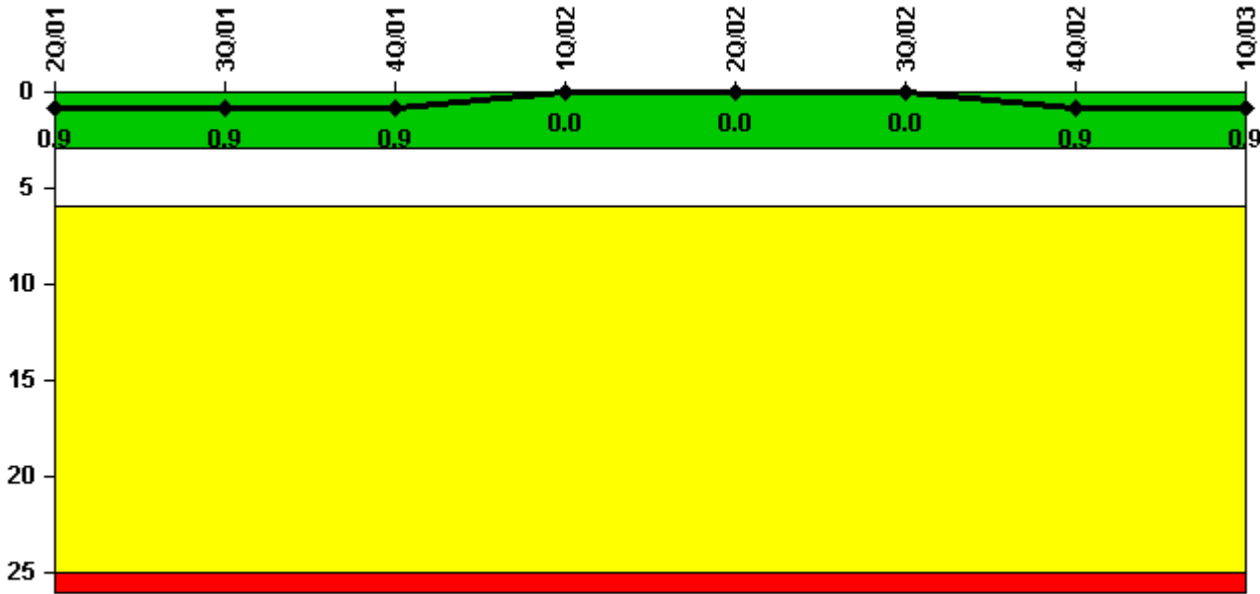


# Callaway

## 1Q/2003 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



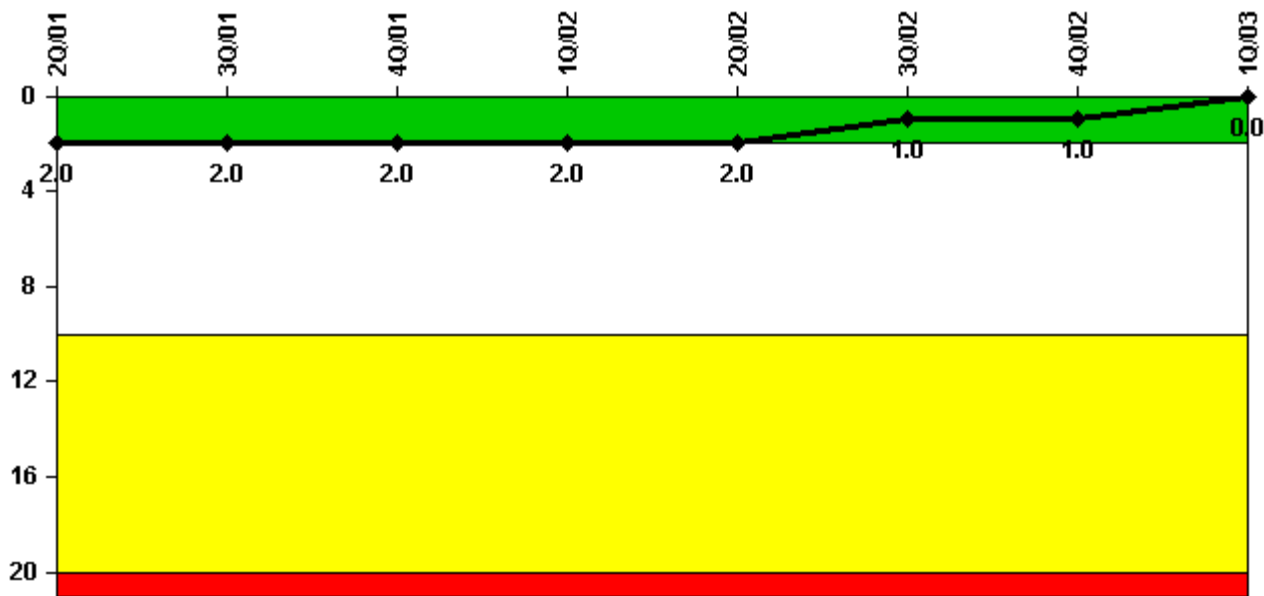
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	1139.0	2208.0	2132.0	1840.0	2183.0	2208.0	1323.0	1929.0
Indicator value	0.9	0.9	0.9	0	0	0	0.9	0.9

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



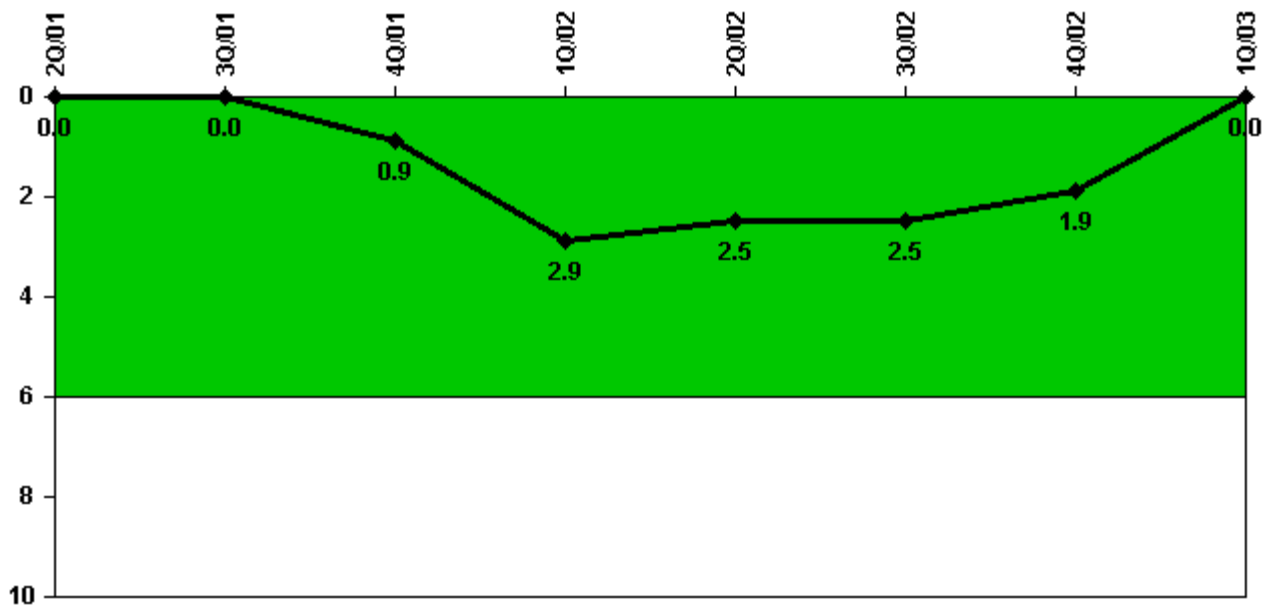
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Scrams	0	0	0	0	0	0	0	0
Indicator value	2.0	2.0	2.0	2.0	2.0	1.0	1.0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



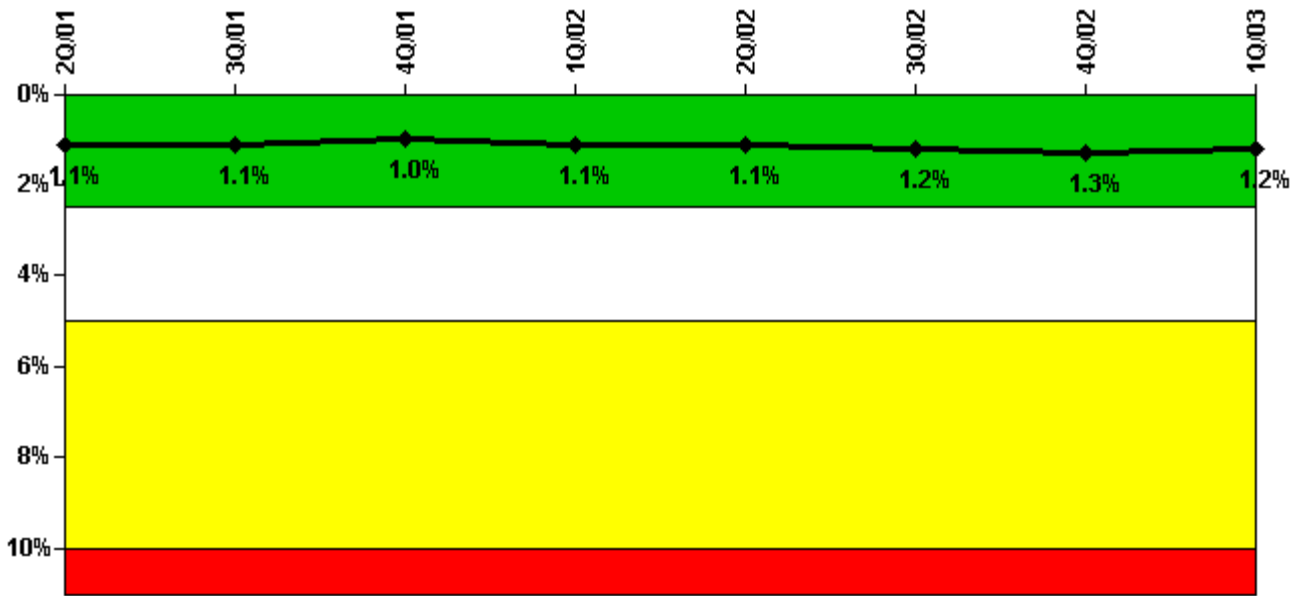
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned power changes	0	0	1.0	2.0	0	0	0	0
Critical hours	1139.0	2208.0	2132.0	1840.0	2183.0	2208.0	1323.0	1929.0
Indicator value	0	0	0.9	2.9	2.5	2.5	1.9	0

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power



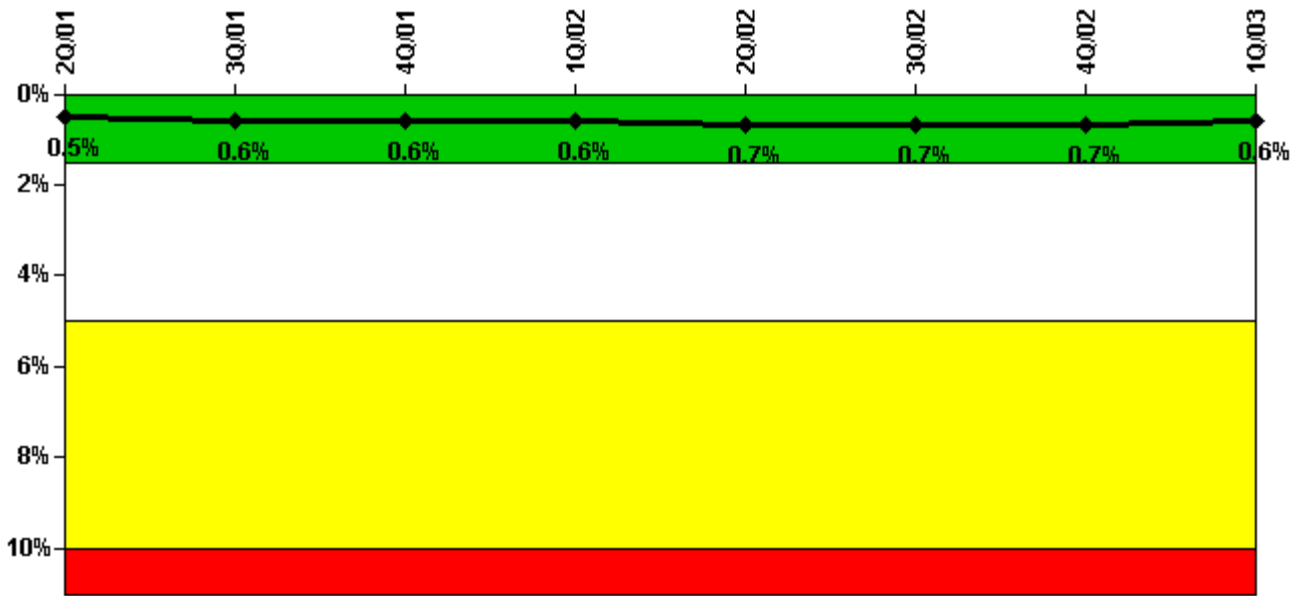
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Emergency AC Power	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
<b>Train 1</b>								
Planned unavailable hours	3.30	24.30	1.50	18.70	3.00	42.20	55.50	4.50
Unplanned unavailable hours	0	0	2.40	0	0	8.20	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	1757.60	2208.00	2208.00	1849.40	2184.00	2208.00	1521.20	1970.40
<b>Train 2</b>								
Planned unavailable hours	0.60	32.90	2.30	34.00	10.10	31.50	8.70	2.80
Unplanned unavailable hours	0	0	0	0	0.10	0	0	11.90
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1757.60	2208.00	2208.00	1849.40	2184.00	2208.00	1521.20	1970.40
Indicator value	1.1%	1.1%	1.0%	1.1%	1.1%	1.2%	1.3%	1.2%

Licensee Comments: none

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



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

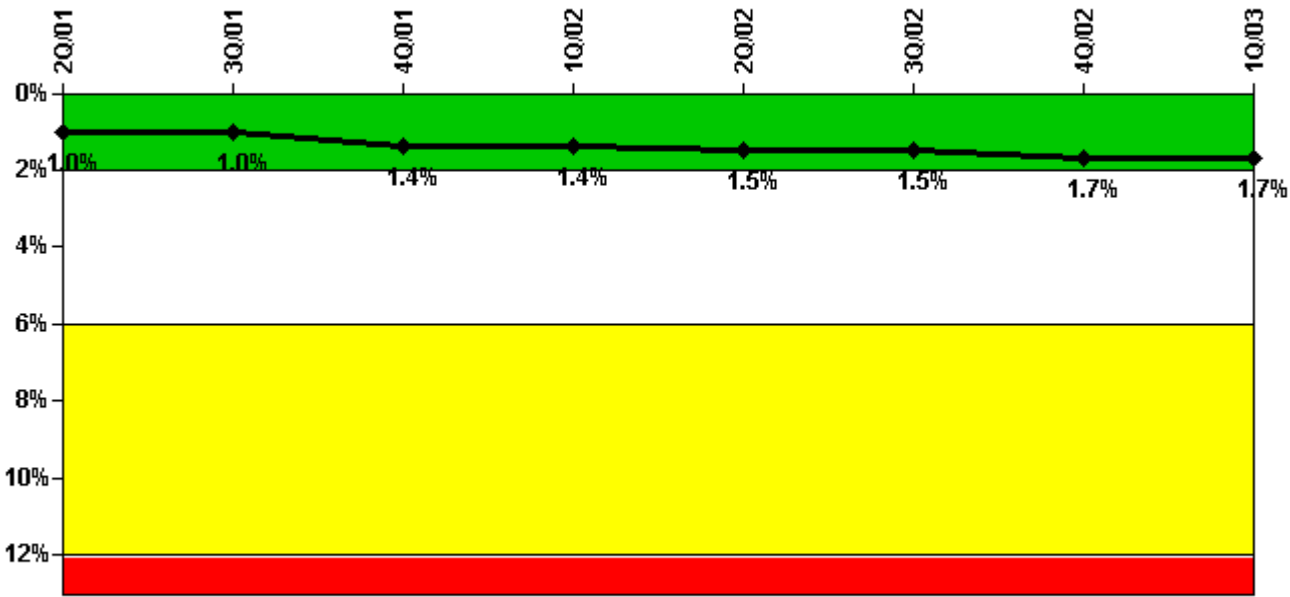
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
<b>Train 1</b>								
Planned unavailable hours	3.30	23.30	6.70	4.00	19.90	0.60	1.60	1.00
Unplanned unavailable hours	0	0	0	0	0	0.60	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	1672.30	2208.00	2208.00	1849.40	2184.00	2208.00	1491.50	1941.00
<b>Train 2</b>								
Planned unavailable hours	3.60	4.90	1.60	32.50	2.30	1.20	1.40	15.70
Unplanned unavailable hours	0	0	4.30	0	0	9.60	1.10	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	1672.30	2208.00	2208.00	1849.40	2184.00	2208.00	1491.50	1941.00
<b>Train 3</b>								
Planned unavailable hours	2.20	8.20	19.60	2.00	17.60	22.50	0.60	1.70
Unplanned unavailable hours	0	0	0	0	0	0.60	0	3.30
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1280.00	2208.00	2208.00	1849.40	2184.00	2208.00	1491.50	1941.00
<b>Train 4</b>								
Planned unavailable hours	3.20	6.70	19.70	18.50	2.00	1.30	13.20	13.30
Unplanned unavailable hours	0	0	4.30	0	0	9.60	1.10	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	1280.00	2208.00	2208.00	1849.40	2184.00	2208.00	1491.50	1941.00
Indicator value	0.5%	0.6%	0.6%	0.6%	0.7%	0.7%	0.7%	0.6%

Licensee Comments: none

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



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

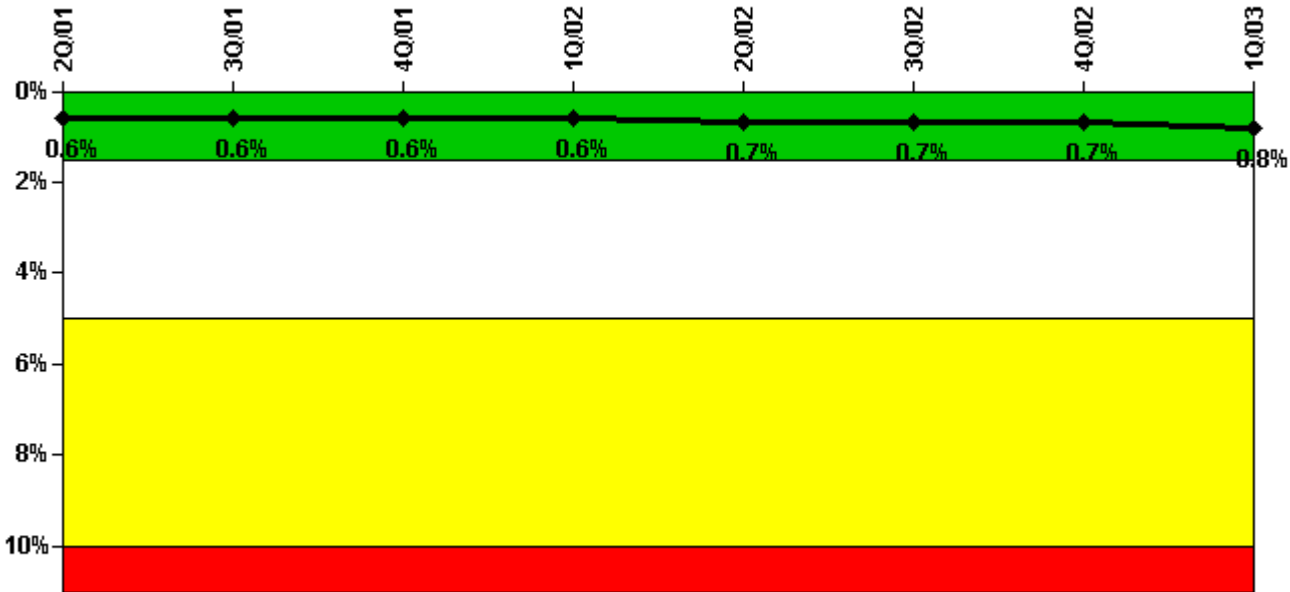
### Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
<b>Train 1</b>								
Planned unavailable hours	0	16.20	17.40	19.20	3.80	37.80	21.60	5.00
Unplanned unavailable hours	0	0	45.70	0	0	0.90	0	0
Fault exposure hours	0	0	239.80	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1276.20	2208.00	2208.00	1849.40	2184.00	2208.00	1491.50	1941.00
<b>Train 2</b>								
Planned unavailable hours	0	1.20	24.10	2.60	1.70	14.00	24.40	27.40
Unplanned unavailable hours	0	15.30	0	13.80	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	1276.20	2208.00	2208.00	1849.40	2184.00	2208.00	1491.50	1941.00
<b>Train 3</b>								

Planned unavailable hours	7.50	15.00	10.60	3.30	45.80	2.70	36.50	42.60
Unplanned unavailable hours	4.50	0	0	14.70	0	0	97.30	15.20
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1276.20	2208.00	2208.00	1849.40	2184.00	2208.00	1491.50	1941.00
Indicator value	1.0%	1.0%	1.4%	1.4%	1.5%	1.5%	1.7%	1.7%

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



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

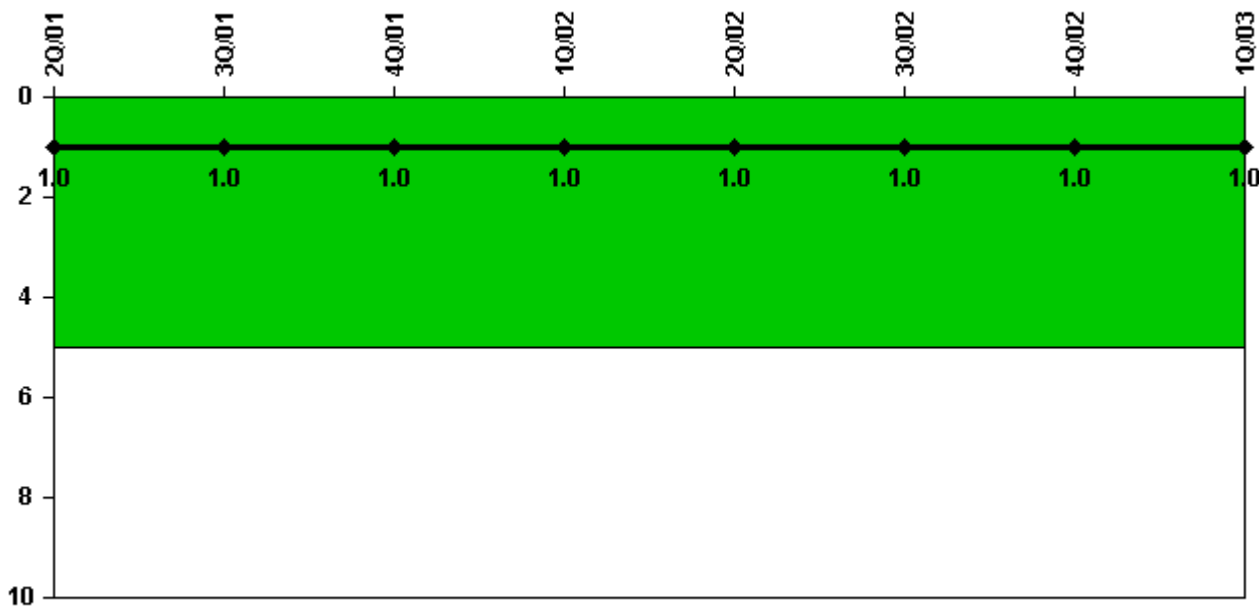
### Notes

Safety System Unavailability, Residual Heat Removal System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
<b>Train 1</b>								
Planned unavailable hours	25.40	6.30	25.70	2.70	28.90	6.70	2.90	17.70
Unplanned unavailable hours	0	0	0	0	0	0.60	0.80	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	1815.90	2208.00	2208.00	2160.00	2184.00	2208.00	2073.50	2160.00
<b>Train 2</b>								
Planned unavailable hours	1.70	16.70	1.60	17.80	22.60	0.40	4.50	23.10
Unplanned unavailable hours	0	0	4.30	0	0	21.70	1.10	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	1815.90	2208.00	2208.00	2160.00	2184.00	2208.00	2073.50	2160.00
Indicator value	0.6%	0.6%	0.6%	0.6%	0.7%	0.7%	0.7%	0.8%

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

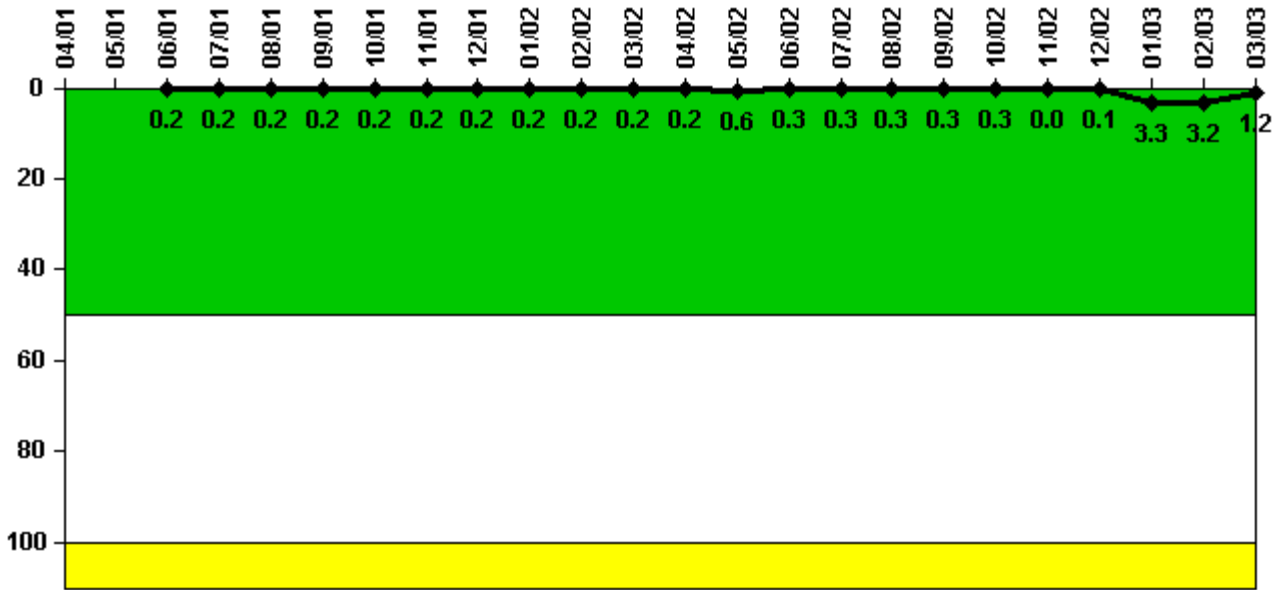
### Notes

Safety System Functional Failures (PWR)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Safety System Functional Failures	1	0	0	0	1	0	0	0
Indicator value	1	1	1	1	1	1	1	1

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

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

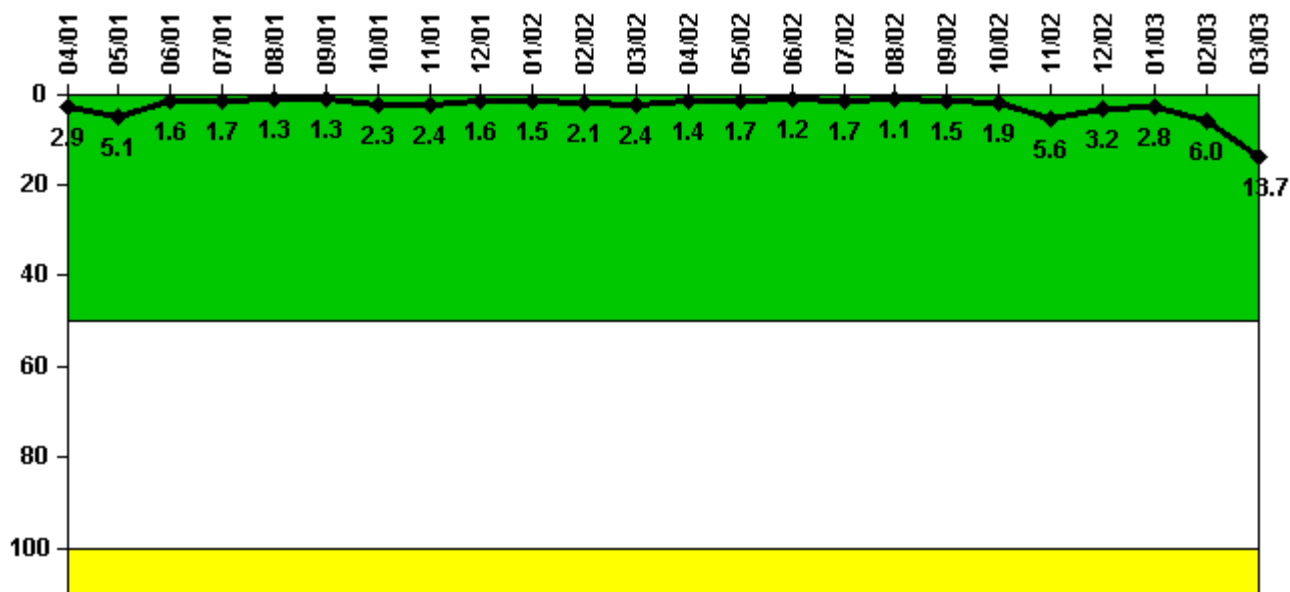
  

Reactor Coolant System Activity	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum activity	0.002130	0.005510	0.002530	0.002520	0.002810	0.002660	0.003400	0.000440	0.000850	0.009890	0.009710	0.003540
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	0.3	0.3
Indicator value	0.2	0.6	0.3	0.3	0.3	0.3	0.3	0	0.1	3.3	3.2	1.2

Licensee Comments:

3/03: An Administrative Limit (for the purpose of ensuring Public health and safety) of 0.3 micro Curies per gram dose equivalent I-131 has been established in response to an Accident Analysis issue currently being evaluated. This issue has been entered into the Callaway corrective action program.

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

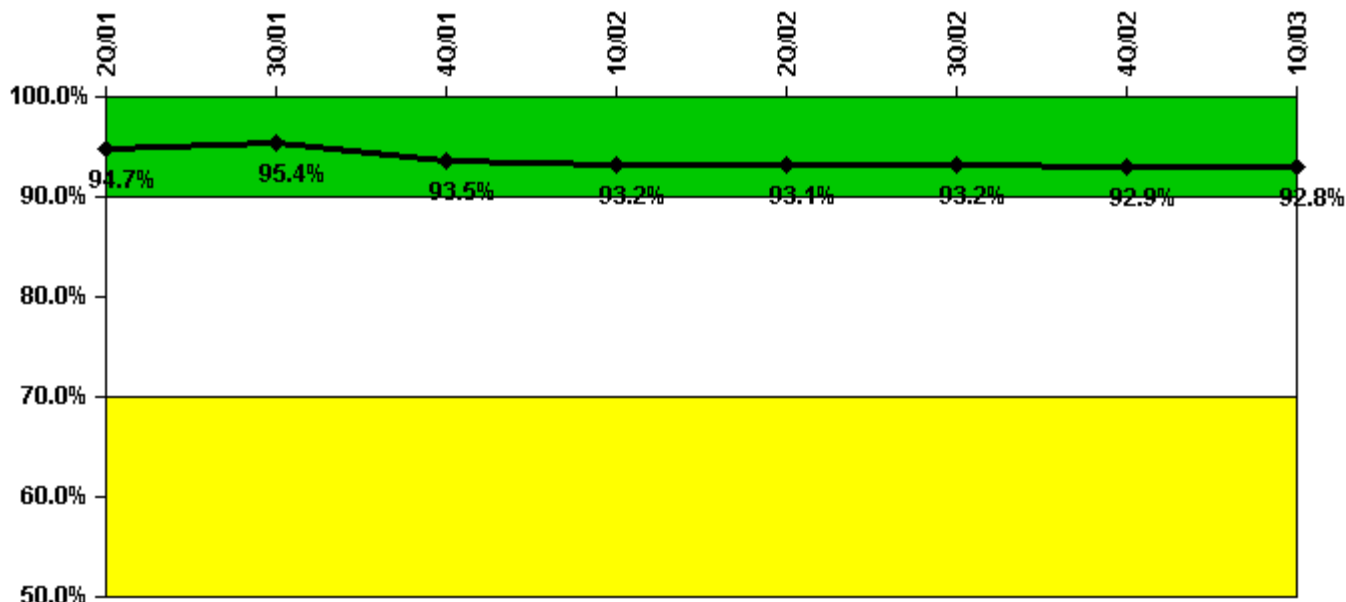
Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	0.294	0.506	0.160	0.170	0.127	0.134	0.229	0.241	0.158	0.154	0.208	0.244
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.9	5.1	1.6	1.7	1.3	1.3	2.3	2.4	1.6	1.5	2.1	2.4

Reactor Coolant System Leakage	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	0.135	0.174	0.119	0.173	0.105	0.148	0.193	0.555	0.321	0.280	0.601	1.365
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	1.4	1.7	1.2	1.7	1.1	1.5	1.9	5.6	3.2	2.8	6.0	13.7

Licensee Comments: none

### Drill/Exercise Performance



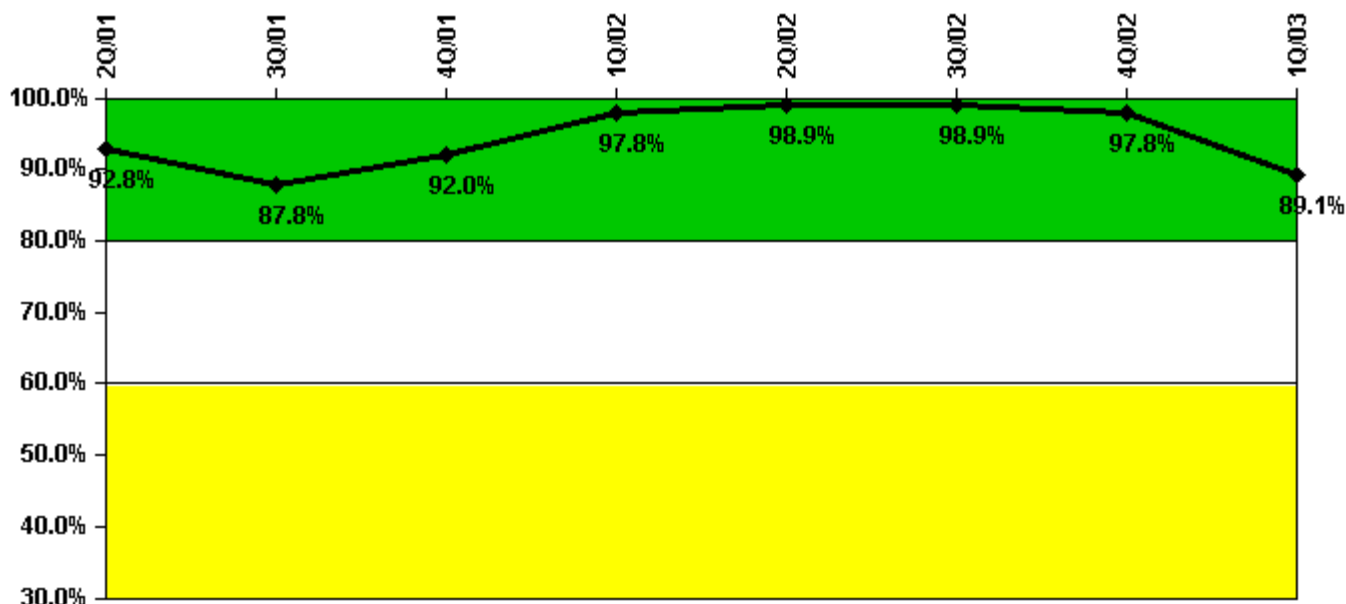
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful opportunities	0	29.0	79.0	51.0	33.0	38.0	6.0	35.0
Total opportunities	0	31.0	88.0	55.0	35.0	41.0	6.0	36.0
Indicator value	94.7%	95.4%	93.5%	93.2%	93.1%	93.2%	92.9%	92.8%

Licensee Comments: none

### ERO Drill Participation



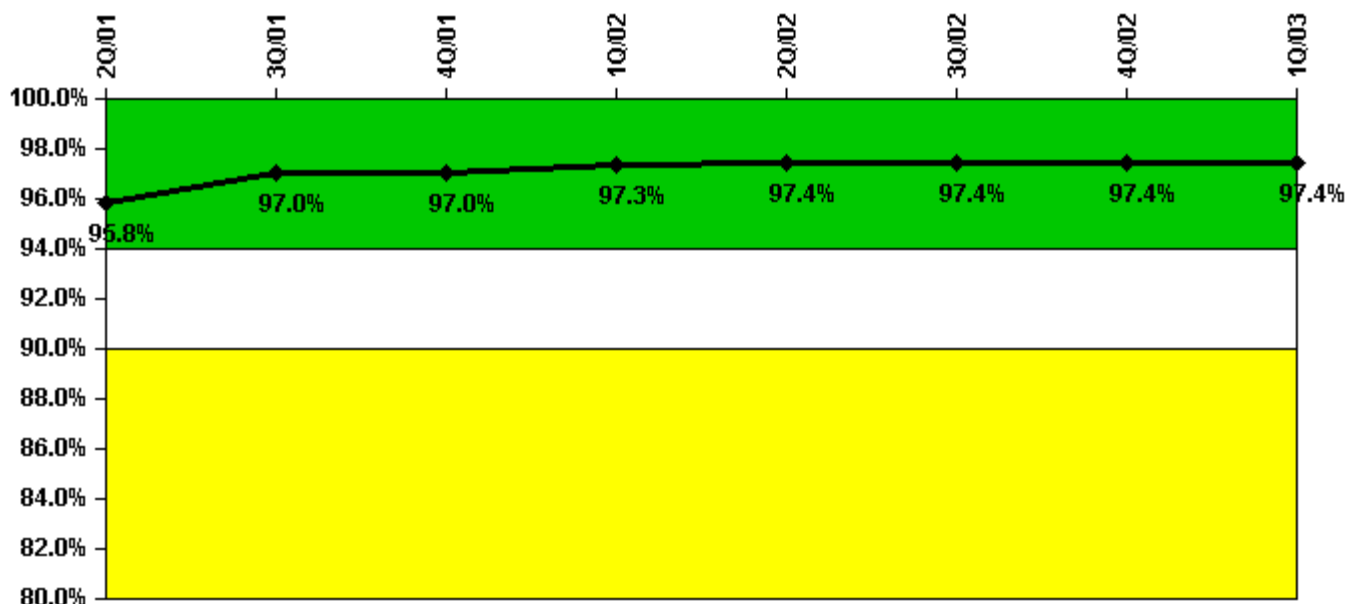
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Participating Key personnel	77.0	79.0	81.0	87.0	88.0	91.0	87.0	82.0
Total Key personnel	83.0	90.0	88.0	89.0	89.0	92.0	89.0	92.0
Indicator value	92.8%	87.8%	92.0%	97.8%	98.9%	98.9%	97.8%	89.1%

Licensee Comments: none

### Alert & Notification System



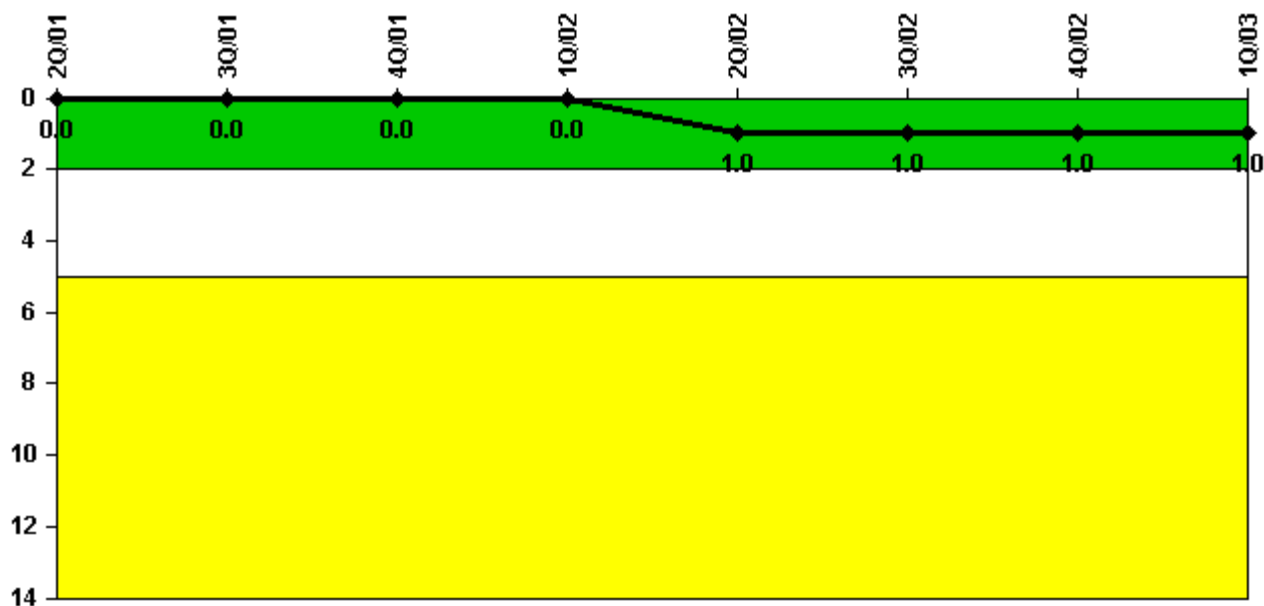
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful siren-tests	81	83	82	84	84	86	85	84
Total sirens-tests	84	84	84	87	87	87	87	87
Indicator value	95.8%	97.0%	97.0%	97.3%	97.4%	97.4%	97.4%	97.4%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



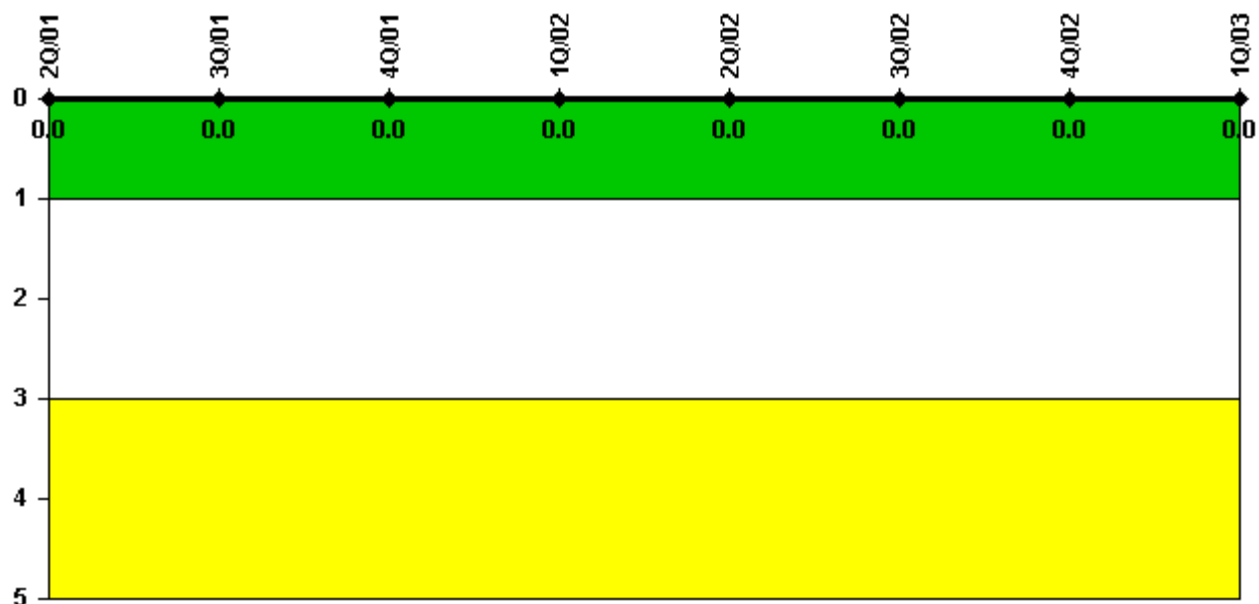
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
High radiation area occurrences	0	0	0	0	1	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	1	1	1	1

Licensee Comments: none

### RETS/ODCM Radiological Effluent



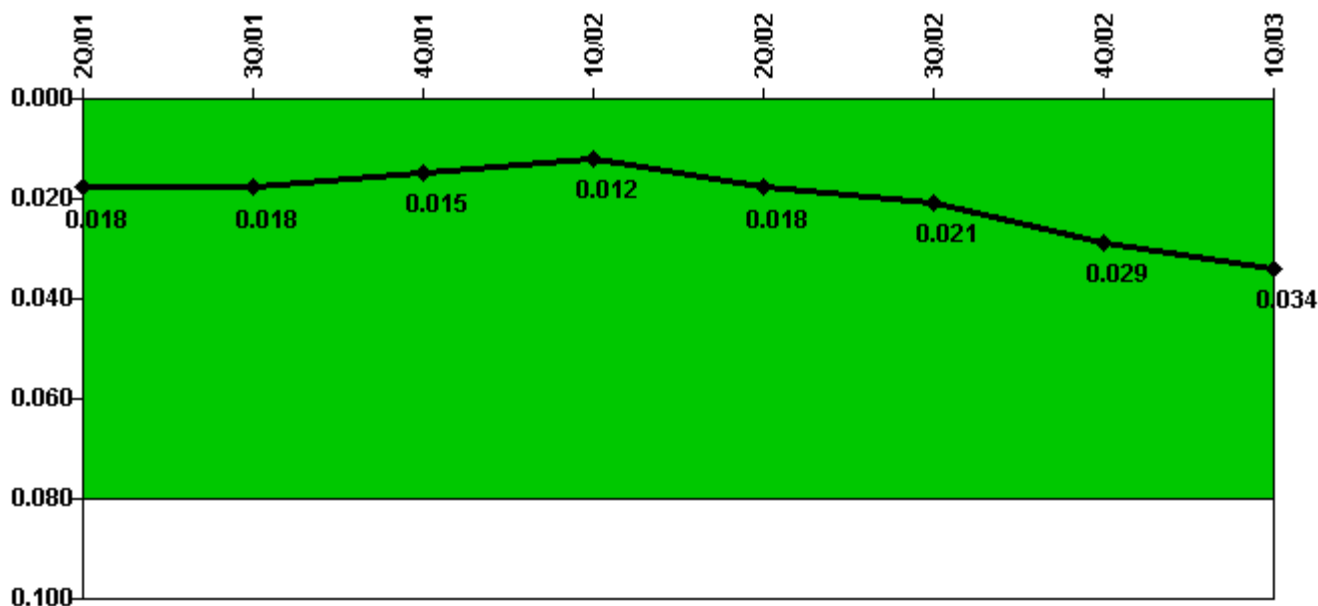
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
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

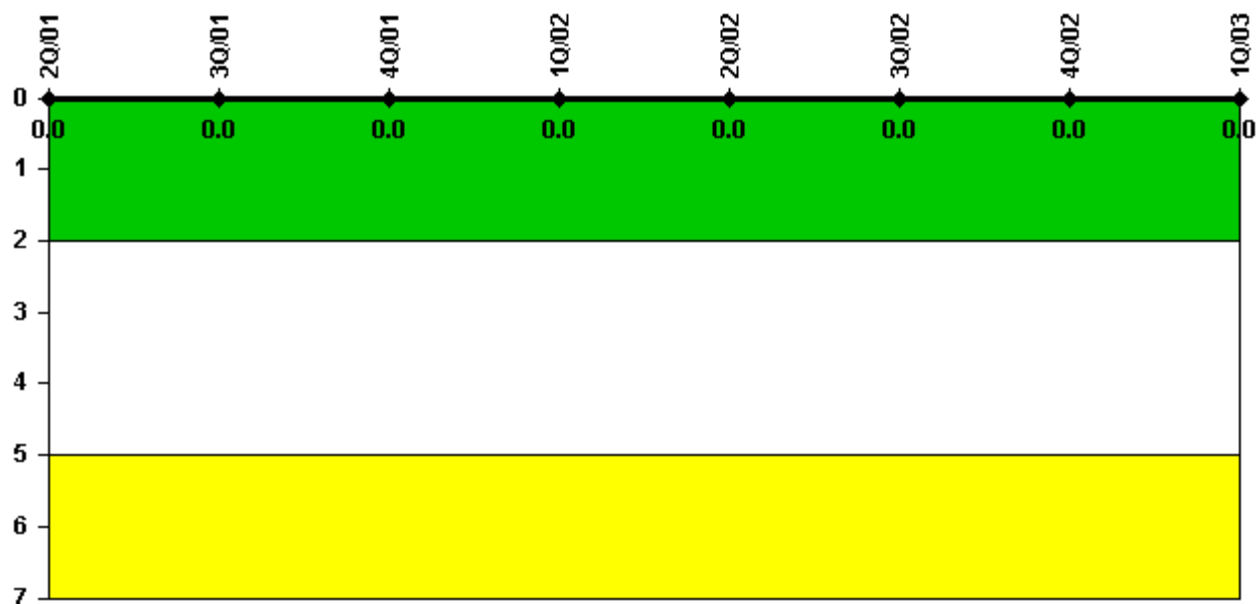
#### Notes

Protected Area Security Performance Index	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
IDS compensatory hours	63.90	61.80	130.60	6.30	218.30	81.30	331.70	14.50
CCTV compensatory hours	5.1	6.7	1.5	1.1	12.6	35.4	2.5	85.6
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	0.018	0.018	0.015	0.012	0.018	0.021	0.029	0.034

Licensee Comments: none



### Personnel Screening Program



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
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/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
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: April 22, 2003