

Fort Calhoun

3Q/2001 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/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1261.4 | 2184.0 | 2156.1 | 2208.0 | 1664.3 | 1776.8 | 1541.0 | 2208.0 |
| | | | | | | | | |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



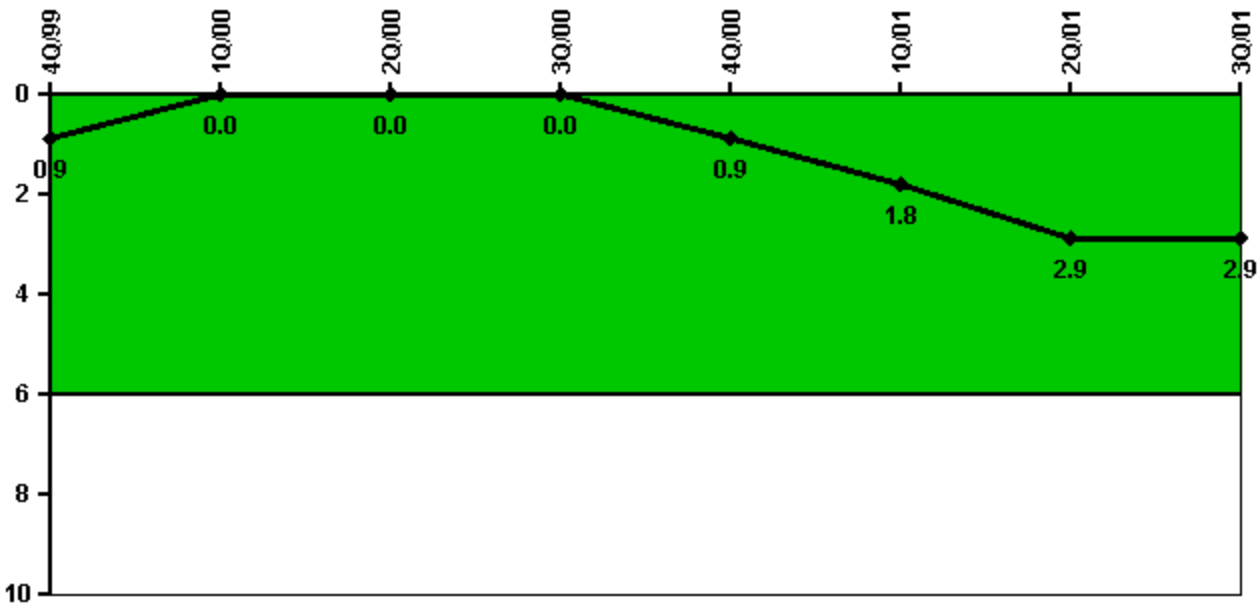
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

| Scrams with Loss of Normal Heat Removal | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 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



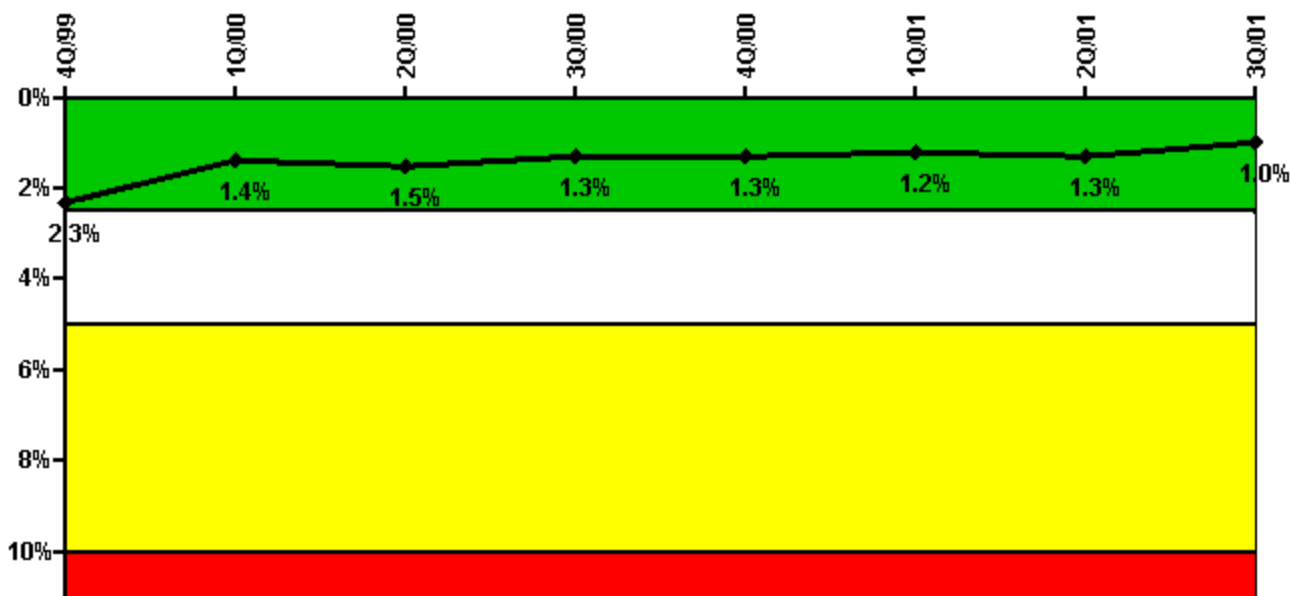
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes | 0 | 0 | 0 | 0 | 1.0 | 1.0 | 1.0 | 0 |
| Critical hours | 1261.4 | 2184.0 | 2156.1 | 2208.0 | 1664.3 | 1776.8 | 1541.0 | 2208.0 |
| Indicator value | 0.9 | 0 | 0 | 0 | 0.9 | 1.8 | 2.9 | 2.9 |

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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 8.30 | 12.90 | 26.90 | 16.40 | 31.50 | 15.40 | 14.88 | 24.50 |
| Unplanned unavailable hours | 4.10 | 0 | 3.30 | 0 | 5.80 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 420.10 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2184.00 | 2208.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 12.35 | 13.80 | 17.40 | 22.20 | 17.20 | 23.05 | 10.58 | 11.00 |
| Unplanned unavailable hours | 0 | 0 | 12.00 | 0 | 8.00 | 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 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2184.00 | 2208.00 |
| | | | | | | | | |
| Indicator value | 2.3% | 1.4% | 1.5% | 1.3% | 1.3% | 1.2% | 1.3% | 1.0% |

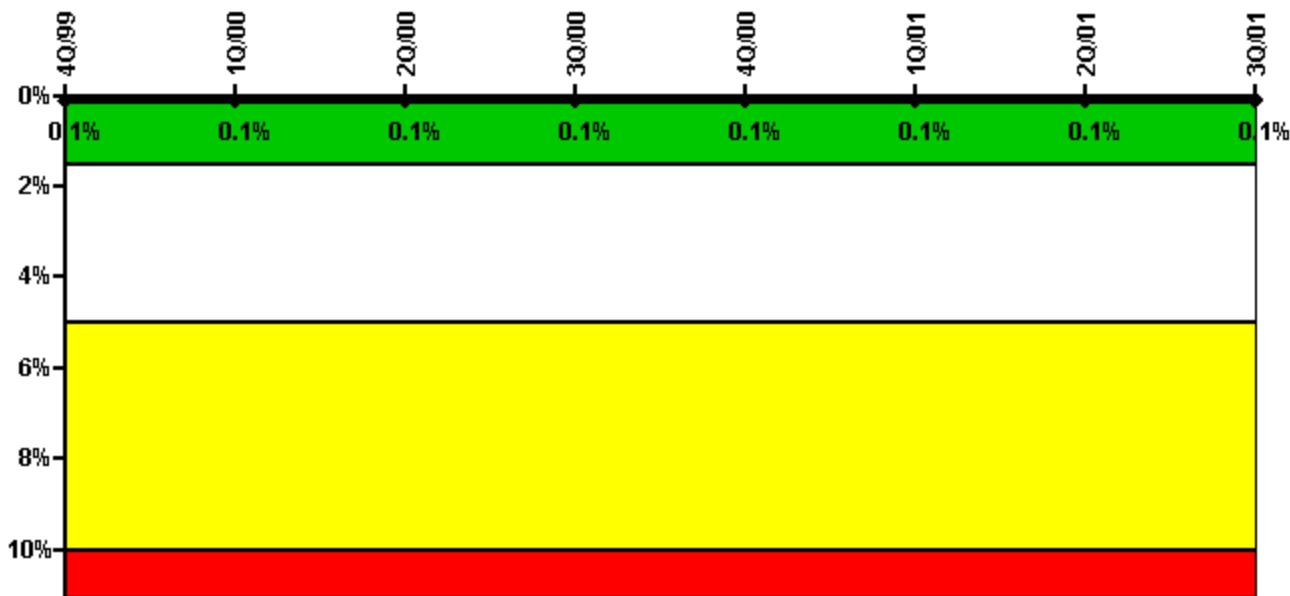
Licensee Comments:

3Q/97: The conditions in NEI 99-02 rev. 0 for removal of the 420.1 hours of fault exposure from train 1 have been met and the fault exposure is being reset to 0.

Effective Reset Comments:

1Q/00: Reset of fault exposure hours as requested by the NRC

Safety System Unavailability, High Pressure Injection System (HPSI)



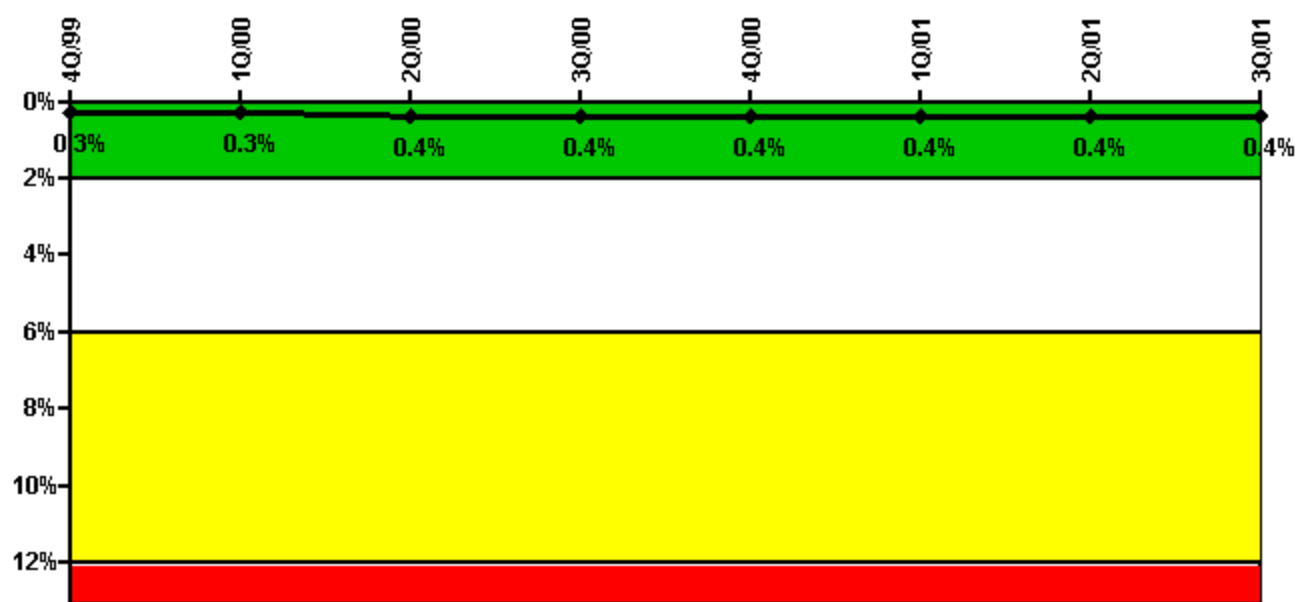
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, High Pressure Injection System (HPSI) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 1261.38 | 2184.00 | 2183.00 | 2208.00 | 1664.30 | 1776.83 | 1541.00 | 2208.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 0.40 | 9.20 | 6.60 | 0.50 | 0.40 | 5.40 | 0 | 8.90 |
| 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 | 1261.38 | 2184.00 | 2183.00 | 2208.00 | 1664.30 | 1776.83 | 1541.00 | 2208.00 |
| Indicator value | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% |

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



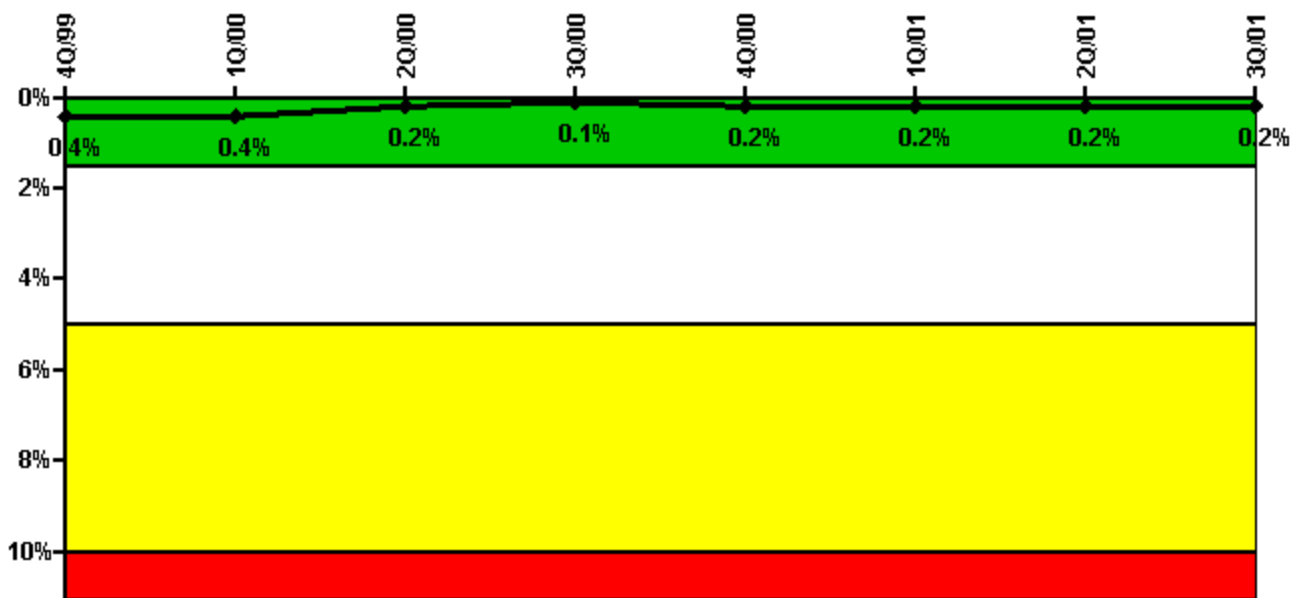
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

| Safety System Unavailability, Heat Removal System (AFW) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 7.70 | 8.30 | 1.05 | 17.88 | 12.69 | 3.68 | 0 | 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 | 1261.38 | 2184.00 | 2183.00 | 2208.00 | 1664.28 | 1776.83 | 1541.00 | 2208.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 2.20 | 10.45 | 7.00 | 0.90 | 0 | 6.10 | 12.50 | 14.08 |
| Unplanned unavailable hours | 0 | 0 | 28.10 | 0 | 0 | 0 | 11.00 | 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 | 1261.38 | 2184.00 | 2155.10 | 2208.00 | 1664.28 | 1776.83 | 1541.00 | 2208.00 |
| | | | | | | | | |
| Indicator value | 0.3% | 0.3% | 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

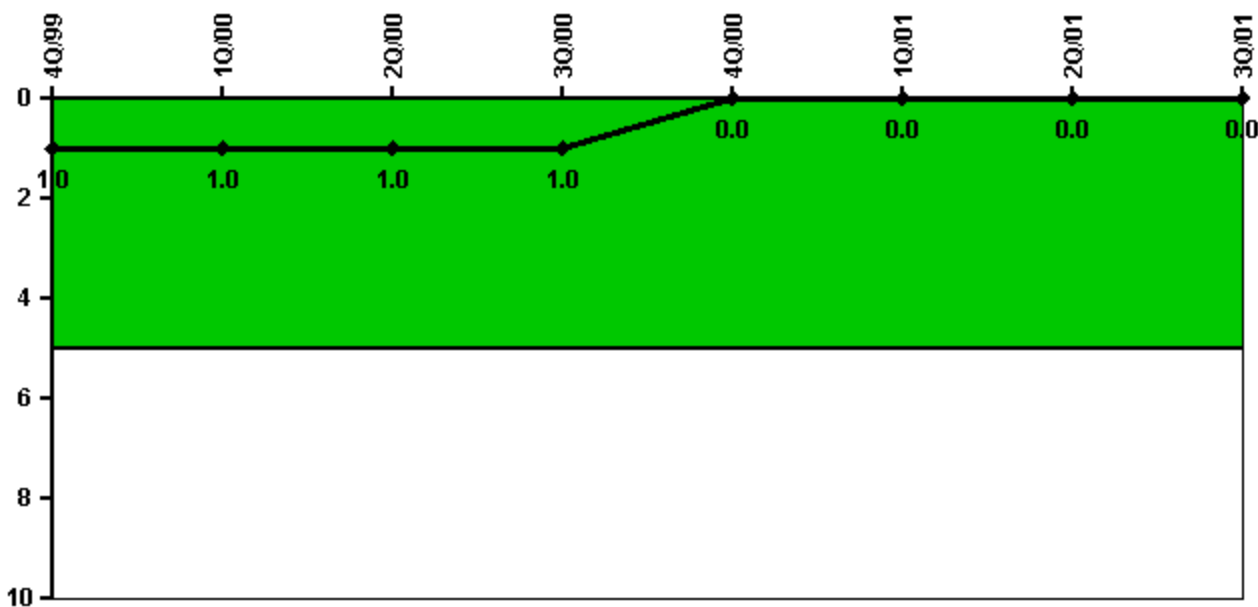
| Safety System Unavailability, Residual Heat Removal System | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0 | 4.90 | 2.90 | 0.30 | 21.60 | 4.40 | 0.40 | 0.40 |
| 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 | 1261.38 | 2184.00 | 2156.10 | 2208.00 | 1664.30 | 1776.83 | 1541.00 | 2208.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 0.40 | 1.30 | 8.50 | 0 | 0 | 3.20 | 0 | 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 | 1261.38 | 2184.00 | 2156.10 | 2208.00 | 1664.30 | 1776.83 | 1541.00 | 2208.00 |
| Train 3 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 6.20 | 0 | 0.40 | 0 | 0 | 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 | 947.62 | 0 | 26.90 | 0 | 544.70 | 383.17 | 642.00 | 0 |
| Train 4 | | | | | | | | |
| Planned unavailable hours | 0.40 | 0 | 0 | 0 | 2.00 | 0 | 0 | 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 | 947.62 | 0 | 26.90 | 0 | 544.70 | 383.17 | 642.00 | 0 |
| Indicator value | 0.4% | 0.4% | 0.2% | 0.1% | 0.2% | 0.2% | 0.2% | 0.2% |

Licensee Comments:

3Q/01: RHR Unavailable hours for 2Q96 through 3Q01 revised to reflect changes resulting from internal review. Changes did not result in a threshold color change.

2Q/00: Train 1 includes SI-3A. Train 2 includes SI-3B. Train 3 includes SI-1A. Train 4 includes SI-1B and SI-3C. Data for 2Q96 through 2Q00 submitted as part of the expansion to 4 trains for CE plants FAQ 172, Option 1.

Safety System Functional Failures (PWR)



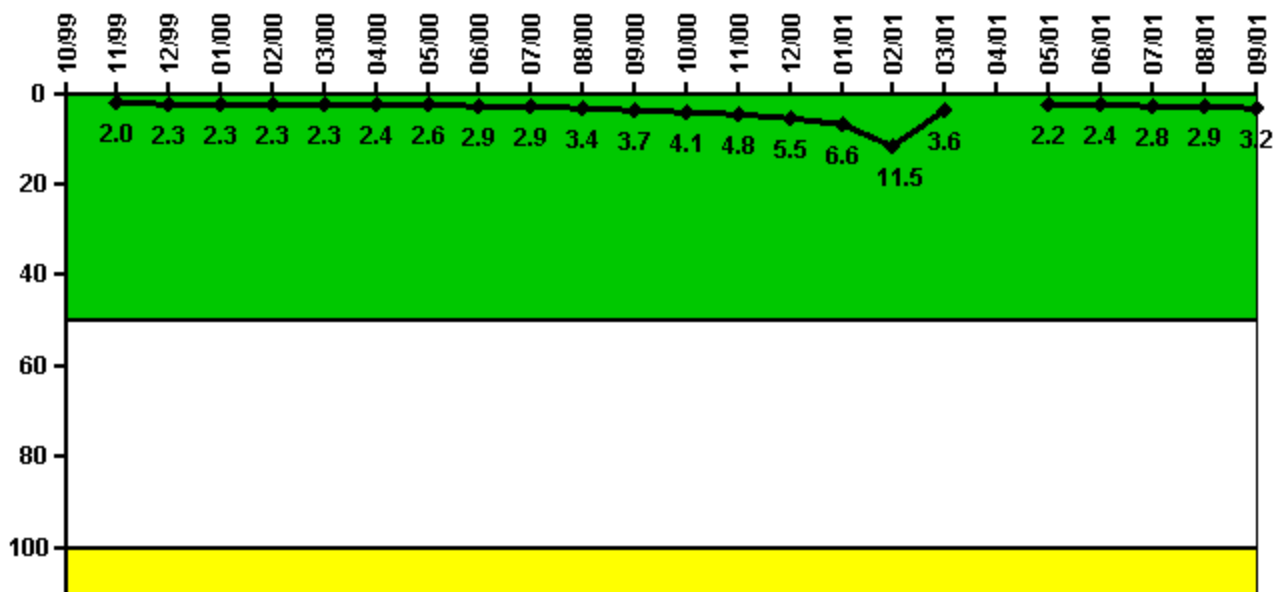
Thresholds: White > 5.0

Notes

| Safety System Functional Failures (PWR) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 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

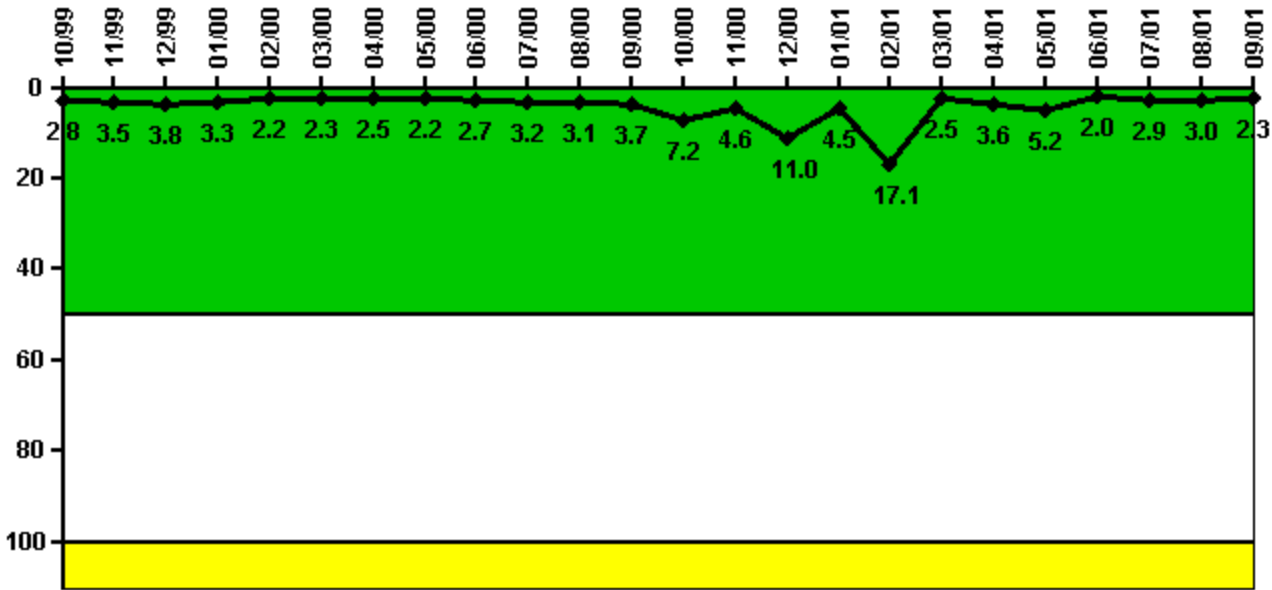
Notes

| Reactor Coolant System Activity | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 |
|---------------------------------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | N/A | 0.019800 | 0.022900 | 0.022800 | 0.022800 | 0.022900 | 0.024100 | 0.025700 | 0.028500 | 0.029200 | 0.033600 | 0.037100 |
| 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 | 2.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.4 | 2.6 | 2.9 | 2.9 | 3.4 | 3.7 |

| Reactor Coolant System Activity | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 |
|---------------------------------|----------|----------|----------|----------|----------|----------|------|----------|----------|----------|----------|----------|
| Maximum activity | 0.040900 | 0.047600 | 0.055400 | 0.065800 | 0.115000 | 0.036100 | N/A | 0.022200 | 0.024200 | 0.027900 | 0.029100 | 0.032400 |
| 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 | 4.1 | 4.8 | 5.5 | 6.6 | 11.5 | 3.6 | N/A | 2.2 | 2.4 | 2.8 | 2.9 | 3.2 |

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

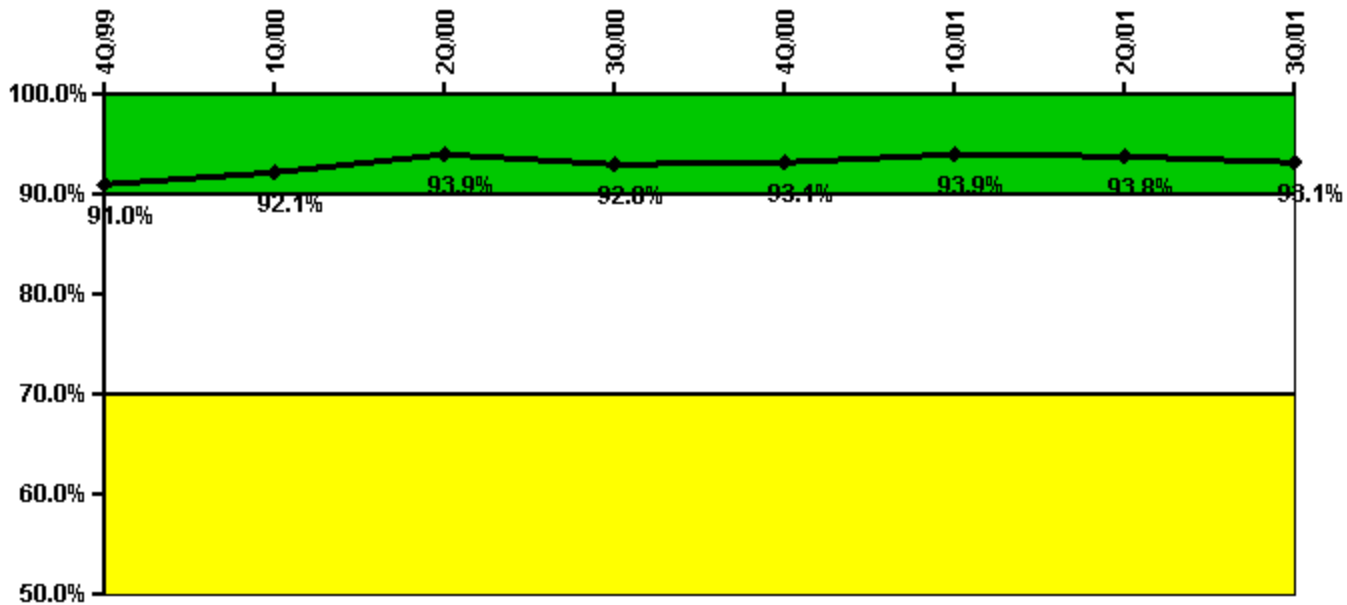
Notes

| Reactor Coolant System Leakage | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 0.281 | 0.350 | 0.378 | 0.330 | 0.220 | 0.230 | 0.250 | 0.220 | 0.273 | 0.322 | 0.310 | 0.370 |
| 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 | 2.8 | 3.5 | 3.8 | 3.3 | 2.2 | 2.3 | 2.5 | 2.2 | 2.7 | 3.2 | 3.1 | 3.7 |

| Reactor Coolant System Leakage | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 0.720 | 0.460 | 1.100 | 0.445 | 1.710 | 0.250 | 0.360 | 0.522 | 0.198 | 0.293 | 0.297 | 0.226 |
| 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 | 7.2 | 4.6 | 11.0 | 4.5 | 17.1 | 2.5 | 3.6 | 5.2 | 2.0 | 2.9 | 3.0 | 2.3 |

Licensee Comments: none

Drill/Exercise Performance



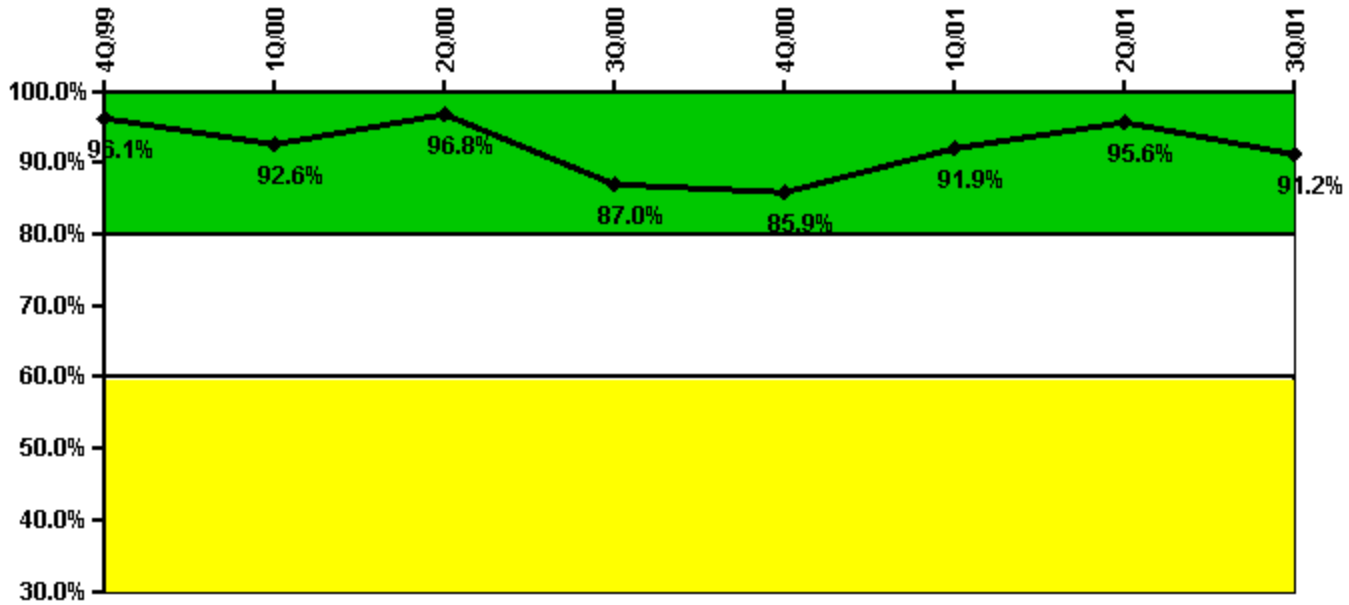
Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 0 | 13.0 | 44.0 | 12.0 | 14.0 | 8.0 | 6.0 | 11.0 |
| Total opportunities | 0 | 13.0 | 45.0 | 16.0 | 14.0 | 8.0 | 8.0 | 12.0 |
| | | | | | | | | |
| Indicator value | 91.0% | 92.1% | 93.9% | 92.8% | 93.1% | 93.9% | 93.8% | 93.1% |

Licensee Comments: none

ERO Drill Participation



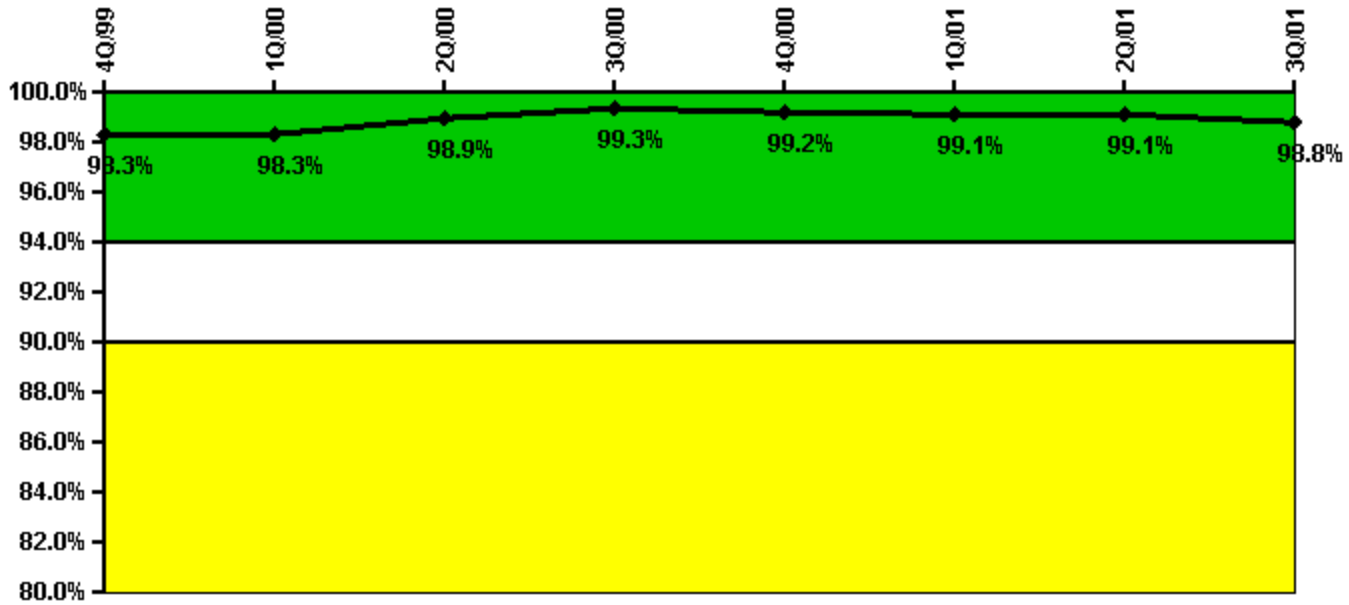
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Participating Key personnel | 98.0 | 87.0 | 92.0 | 80.0 | 79.0 | 91.0 | 86.0 | 103.0 |
| Total Key personnel | 102.0 | 94.0 | 95.0 | 92.0 | 92.0 | 99.0 | 90.0 | 113.0 |
| | | | | | | | | |
| Indicator value | 96.1% | 92.6% | 96.8% | 87.0% | 85.9% | 91.9% | 95.6% | 91.2% |

Licensee Comments: none

Alert & Notification System



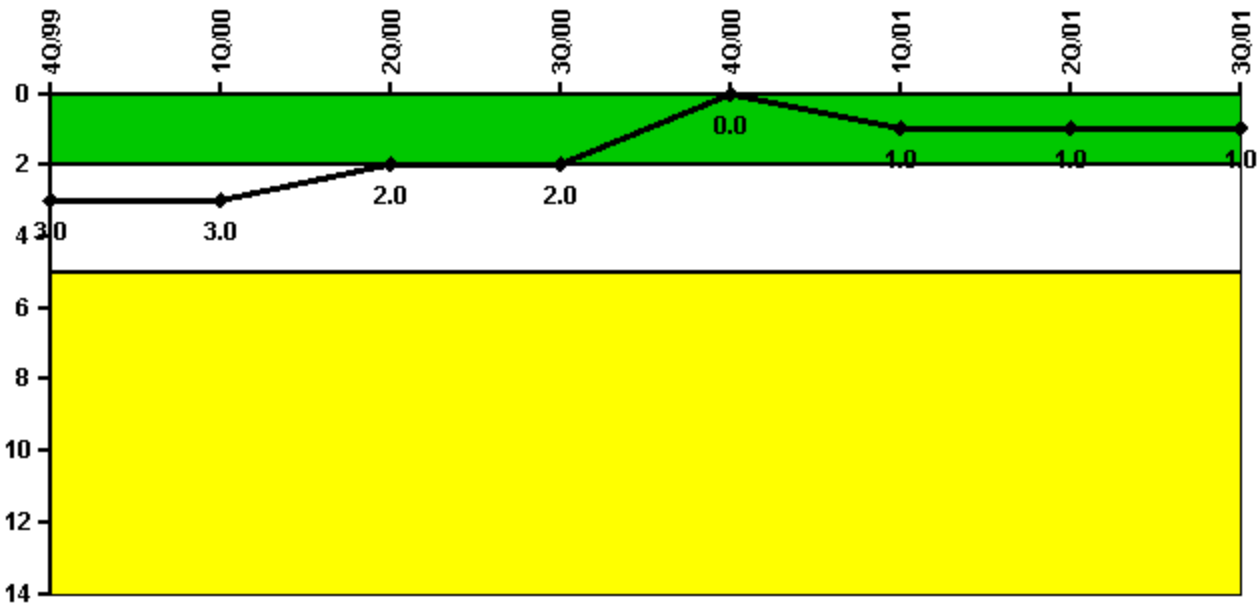
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests | 803 | 602 | 805 | 799 | 801 | 699 | 803 | 789 |
| Total sirens-tests | 808 | 606 | 808 | 808 | 808 | 707 | 808 | 808 |
| | | | | | | | | |
| Indicator value | 98.3% | 98.3% | 98.9% | 99.3% | 99.2% | 99.1% | 99.1% | 98.8% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| High radiation area occurrences | 2 | 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 | 3 | 3 | 2 | 2 | 0 | 1 | 1 | 1 |

Licensee Comments: none

RETS/ODCM Radiological Effluent



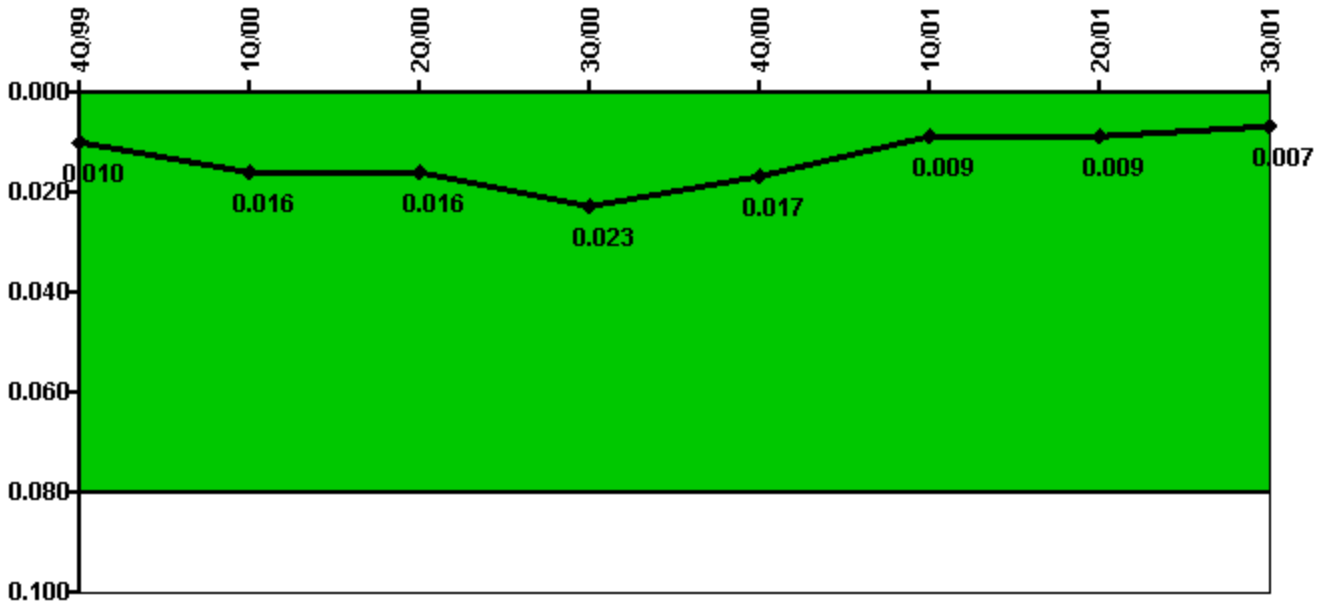
Thresholds: White > 1.0 Yellow > 3.0

Notes

| RETS/ODCM Radiological Effluent | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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



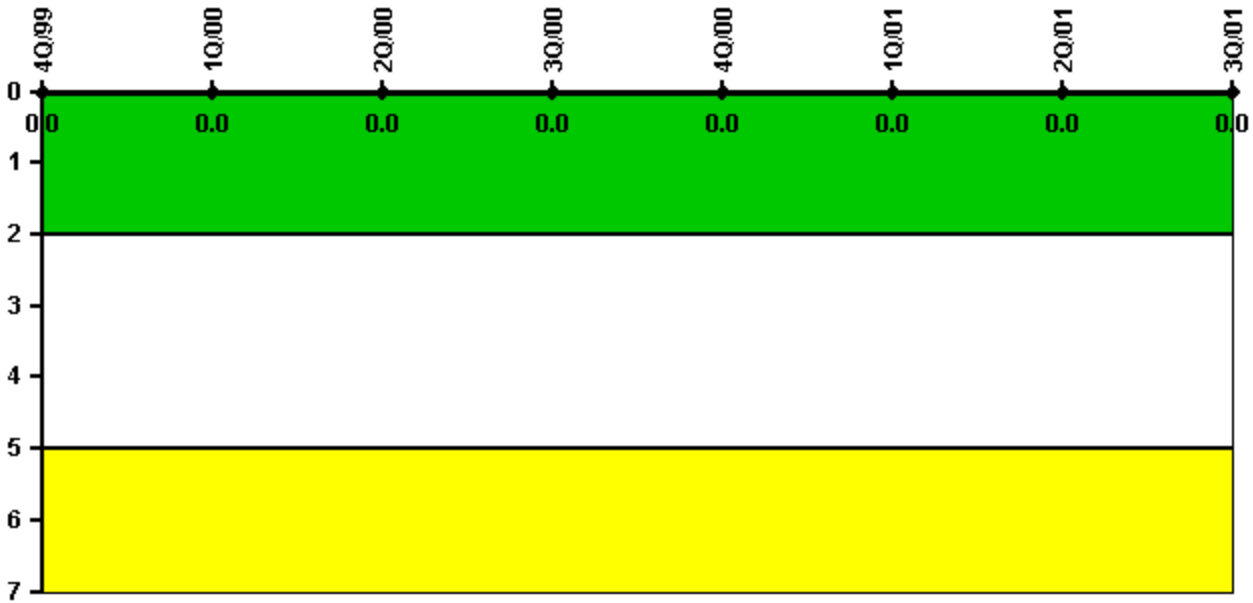
Thresholds: White > 0.080

Notes

| Protected Area Security Performance Index | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| IDS compensatory hours | 46.50 | 222.10 | 16.60 | 117.40 | 64.30 | 28.10 | 10.30 | 38.20 |
| CCTV compensatory hours | 0 | 0 | 0 | 0 | 0 | 0 | 1.2 | 20.9 |
| IDS normalization factor | 1.45 | 1.45 | 1.45 | 1.00 | 1.45 | 1.45 | 1.45 | 1.45 |
| CCTV normalization factor | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 |
| | | | | | | | | |
| Index Value | 0.010 | 0.016 | 0.016 | 0.023 | 0.017 | 0.009 | 0.009 | 0.007 |

Licensee Comments: none

Personnel Screening Program



Thresholds: White > 2.0 Yellow > 5.0

Notes

| Personnel Screening Program | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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](#) | [Action Matrix Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 26, 2002