

# Three Mile Island 1

## 1Q/2002 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



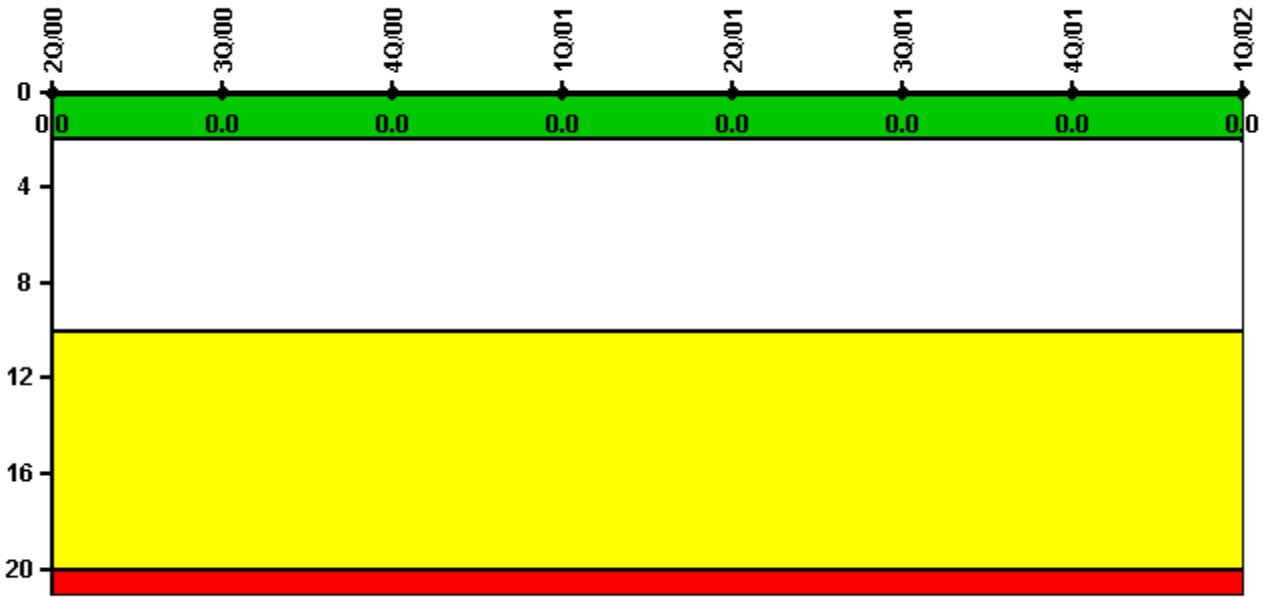
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	0	0	0	0	0
Critical hours	2183.0	2208.0	2209.0	2160.0	2152.7	2208.0	852.1	2160.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



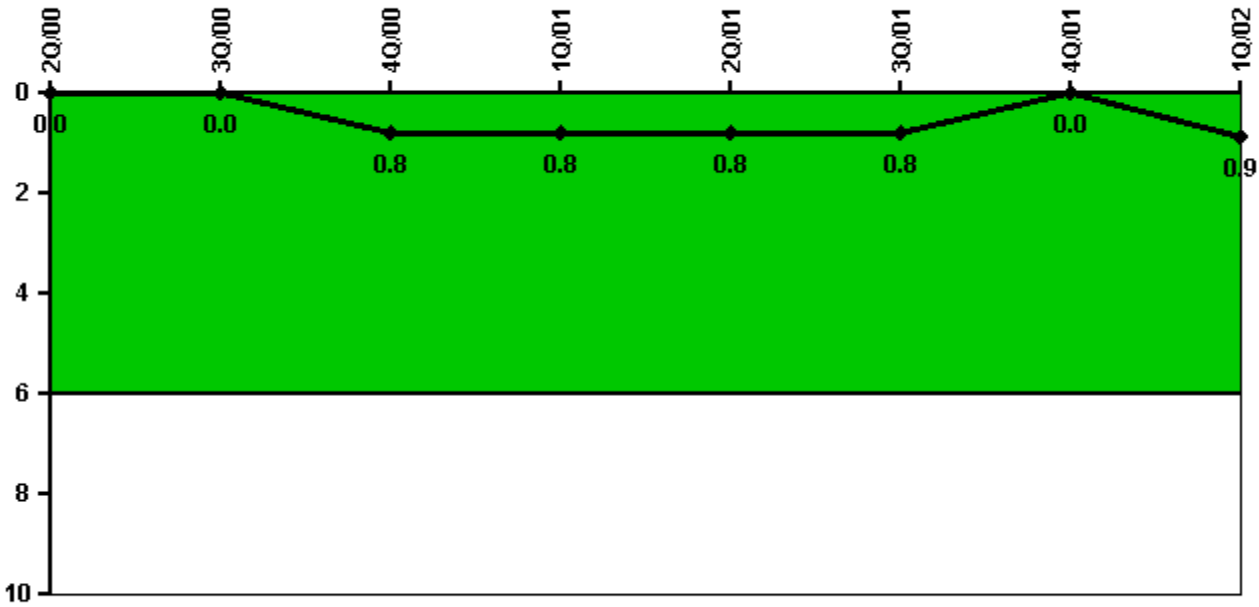
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	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	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	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	0	0	1.0	0	0	0	0	1.0
Critical hours	2183.0	2208.0	2209.0	2160.0	2153.0	2208.0	852.1	2160.0
Indicator value	0	0	0.8	0.8	0.8	0.8	0	0.9

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power



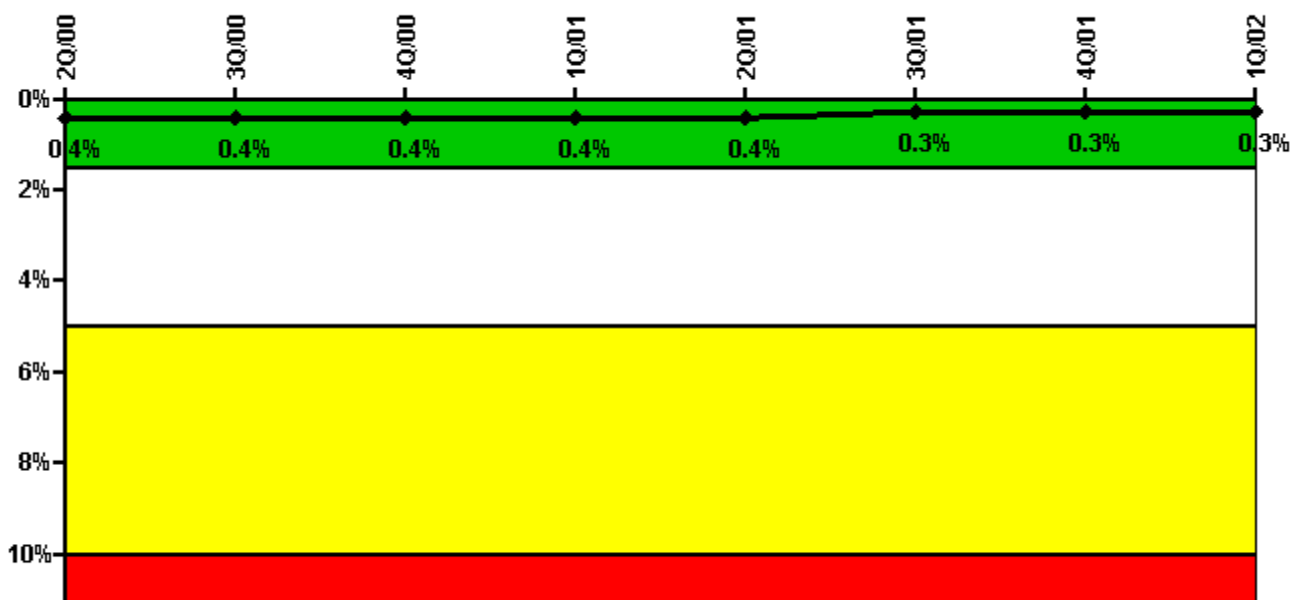
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

#### 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	13.10	8.05	11.58	14.62	17.93	9.50	3.75	10.47
Unplanned unavailable hours	2.33	8.32	15.68	3.00	0	0	0	32.35
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	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Train 2</b>								
Planned unavailable hours	6.07	15.81	17.00	7.53	15.46	9.15	6.04	10.22
Unplanned unavailable hours	9.25	0	0	0	10.25	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	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	0.7%	0.7%	0.7%	0.7%	0.7%	0.6%	0.6%	0.7%

Licensee Comments: none

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



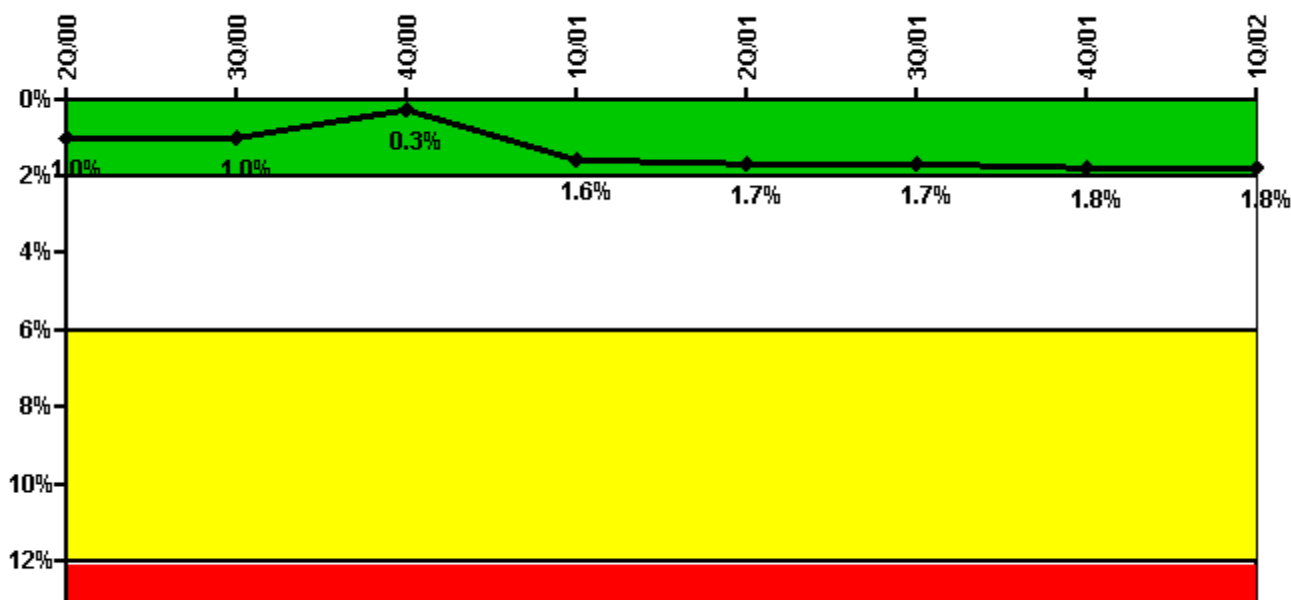
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### 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	0	0.07	0.89	0.40	1.20	0	0	8.00
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	2183.00	2208.00	2209.00	2160.00	2152.70	2208.00	852.13	2160.00
<b>Train 2</b>								
Planned unavailable hours	0.14	43.55	0	0	0.05	0.48	0	0.65
Unplanned unavailable hours	0	0	0	0	0	0	0	5.05
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	2209.00	2160.00	2152.70	2208.00	852.13	2160.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.3%	0.3%	0.3%

Licensee Comments: none

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



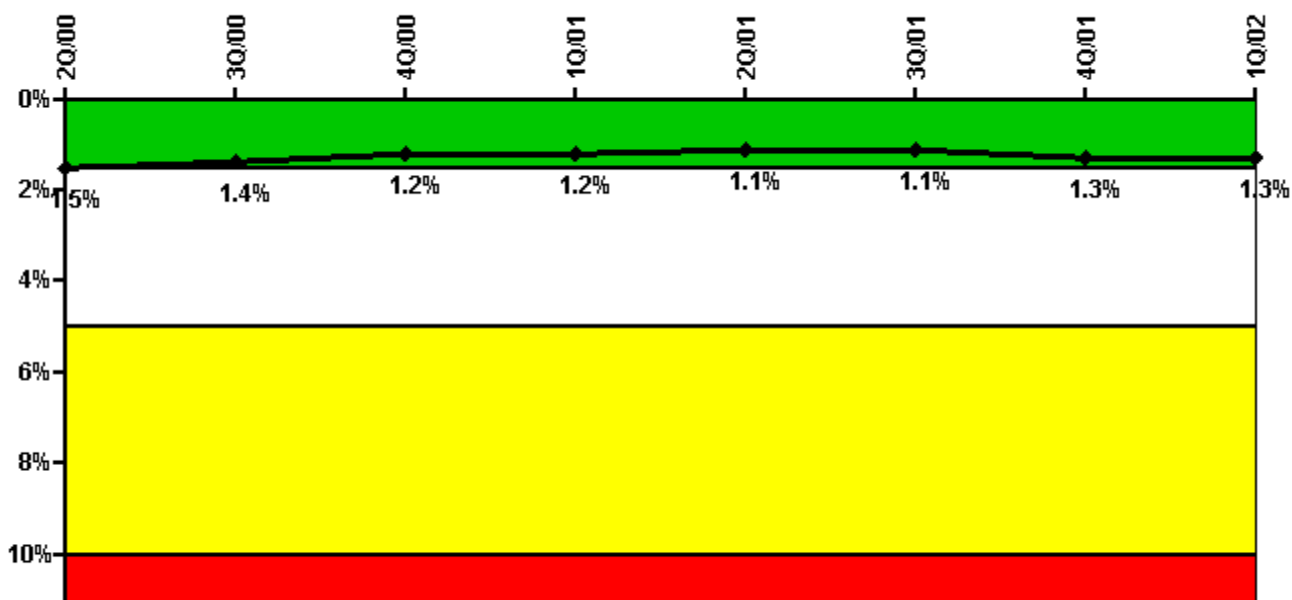
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

#### 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	3.55	6.73	7.58	49.10	16.41	13.71	6.37	9.37
Unplanned unavailable hours	0	0	0	14.75	0	2.44	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	2209.00	2160.00	2152.70	2208.00	852.13	2160.00
<b>Train 2</b>								
Planned unavailable hours	1.67	19.92	3.40	4.19	13.99	4.97	4.75	0.33
Unplanned unavailable hours	0	0	0	0	0	50.66	0	0
Fault exposure hours	0	0	0	932.28	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2152.70	2208.00	852.13	2160.00
<b>Train 3</b>								
Planned unavailable hours	1.23	1.94	2.08	1.83	31.43	3.26	0.45	0.22
Unplanned unavailable hours	0	0	0	0	0	0.40	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	524.55	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2152.70	2208.00	852.13	2160.00
<b>Indicator value</b>	<b>1.0%</b>	<b>1.0%</b>	<b>0.3%</b>	<b>1.6%</b>	<b>1.7%</b>	<b>1.7%</b>	<b>1.8%</b>	<b>1.8%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



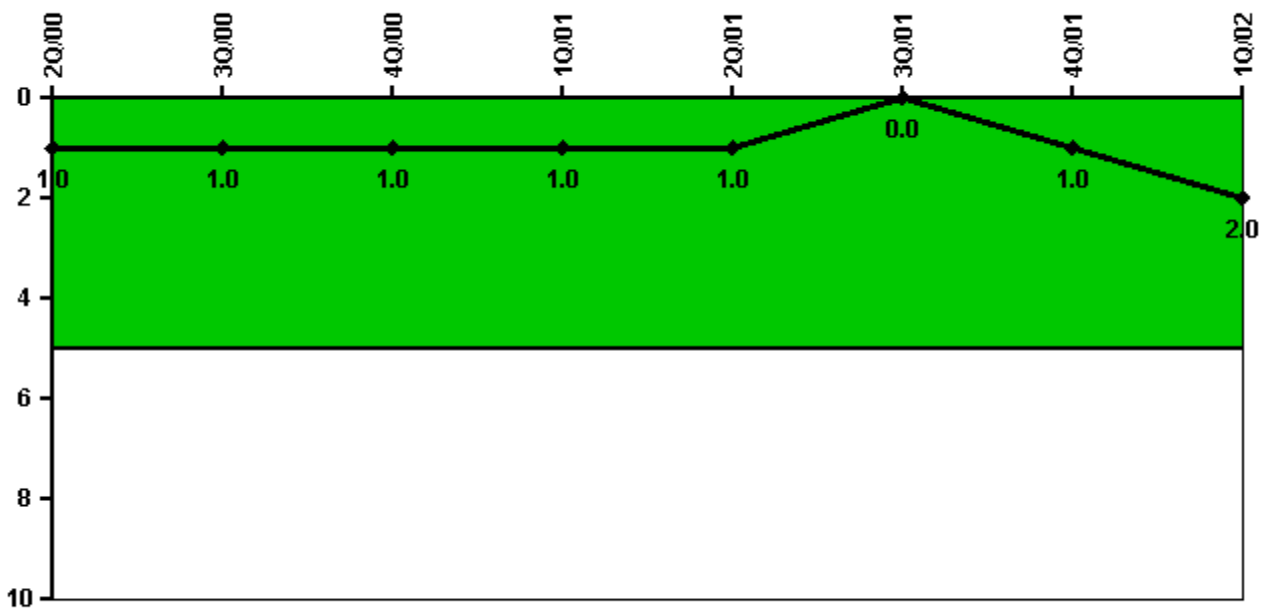
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Residual Heat Removal System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
<b>Train 1</b>								
Planned unavailable hours	65.62	6.54	12.37	12.02	13.90	35.79	10.30	20.72
Unplanned unavailable hours	0	0	0	4.57	0	0	35.25	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	2209.00	2160.00	2183.00	2208.00	2170.02	2160.00
<b>Train 2</b>								
Planned unavailable hours	18.39	61.92	9.52	9.53	12.57	34.44	7.91	35.65
Unplanned unavailable hours	0	0	0	0	0	0	82.33	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	2209.00	2160.00	2183.00	2208.00	2170.02	2160.00
Indicator value	1.5%	1.4%	1.2%	1.2%	1.1%	1.1%	1.3%	1.3%

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

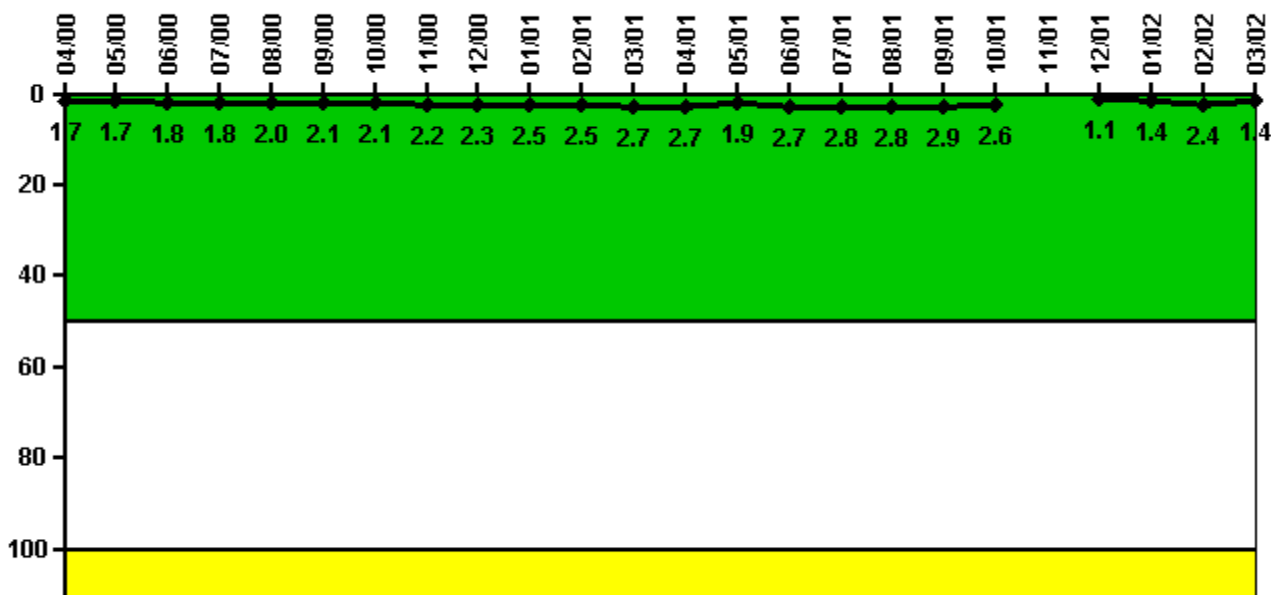
#### Notes

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

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

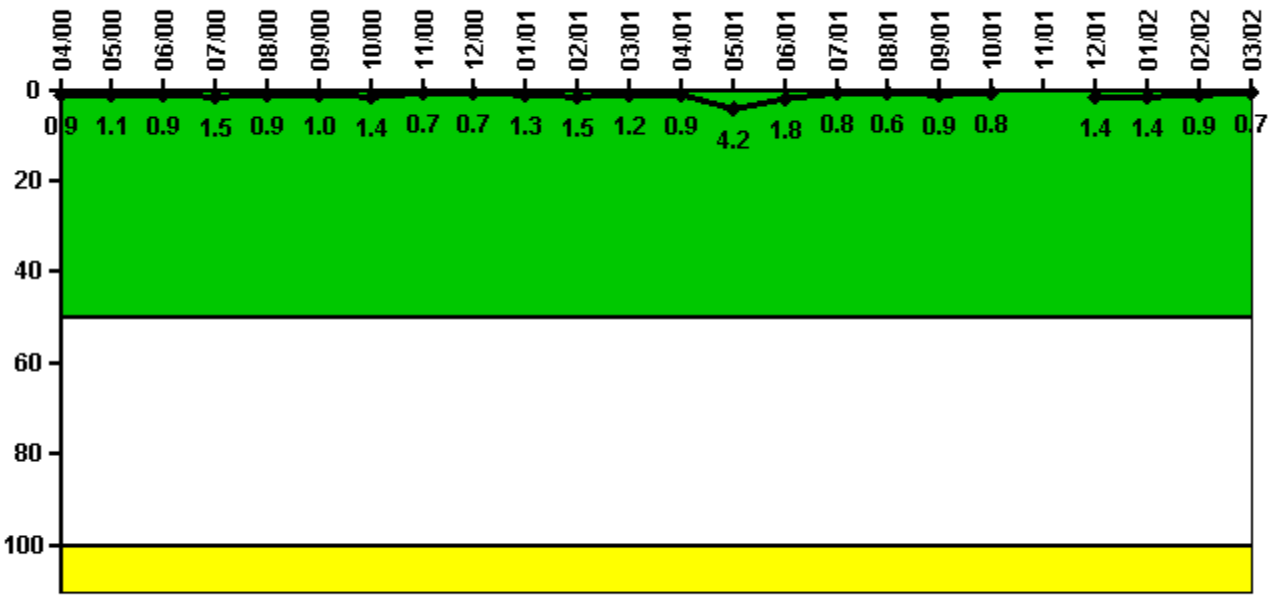
Reactor Coolant System Activity	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.005990	0.005850	0.006170	0.006410	0.007080	0.007410	0.007460	0.007750	0.007890	0.008760	0.008790	0.009280
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	1.7	1.7	1.8	1.8	2.0	2.1	2.1	2.2	2.3	2.5	2.5	2.7

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	0.009330	0.006800	0.009600	0.009800	0.009640	0.010000	0.009110	N/A	0.003710	0.004750	0.008440	0.005020
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	2.7	1.9	2.7	2.8	2.8	2.9	2.6	N/A	1.1	1.4	2.4	1.4

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

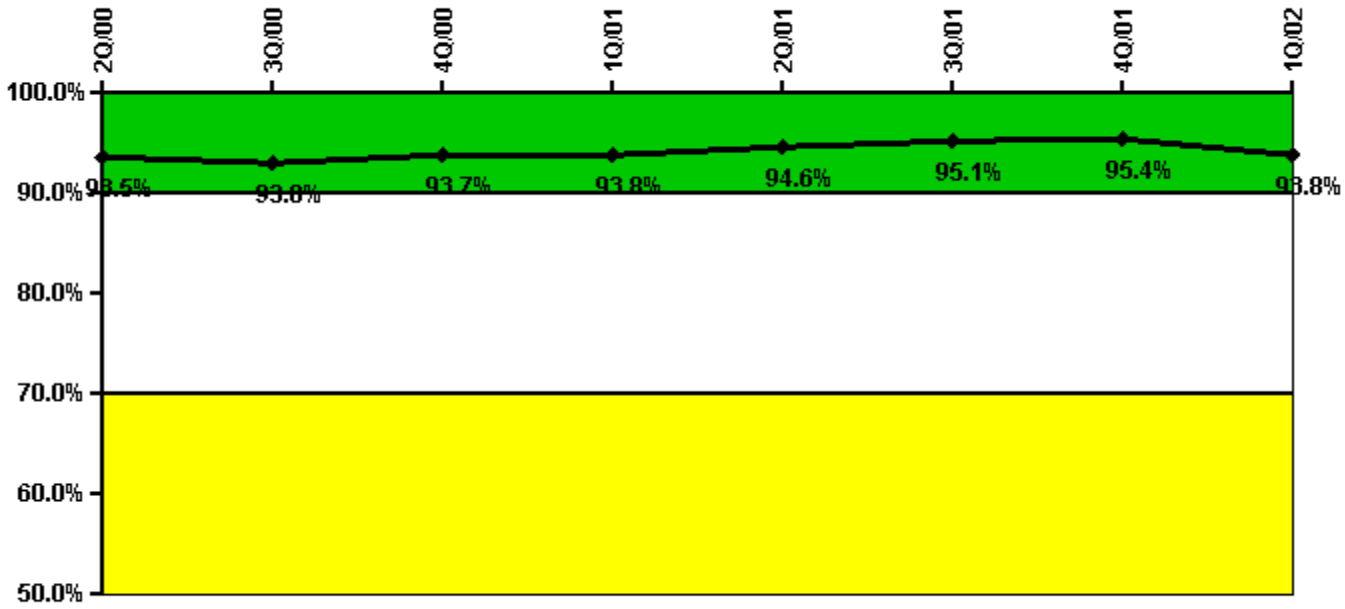
Reactor Coolant System Leakage	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.086	0.113	0.087	0.147	0.085	0.104	0.141	0.075	0.067	0.130	0.148	0.118
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	1.1	0.9	1.5	0.9	1.0	1.4	0.7	0.7	1.3	1.5	1.2

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	0.092	0.420	0.178	0.076	0.061	0.093	0.078	N/A	0.142	0.143	0.093	0.068
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	4.2	1.8	0.8	0.6	0.9	0.8	N/A	1.4	1.4	0.9	0.7

Licensee Comments: none

### Drill/Exercise Performance



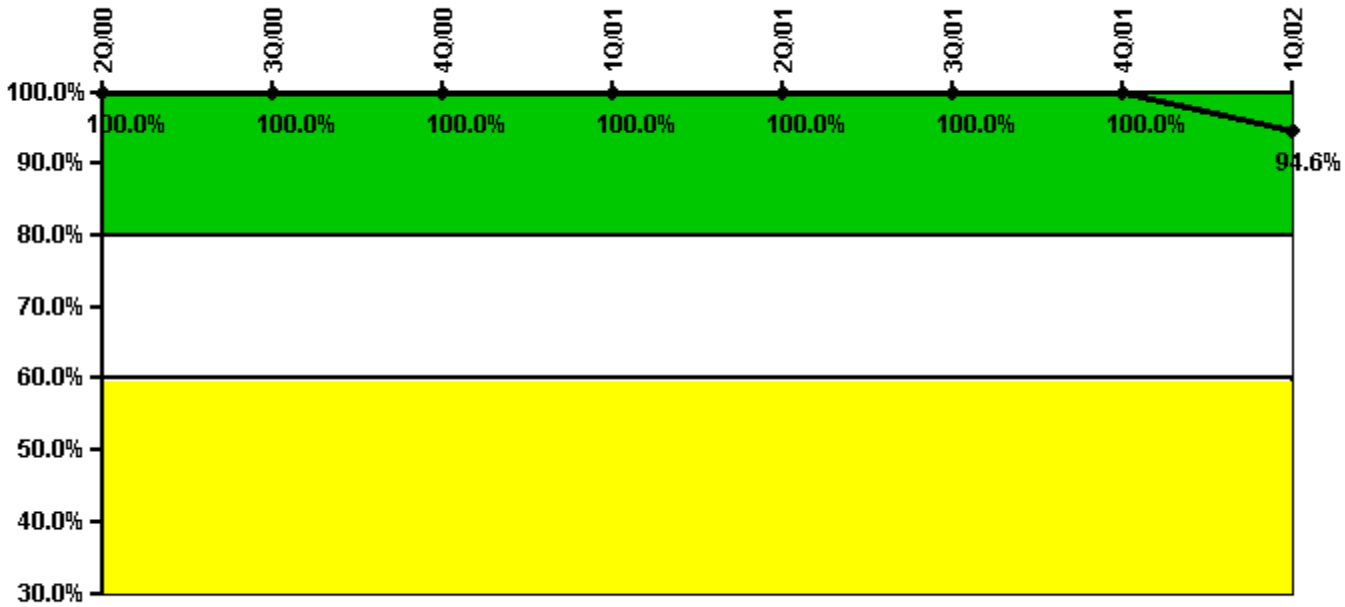
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful opportunities	38.0	10.0	12.0	16.0	21.0	16.0	0	7.0
Total opportunities	41.0	12.0	12.0	17.0	22.0	16.0	0	8.0
Indicator value	93.5%	93.0%	93.7%	93.8%	94.6%	95.1%	95.4%	93.8%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

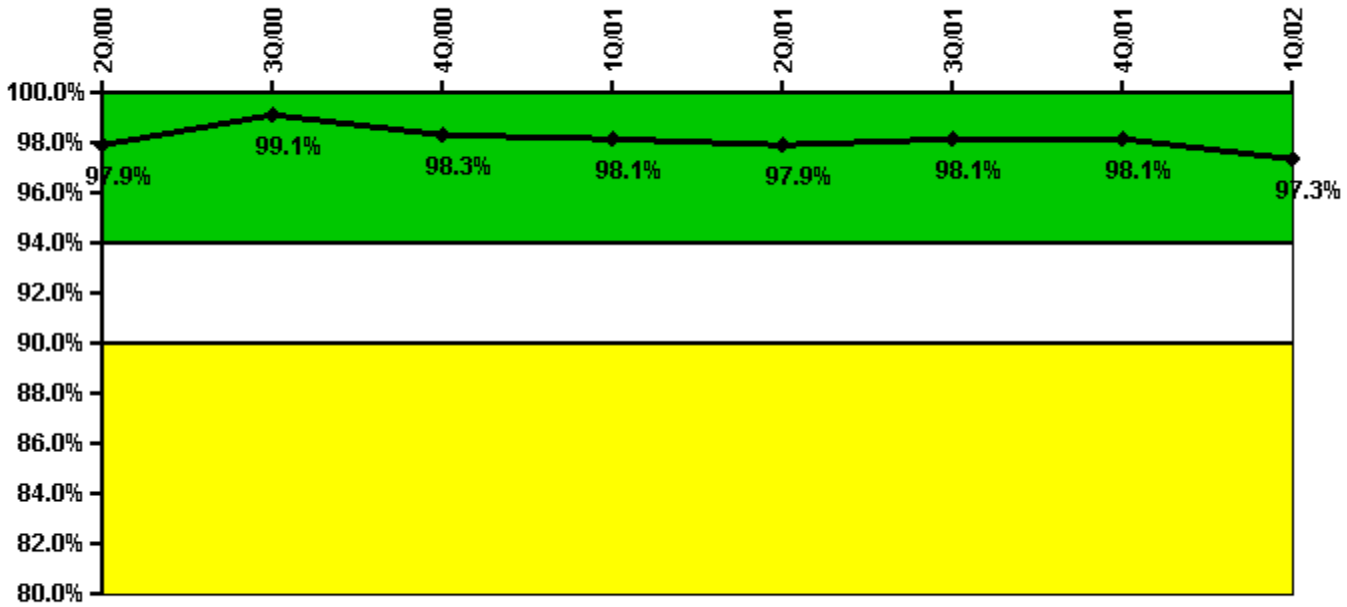
#### Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	46.0	49.0	48.0	45.0	45.0	42.0	39.0	35.0
Total Key personnel	46.0	49.0	48.0	45.0	45.0	42.0	39.0	37.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	94.6%

Licensee Comments:

4Q/01: A review of the number of key ERO members available at the end of the 4th quarter 2001 identified the number was reduced from 40 previously reported to 39. All 39 key ERO members participated in drills, exercises or actual events in the past 8 quarters. The indicator color (Green) is unchanged.

### Alert & Notification System



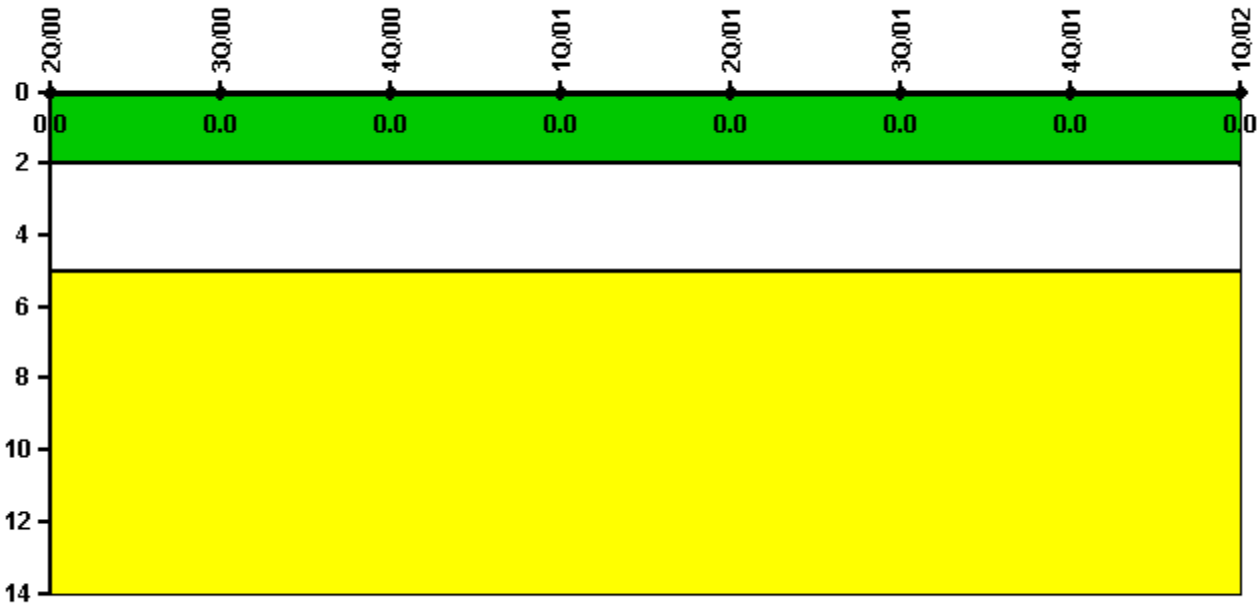
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful siren-tests	551	620	686	623	855	1090	1152	1055
Total sirens-tests	553	632	711	632	869	1106	1185	1106
Indicator value	97.9%	99.1%	98.3%	98.1%	97.9%	98.1%	98.1%	97.3%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



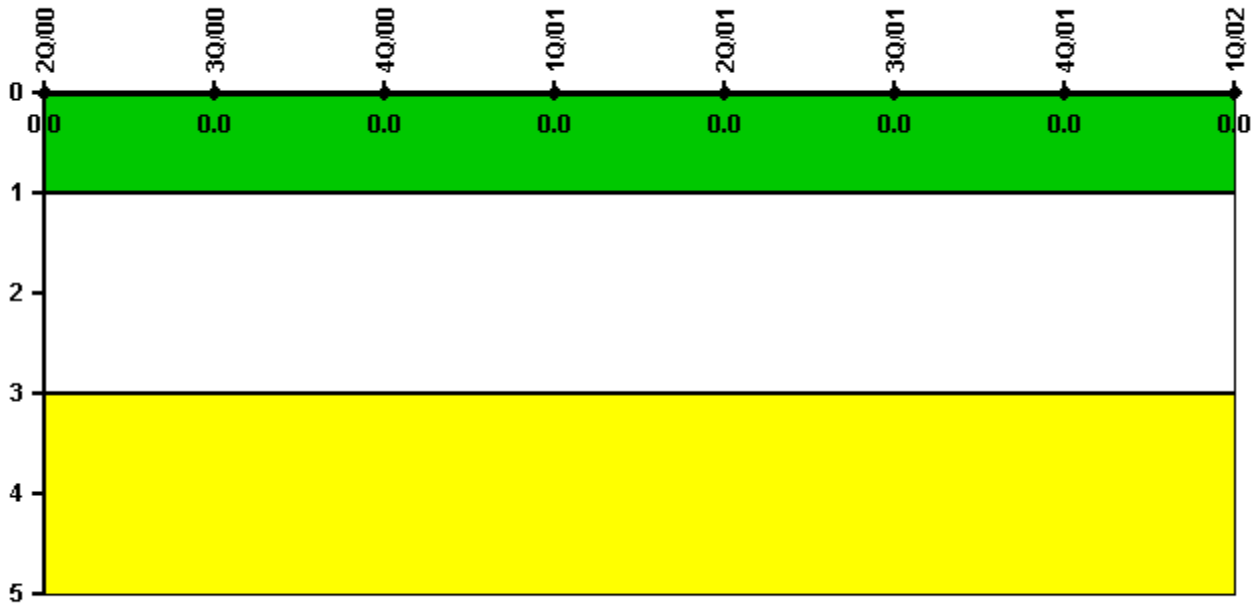
Thresholds: White > 2.0 Yellow > 5.0

#### 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



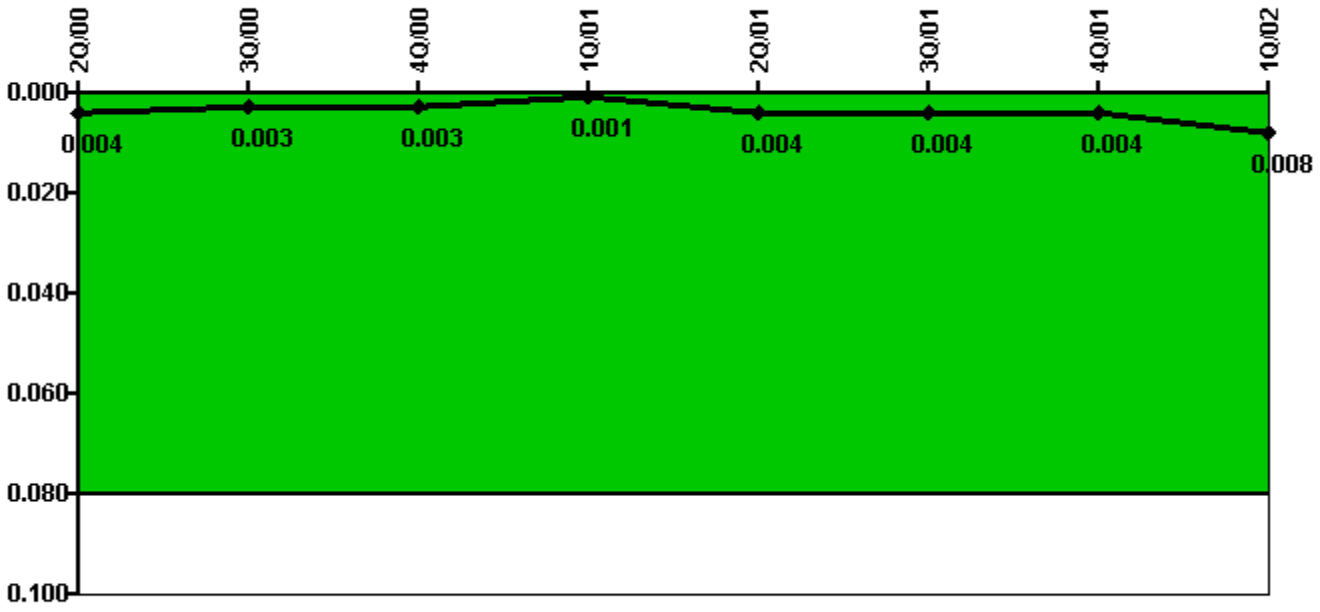
Thresholds: White > 1.0 Yellow > 3.0

#### 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

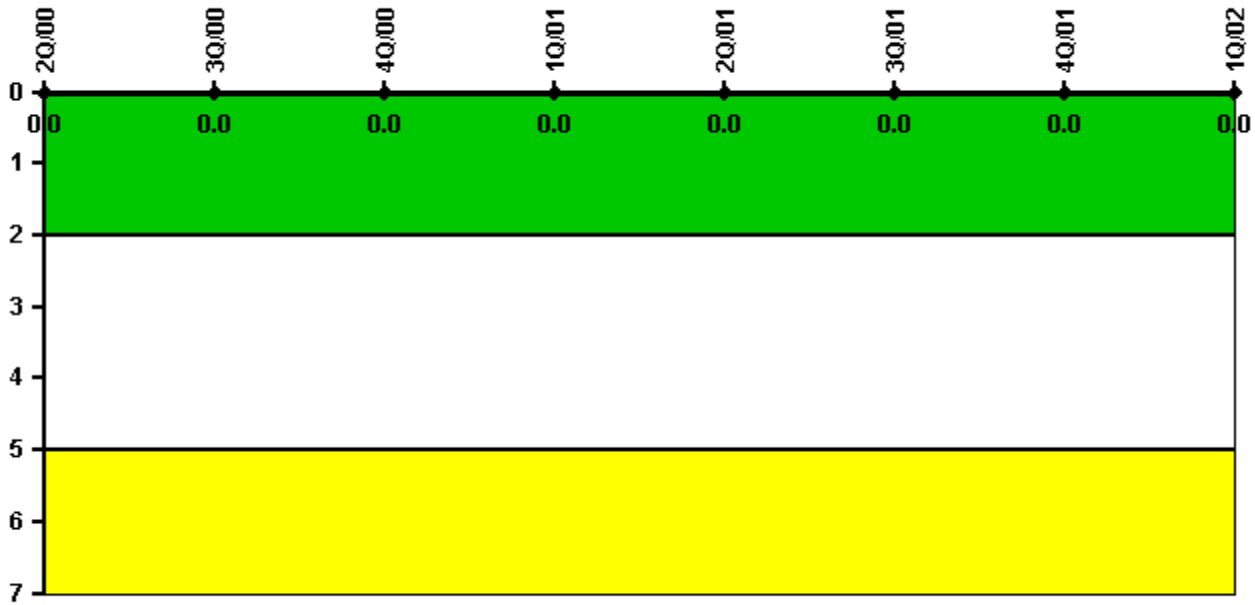
#### Notes

Protected Area Security Performance Index	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
IDS compensatory hours	12.96	0.02	14.12	0	56.73	16.55	0	96.07
CCTV compensatory hours	1.1	1.8	0	0	6.3	0	0	0
IDS normalization factor	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.004	0.003	0.003	0.001	0.004	0.004	0.004	0.008

Licensee Comments: none



### Personnel Screening Program



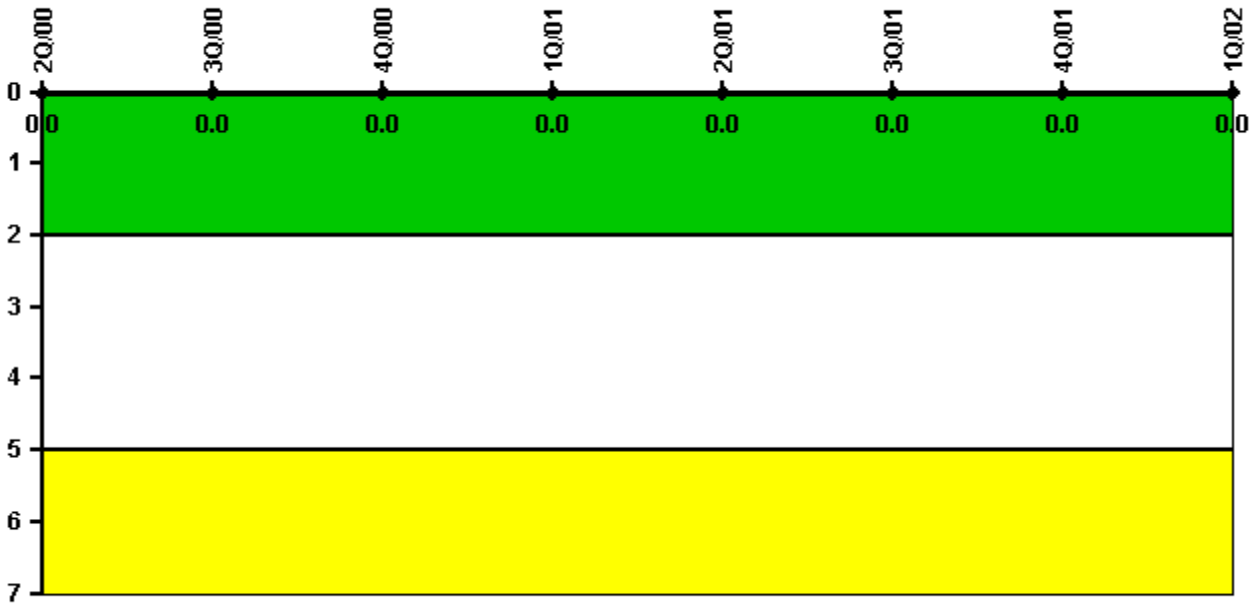
Thresholds: White > 2.0 Yellow > 5.0

#### 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