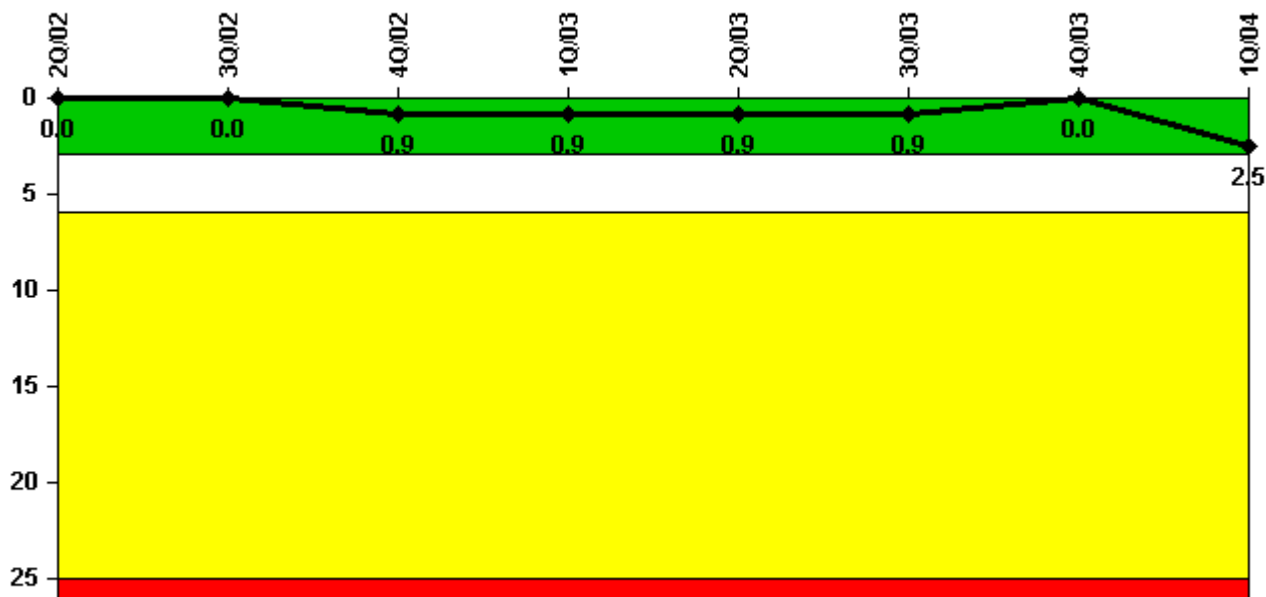


Callaway

1Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

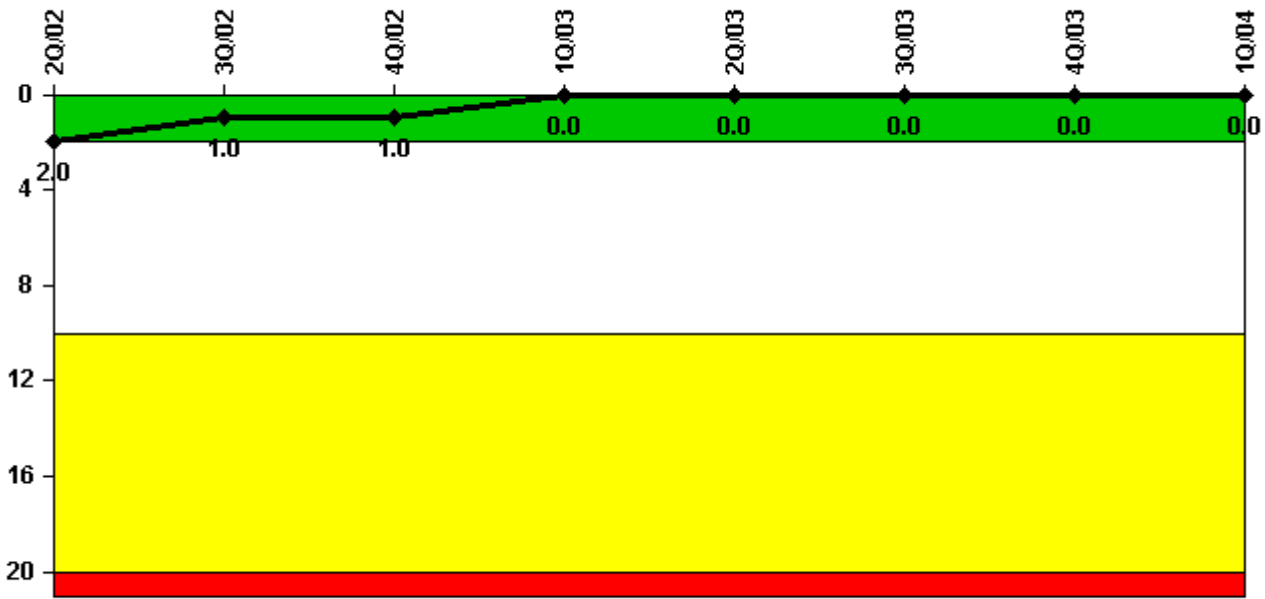
Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| Critical hours | 2183.0 | 2208.0 | 1323.0 | 1929.0 | 2148.5 | 2208.0 | 2143.5 | 1844.9 |
| Indicator value | 0 | 0 | 0.9 | 0.9 | 0.9 | 0.9 | 0 | 2.5 |

Licensee Comments:

1Q/04: Reactor trips on: January 27, 2004, February 3, 2004, and February 15, 2004.

Scrams with Loss of Normal Heat Removal



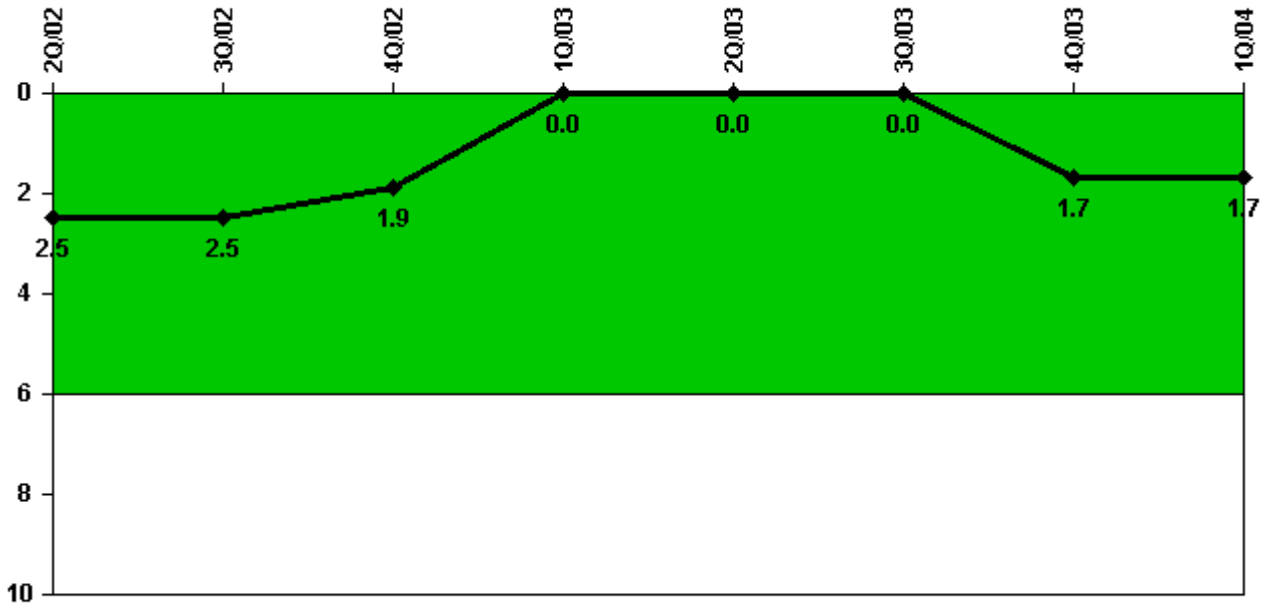
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

| Scrams with Loss of Normal Heat Removal | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indicator value | 2.0 | 1.0 | 1.0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



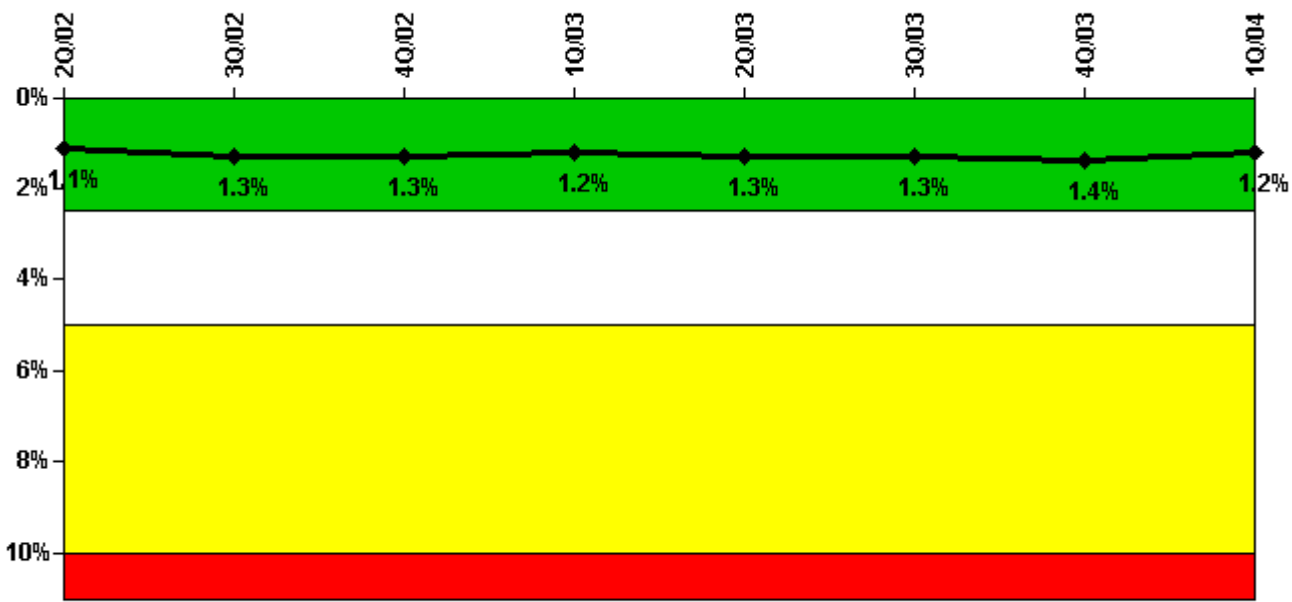
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0 |
| Critical hours | 2183.0 | 2208.0 | 1323.0 | 1929.0 | 2148.5 | 2208.0 | 2143.5 | 1844.9 |
| Indicator value | 2.5 | 2.5 | 1.9 | 0 | 0 | 0 | 1.7 | 1.7 |

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



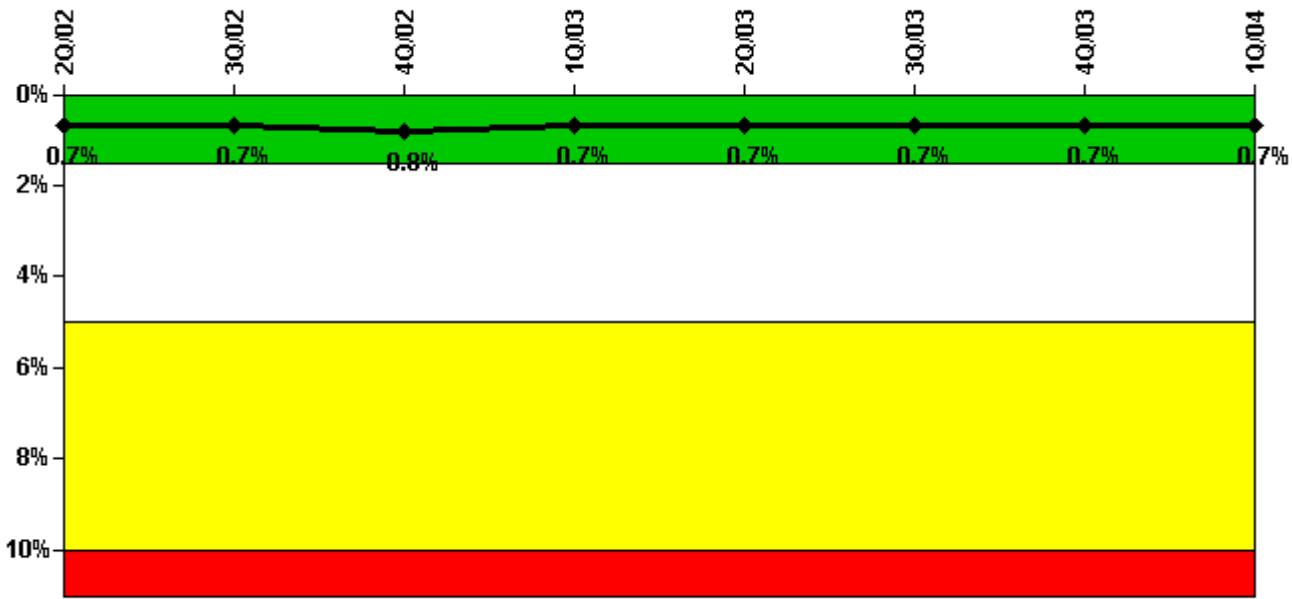
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Emergency AC Power | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 6.70 | 43.30 | 56.00 | 4.50 | 3.60 | 51.70 | 3.00 | 3.10 |
| Unplanned unavailable hours | 0 | 8.20 | 0 | 0 | 0 | 0 | 0 | 28.00 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2208.00 | 1521.20 | 1970.40 | 2184.00 | 2208.00 | 2208.00 | 2184.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 12.80 | 32.80 | 9.10 | 2.80 | 38.10 | 2.00 | 40.10 | 1.70 |
| Unplanned unavailable hours | 0.10 | 0 | 0 | 11.90 | 18.10 | 0 | 47.70 | 55.60 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2208.00 | 1521.20 | 1970.40 | 2184.00 | 2208.00 | 2208.00 | 2184.00 |
| Indicator value | 1.1% | 1.3% | 1.3% | 1.2% | 1.3% | 1.3% | 1.4% | 1.2% |

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



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

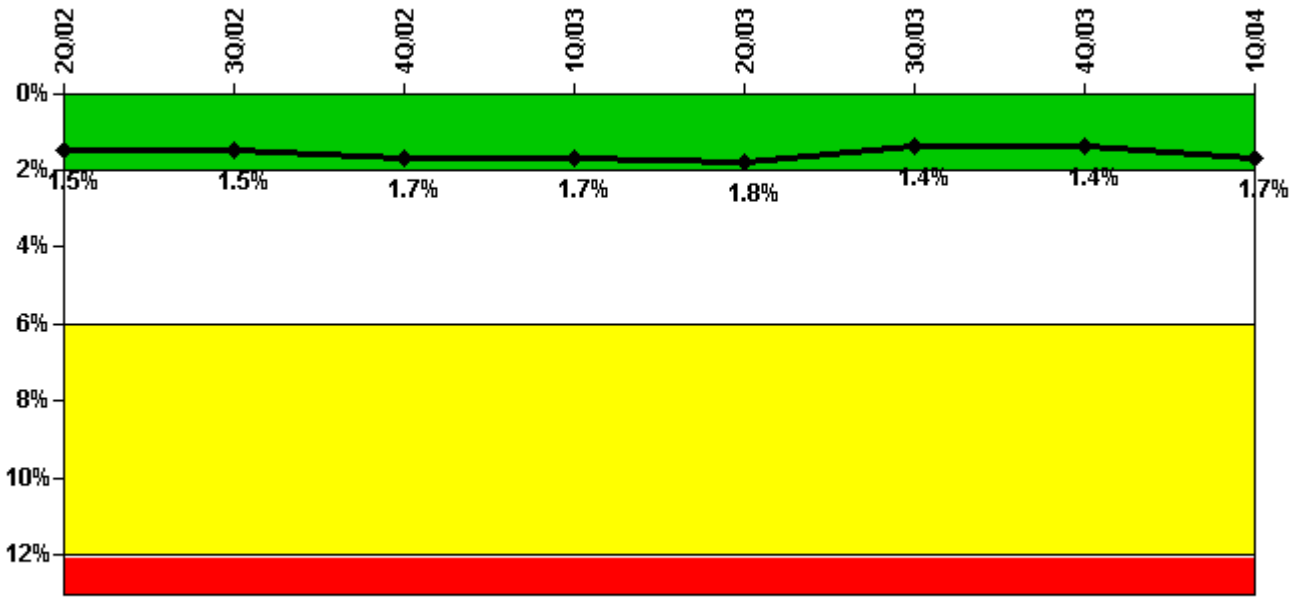
Notes

| Safety System Unavailability, High Pressure Injection System (HPSI) | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 21.30 | 4.30 | 3.10 | 2.30 | 26.00 | 2.50 | 30.80 | 3.70 |
| Unplanned unavailable hours | 0 | 0.60 | 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 | 2184.00 | 2208.00 | 1491.50 | 1941.00 | 2174.80 | 2208.00 | 2208.00 | 2160.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 4.10 | 2.40 | 5.20 | 17.90 | 74.70 | 2.10 | 3.00 | 11.30 |
| Unplanned unavailable hours | 0 | 9.60 | 1.10 | 0 | 0 | 0 | 3.90 | 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 | 2184.00 | 2208.00 | 1491.50 | 1941.00 | 2174.80 | 2208.00 | 2208.00 | 2160.00 |
| Train 3 | | | | | | | | |
| Planned unavailable hours | 19.00 | 26.20 | 2.10 | 3.00 | 3.40 | 42.70 | 30.80 | 17.20 |
| Unplanned unavailable hours | 0 | 0.60 | 0 | 3.30 | 1.10 | 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 | 2184.00 | 2208.00 | 1491.50 | 1941.00 | 2174.80 | 2208.00 | 2208.00 | 2160.00 |
| Train 4 | | | | | | | | |
| Planned unavailable hours | 3.80 | 2.50 | 17.00 | 15.50 | 19.30 | 41.70 | 3.30 | 13.50 |
| Unplanned unavailable hours | 0 | 9.60 | 1.10 | 0 | 0 | 0 | 3.90 | 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 | 2184.00 | 2208.00 | 1491.50 | 1941.00 | 2174.80 | 2208.00 | 2208.00 | 2160.00 |
| Indicator value | 0.7% | 0.7% | 0.8% | 0.7% | 0.7% | 0.7% | 0.7% | 0.7% |

Licensee Comments:

1Q/04: 1 Trn of CVCS, SI, and RHR req in Mode 4. In Mode 4 2/09/04 1747 through 2/11/04 1748.

Safety System Unavailability, Heat Removal System (AFW)



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

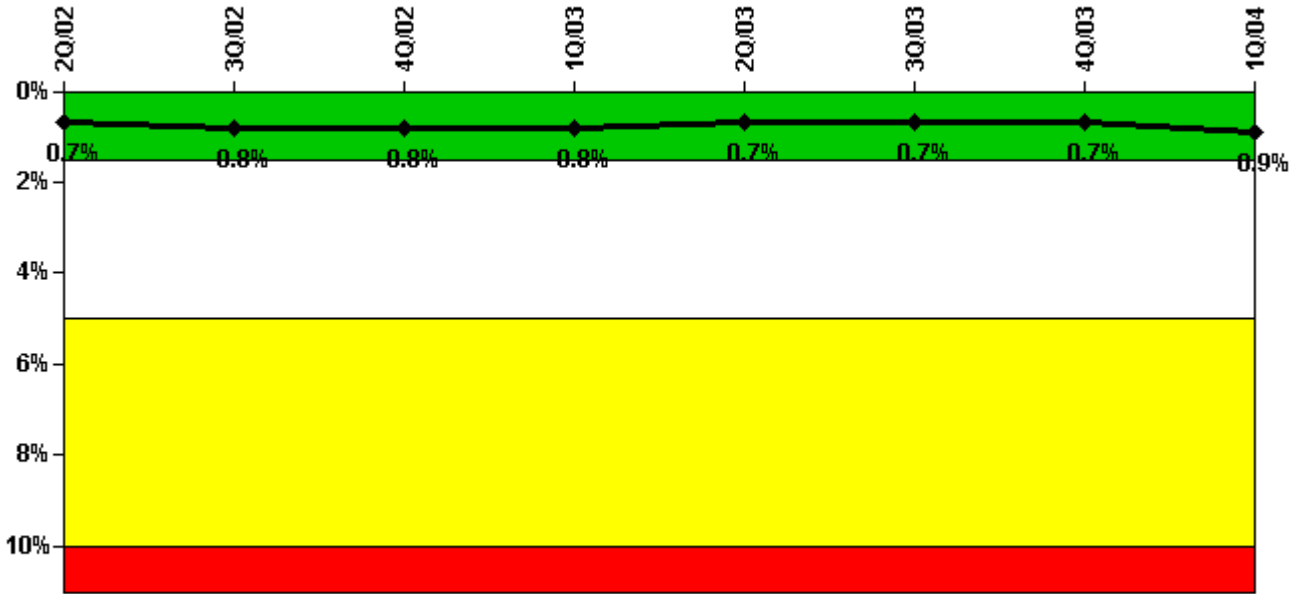
Notes

| Safety System Unavailability, Heat Removal System (AFW) | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 3.80 | 37.80 | 21.60 | 5.00 | 24.40 | 1.40 | 5.80 | 0 |
| Unplanned unavailable hours | 0 | 0.90 | 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 | 2184.00 | 2208.00 | 1491.50 | 1941.00 | 2174.80 | 2208.00 | 2208.00 | 2136.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 1.70 | 14.00 | 24.40 | 27.40 | 19.70 | 1.00 | 21.00 | 7.90 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 7.30 | 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 | 2184.00 | 2208.00 | 1491.50 | 1941.00 | 2174.80 | 2208.00 | 2208.00 | 2136.00 |
| Train 3 | | | | | | | | |
| Planned unavailable hours | 45.80 | 2.70 | 36.50 | 42.60 | 5.10 | 4.80 | 3.20 | 28.20 |
| Unplanned unavailable hours | 0 | 0 | 97.30 | 15.20 | 45.00 | 0 | 0 | 195.00 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2208.00 | 1491.50 | 1941.00 | 2174.80 | 2208.00 | 2208.00 | 2136.00 |
| Indicator value | 1.5% | 1.5% | 1.7% | 1.7% | 1.8% | 1.4% | 1.4% | 1.7% |

Licensee Comments:

1Q/04: Aux Feedwater not required in Mode 4. In Mode 4 2/09/04 1747 through 2/11/04 1748.

Safety System Unavailability, Residual Heat Removal System



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

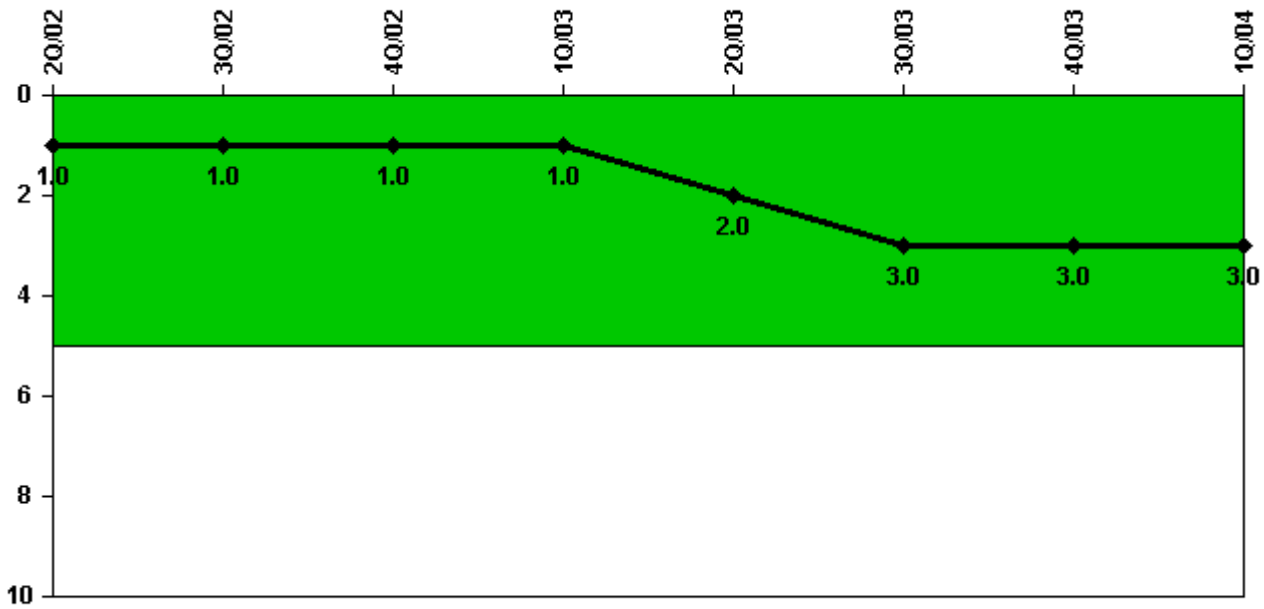
Notes

| Safety System Unavailability, Residual Heat Removal System | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 30.30 | 10.40 | 4.40 | 19.00 | 3.40 | 1.70 | 29.90 | 79.60 |
| Unplanned unavailable hours | 0 | 0.60 | 0.80 | 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 | 2184.00 | 2208.00 | 2073.50 | 2160.00 | 2184.00 | 2208.00 | 2208.00 | 2160.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 24.40 | 1.60 | 8.70 | 25.30 | 19.80 | 25.50 | 2.80 | 11.00 |
| Unplanned unavailable hours | 0 | 21.70 | 1.10 | 0 | 0 | 0 | 3.90 | 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 | 2184.00 | 2208.00 | 2073.50 | 2160.00 | 2184.00 | 2208.00 | 2208.00 | 2160.00 |
| Indicator value | 0.7% | 0.8% | 0.8% | 0.8% | 0.7% | 0.7% | 0.7% | 0.9% |

Licensee Comments:

1Q/04: 1 Trn of CVCS, SI, and RHR req in Mode 4. In Mode 4 2/09/04 1747 through 2/11/04 1748.

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

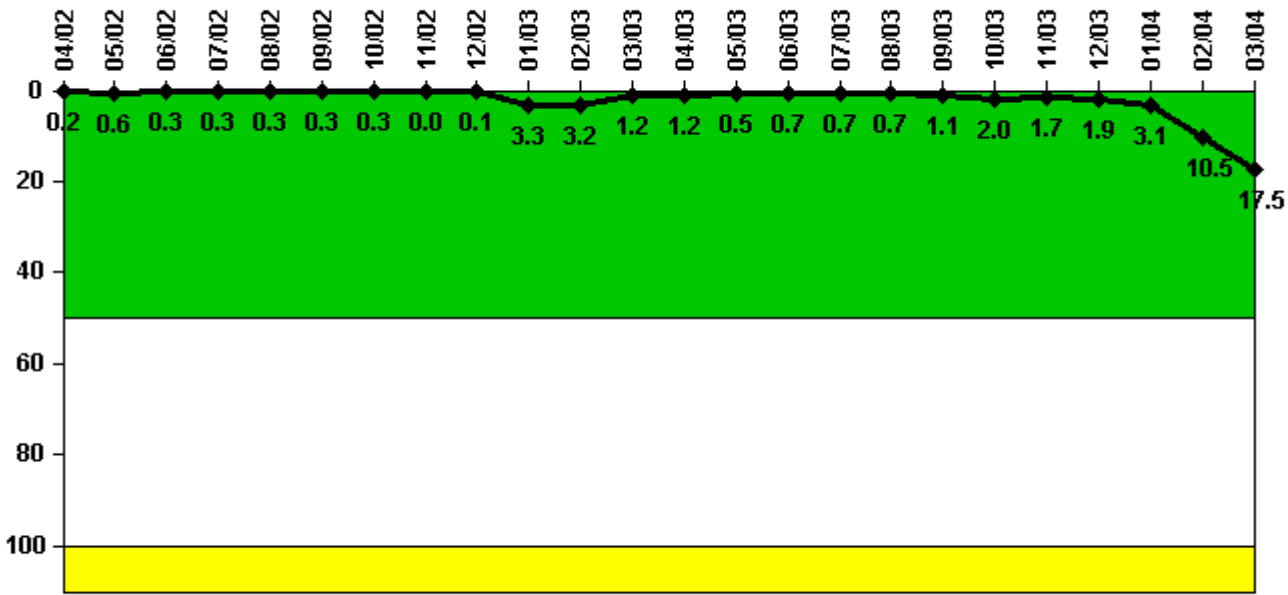
| Safety System Functional Failures (PWR) | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Safety System Functional Failures | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 0 |
| Indicator value | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 3 |

Licensee Comments:

1Q/04: LER 2003-06-01 was submitted on 3/18/04 to indicate that LER 2003-006 (3Q2003)was not a SSFF.

3Q/03: The original data submittal included LERs 2003-006 and 2003-007. Subsequent evaluation has determined that LER 2003-006 was not a SSFF. Revision LER 2003-006-01 was submitted on March 18, 2004, to correct that information. The change affects the data for the 3rd quarter 2003. This change did not result in crossing a threshold or changing the color of the indicator.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

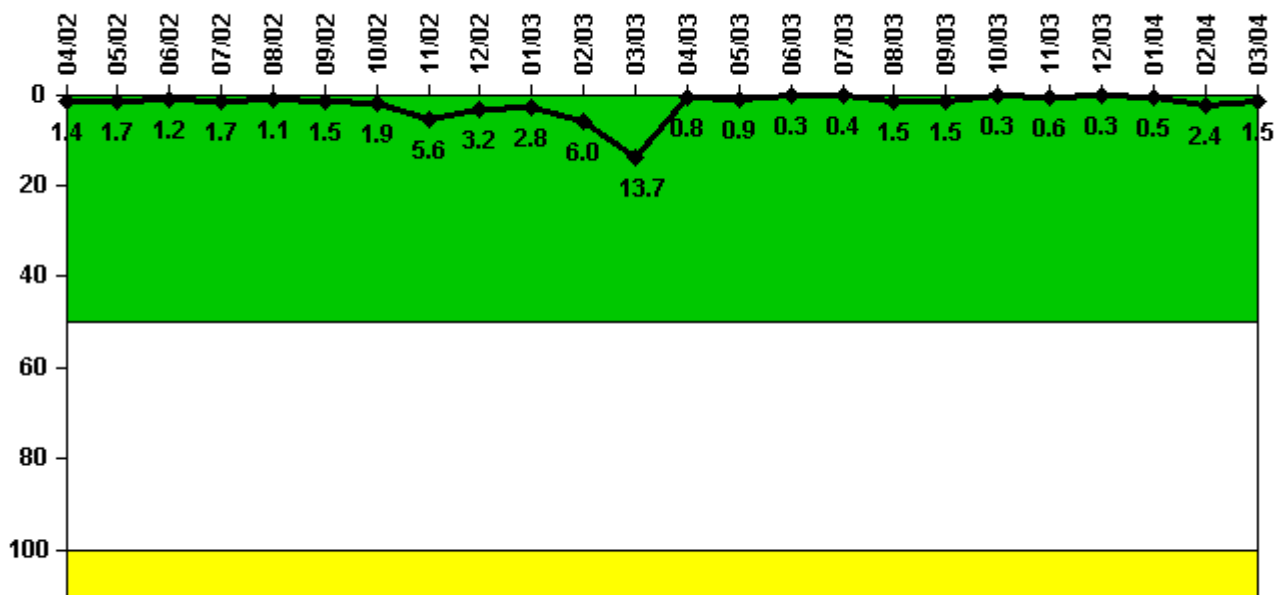
Notes

| 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 |

| Reactor Coolant System Activity | 4/03 | 5/03 | 6/03 | 7/03 | 8/03 | 9/03 | 10/03 | 11/03 | 12/03 | 1/04 | 2/04 | 3/04 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0.003530 | 0.001390 | 0.001970 | 0.002100 | 0.002000 | 0.003200 | 0.005990 | 0.005120 | 0.005810 | 0.009300 | 0.031500 | 0.052600 |
| Technical specification limit | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Indicator value | 1.2 | 0.5 | 0.7 | 0.7 | 0.7 | 1.1 | 2.0 | 1.7 | 1.9 | 3.1 | 10.5 | 17.5 |

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

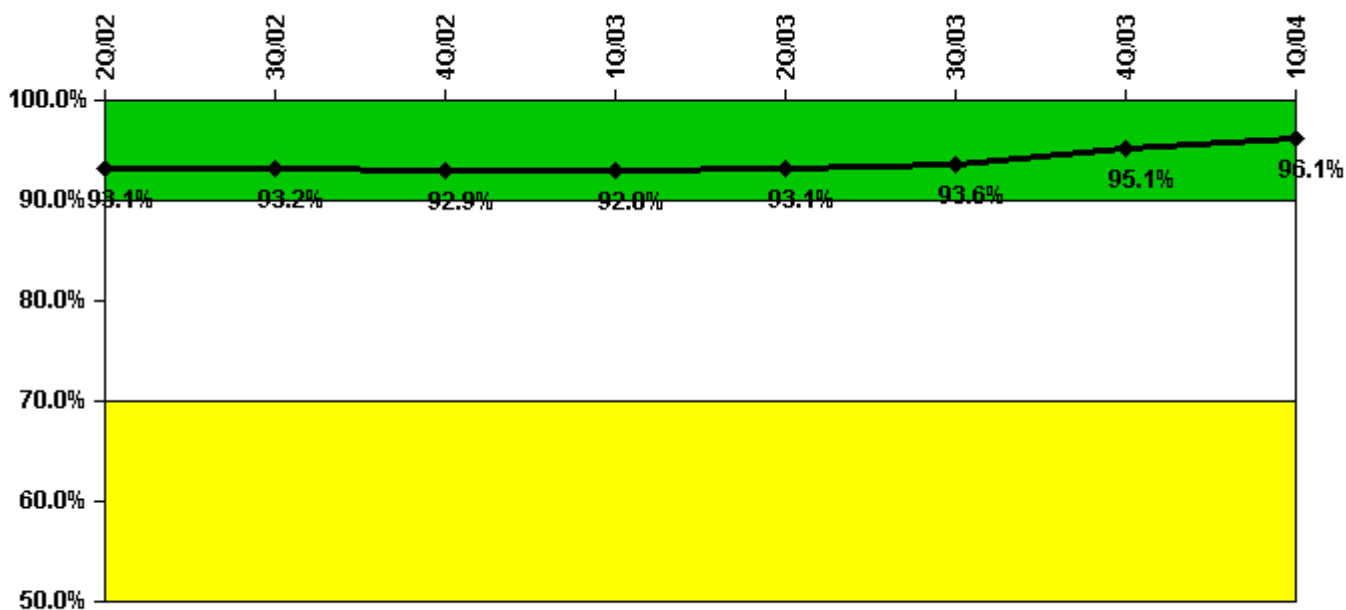
Notes

| 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 |

| Reactor Coolant System Leakage | 4/03 | 5/03 | 6/03 | 7/03 | 8/03 | 9/03 | 10/03 | 11/03 | 12/03 | 1/04 | 2/04 | 3/04 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 0.078 | 0.087 | 0.028 | 0.042 | 0.145 | 0.148 | 0.031 | 0.060 | 0.025 | 0.045 | 0.236 | 0.145 |
| 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 | 0.8 | 0.9 | 0.3 | 0.4 | 1.5 | 1.5 | 0.3 | 0.6 | 0.3 | 0.5 | 2.4 | 1.5 |

Licensee Comments: none

Drill/Exercise Performance



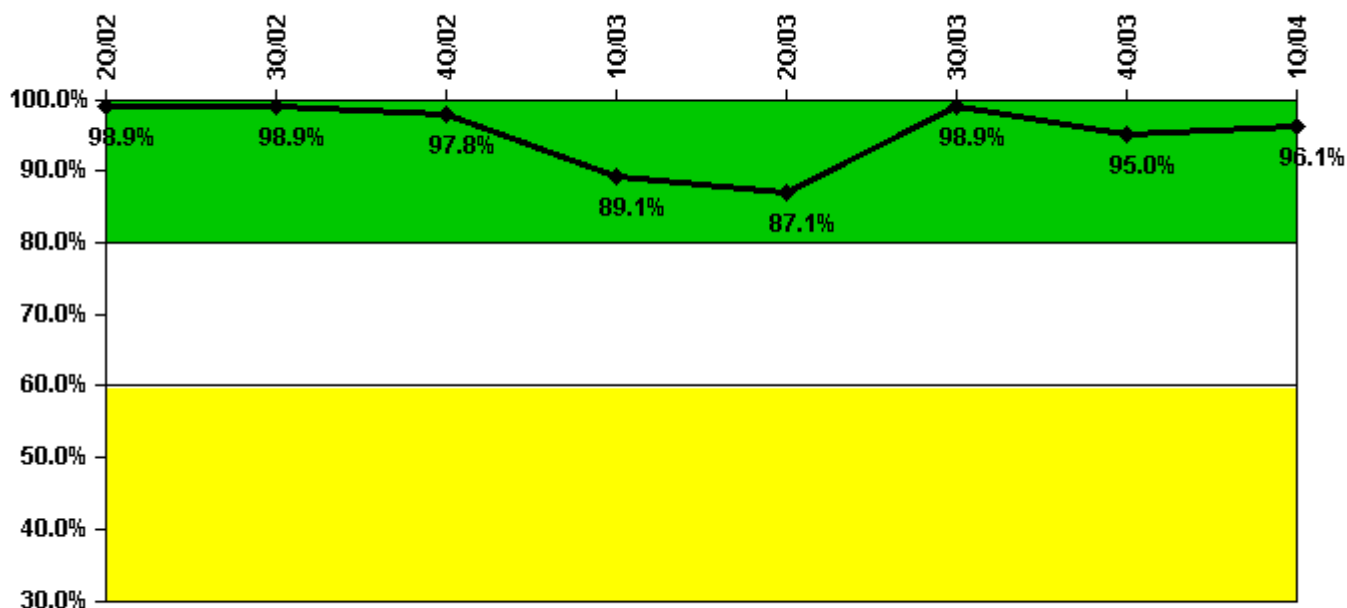
Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 33.0 | 38.0 | 6.0 | 35.0 | 12.0 | 84.0 | 35.0 | 28.0 |
| Total opportunities | 35.0 | 41.0 | 6.0 | 36.0 | 12.0 | 88.0 | 36.0 | 28.0 |
| | | | | | | | | |
| Indicator value | 93.1% | 93.2% | 92.9% | 92.8% | 93.1% | 93.6% | 95.1% | 96.1% |

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

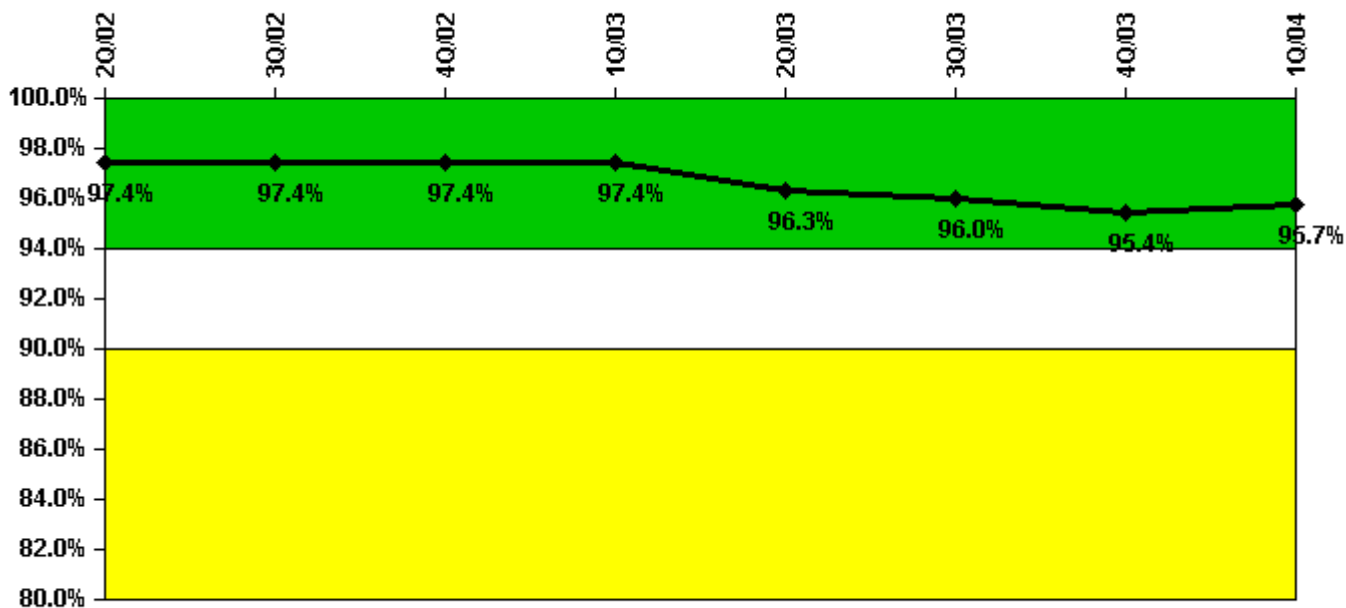
Notes

| ERO Drill Participation | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Participating Key personnel | 88.0 | 91.0 | 87.0 | 82.0 | 81.0 | 91.0 | 96.0 | 99.0 |
| Total Key personnel | 89.0 | 92.0 | 89.0 | 92.0 | 93.0 | 92.0 | 101.0 | 103.0 |
| | | | | | | | | |
| Indicator value | 98.9% | 98.9% | 97.8% | 89.1% | 87.1% | 98.9% | 95.0% | 96.1% |

Licensee Comments:

3Q/03: Removed drill participation credit for an individual who participated in a drill under instruction. The change affects the data for the 3rd quarter 2003. This change did not result in crossing a threshold or changing the color of the indicator.

Alert & Notification System



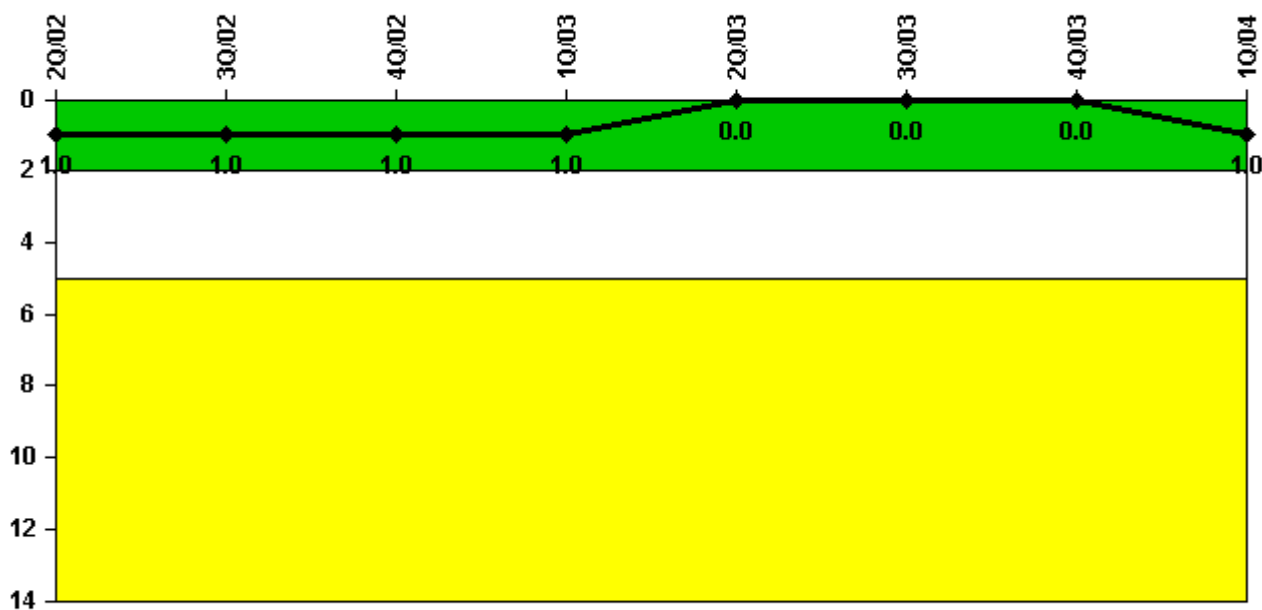
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests | 84 | 86 | 85 | 84 | 80 | 85 | 83 | 85 |
| Total sirens-tests | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| | | | | | | | | |
| Indicator value | 97.4% | 97.4% | 97.4% | 97.4% | 96.3% | 96.0% | 95.4% | 95.7% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



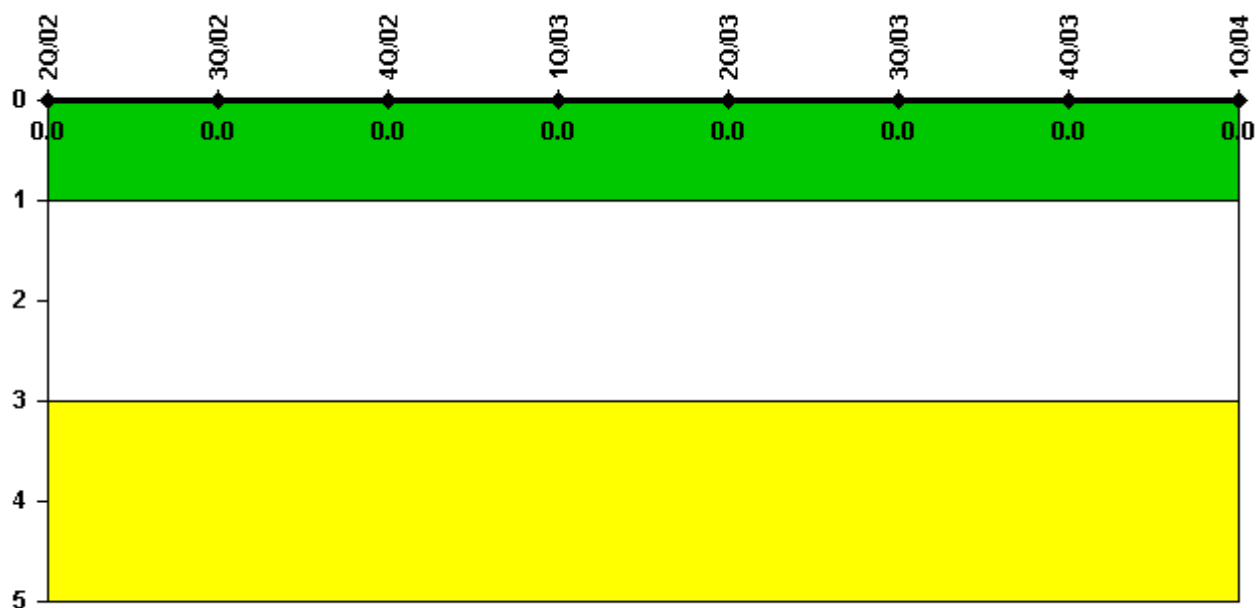
Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| High radiation area occurrences | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 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 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |

Licensee Comments: none

RETS/ODCM Radiological Effluent



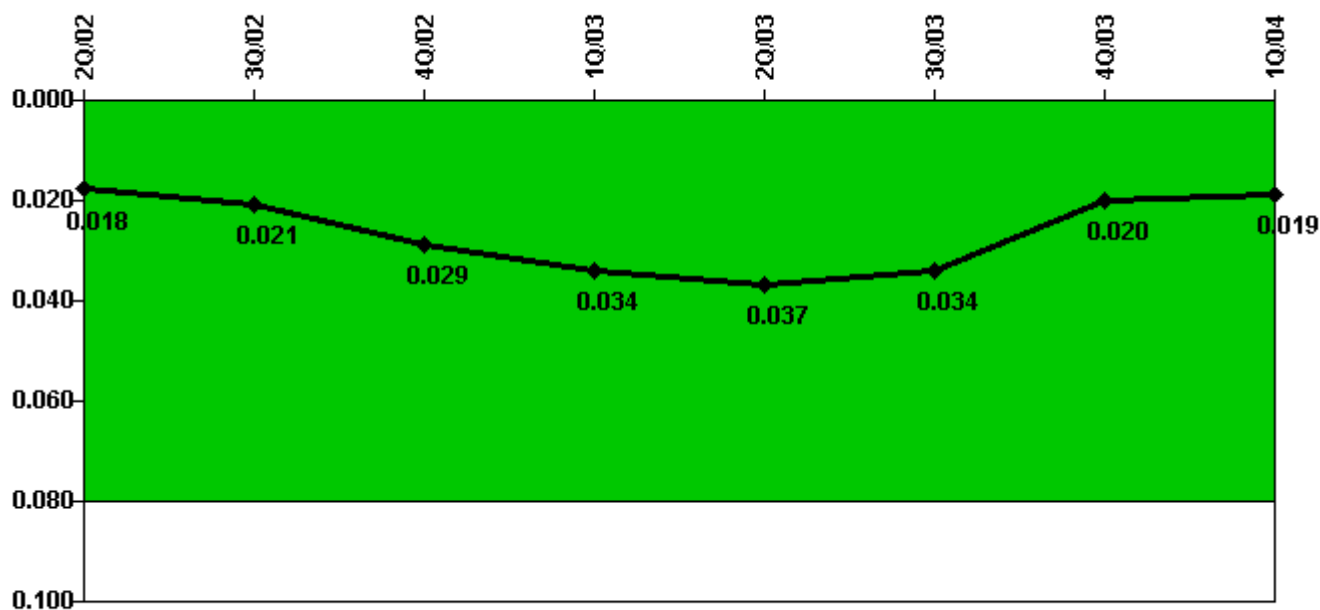
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Protected Area Security Performance Index



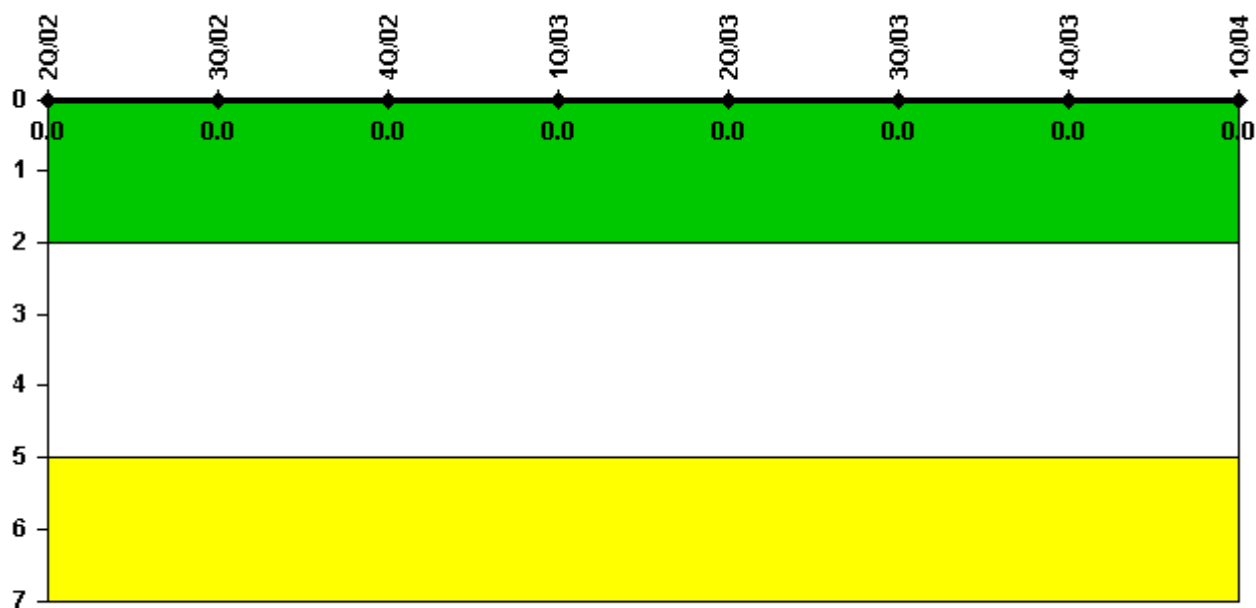
Thresholds: White > 0.080

Notes

| Protected Area Security Performance Index | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| IDS compensatory hours | 218.30 | 81.30 | 331.70 | 14.50 | 24.70 | 61.50 | 1.10 | 118.10 |
| CCTV compensatory hours | 12.6 | 35.4 | 2.5 | 85.6 | 194.1 | 0 | 0 | 0 |
| 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 | 0.021 | 0.029 | 0.034 | 0.037 | 0.034 | 0.020 | 0.019 |

Licensee Comments: none

Personnel Screening Program



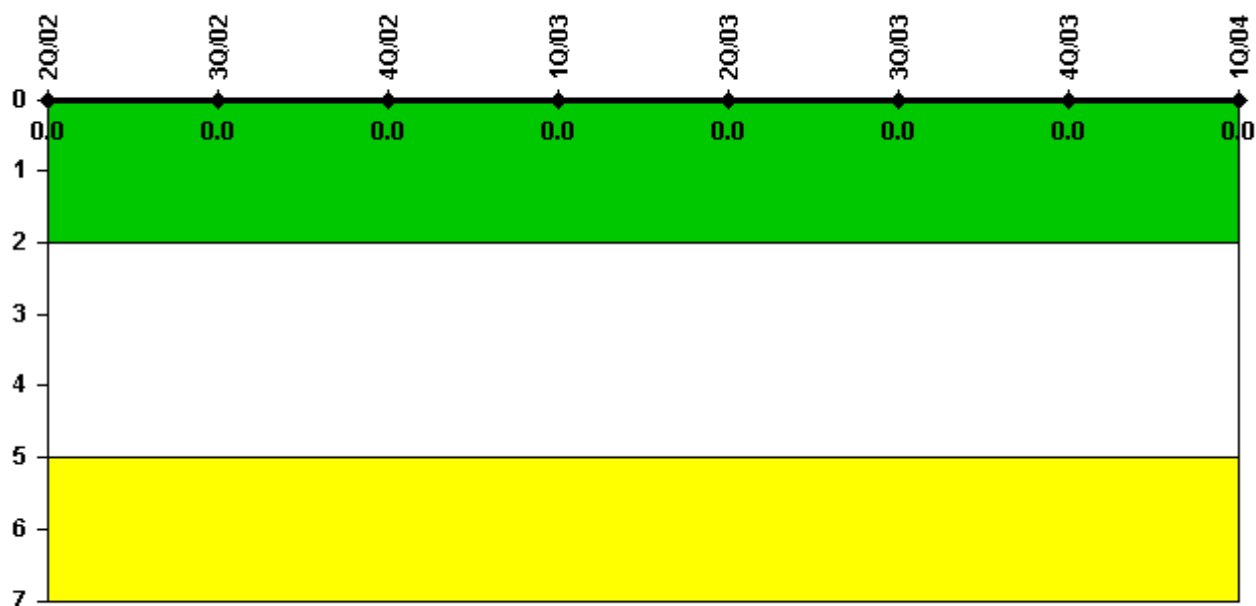
Thresholds: White > 2.0 Yellow > 5.0

Notes

| Personnel Screening Program | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 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/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

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

Last Modified: April 22, 2004