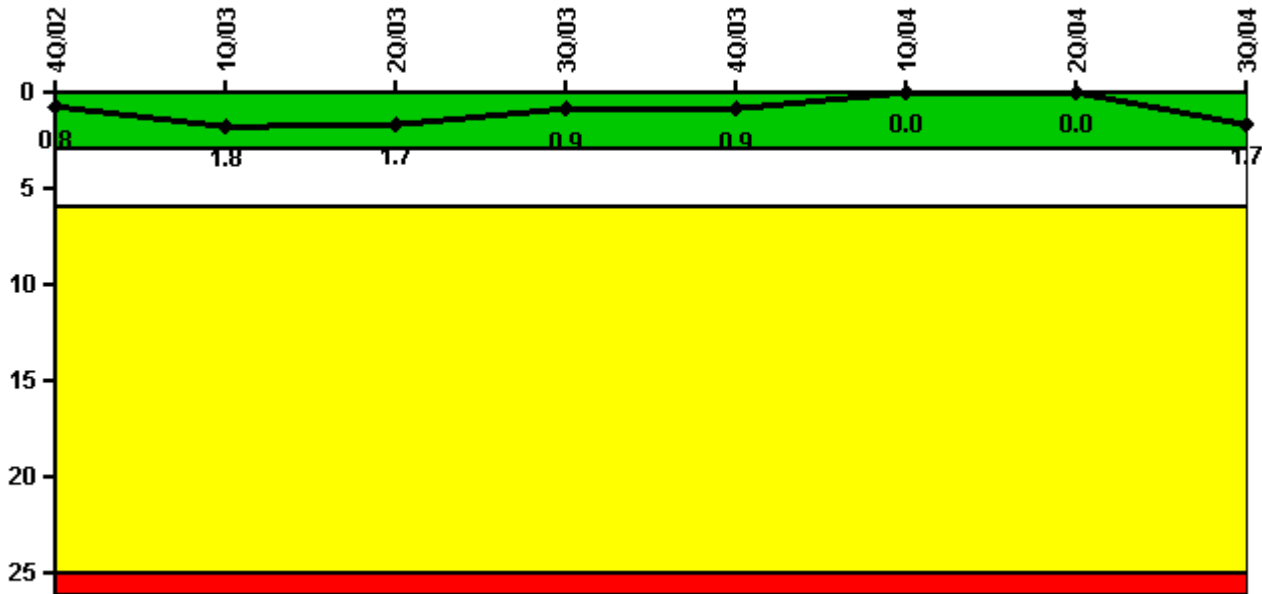


## Browns Ferry 2

### 3Q/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	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned scrams	0	1.0	0	0	0	0	0	2.0
Critical hours	1981.0	1703.3	2183.0	2208.0	1962.0	2184.0	2183.0	2143.7
Indicator value	0.8	1.8	1.7	0.9	0.9	0	0	1.7

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



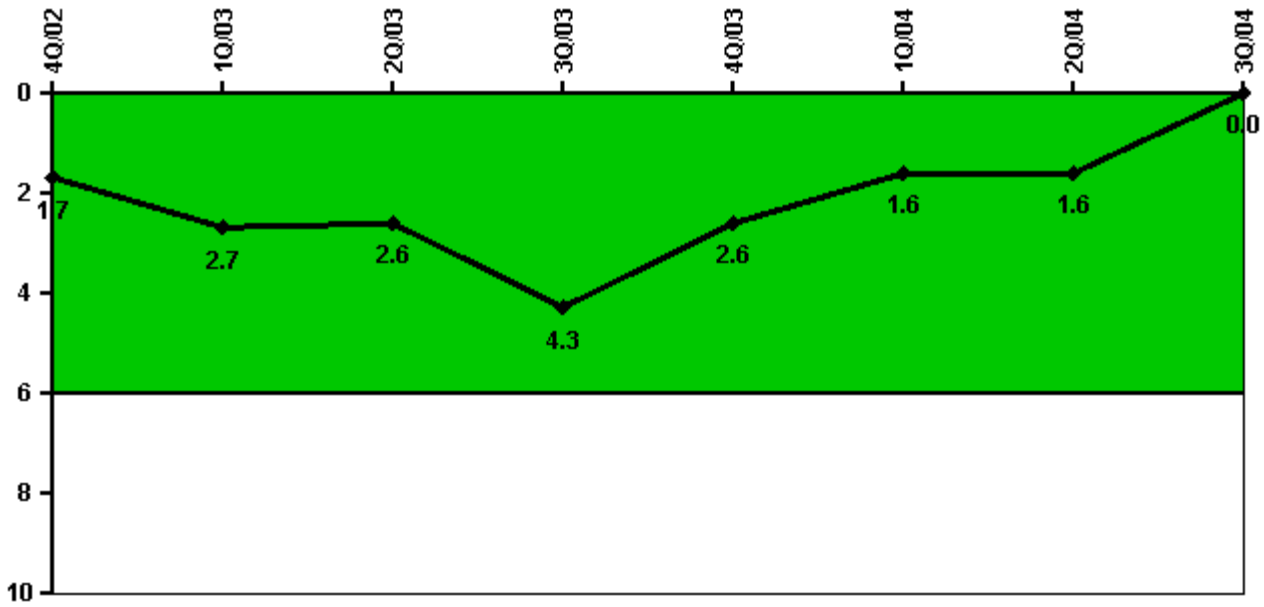
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

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



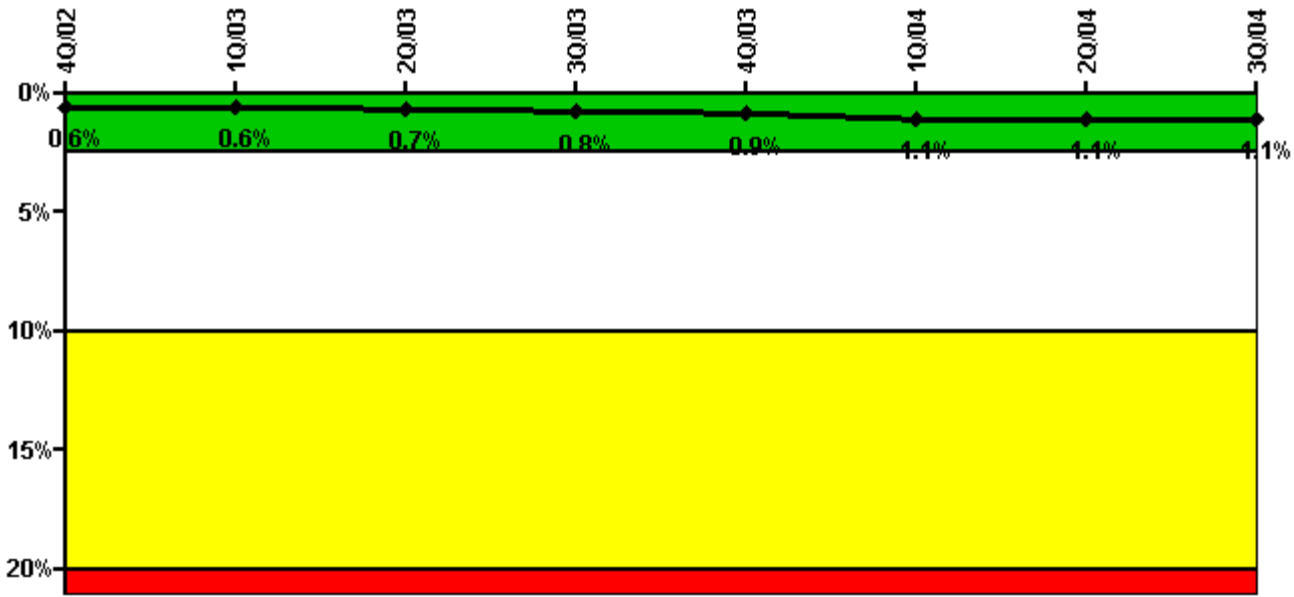
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned power changes	2.0	1.0	0	2.0	0	0	0	0
Critical hours	1981.0	1703.3	2183.0	2208.0	1962.0	2184.0	2183.0	2143.7
Indicator value	1.7	2.7	2.6	4.3	2.6	1.6	1.6	0

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



**Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%**

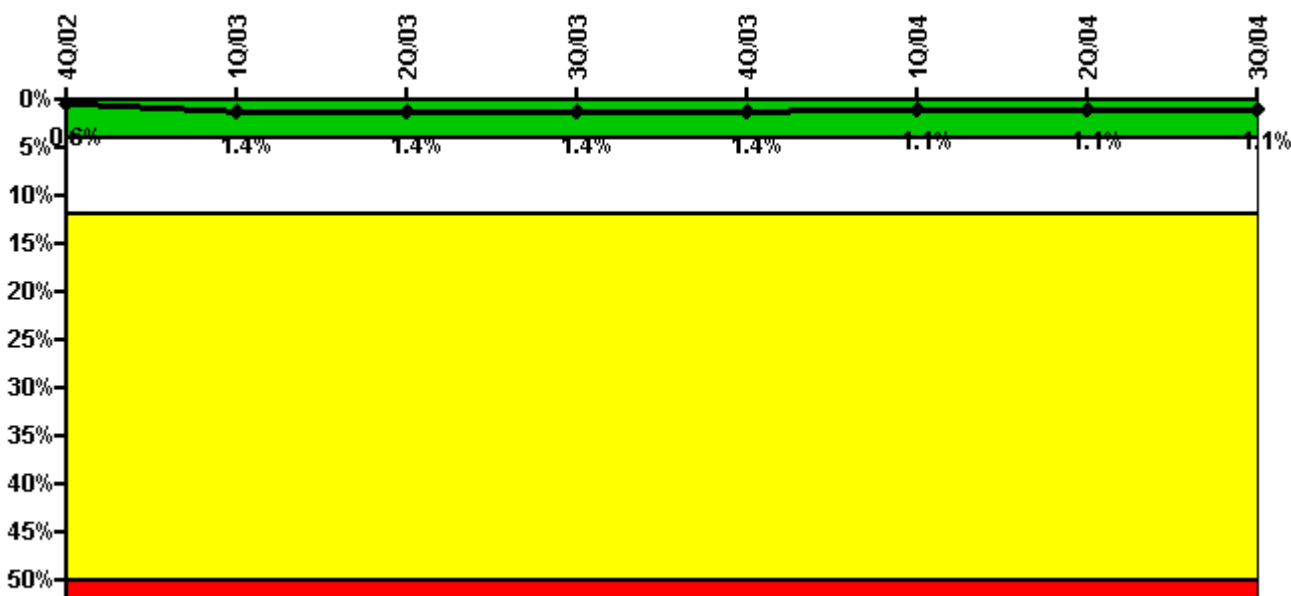
**Notes**

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
<b>Train 1</b>								
Planned unavailable hours	0.95	1.52	47.44	38.97	3.83	1.08	1.46	1.57
Unplanned unavailable hours	0	0	0	35.57	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	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
<b>Train 2</b>								
Planned unavailable hours	0.71	5.29	12.80	39.40	37.85	1.02	0.81	1.21
Unplanned unavailable hours	0	0	0	0	0	15.52	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	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
<b>Train 3</b>								
Planned unavailable hours	1.20	82.33	7.52	11.02	1.02	0.99	0.53	1.25
Unplanned unavailable hours	0	0	0	0	0	0	7.03	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	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
<b>Train 4</b>								
Planned unavailable hours	1.02	14.89	59.27	6.19	22.61	50.82	1.01	0.50
Unplanned unavailable hours	0	0	0	57.42	0	4.55	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	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
<b>Train 5</b>								
Planned unavailable hours	1.73	6.16	9.28	1.07	67.80	1.50	0.93	1.11
Unplanned unavailable hours	0	27.68	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	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
<b>Train 6</b>								
Planned unavailable hours	1.95	4.89	1.56	6.30	2.09	58.30	0.76	2.68
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	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
<b>Train 7</b>								
Planned unavailable hours	8.05	1.55	37.81	4.44	2.02	1.85	2.32	3.59
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	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
<b>Train 8</b>								
Planned unavailable hours	0.98	14.01	10.89	3.86	1.29	1.18	1.39	1.05
Unplanned unavailable hours	0	0	34.08	0	0	89.95	0	0
Fault exposure hours	0	0	0	0	0	378.67	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>1.1%</b>	<b>1.1%</b>	<b>1.1%</b>

Licensee Comments: none

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



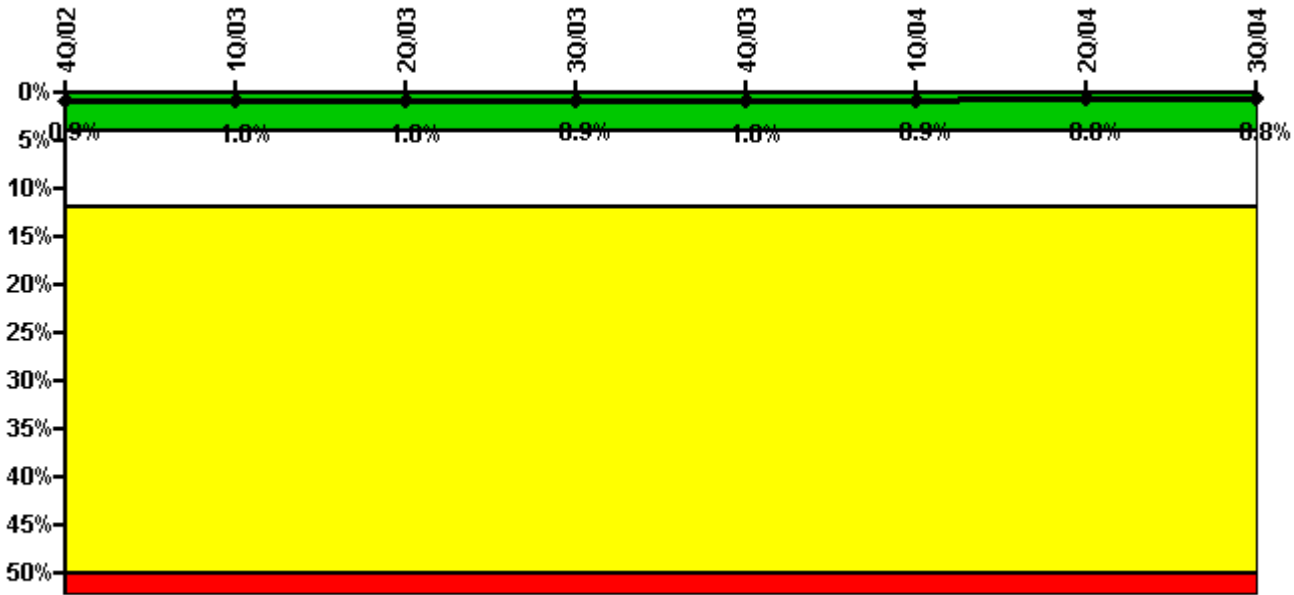
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

**Notes**

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
<b>Train 1</b>								
Planned unavailable hours	0	184.85	3.90	0	0	0	0	0
Unplanned unavailable hours	0	19.13	0	0	11.69	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	1981.60	1580.52	2183.00	2208.00	1942.05	2184.00	2184.00	2208.00
<b>Indicator value</b>	<b>0.6%</b>	<b>1.4%</b>	<b>1.4%</b>	<b>1.4%</b>	<b>1.4%</b>	<b>1.1%</b>	<b>1.1%</b>	<b>1.1%</b>

Licensee Comments: none

**Safety System Unavailability, Heat Removal System (RCIC)**



**Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%**

**Notes**

Safety System Unavailability, Heat Removal System (RCIC)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
<b>Train 1</b>								
Planned unavailable hours	144.65	0.62	4.34	1.00	8.35	0	8.58	0.33
Unplanned unavailable hours	0	28.97	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	1981.60	1580.52	2183.00	2208.00	1942.05	2184.00	2184.00	2208.00
<b>Indicator value</b>	<b>0.9%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>0.9%</b>	<b>1.0%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>0.8%</b>

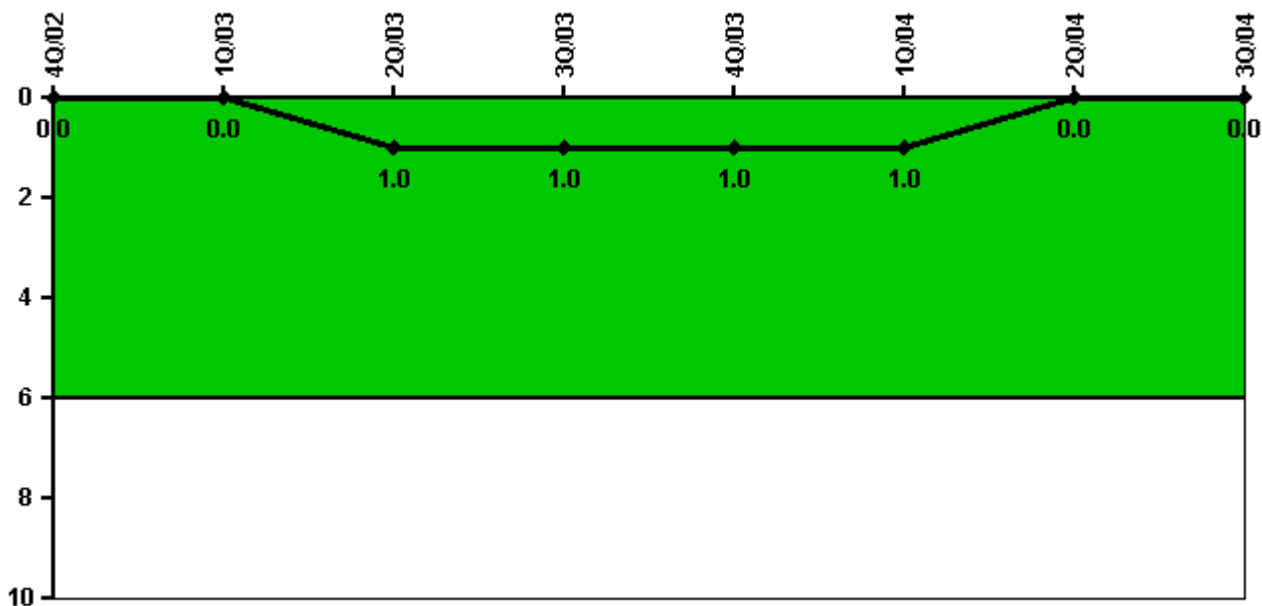
Licensee Comments: none



Required hours	2209.00	1673.40	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	0.5%	0.5%	0.5%	0.5%	0.7%	0.8%	0.8%	0.8%

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

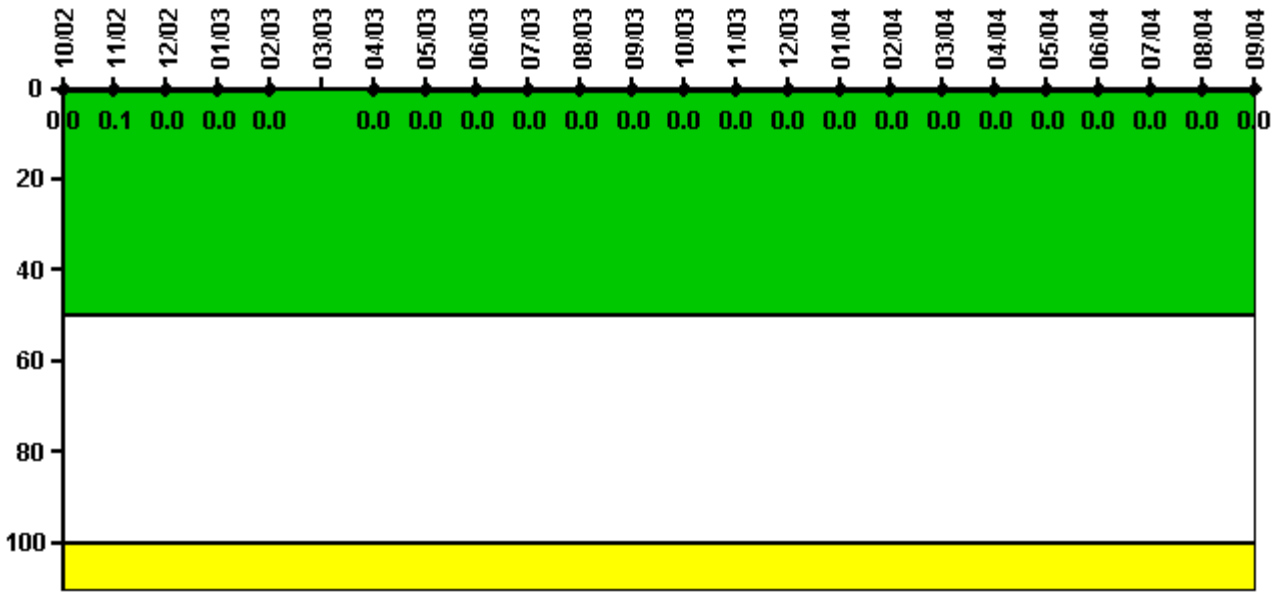
### Notes

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

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

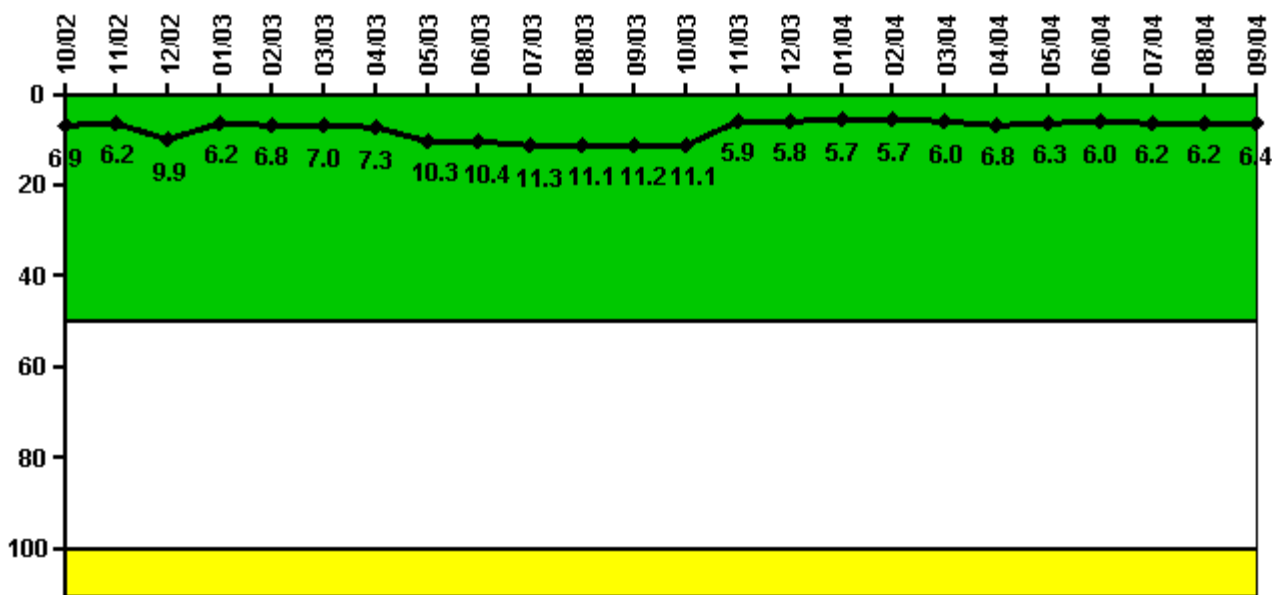
Reactor Coolant System Activity	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum activity	0.000045	0.001870	0.001015	0.001060	0.000990	N/A	0.000622	0.000153	0.000109	0.000107	0.000109	0.000098
Technical specification limit	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Indicator value	0	0.1	0	0	0	N/A	0	0	0	0	0	0

Reactor Coolant System Activity	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum activity	0.000119	0.000134	0.000184	0.000092	0.000200	0.000092	0.000114	0.000087	0.000114	0.000128	0.000081	0.000110
Technical specification limit	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

### Reactor Coolant System Leakage



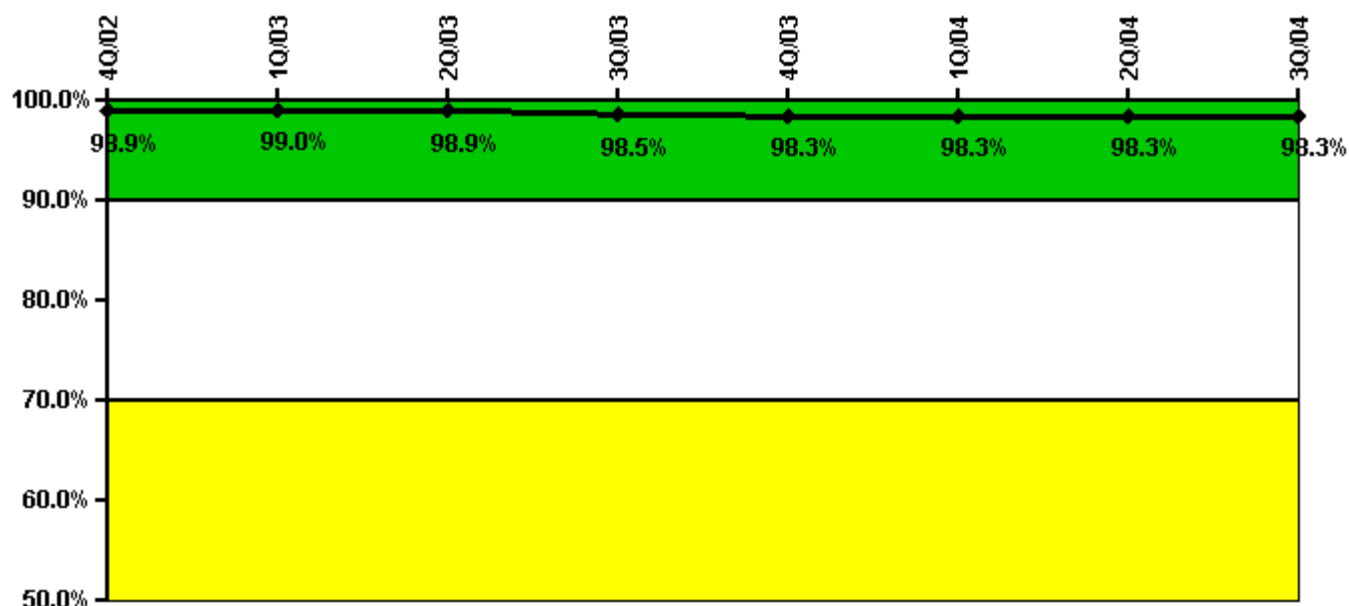
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	2.080	1.870	2.970	1.870	2.050	2.100	2.200	3.090	3.110	3.380	3.320	3.360
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	6.9	6.2	9.9	6.2	6.8	7.0	7.3	10.3	10.4	11.3	11.1	11.2
Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	3.340	1.780	1.750	1.710	1.720	1.810	2.040	1.880	1.800	1.860	1.870	1.910
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	11.1	5.9	5.8	5.7	5.7	6.0	6.8	6.3	6.0	6.2	6.2	6.4

Licensee Comments: none

### Drill/Exercise Performance



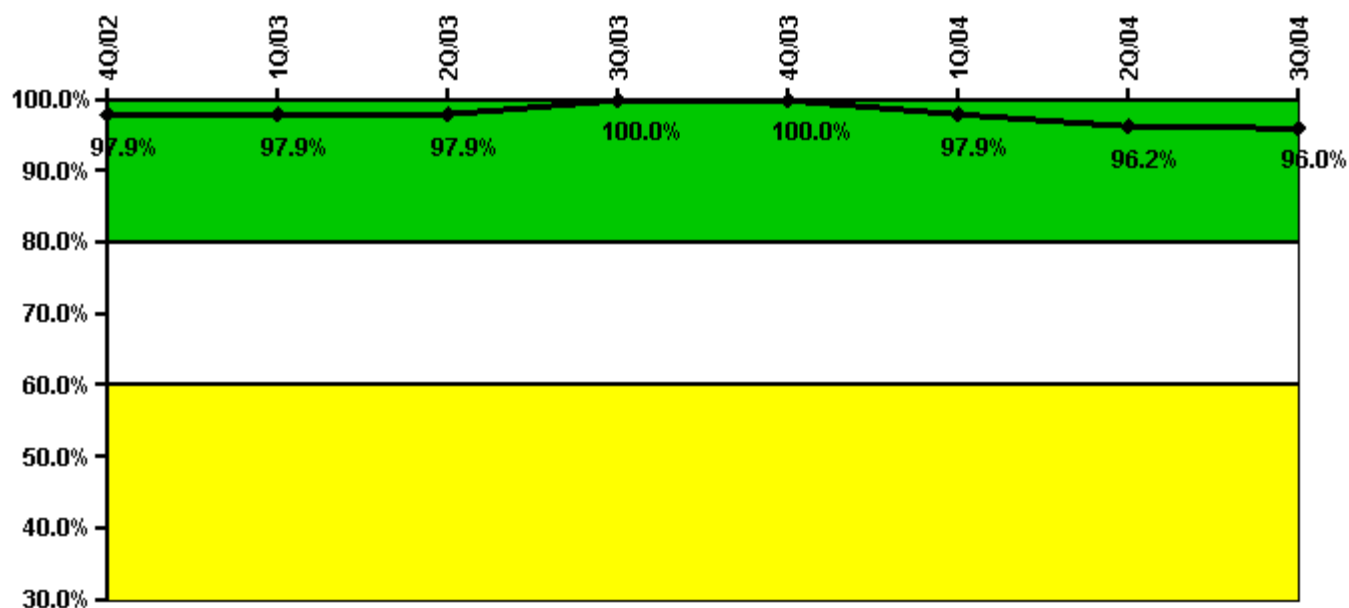
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful opportunities	62.0	12.0	12.0	19.0	51.0	6.0	6.0	7.0
Total opportunities	63.0	12.0	12.0	20.0	52.0	6.0	6.0	7.0
Indicator value	98.9%	99.0%	98.9%	98.5%	98.3%	98.3%	98.3%	98.3%

Licensee Comments: none

### ERO Drill Participation



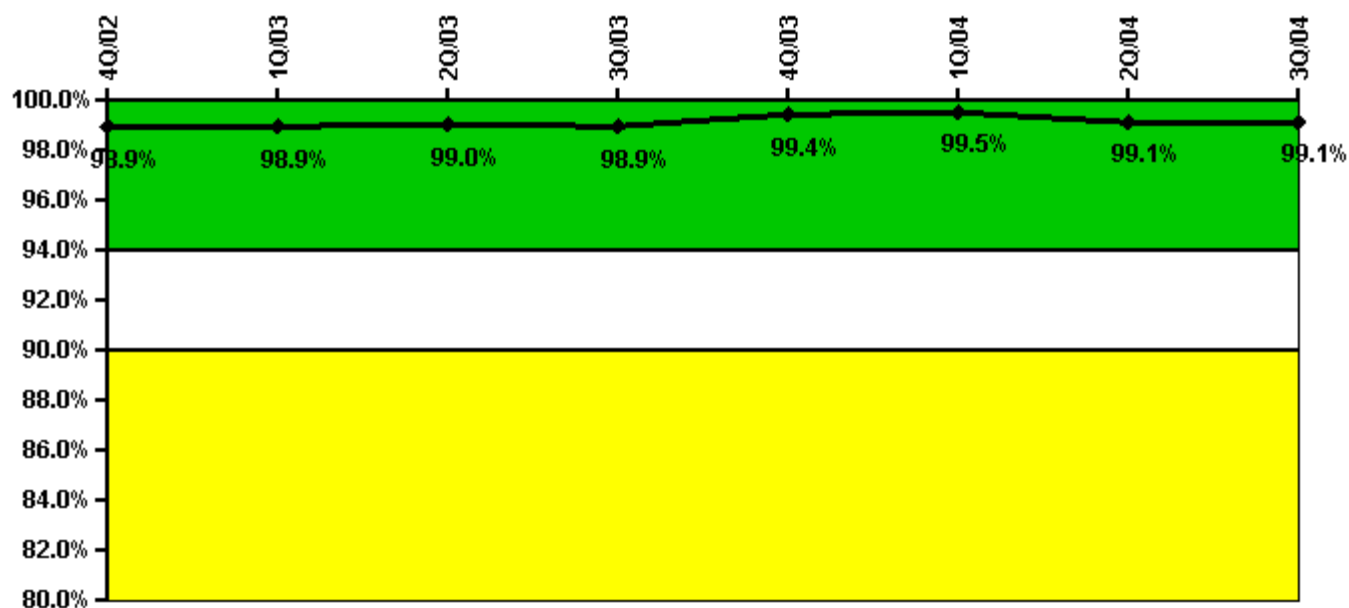
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Participating Key personnel	47.0	46.0	47.0	49.0	50.0	47.0	51.0	48.0
Total Key personnel	48.0	47.0	48.0	49.0	50.0	48.0	53.0	50.0
Indicator value	97.9%	97.9%	97.9%	100.0%	100.0%	97.9%	96.2%	96.0%

Licensee Comments: none

### Alert & Notification System



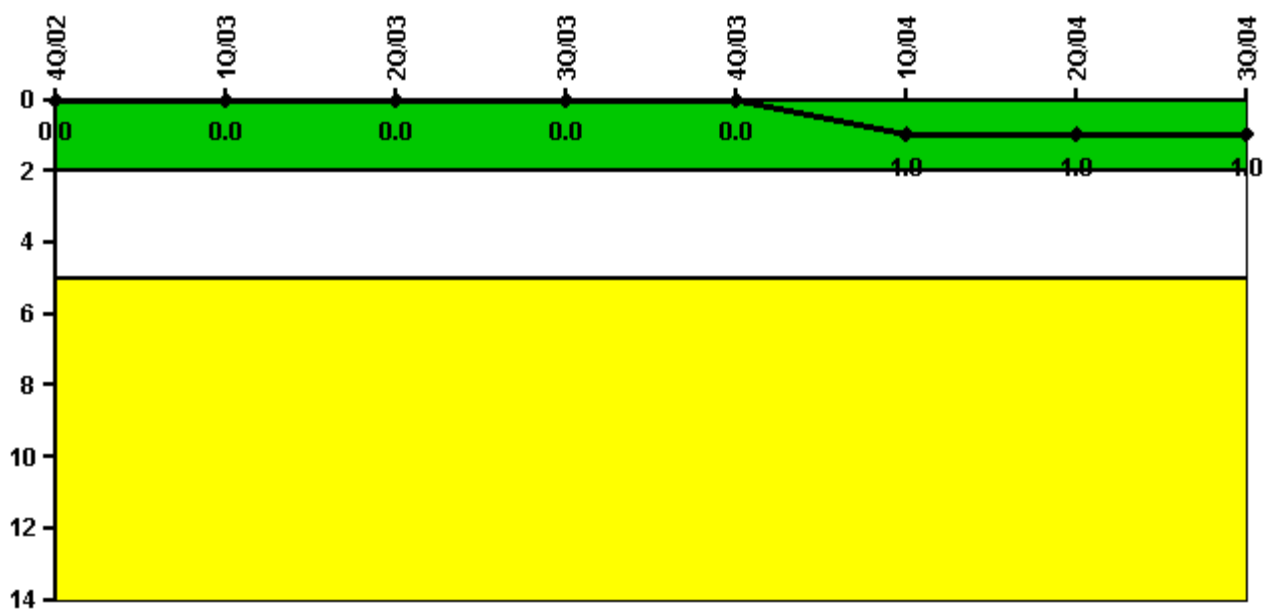
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful siren-tests	1083	593	995	594	1098	596	883	694
Total sirens-tests	1100	600	1000	600	1100	600	900	700
Indicator value	98.9%	98.9%	99.0%	98.9%	99.4%	99.5%	99.1%	99.1%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
High radiation area occurrences	0	0	0	0	0	1	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>1</b>	<b>1</b>	<b>1</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/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: October 25, 2004