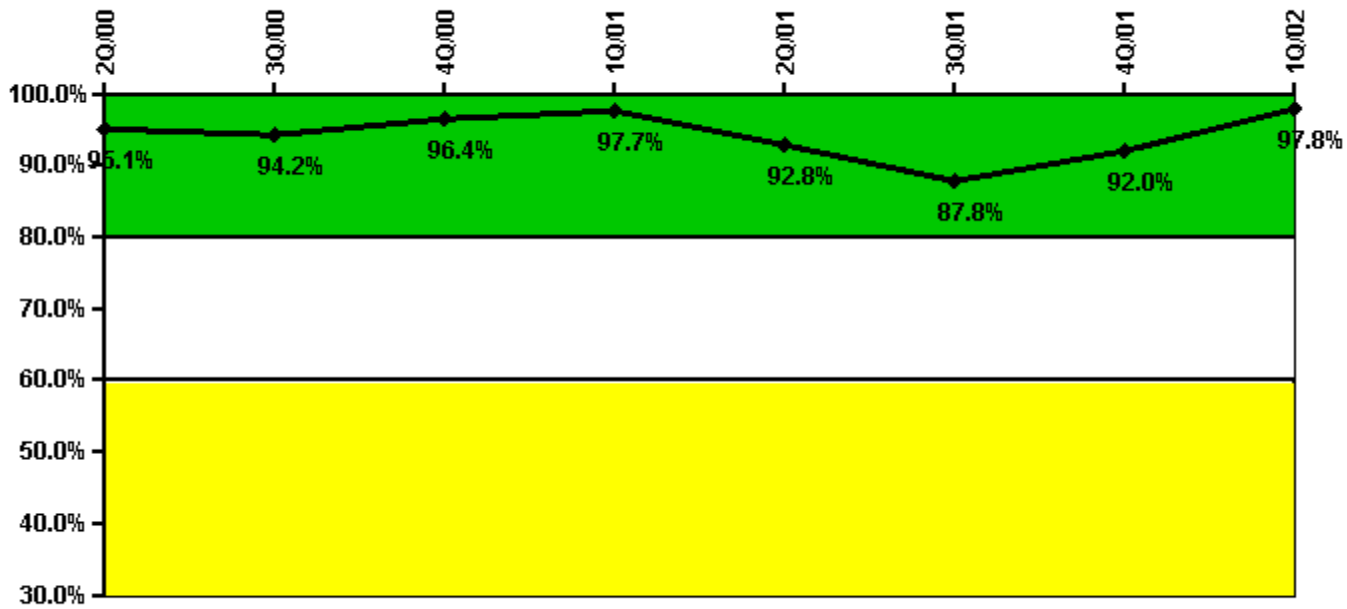
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful opportunities	23.0	20.0	35.0	50.0	0	29.0	79.0	51.0
Total opportunities	24.0	22.0	36.0	52.0	0	31.0	88.0	55.0
Indicator value	98.0%	96.8%	95.4%	94.6%	94.7%	95.4%	93.5%	93.2%

Licensee Comments: none

### ERO Drill Participation



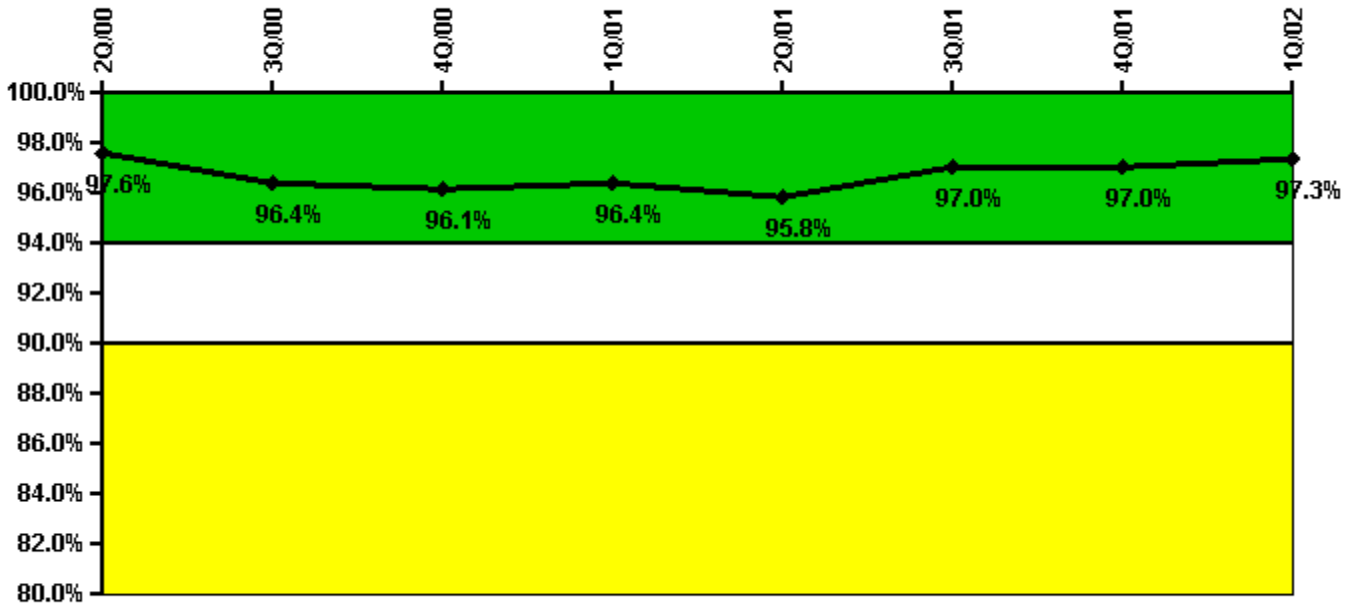
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	78.0	81.0	81.0	84.0	77.0	79.0	81.0	87.0
Total Key personnel	82.0	86.0	84.0	86.0	83.0	90.0	88.0	89.0
Indicator value	95.1%	94.2%	96.4%	97.7%	92.8%	87.8%	92.0%	97.8%

Licensee Comments: none

### Alert & Notification System



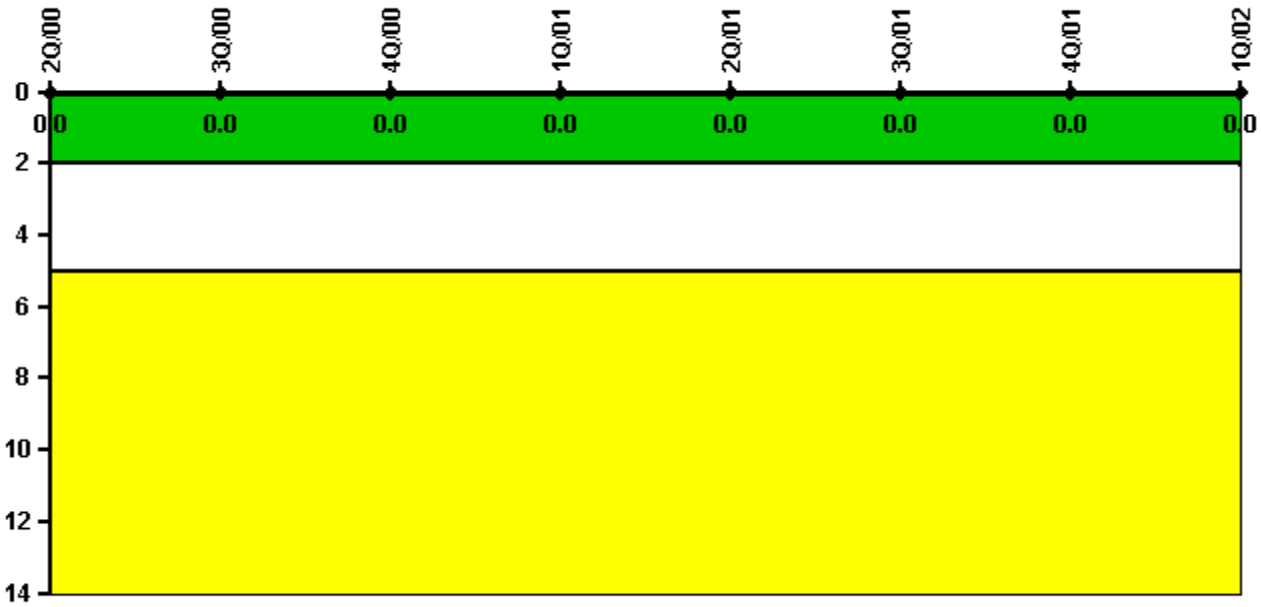
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful siren-tests	83	79	82	80	81	83	82	84
Total sirens-tests	84	84	84	84	84	84	84	87
Indicator value	97.6%	96.4%	96.1%	96.4%	95.8%	97.0%	97.0%	97.3%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



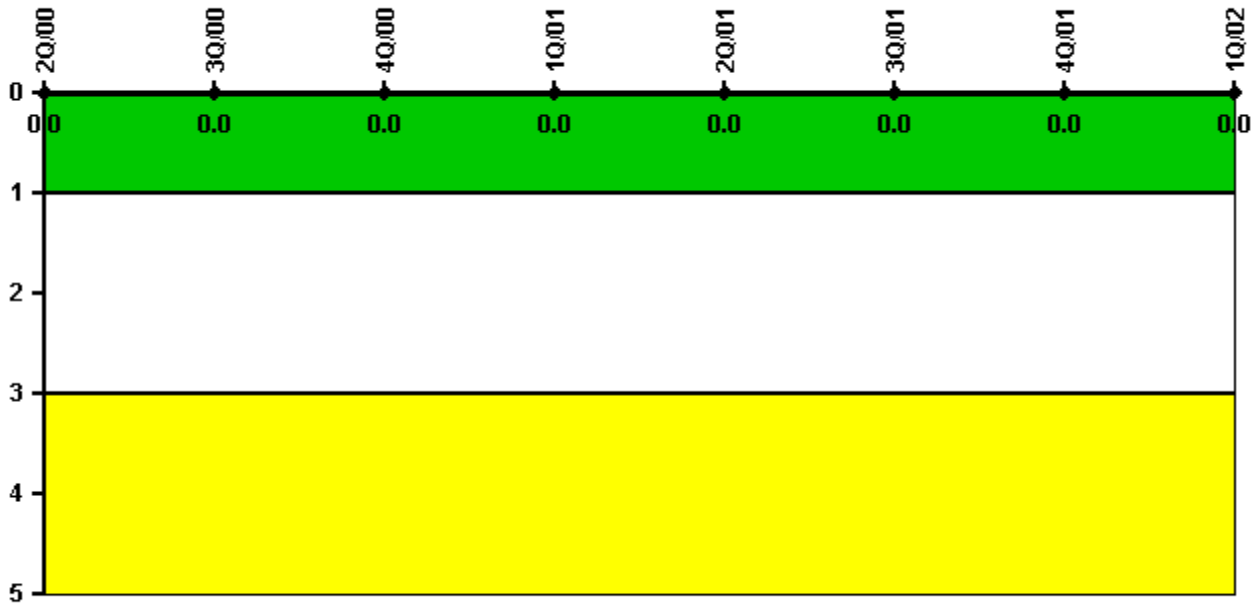
Thresholds: White > 2.0 Yellow > 5.0

#### 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



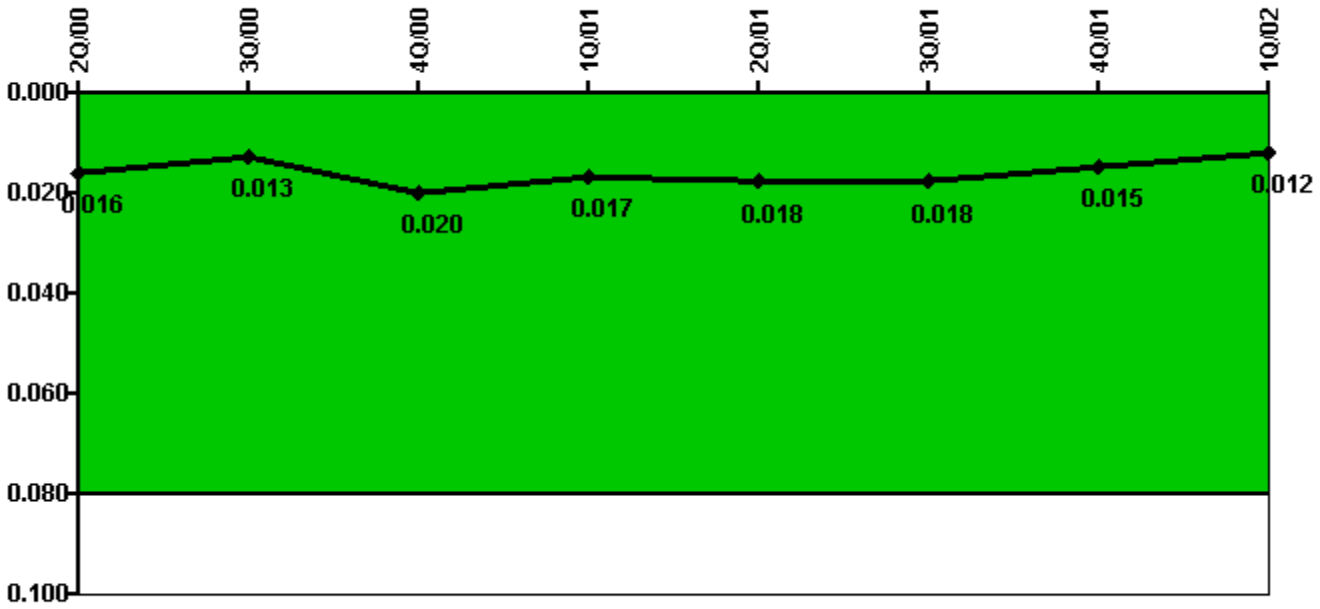
Thresholds: White > 1.0 Yellow > 3.0

#### 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

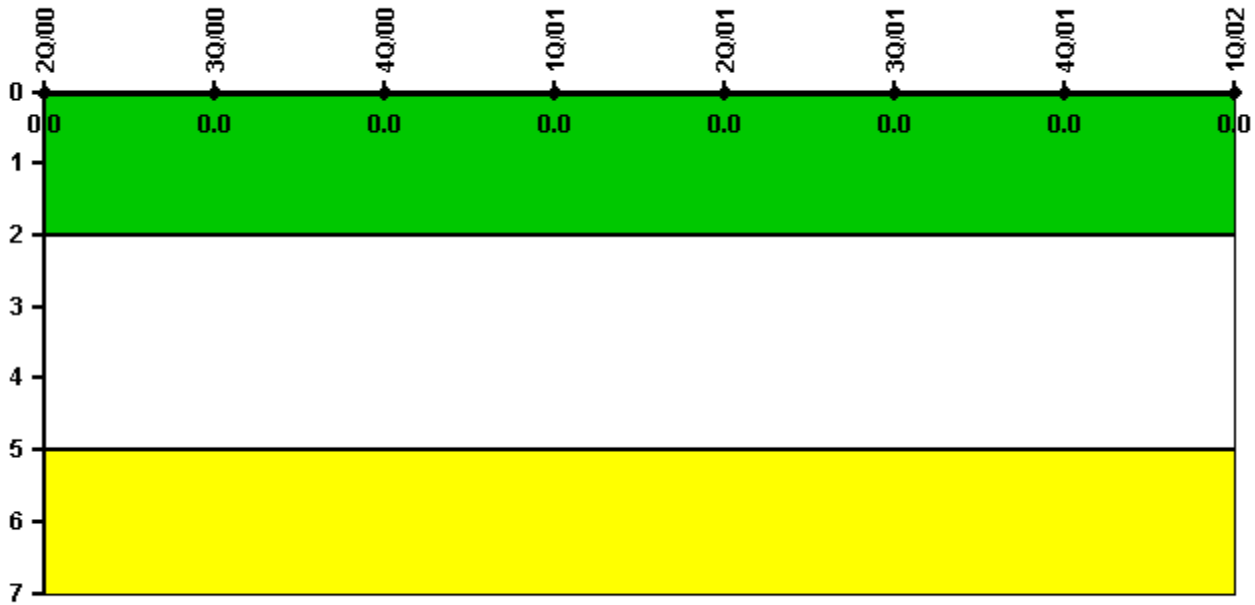
#### Notes

Protected Area Security Performance Index	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
IDS compensatory hours	46.60	60.20	216.10	89.50	63.90	61.80	130.60	6.30
CCTV compensatory hours	0	7.2	0.3	0.1	5.1	6.7	1.5	1.1
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.016	0.013	0.020	0.017	0.018	0.018	0.015	0.012

Licensee Comments: none



### Personnel Screening Program



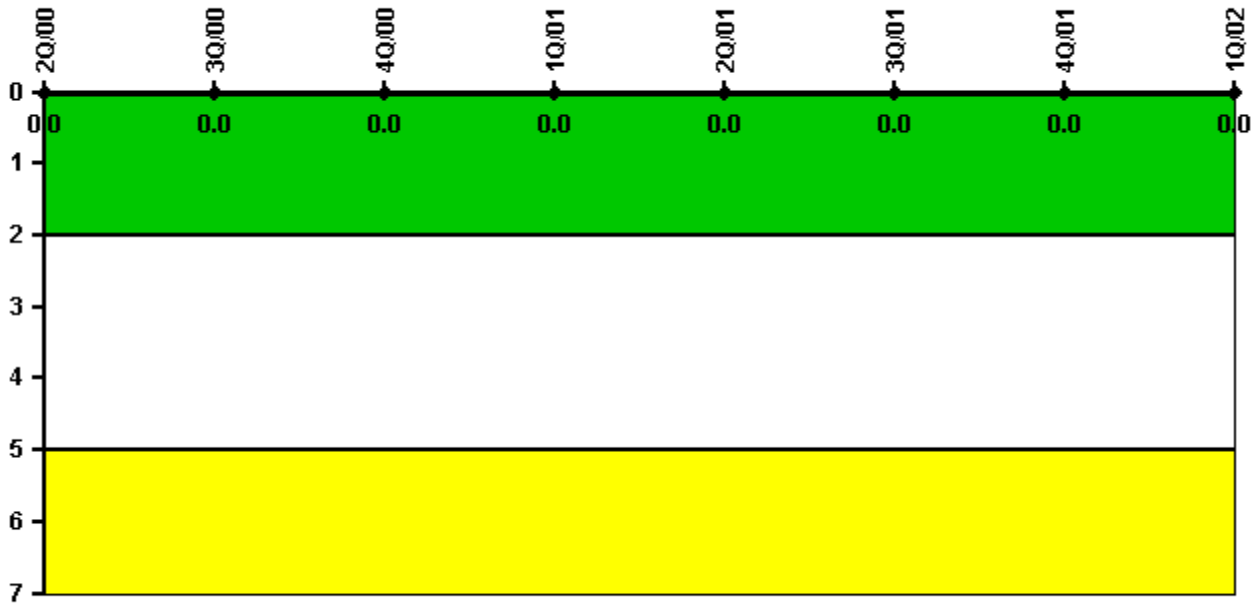
Thresholds: White > 2.0 Yellow > 5.0

#### 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

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Last Modified: May 1, 2002