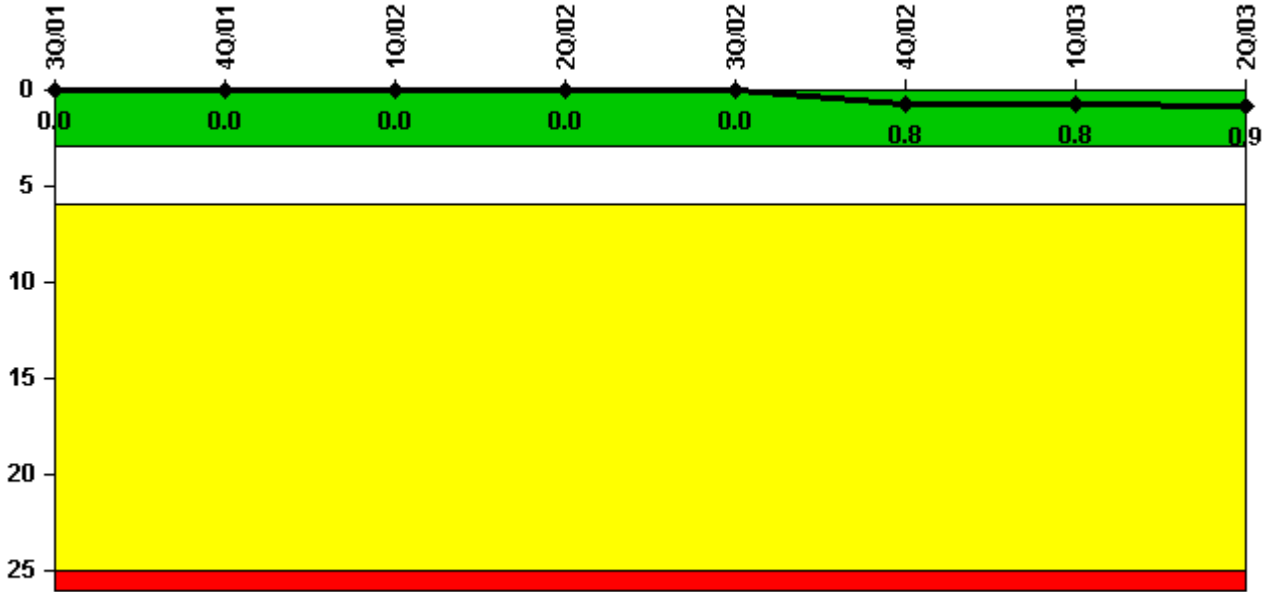


Palisades

2Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



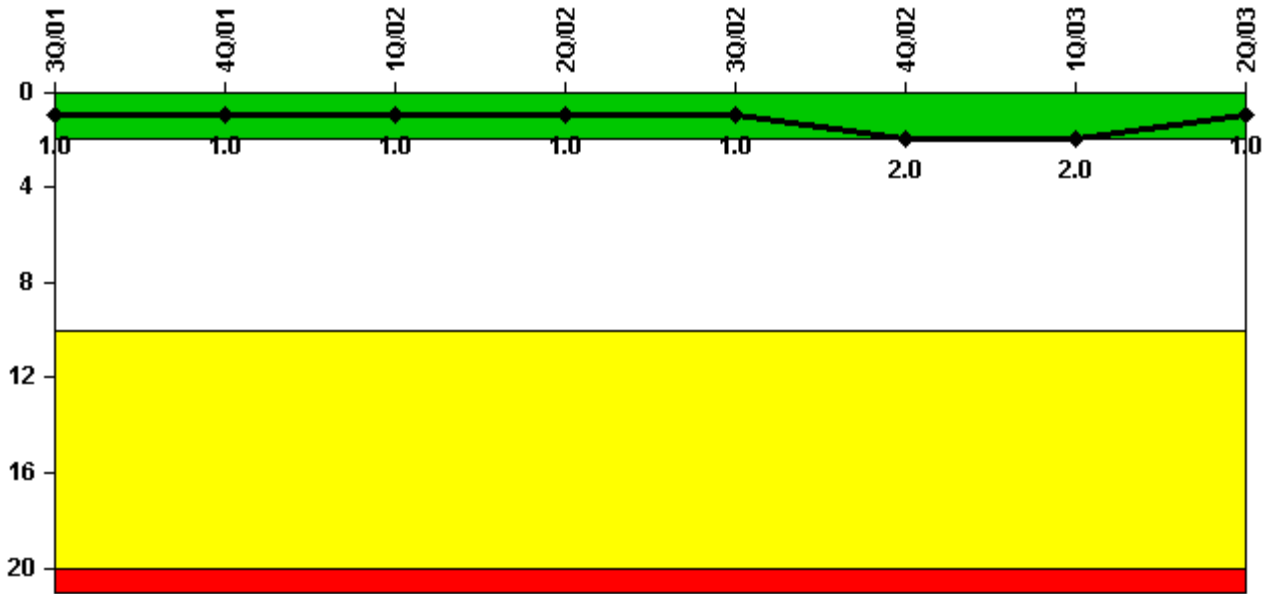
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|--|-------|-------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 0 | 0 | 1768.4 | 2183.0 | 2208.0 | 2142.1 | 1782.4 | 1743.9 |
| | | | | | | | | |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0.8 | 0.8 | 0.9 |

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



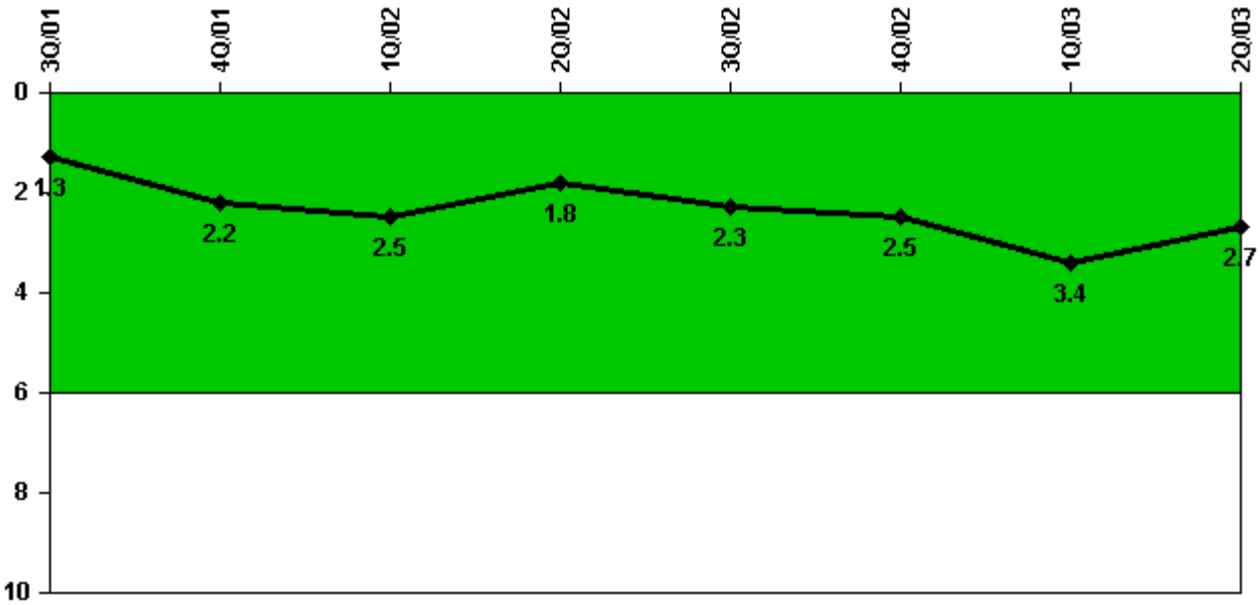
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

| Scrams with Loss of Normal Heat Removal | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Scrams | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 |
| | | | | | | | | |
| Indicator value | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 1.0 |

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



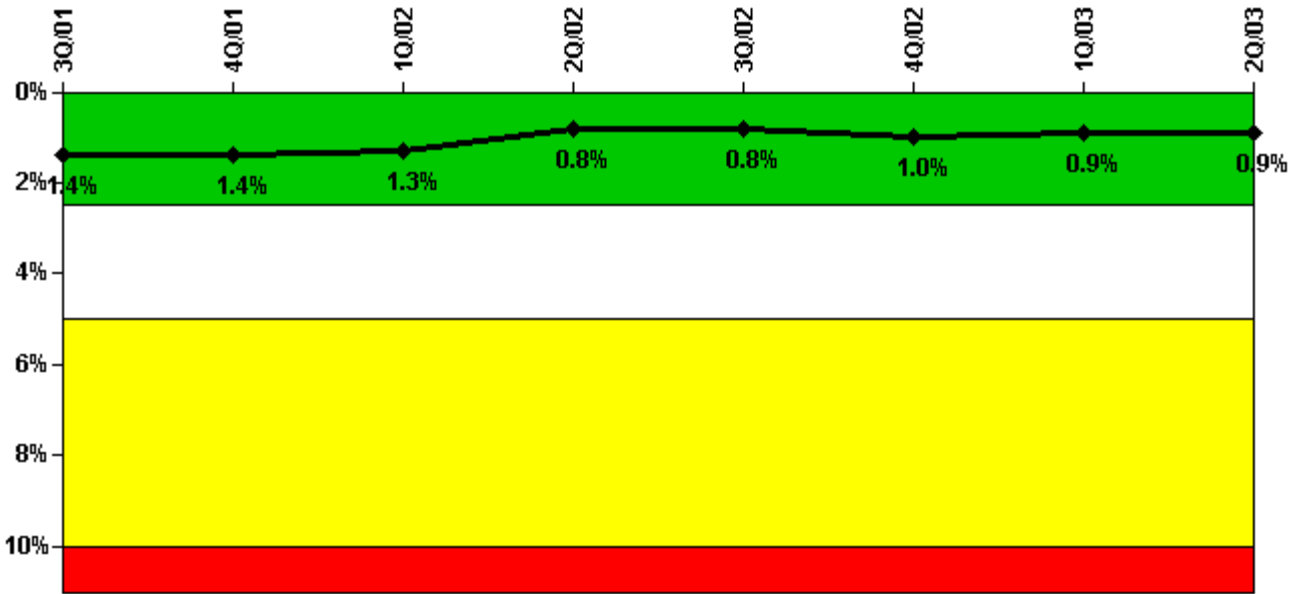
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|-------|-------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes | 0 | 0 | 0 | 1.0 | 1.0 | 1.0 | 1.0 | 0 |
| Critical hours | 0 | 0 | 1768.4 | 2183.0 | 2208.0 | 2142.1 | 1782.4 | 1743.9 |
| | | | | | | | | |
| Indicator value | 1.3 | 2.2 | 2.5 | 1.8 | 2.3 | 2.5 | 3.4 | 2.7 |

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

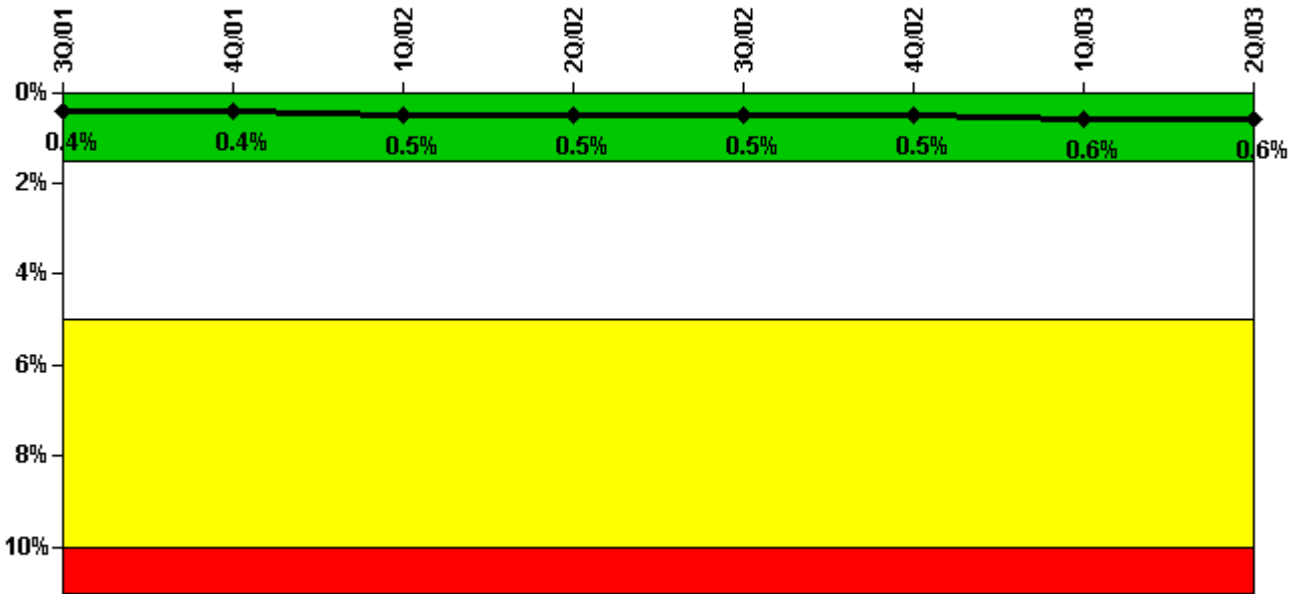
Notes

| Safety System Unavailability, Emergency AC Power | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0.57 | 47.22 | 3.75 | 64.58 | 7.33 | 12.80 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 5.72 | 5.07 | 5.57 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 4.57 | 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 | 2160.00 | 2183.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0.99 | 0.57 | 3.23 | 84.63 | 2.67 | 17.57 |
| Unplanned unavailable hours | 0 | 0 | 6.18 | 0 | 32.32 | 0 | 15.77 | 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 | 2160.00 | 2183.00 |
| Indicator value | 1.4% | 1.4% | 1.3% | 0.8% | 0.8% | 1.0% | 0.9% | 0.9% |

Licensee Comments:

1Q/03: Data adjusted for Train 1 planned and unplanned unavailability for the month of February 2003. The revision results in an increase in diesel generator unavailability of 46 minutes.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

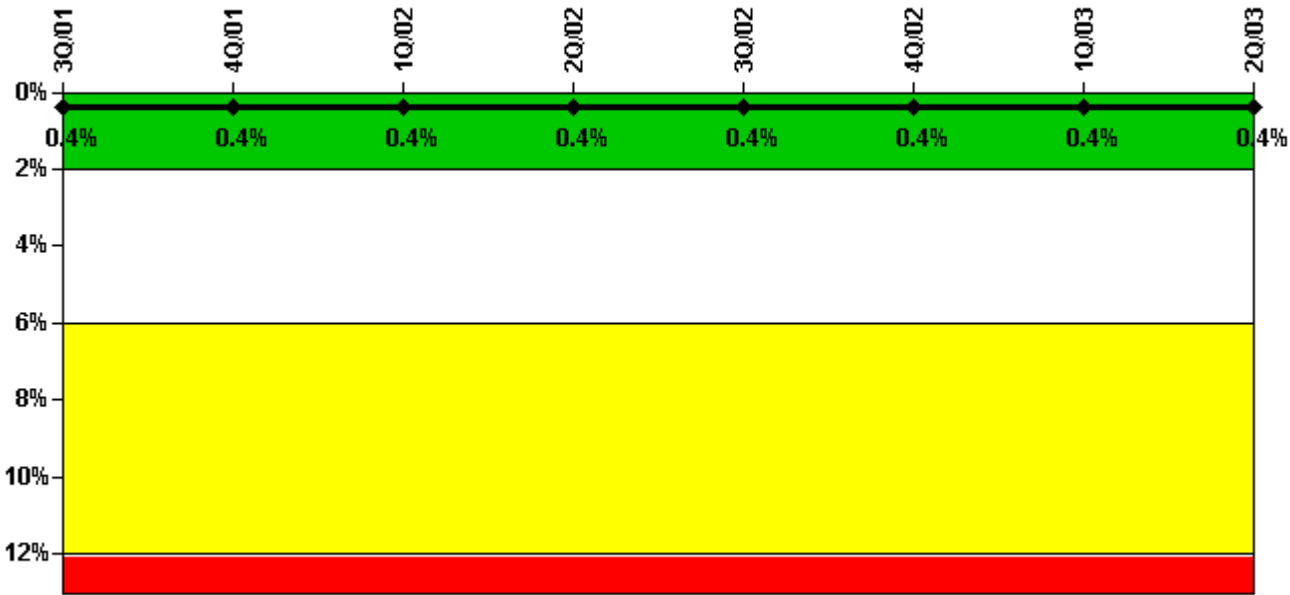
Notes

| Safety System Unavailability, High Pressure Injection System (HPSI) | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|-------|-------|---------|---------|---------|---------|---------|---------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 10.93 | 0 | 6.06 | 0.68 | 18.96 | 12.78 |
| Unplanned unavailable hours | 0 | 0 | 8.72 | 0 | 0 | 18.22 | 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 | 0 | 0 | 1851.33 | 2183.00 | 2208.00 | 2209.00 | 1795.10 | 1777.52 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 12.58 | 23.08 | 0.37 | 4.22 | 6.29 | 0 |
| 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 | 0 | 0 | 1851.33 | 2183.00 | 2208.00 | 2209.00 | 1795.10 | 1777.52 |
| | | | | | | | | |
| Indicator value | 0.4% | 0.4% | 0.5% | 0.5% | 0.5% | 0.5% | 0.6% | 0.6% |

Licensee Comments:

4Q/02: Train 1 December 2002 unplanned unavailable hours were adjusted from 9.82 to 18.22. The adjustment reflects correction for documented hours for system tagout.

Safety System Unavailability, Heat Removal System (AFW)



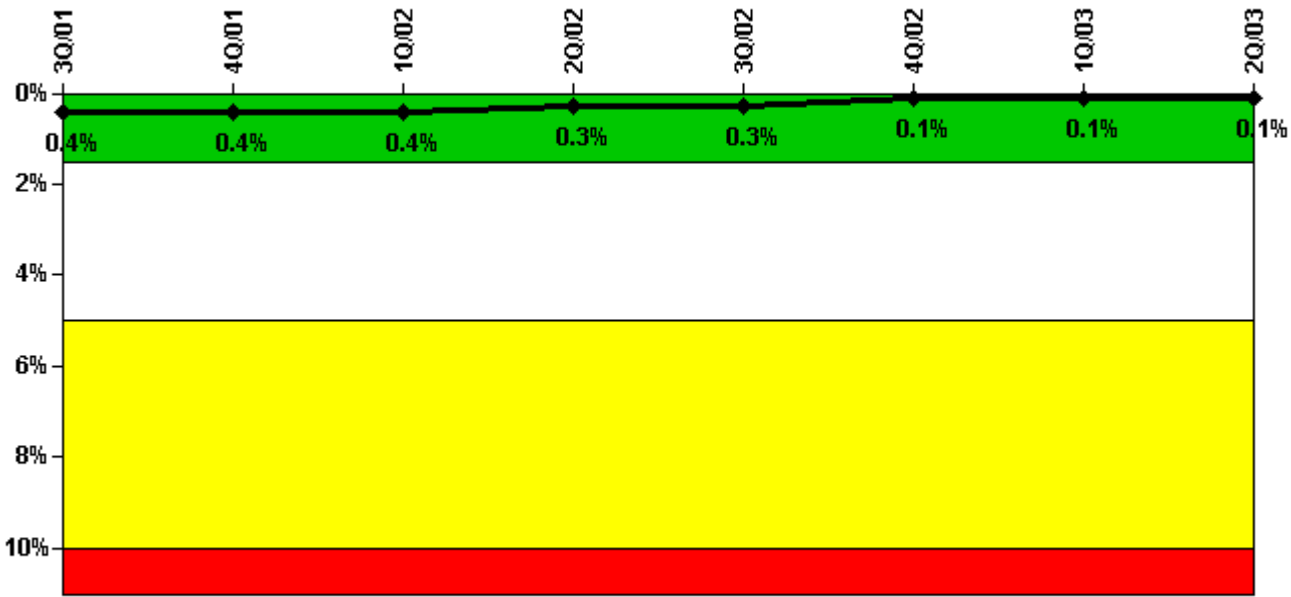
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

| Safety System Unavailability, Heat Removal System (AFW) | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|-------|-------|---------|---------|---------|---------|---------|---------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 4.40 | 2.48 | 6.18 | 5.38 | 1.42 | 1.27 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0.32 | 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 | 0 | 0 | 1851.33 | 2183.00 | 2208.00 | 2209.00 | 1795.10 | 1777.52 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 1.22 | 3.55 | 6.18 | 2.06 | 1.88 | 15.51 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0.32 | 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 | 0 | 0 | 1768.40 | 2183.00 | 2208.00 | 2209.00 | 1795.10 | 1777.52 |
| Train 3 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 1.08 | 0.73 | 9.30 | 0.95 | 10.15 | 26.48 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0.18 | 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 | 0 | 0 | 1851.33 | 2183.00 | 2208.00 | 2209.00 | 1795.10 | 1777.52 |
| Indicator value | 0.4% | 0.4% | 0.4% | 0.4% | 0.4% | 0.4% | 0.4% | 0.4% |

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

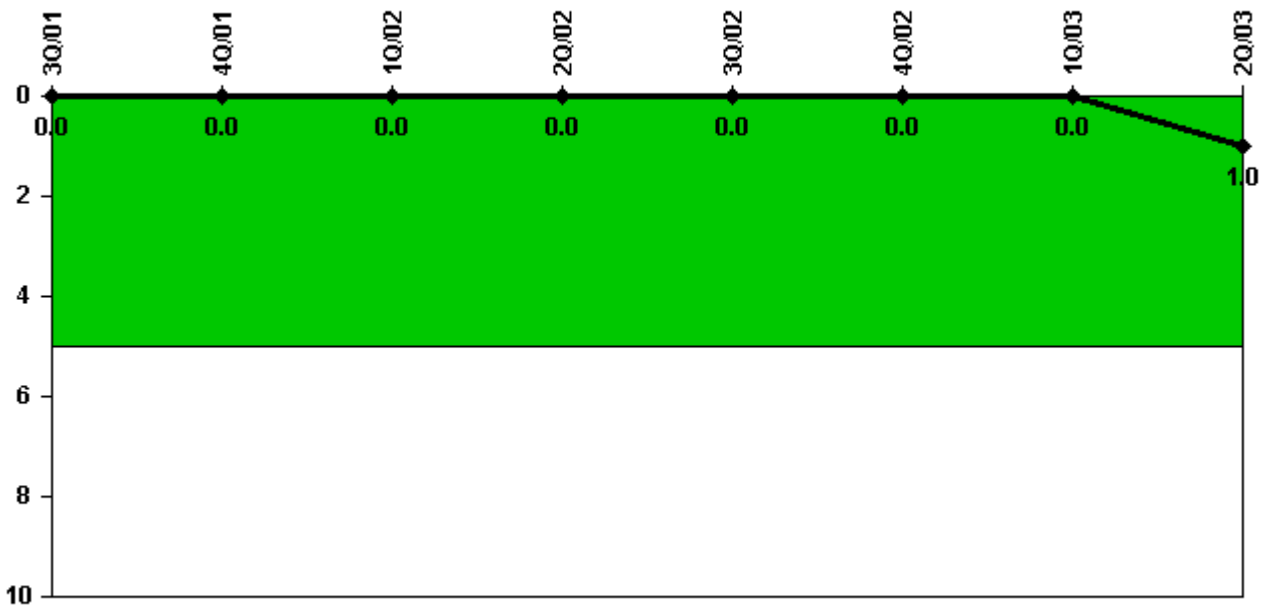
Notes

| Safety System Unavailability, Residual Heat Removal System | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|--|-------|-------|---------|---------|---------|---------|---------|---------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 2.30 | 0.92 | 1.01 | 8.20 | 17.59 | 0.90 |
| 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 | 0 | 0 | 1851.33 | 2183.00 | 2208.00 | 2209.00 | 1795.10 | 1777.52 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0.66 | 0 | 0 | 3.38 | 0 |
| 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 | 0 | 0 | 1851.33 | 2183.00 | 2208.00 | 2209.00 | 1795.10 | 1777.52 |
| Train 3 | | | | | | | | |
| Planned unavailable hours | 1.82 | 1.00 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0.33 | 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 | 2208.00 | 2209.00 | 302.12 | 0 | 0 | 0 | 364.90 | 295.68 |
| Train 4 | | | | | | | | |
| Planned unavailable hours | 1.13 | 1.20 | 0 | 0 | 0 | 0 | 9.77 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0.33 | 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 | 2208.00 | 2209.00 | 302.12 | 0 | 0 | 0 | 364.90 | 343.66 |
| | | | | | | | | |
| Indicator value | 0.4% | 0.4% | 0.4% | 0.3% | 0.3% | 0.1% | 0.1% | 0.1% |

Licensee Comments: none

Safety System Functional Failures (PWR)



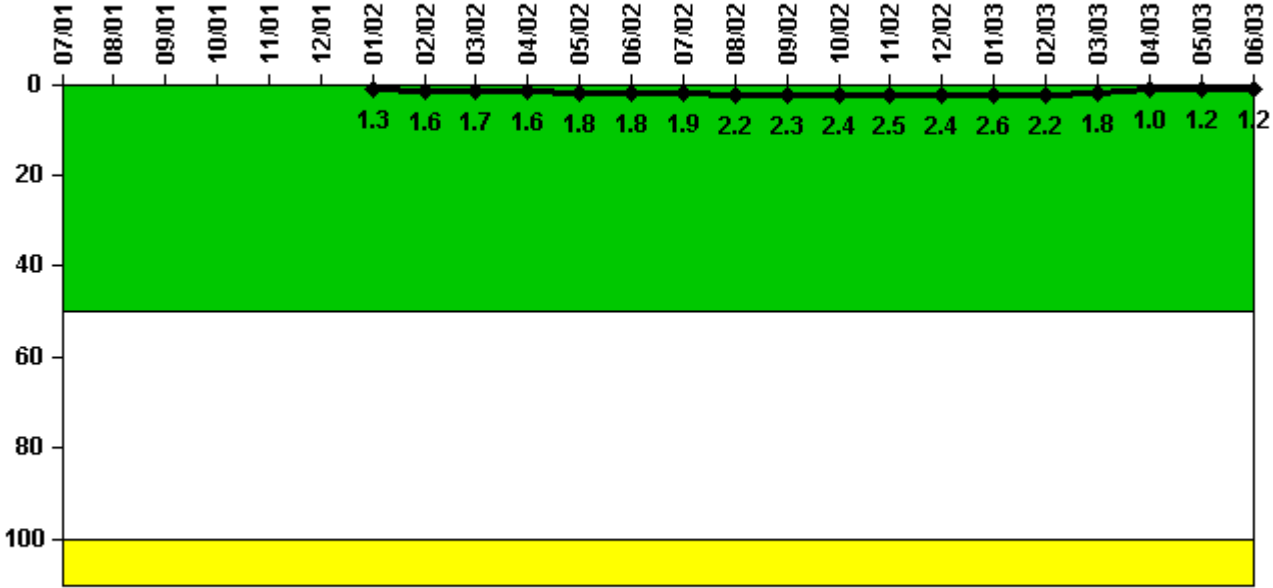
Thresholds: White > 5.0

Notes

| Safety System Functional Failures (PWR) | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | | | | | | | |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

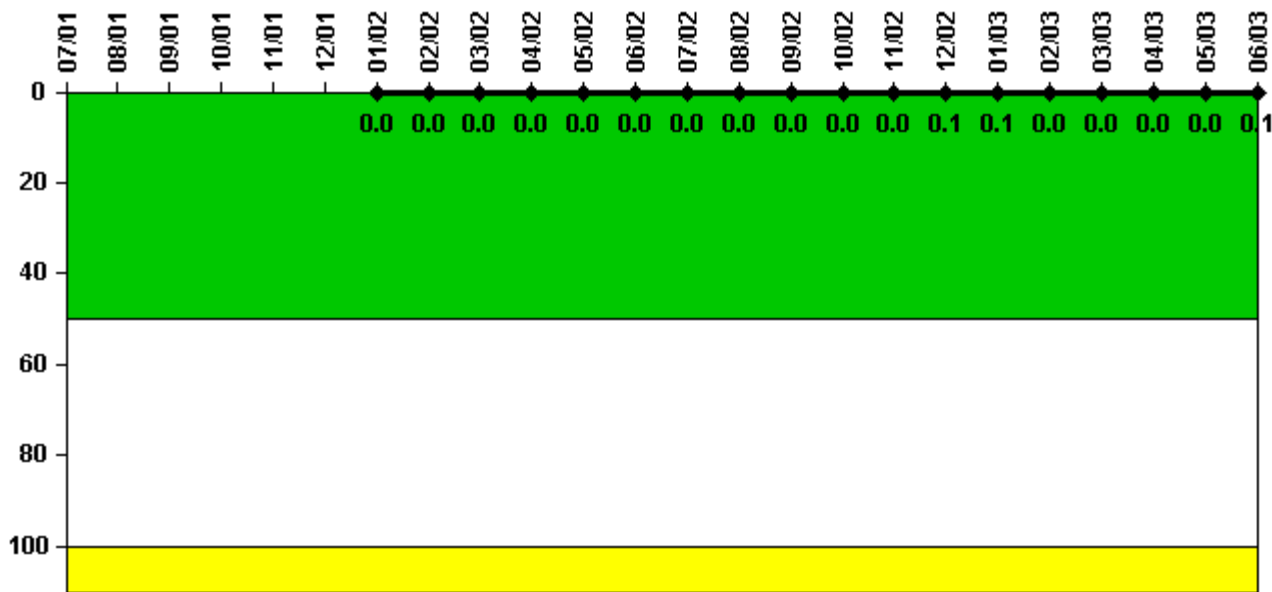
Notes

| Reactor Coolant System Activity | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 | 4/02 | 5/02 | 6/02 |
|---------------------------------|------|------|------|-------|-------|-------|----------|----------|----------|----------|----------|----------|
| Maximum activity | N/A | N/A | N/A | N/A | N/A | N/A | 0.013300 | 0.016400 | 0.017300 | 0.016300 | 0.018100 | 0.018100 |
| 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 | N/A | N/A | N/A | N/A | N/A | N/A | 1.3 | 1.6 | 1.7 | 1.6 | 1.8 | 1.8 |

| 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 | 0.019300 | 0.021700 | 0.022700 | 0.023500 | 0.024700 | 0.024400 | 0.026000 | 0.022200 | 0.017900 | 0.009580 | 0.011800 | 0.011600 |
| 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 | 1.9 | 2.2 | 2.3 | 2.4 | 2.5 | 2.4 | 2.6 | 2.2 | 1.8 | 1.0 | 1.2 | 1.2 |

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

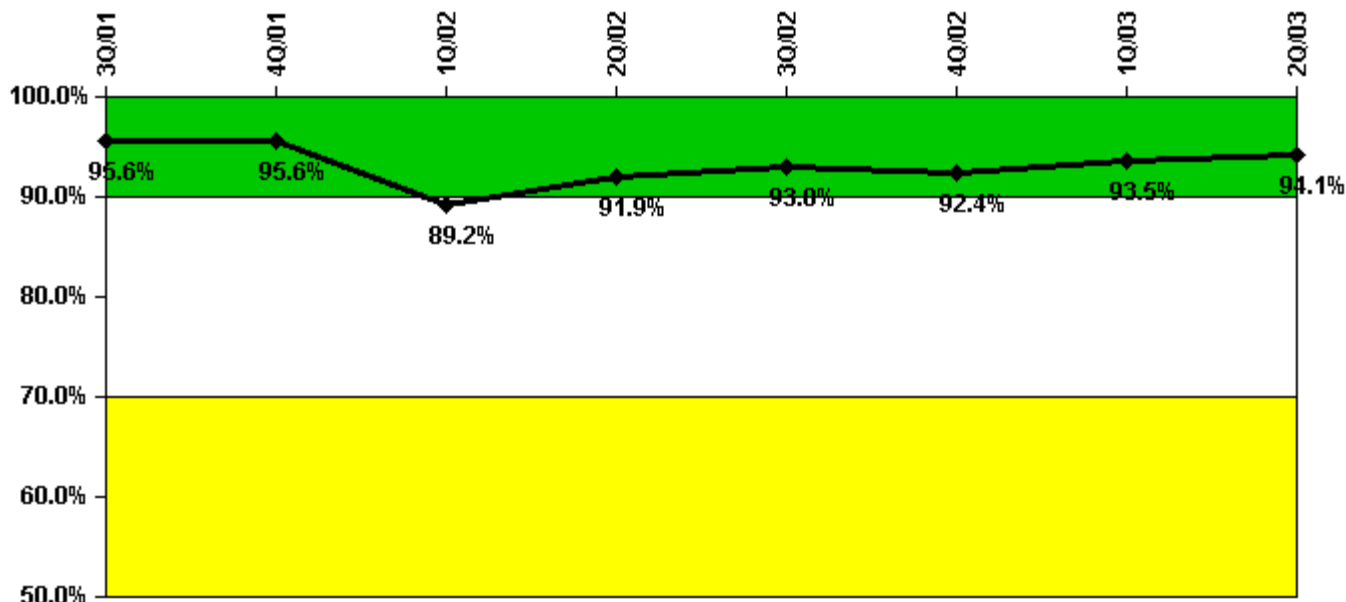
Notes

| Reactor Coolant System Leakage | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 | 4/02 | 5/02 | 6/02 |
|--------------------------------|------|------|------|-------|-------|-------|-------|------|------|-------|-------|-------|
| Maximum leakage | N/A | N/A | N/A | N/A | N/A | N/A | 0.003 | 0 | 0 | 0.002 | 0.002 | 0.002 |
| 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 | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 0 |

| 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 | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.005 | 0.005 | 0.001 | 0.001 | 0.002 | 0.002 | 0.007 |
| 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 | 0 | 0 | 0 | 0 | 0.1 | 0.1 | 0 | 0 | 0 | 0 | 0.1 |

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

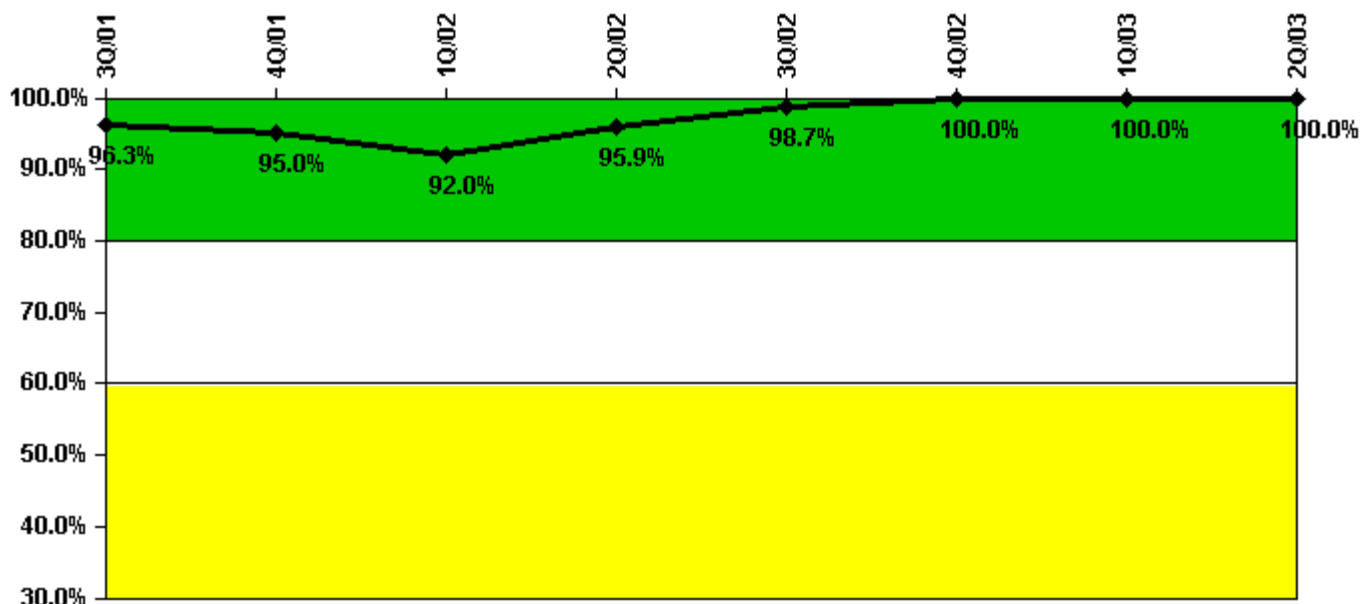
Notes

| Drill/Exercise Performance | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 2.0 | 0 | 15.0 | 69.0 | 11.0 | 24.0 | 38.0 | 18.0 |
| Total opportunities | 2.0 | 0 | 20.0 | 72.0 | 11.0 | 26.0 | 39.0 | 18.0 |
| | | | | | | | | |
| Indicator value | 95.6% | 95.6% | 89.2% | 91.9% | 93.0% | 92.4% | 93.5% | 94.1% |

Licensee Comments:

1Q/03: Data adjusted for March 2003 which resulted in removing 2 opportunities during the month and 2 opportunities performed accurately during the month. Classification and notification associated with a downgrade in classification from an Alert to a Notification of Unusual Event should not have been counted as an opportunity.

ERO Drill Participation



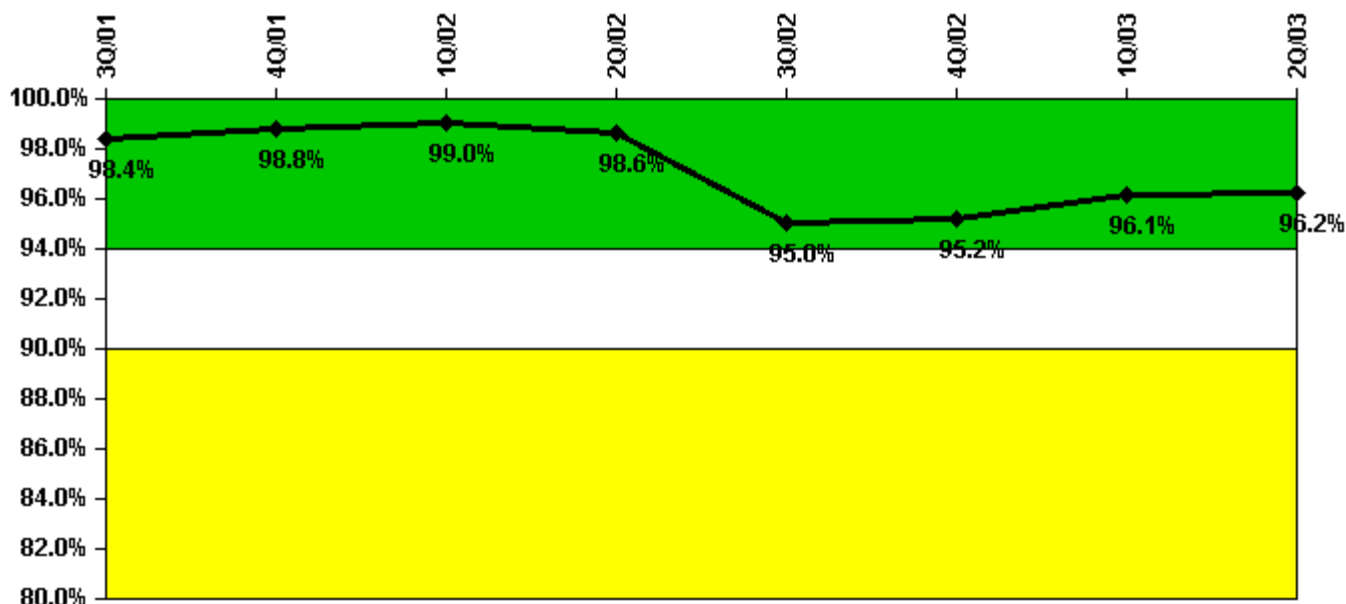
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|-----------------------------|-------|-------|-------|-------|-------|--------|--------|--------|
| Participating Key personnel | 77.0 | 76.0 | 69.0 | 71.0 | 74.0 | 76.0 | 75.0 | 72.0 |
| Total Key personnel | 80.0 | 80.0 | 75.0 | 74.0 | 75.0 | 76.0 | 75.0 | 72.0 |
| | | | | | | | | |
| Indicator value | 96.3% | 95.0% | 92.0% | 95.9% | 98.7% | 100.0% | 100.0% | 100.0% |

Licensee Comments: none

Alert & Notification System



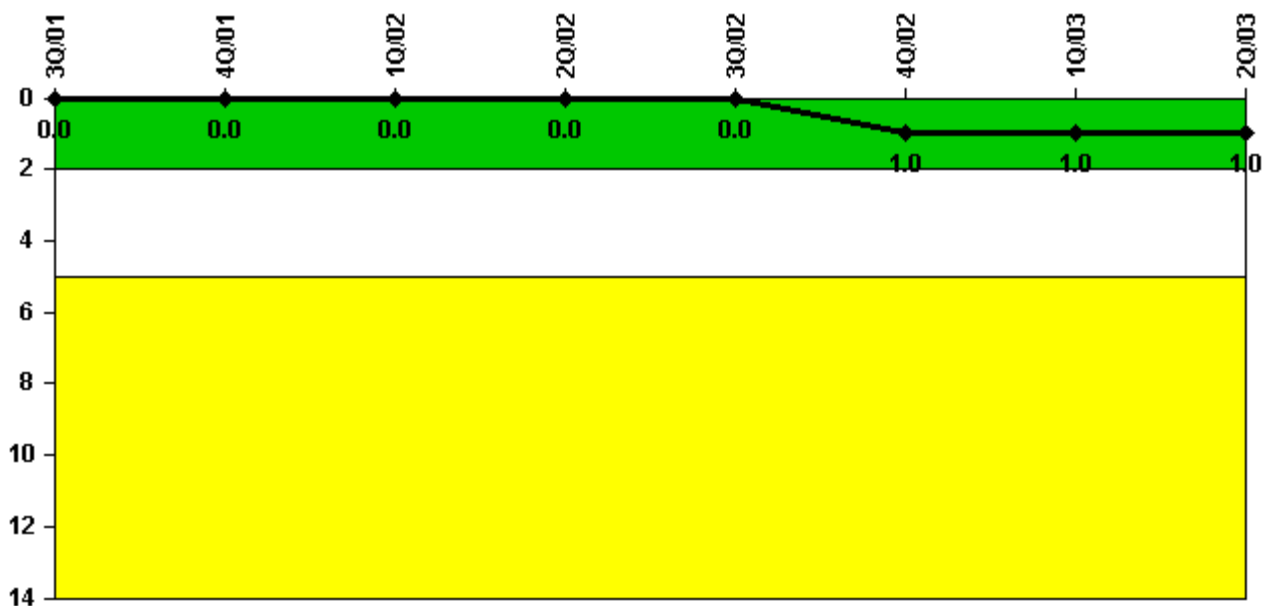
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests | 246 | 250 | 251 | 247 | 210 | 252 | 486 | 182 |
| Total sirens-tests | 252 | 252 | 252 | 252 | 252 | 252 | 488 | 183 |
| | | | | | | | | |
| Indicator value | 98.4% | 98.8% | 99.0% | 98.6% | 95.0% | 95.2% | 96.1% | 96.2% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



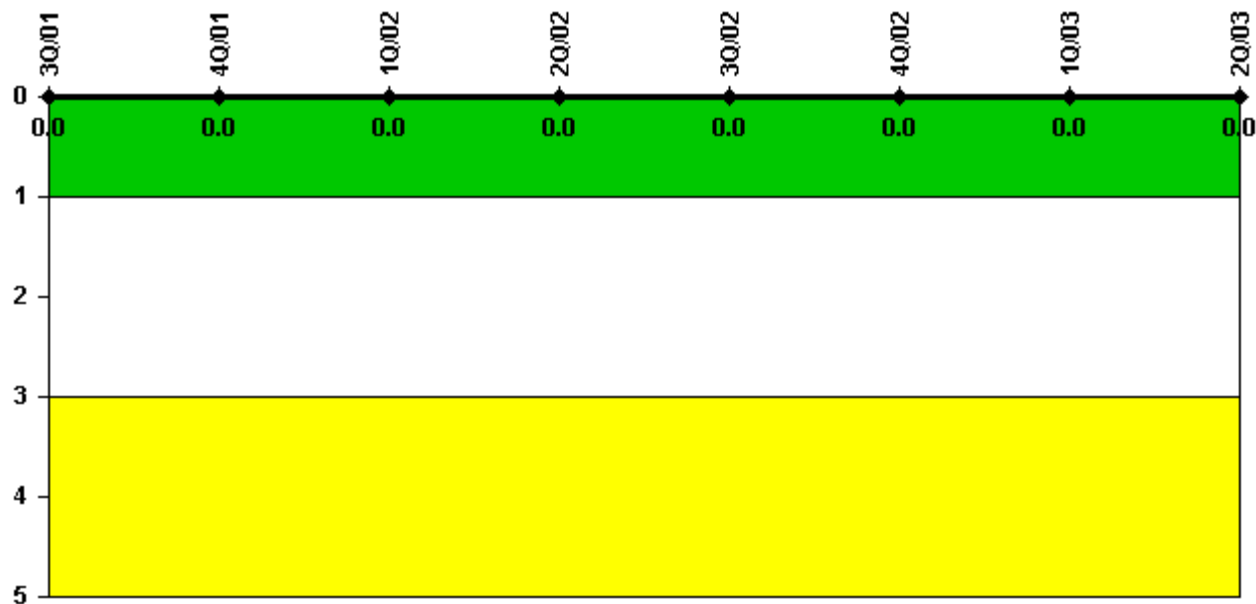
Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 | 1 | 0 | 0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |

Licensee Comments: none

RETS/ODCM Radiological Effluent



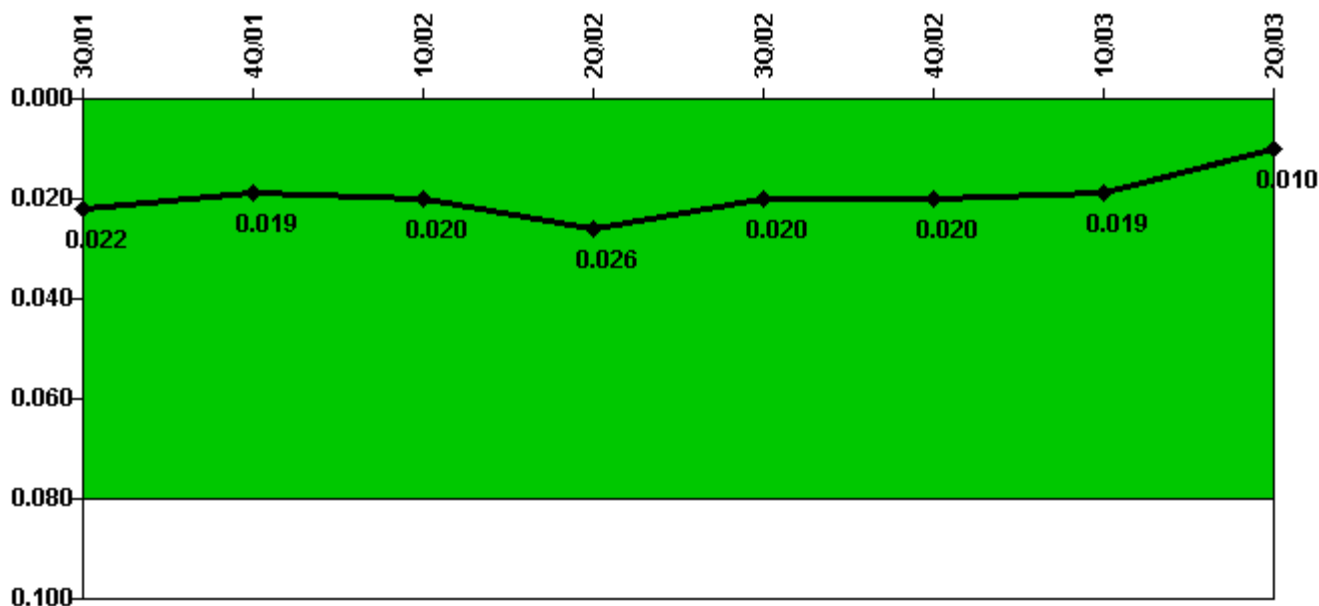
Thresholds: White > 1.0 Yellow > 3.0

Notes

| RETS/ODCM Radiological Effluent | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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



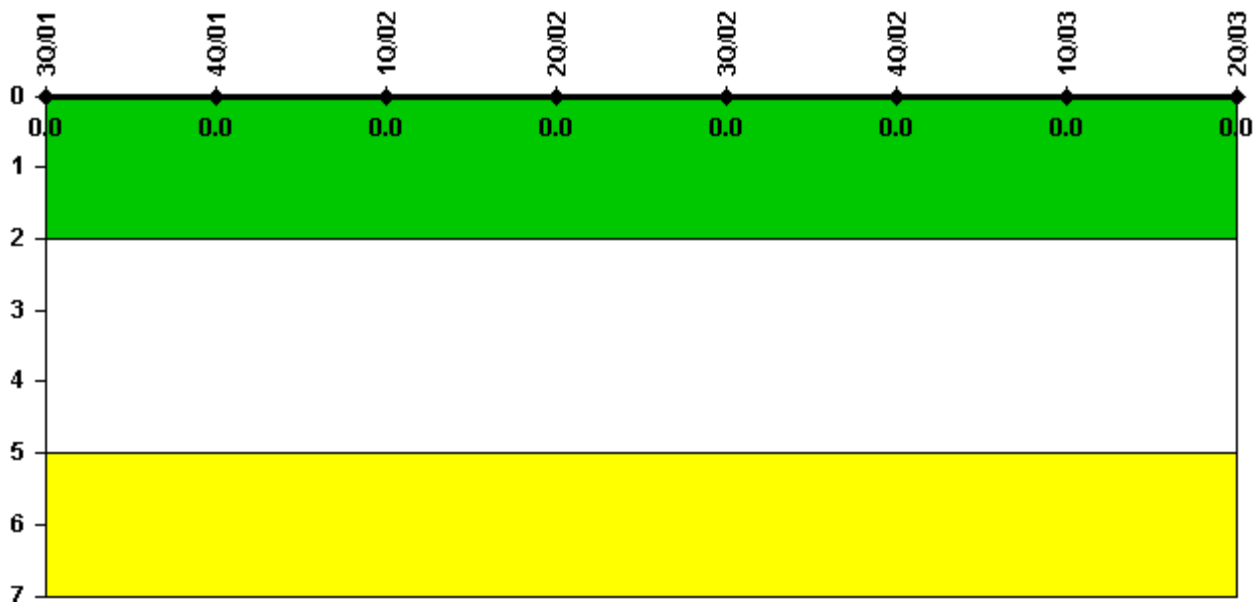
Thresholds: White > 0.080

Notes

| Protected Area Security Performance Index | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|--------|--------|-------|--------|-------|--------|-------|-------|
| IDS compensatory hours | 163.03 | 136.99 | 74.69 | 279.20 | 22.20 | 137.42 | 35.02 | 53.18 |
| CCTV compensatory hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IDS normalization factor | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 |
| CCTV normalization factor | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| | | | | | | | | |
| Index Value | 0.022 | 0.019 | 0.020 | 0.026 | 0.020 | 0.020 | 0.019 | 0.010 |

Licensee Comments: none

Personnel Screening Program



Thresholds: White > 2.0 Yellow > 5.0

Notes

| Personnel Screening Program | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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: July 22, 2003