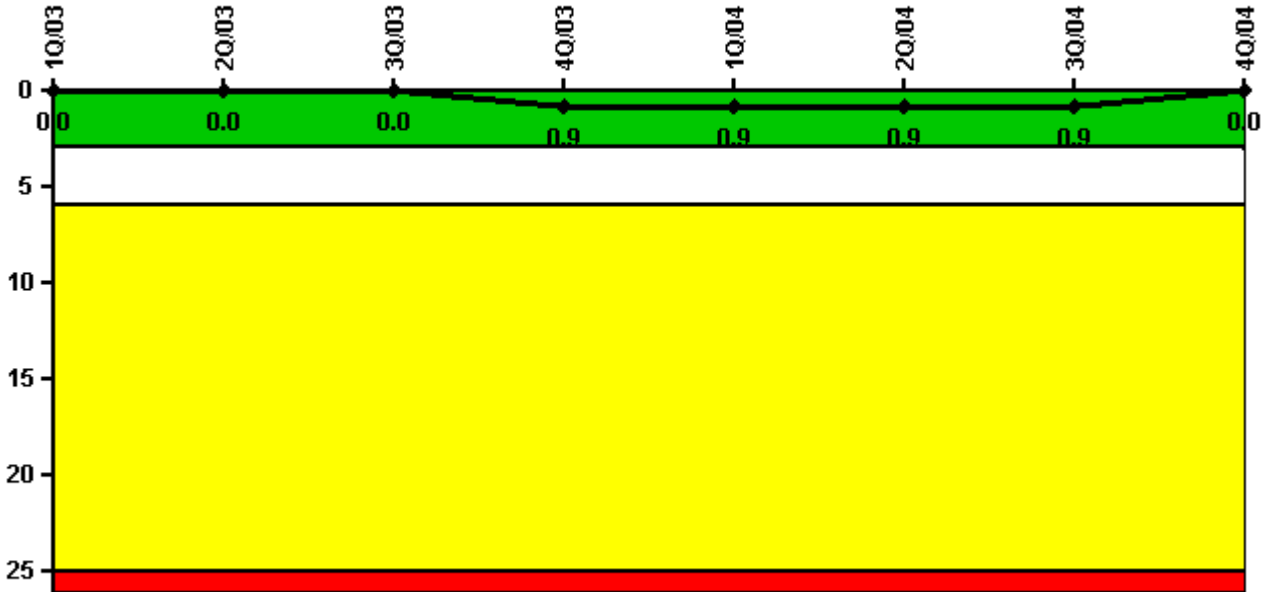


# Seabrook 1

## 4Q/2004 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



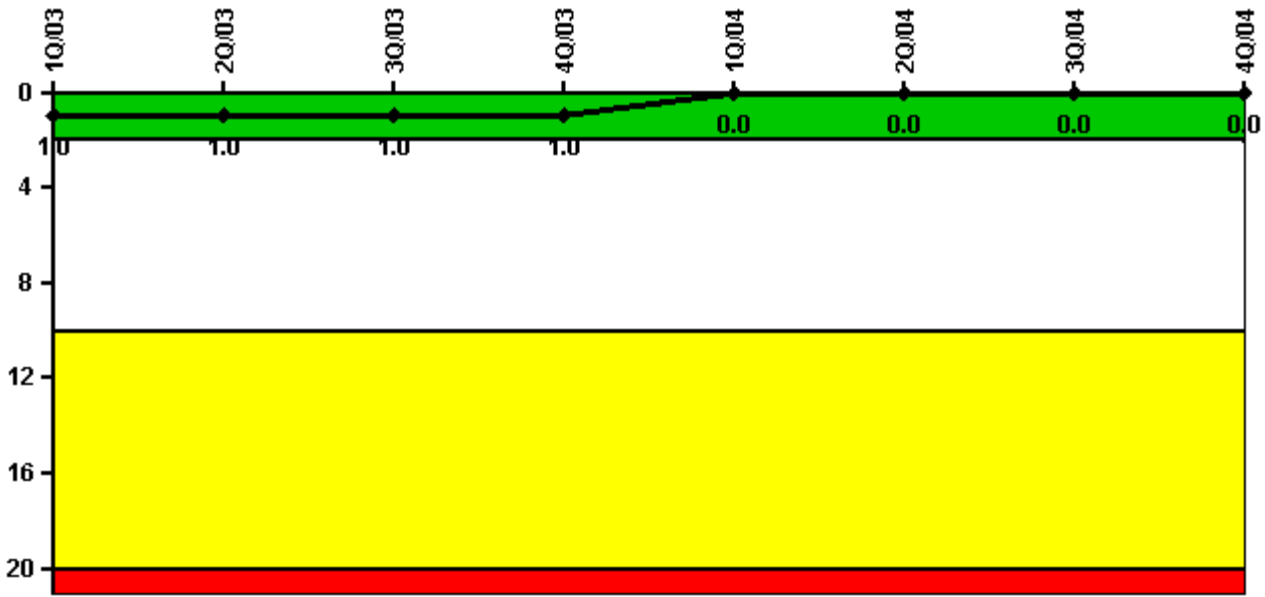
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	1644.2	2184.0	2183.0	2208.0	2209.0
Indicator value	0	0	0	0.9	0.9	0.9	0.9	0

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



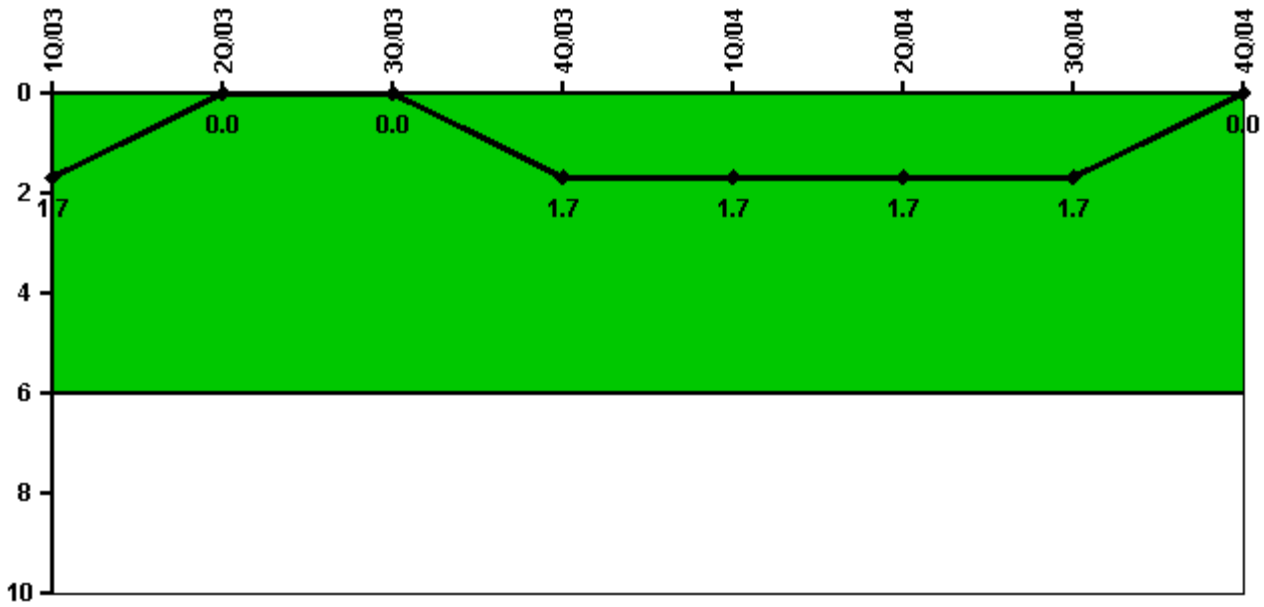
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	0	0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



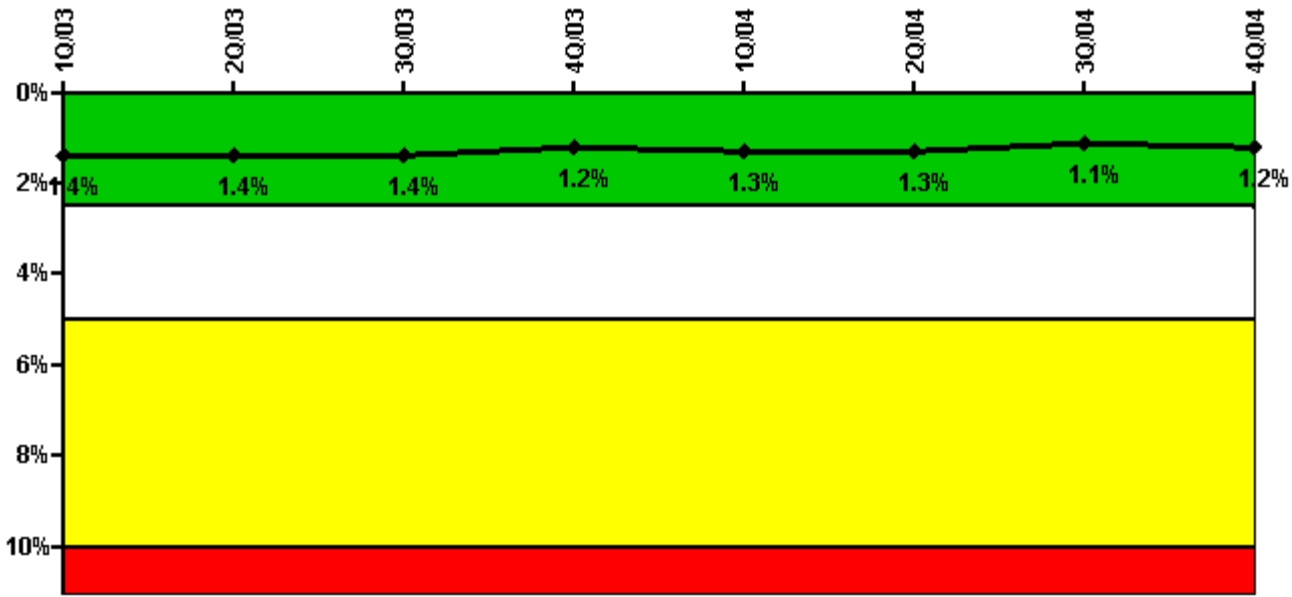
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned power changes	0	0	0	2.0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	1644.2	2184.0	2183.0	2208.0	2209.0
Indicator value	1.7	0	0	1.7	1.7	1.7	1.7	0

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power



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

#### Notes

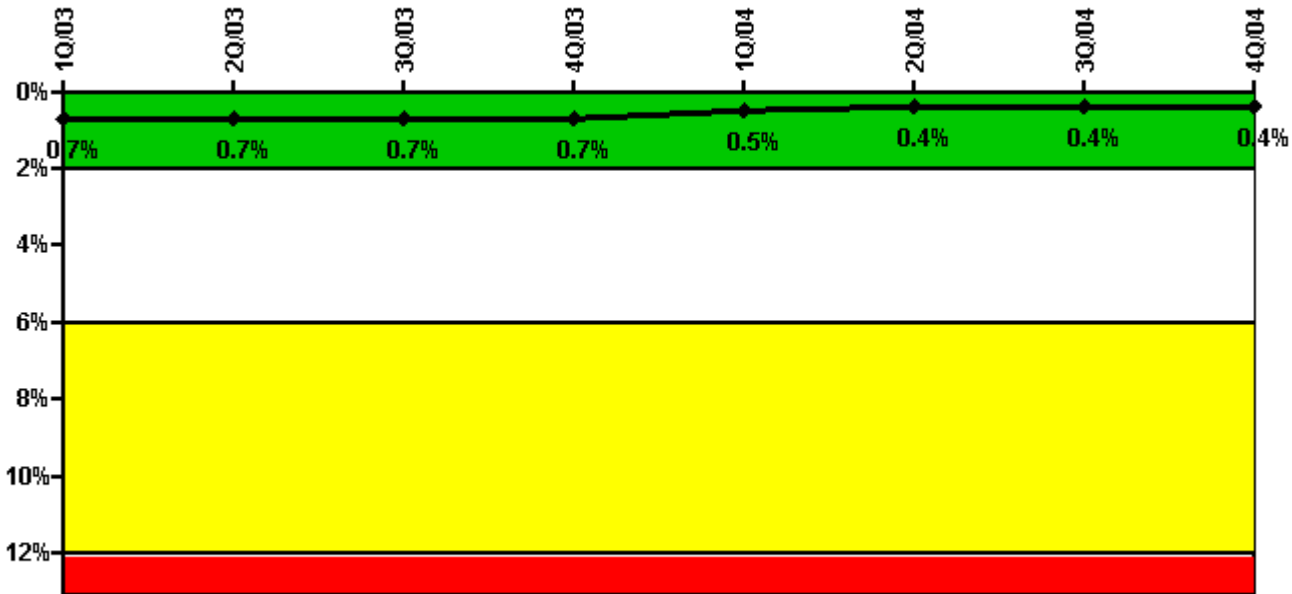
Safety System Unavailability, Emergency AC Power	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
<b>Train 1</b>								
Planned unavailable hours	3.53	36.33	4.50	3.43	6.48	31.42	1.63	3.37
Unplanned unavailable hours	0	35.47	0	13.55	17.03	18.28	0.63	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1966.00	2184.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	17.93	3.17	25.30	1.98	29.32	10.19	5.47	37.18
Unplanned unavailable hours	0	0	7.87	0	0	4.98	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	2160.00	2183.00	2208.00	1966.00	2184.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>1.4%</b>	<b>1.4%</b>	<b>1.4%</b>	<b>1.2%</b>	<b>1.3%</b>	<b>1.3%</b>	<b>1.1%</b>	<b>1.2%</b>

Licensee Comments: none



Licensee Comments: none

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



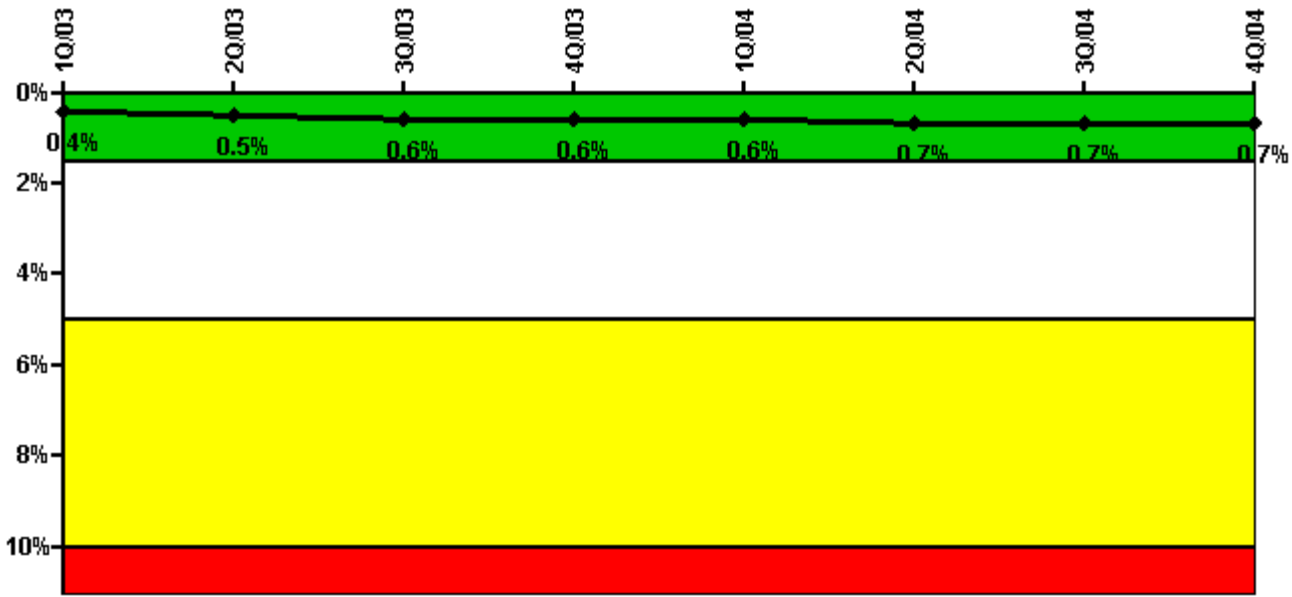
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

#### Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
<b>Train 1</b>								
Planned unavailable hours	5.93	3.22	3.21	5.49	3.56	13.08	10.97	24.08
Unplanned unavailable hours	0	0	0	14.78	0	8.03	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	2160.00	2183.00	2208.00	1694.50	2184.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	4.32	6.22	1.62	4.10	2.22	1.60	4.27	16.98
Unplanned unavailable hours	0	0	0	11.61	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	2160.00	2183.00	2208.00	1694.50	2184.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.5%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



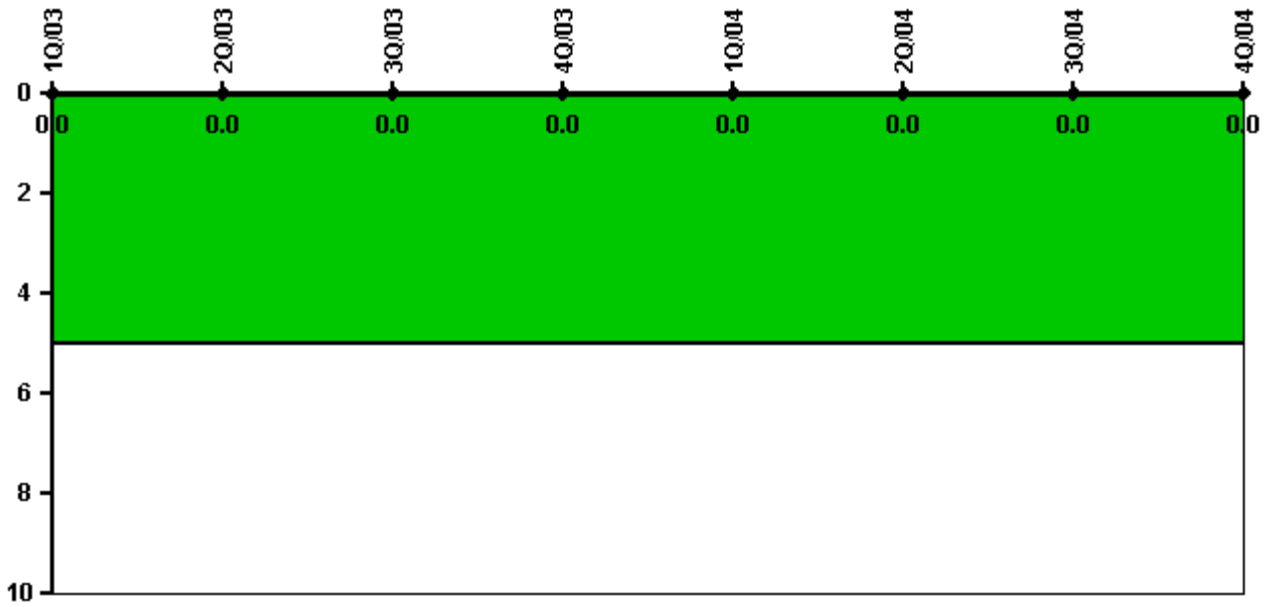
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, Residual Heat Removal System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
<b>Train 1</b>								
Planned unavailable hours	12.27	26.91	29.49	5.30	6.54	40.93	7.67	39.81
Unplanned unavailable hours	0	0.08	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	2160.00	2183.00	2208.00	1983.60	2184.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	4.00	9.02	24.69	1.28	25.50	20.39	4.52	4.94
Unplanned unavailable hours	0.03	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	2160.00	2183.00	2208.00	1983.60	2184.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

#### Notes

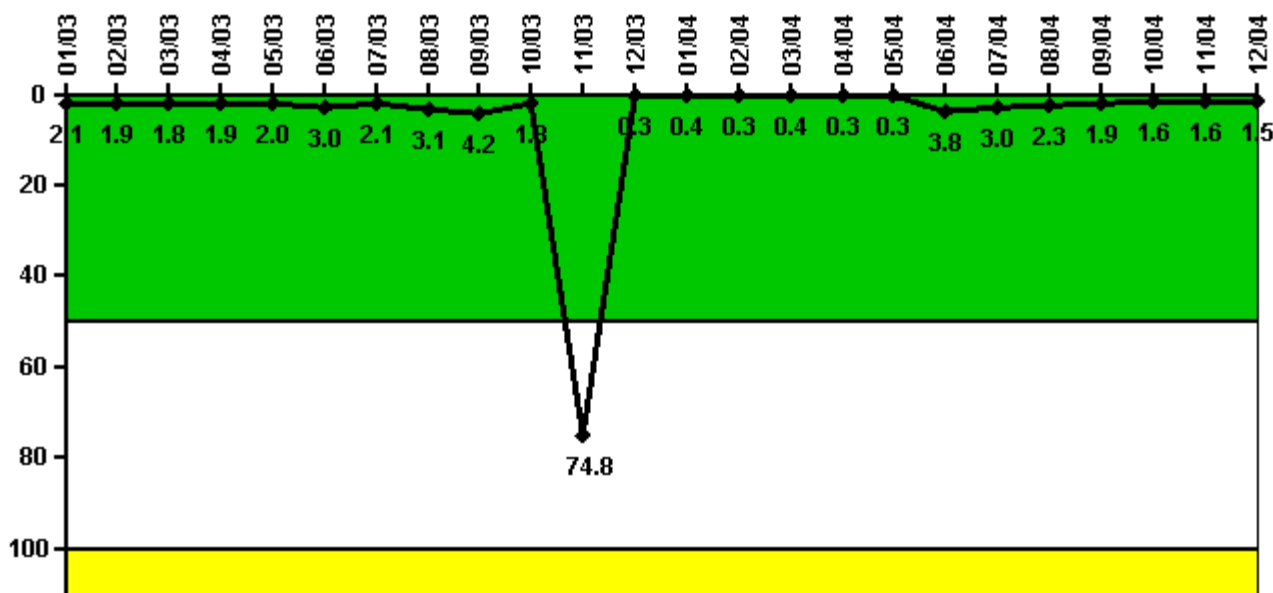
Safety System Functional Failures (PWR)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none





### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

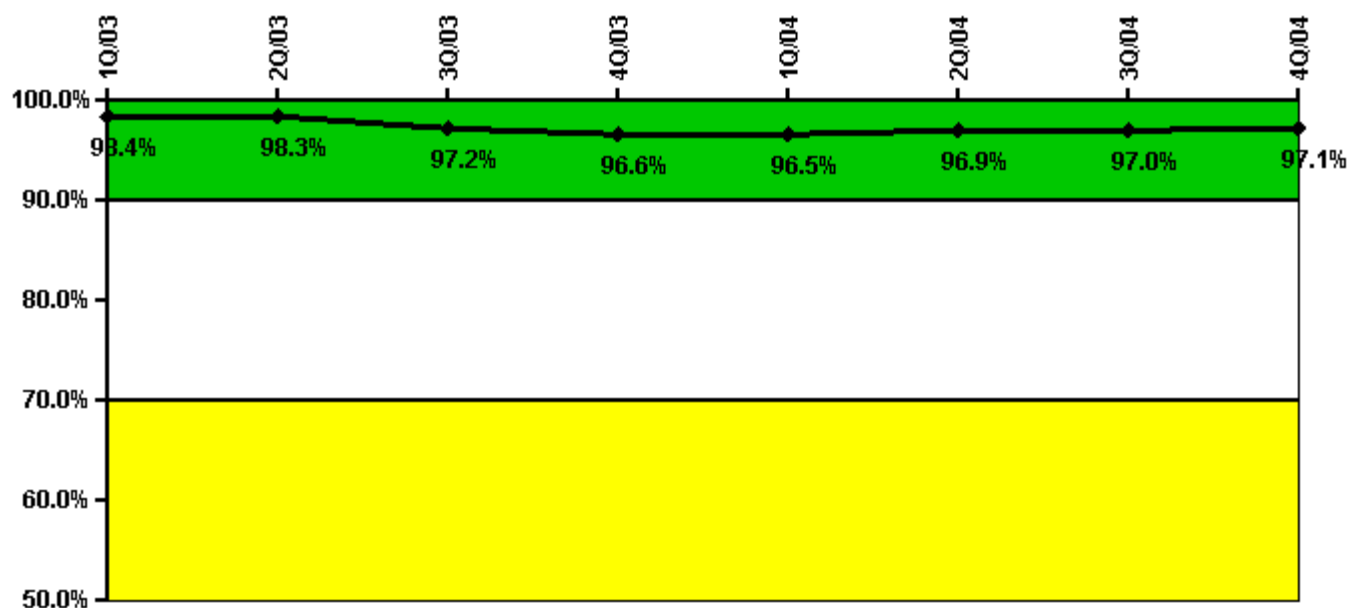
#### Notes

Reactor Coolant System Leakage	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum leakage	0.210	0.190	0.180	0.190	0.200	0.300	0.210	0.310	0.420	0.180	7.478	0.030
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	2.1	1.9	1.8	1.9	2.0	3.0	2.1	3.1	4.2	1.8	74.8	0.3
Reactor Coolant System Leakage	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum leakage	0.040	0.030	0.040	0.030	0.030	0.380	0.300	0.230	0.190	0.161	0.157	0.150
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	0.4	0.3	0.4	0.3	0.3	3.8	3.0	2.3	1.9	1.6	1.6	1.5

Licensee Comments:

12/04: The maximum RCS Identified Leak Rate values recorded for the 4th quarter 2004 have been obtained from the Operations Daily Technical Specification logs by reviewing the logs for the highest value recorded during each month. Utilizing this Tech Spec methodology has been determined to be a more accurate assessment of the actual maximum identified RCS leakage. This method will be used for obtaining future quarterly values. The previous method utilized the Main Plant Computer Point C0700, which calculates a 10-hour average RCS leakage rate using values recorded at 15-minute intervals. The highest value for each month was also recorded for this method.

### Drill/Exercise Performance



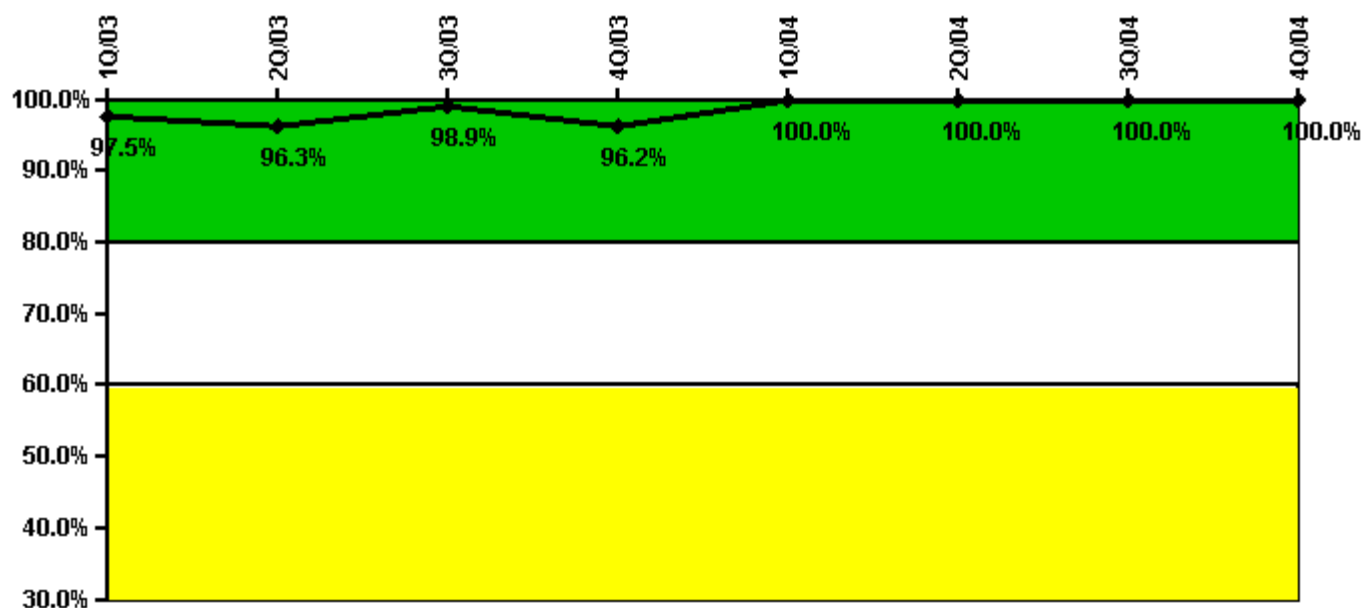
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	18.0	13.0	25.0	21.0	13.0	27.0	34.0	48.0
Total opportunities	19.0	13.0	27.0	23.0	13.0	27.0	34.0	49.0
Indicator value	98.4%	98.3%	97.2%	96.6%	96.5%	96.9%	97.0%	97.1%

Licensee Comments: none

### ERO Drill Participation



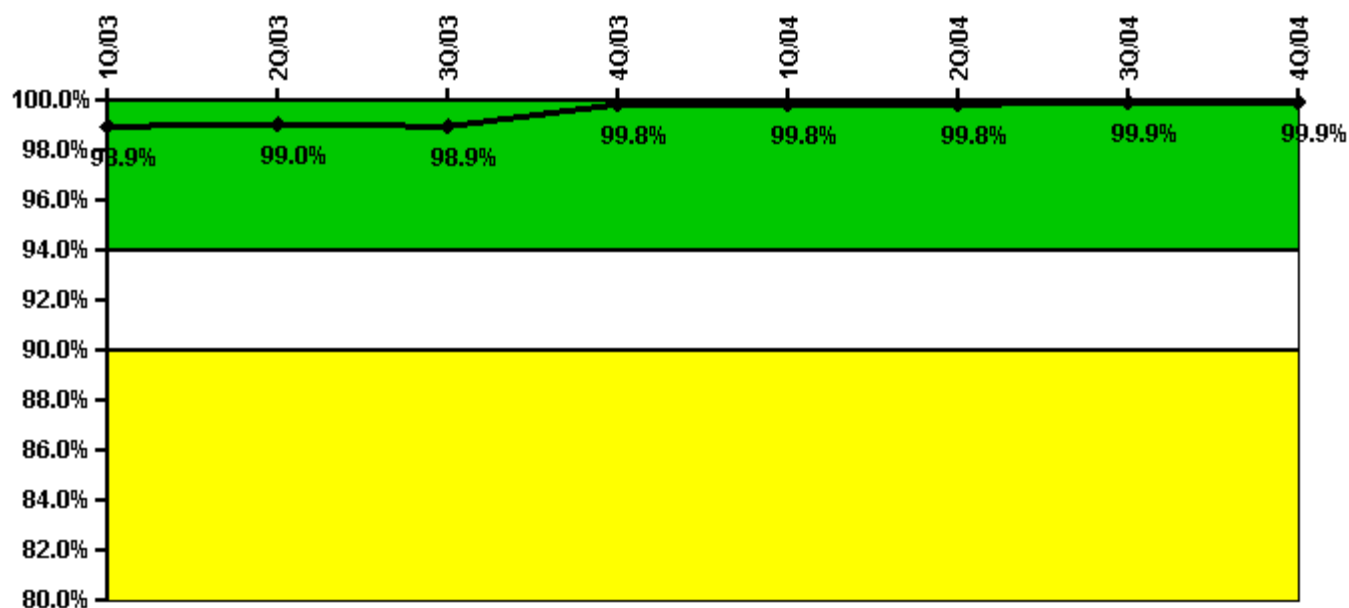
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	79.0	77.0	86.0	75.0	82.0	78.0	78.0	79.0
Total Key personnel	81.0	80.0	87.0	78.0	82.0	78.0	78.0	79.0
Indicator value	97.5%	96.3%	98.9%	96.2%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful siren-tests	724	846	723	846	725	846	725	846
Total sirens-tests	726	847	726	847	726	847	726	847
Indicator value	98.9%	99.0%	98.9%	99.8%	99.8%	99.8%	99.9%	99.9%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
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
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Physical Protection](#) information not publicly available.

▲ [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 9, 2005