

# Braidwood 1

## 2Q/2004 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



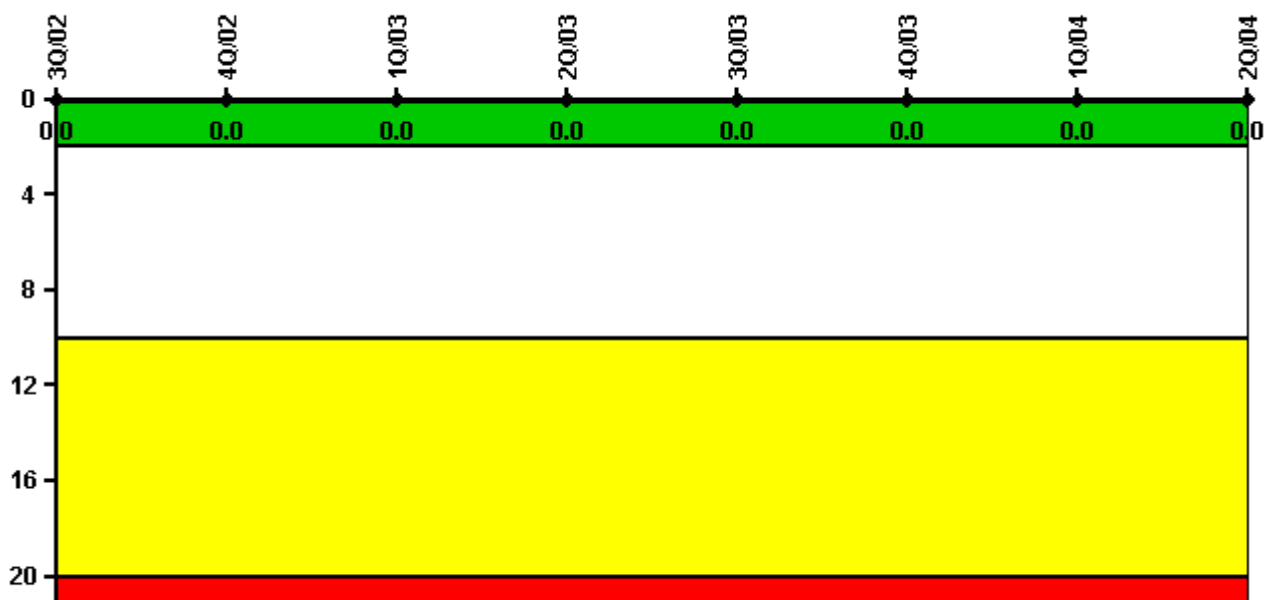
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2160.0	1786.1	2208.0	2209.0	2184.0	2183.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



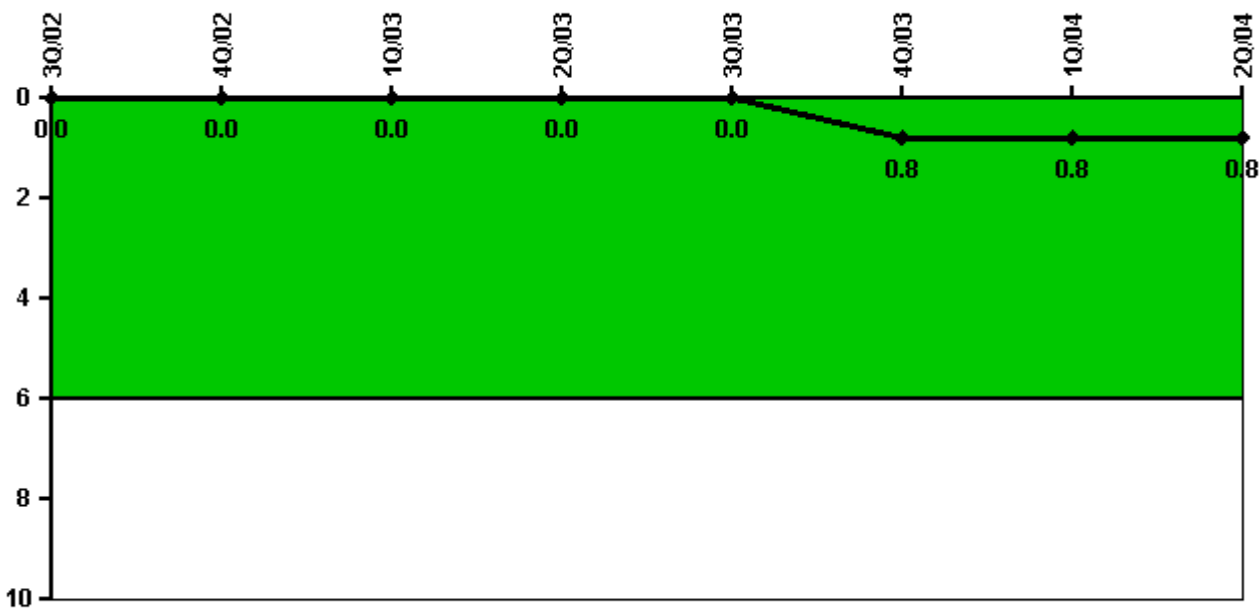
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
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



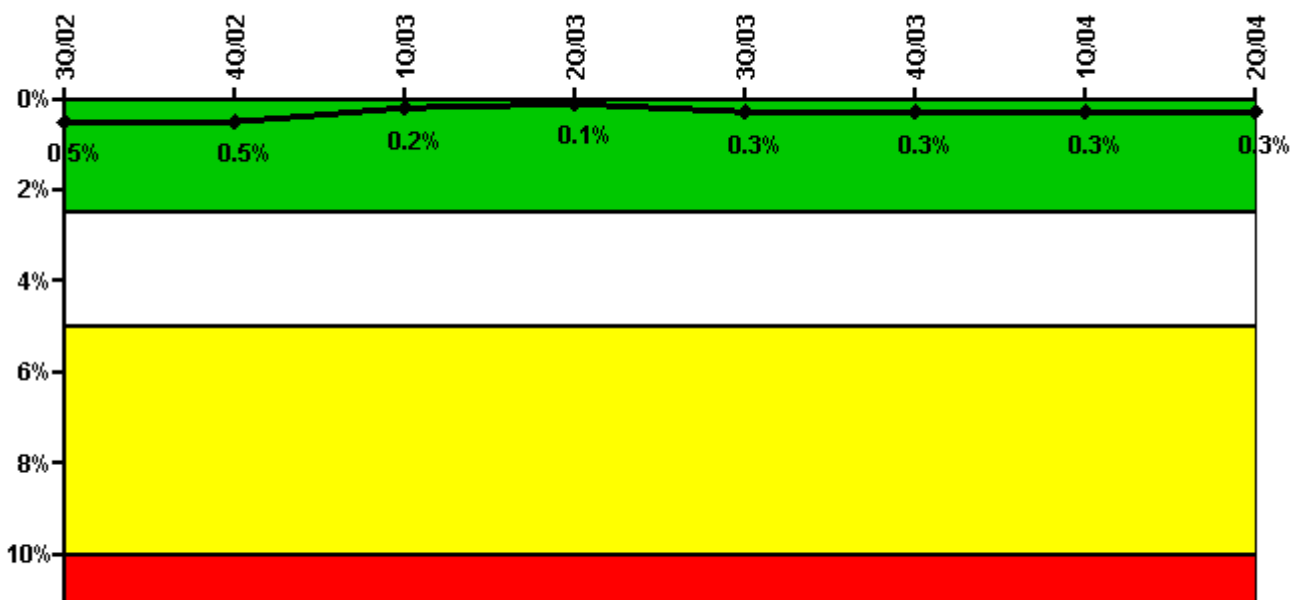
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2160.0	1786.1	2208.0	2209.0	2184.0	2183.0
Indicator value	0	0	0	0	0	0.8	0.8	0.8

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/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
<b>Train 1</b>								
Planned unavailable hours	1.30	2.80	6.60	1.50	94.80	1.27	4.10	2.70
Unplanned unavailable hours	0	0	0	0	9.45	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	2184.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	2.80	1.70	6.10	0.40	2.60	1.40	2.80	2.50
Unplanned unavailable hours	0	0	0.30	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	2184.00	2183.00
<b>Indicator value</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.3%</b>

Licensee Comments:

2Q/03: 2nd Qtr '04 Change File - comments revised. 1B diesel (Train 2) - 102.9 hrs planned unavailability originally reported 6/03. Hours were due to a planned on-line overhaul/inspection which is allowed by NEI 99-02. Therefore, correction submitted 2Q04. Indicator color does not change.

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



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

#### Notes

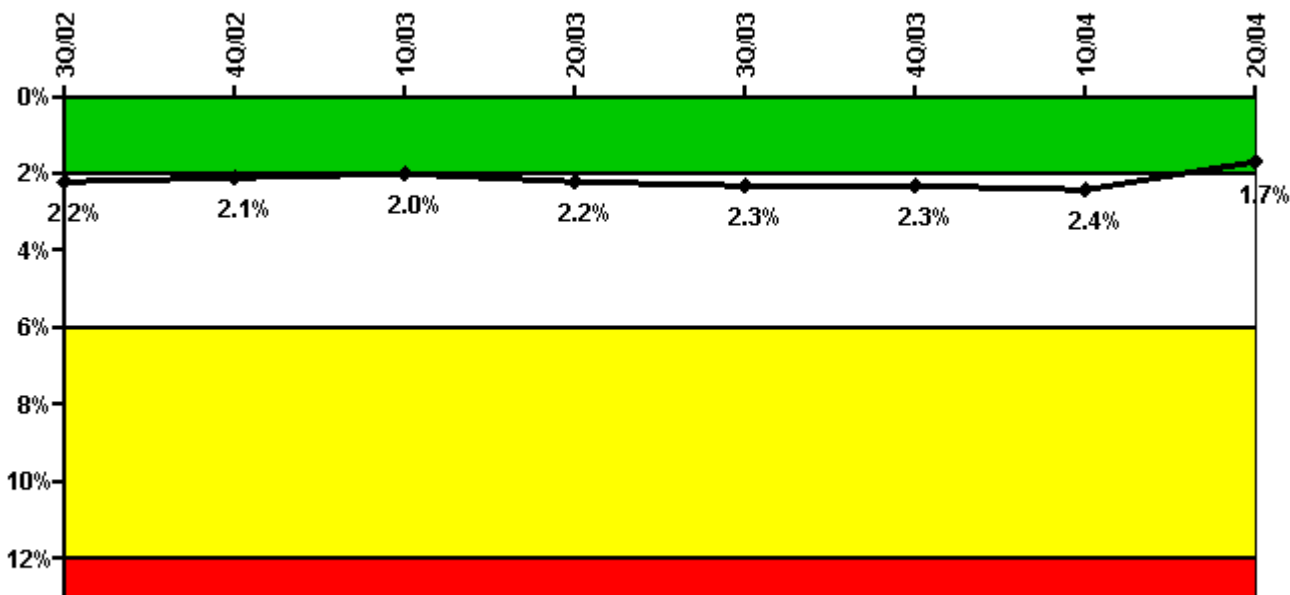
Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
<b>Train 1</b>								
Planned unavailable hours	1.30	2.90	51.30	1.90	2.90	1.60	17.70	2.70
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	1786.10	2208.00	2209.00	2184.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	12.20	9.70	3.70	89.20	20.10	1.40	35.40	2.50
Unplanned unavailable hours	0	0	0	27.70	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	1786.10	2208.00	2209.00	2184.00	2183.00
<b>Train 3</b>								
Planned unavailable hours	1.30	2.80	56.50	42.50	2.80	1.30	28.50	2.90
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	2208.00	2209.00	2160.00	1786.10	2208.00	2209.00	2184.00	2183.00
<b>Train 4</b>								
Planned unavailable hours	2.80	74.40	9.80	0.60	2.80	9.40	49.20	70.00
Unplanned unavailable hours	0	0	1.00	0	0.20	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	1786.10	2208.00	2209.00	2184.00	2183.00
<b>Indicator value</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.8%</b>

Licsee Comments:

2Q/03: 2nd Qtr '04 Change File - comments revised. Review of data determined that 4/03, 0.5 hours of planned unavail. was originally credited to 1A CV train (Train 3), and should have been credited to the 1B CV train (Train 4). Indicator color does not change.

1Q/01: 2nd Qtr '04 change file - comments revised. Review of data review determined that 2/01, 0.1 hours of planned unavailability was over reported for 1B SI (Train 2). Indicator color is not affected.

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



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

#### Notes

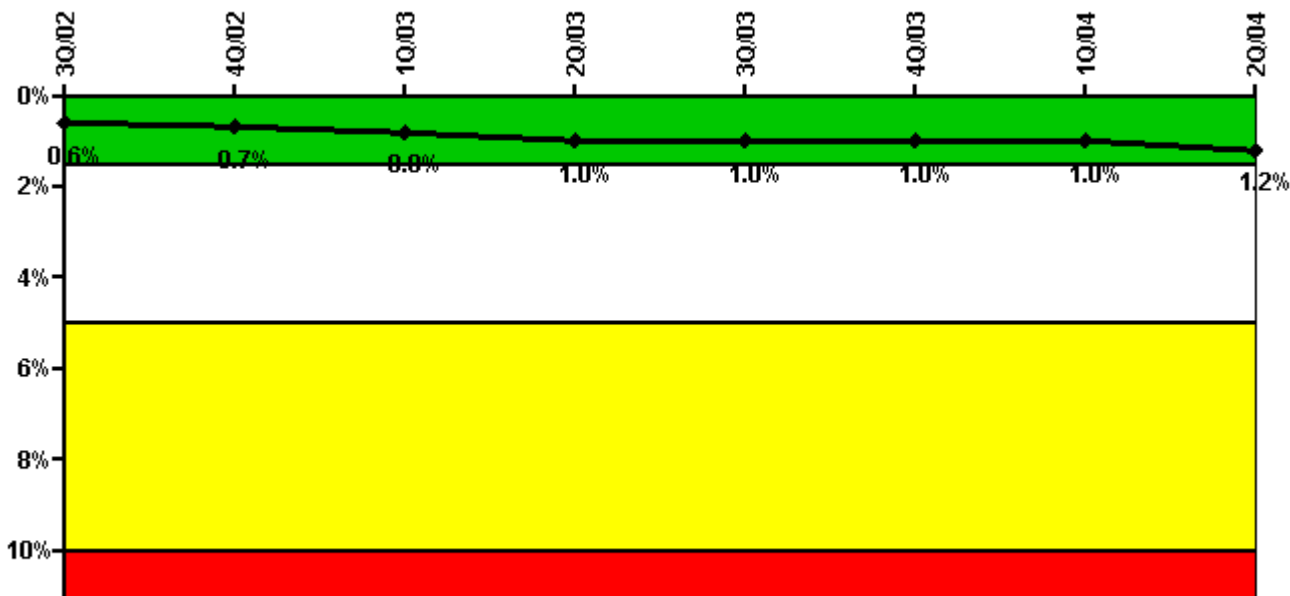
Safety System Unavailability, Heat Removal System (AFW)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
<b>Train 1</b>								
Planned unavailable hours	6.40	12.50	9.40	5.90	8.17	6.78	12.20	11.80
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	1786.10	2208.00	2209.00	2184.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	41.60	18.50	13.80	3.30	18.67	20.90	6.80	8.10
Unplanned unavailable hours	0	0	0	22.60	0	0	0	0
Fault exposure hours	0	0	0	54.40	64.20	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	1786.10	2208.00	2209.00	2184.00	2183.00
<b>Indicator value</b>	<b>2.2%</b>	<b>2.1%</b>	<b>2.0%</b>	<b>2.2%</b>	<b>2.3%</b>	<b>2.3%</b>	<b>2.4%</b>	<b>1.7%</b>

Licensee Comments:

2Q/03: 2nd Qtr '04 Change File - comments revised. 05/03, 1B AF (Train 2) is reduced by 1.2 hrs due to originally double-counting unavailability time. Indicator color does not change.

2Q/03: The fault exposure hours for May were revised due to performing a more accurate determination of unavailability time.

### Safety System Unavailability, Residual Heat Removal System



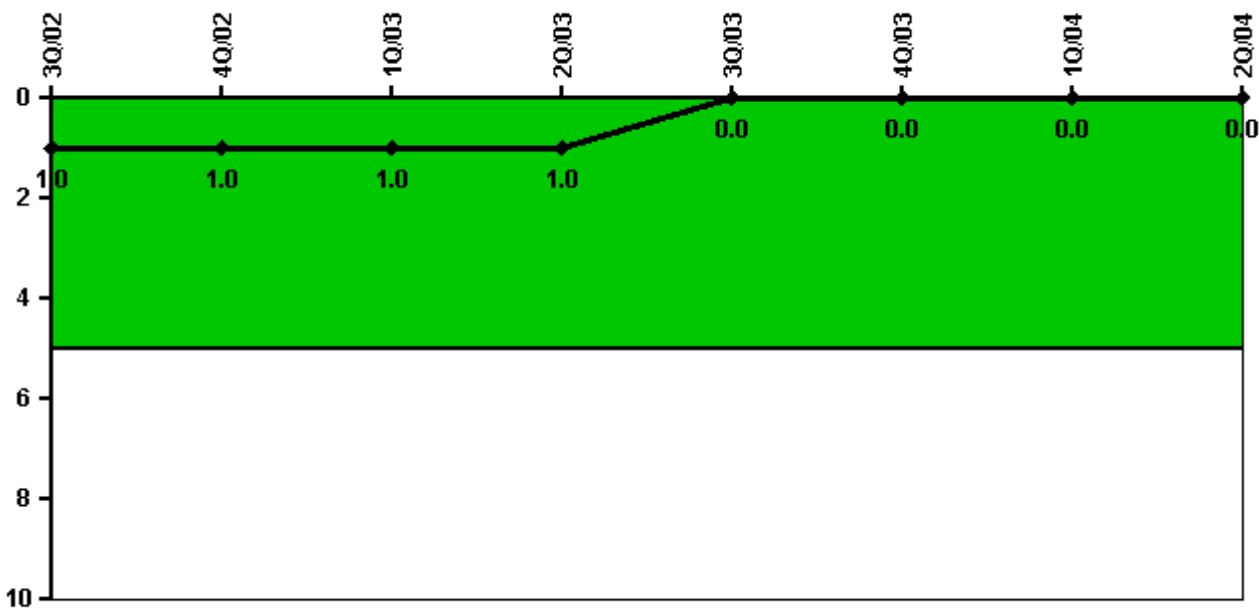
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Residual Heat Removal System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
<b>Train 1</b>								
Planned unavailable hours	1.70	38.81	6.90	116.50	4.30	2.10	4.20	69.20
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	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	3.00	14.80	176.90	0	4.80	2.00	3.10	3.50
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	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>1.2%</b>

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

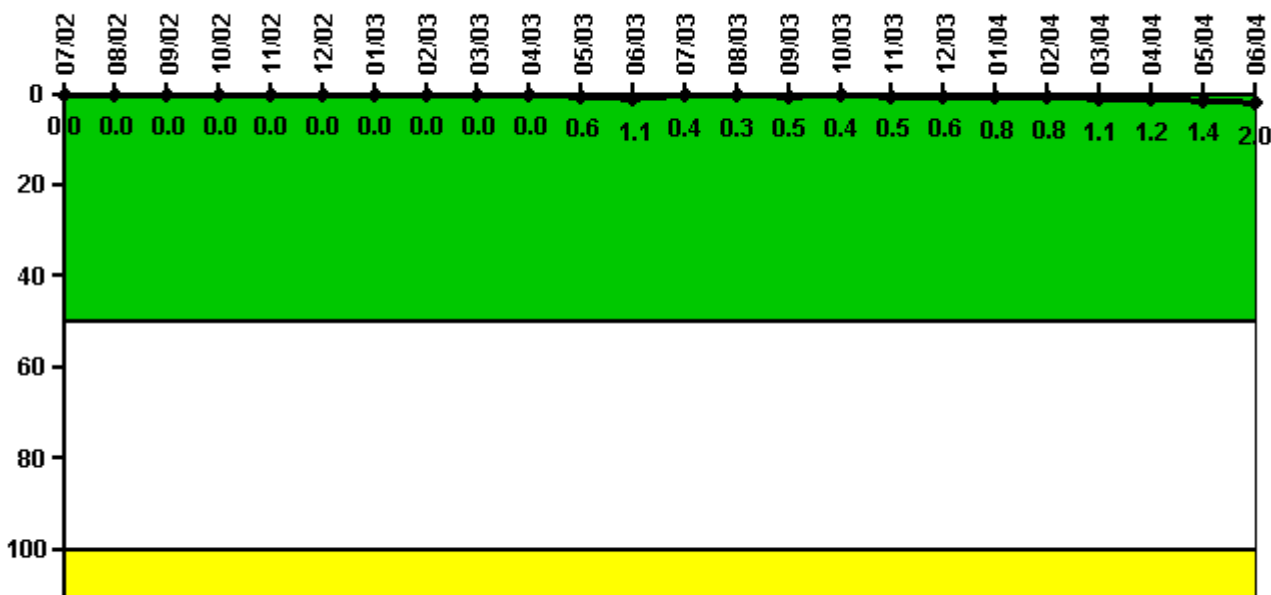
#### Notes

Safety System Functional Failures (PWR)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Safety System Functional Failures	1	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	0

Licensee Comments: none



### Reactor Coolant System Activity



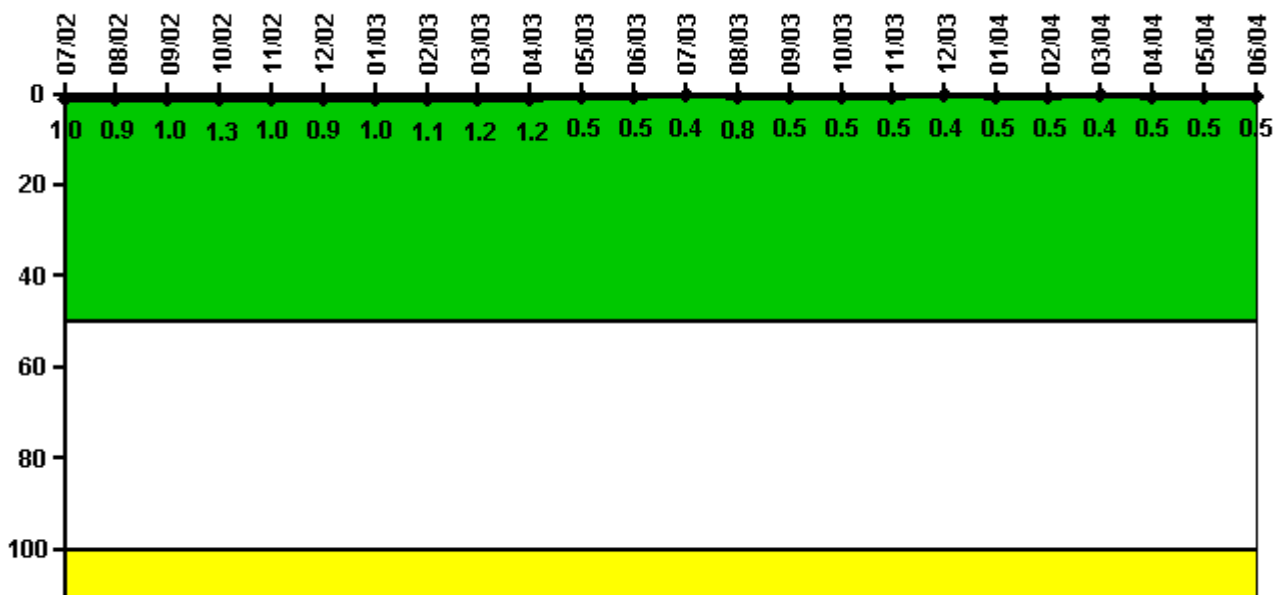
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum activity	0.000257	0.000284	0.000282	0.000296	0.000286	0.000297	0.000310	0.000315	0.000317	0.000312	0.005660	0.011300
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	0	0	0	0	0	0	0	0	0	0	0.6	1.1
Reactor Coolant System Activity	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum activity	0.003620	0.002750	0.004690	0.003970	0.004590	0.006040	0.007750	0.007920	0.010900	0.011900	0.014200	0.020200
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	0.4	0.3	0.5	0.4	0.5	0.6	0.8	0.8	1.1	1.2	1.4	2.0

Licensee Comments: none

### Reactor Coolant System Leakage



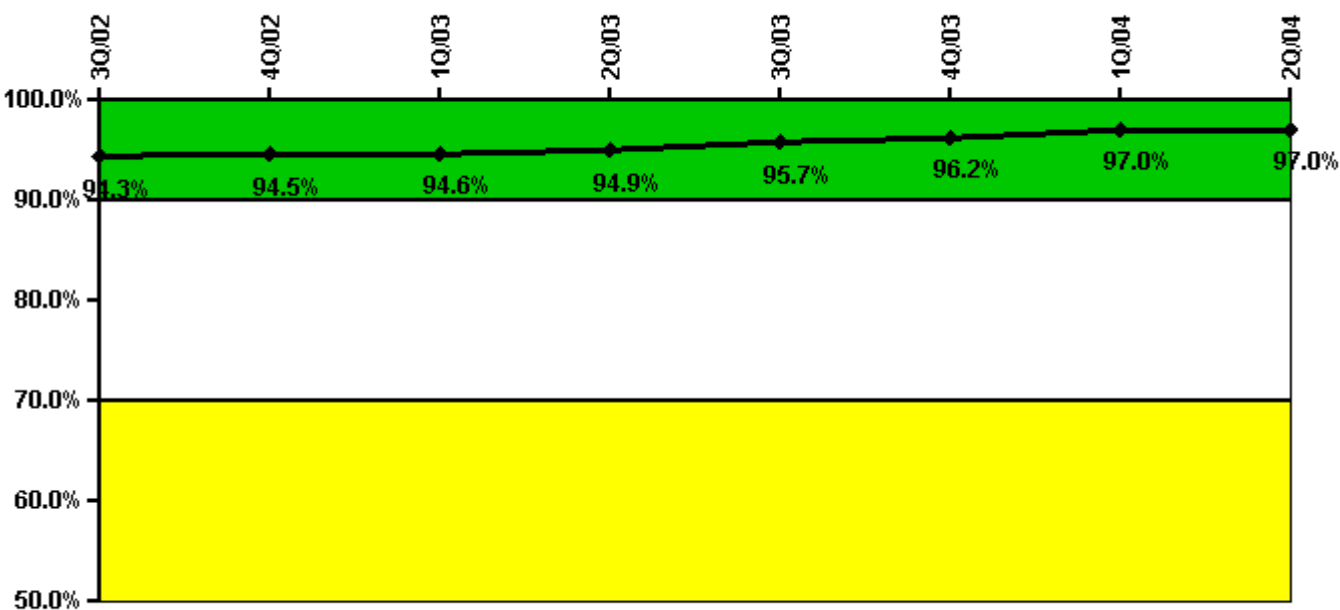
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	0.096	0.093	0.099	0.129	0.103	0.094	0.096	0.109	0.115	0.118	0.049	0.054
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	1.0	0.9	1.0	1.3	1.0	0.9	1.0	1.1	1.2	1.2	0.5	0.5
Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	0.044	0.080	0.049	0.046	0.045	0.037	0.045	0.047	0.037	0.045	0.047	0.053
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	0.8	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.5

Licensee Comments: none

### Drill/Exercise Performance



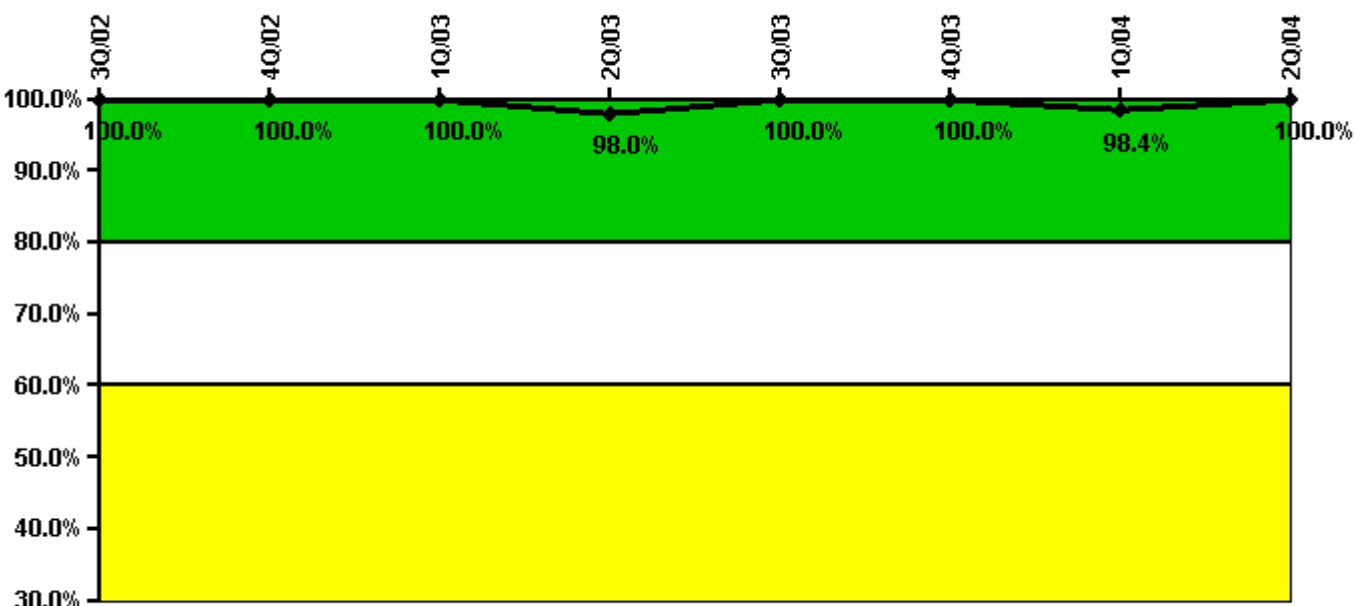
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful opportunities	46.0	73.0	56.0	61.0	128.0	22.0	52.0	50.0
Total opportunities	50.0	77.0	58.0	62.0	130.0	22.0	52.0	52.0
Indicator value	94.3%	94.5%	94.6%	94.9%	95.7%	96.2%	97.0%	97.0%

Licensee Comments: none

### ERO Drill Participation



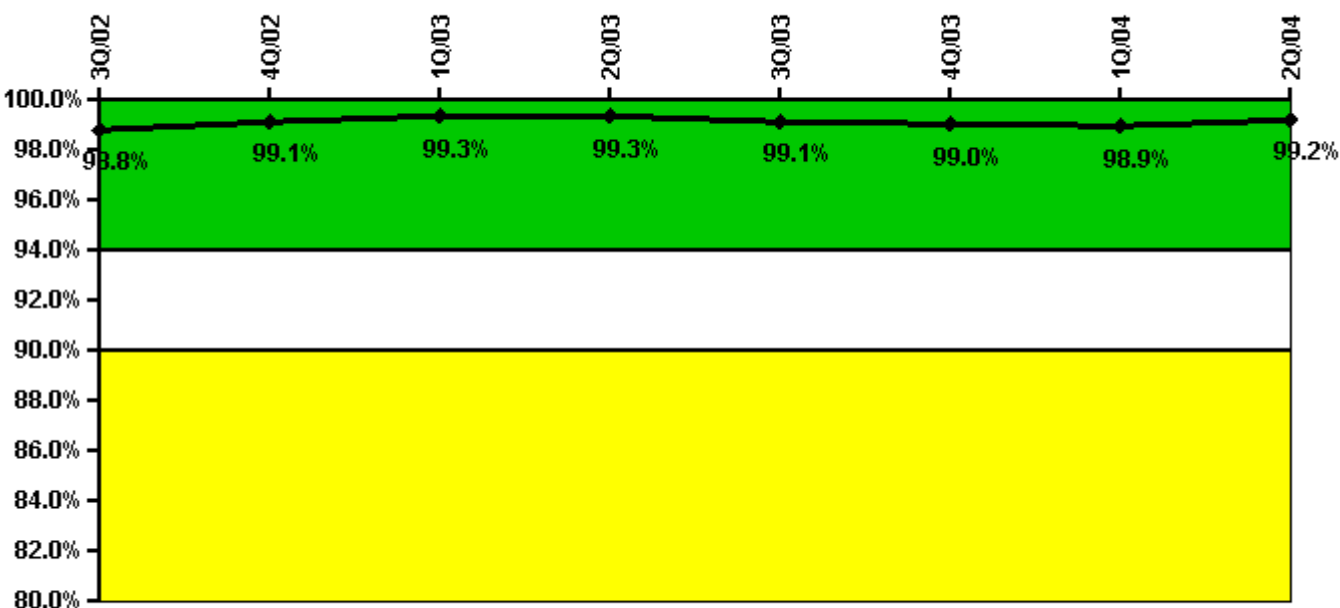
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Participating Key personnel	53.0	51.0	53.0	49.0	52.0	52.0	62.0	62.0
Total Key personnel	53.0	51.0	53.0	50.0	52.0	52.0	63.0	62.0
Indicator value	100.0%	100.0%	100.0%	98.0%	100.0%	100.0%	98.4%	100.0%

Licensee Comments: none

### Alert & Notification System



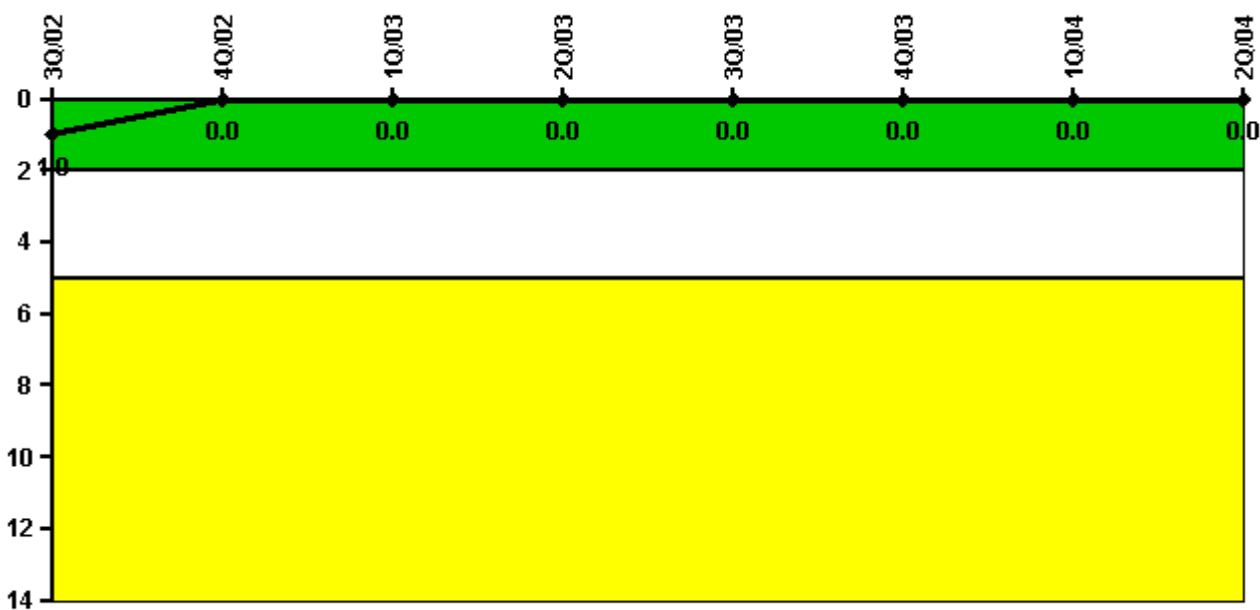
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful siren-tests	4522	4538	4459	4461	4415	4457	4464	4440
Total sirens-tests	4544	4544	4473	4544	4482	4480	4480	4480
Indicator value	98.8%	99.1%	99.3%	99.3%	99.1%	99.0%	98.9%	99.2%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/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>1</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	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/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: September 8, 2004