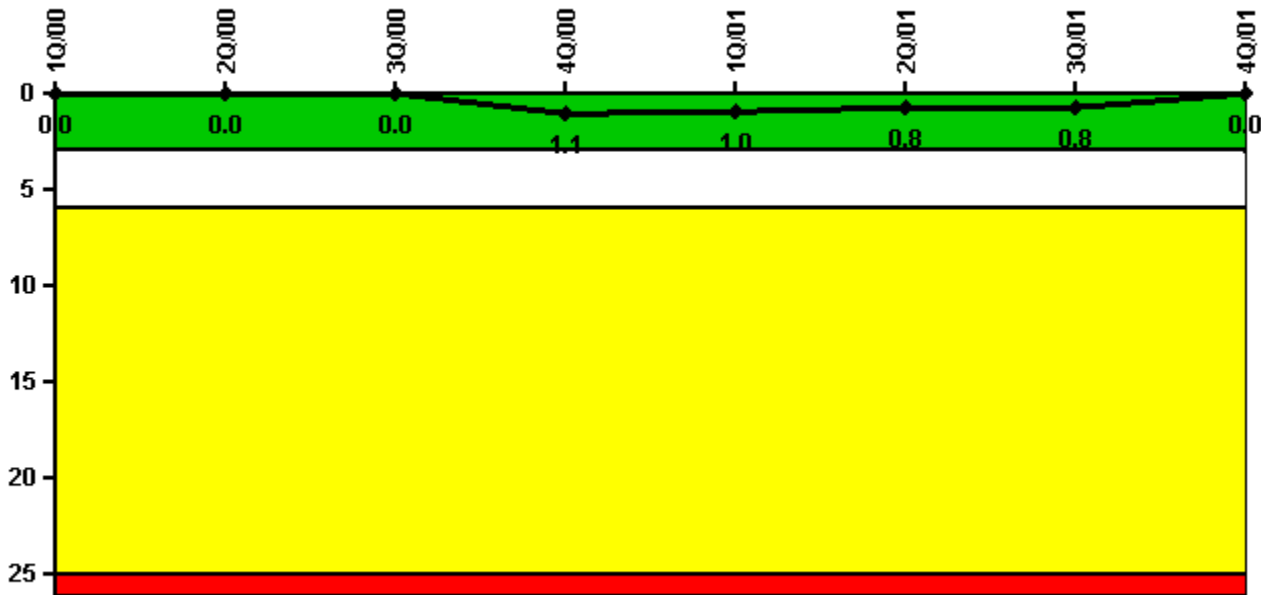


Cooper

4Q/2001 Performance Indicators

Licensee's General Comments: Corrected blank in Leak Rate for December, 2001 to NA. Plant was in refueling outage

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|--|--------|-------|--------|--------|--------|--------|--------|-------|
| Unplanned scrams | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 |
| Critical hours | 1369.4 | 849.5 | 2208.0 | 2092.6 | 1873.9 | 2183.0 | 2208.0 | 863.3 |
| Indicator value | 0 | 0 | 0 | 1.1 | 1.0 | 0.8 | 0.8 | 0 |

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



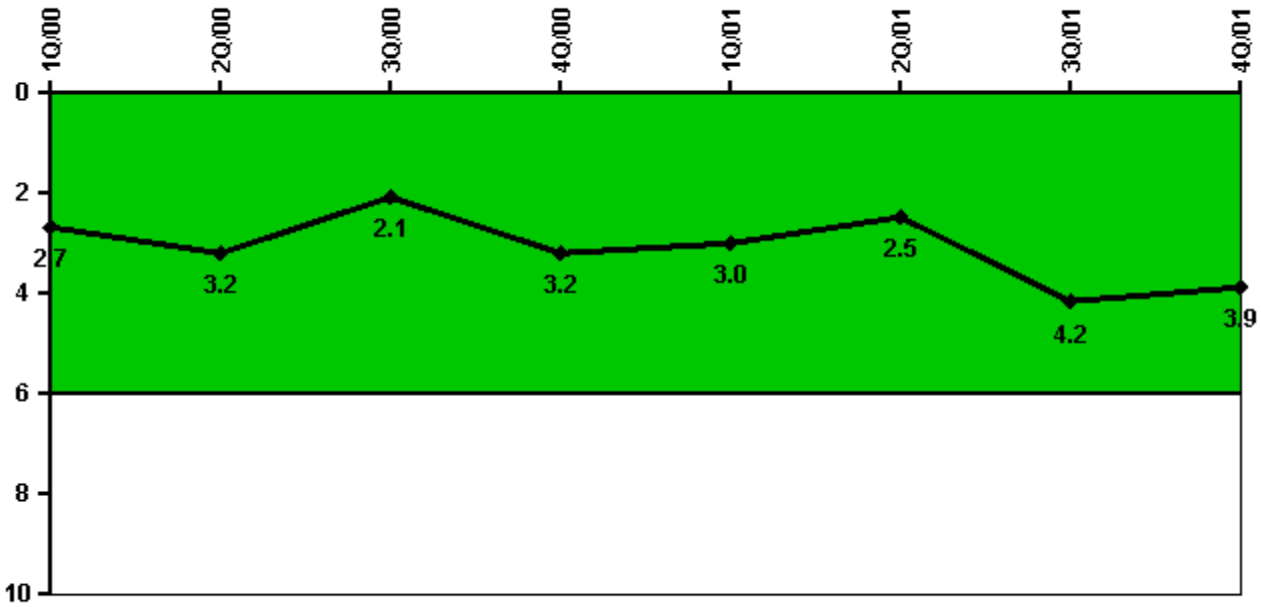
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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



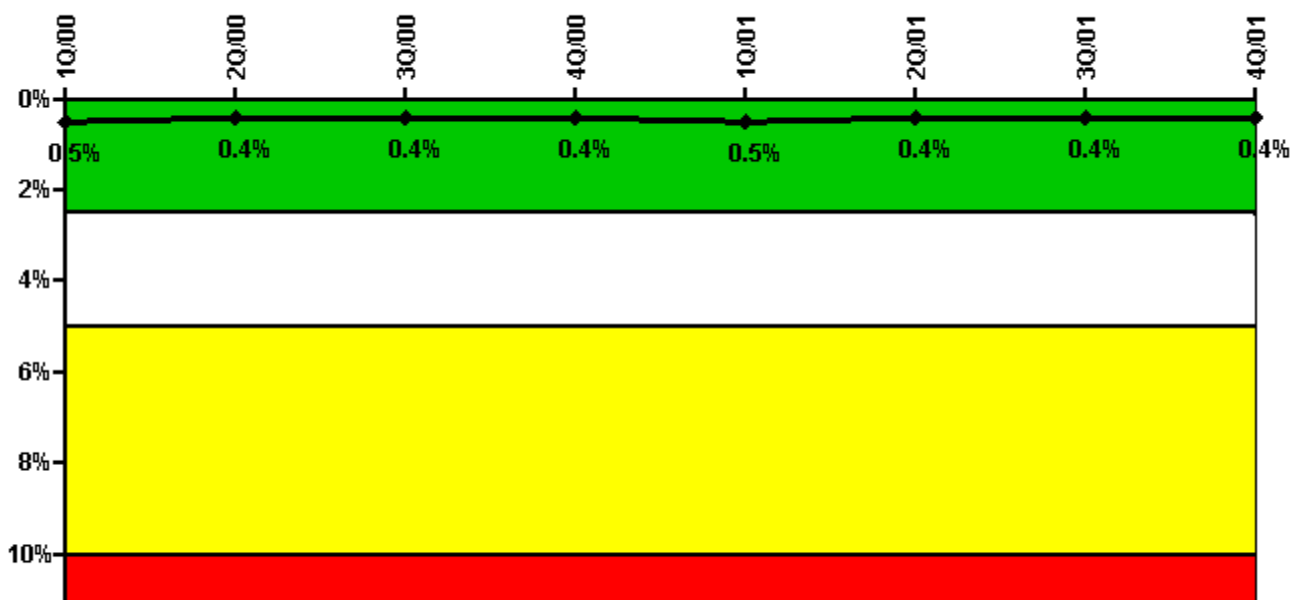
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|--------|-------|--------|--------|--------|--------|--------|-------|
| Unplanned power changes | 1.0 | 1.0 | 0 | 1.0 | 1.0 | 1.0 | 2.0 | 0 |
| Critical hours | 1369.4 | 849.5 | 2208.0 | 2092.6 | 1873.9 | 2183.0 | 2208.0 | 863.3 |
| Indicator value | 2.7 | 3.2 | 2.1 | 3.2 | 3.0 | 2.5 | 4.2 | 3.9 |

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



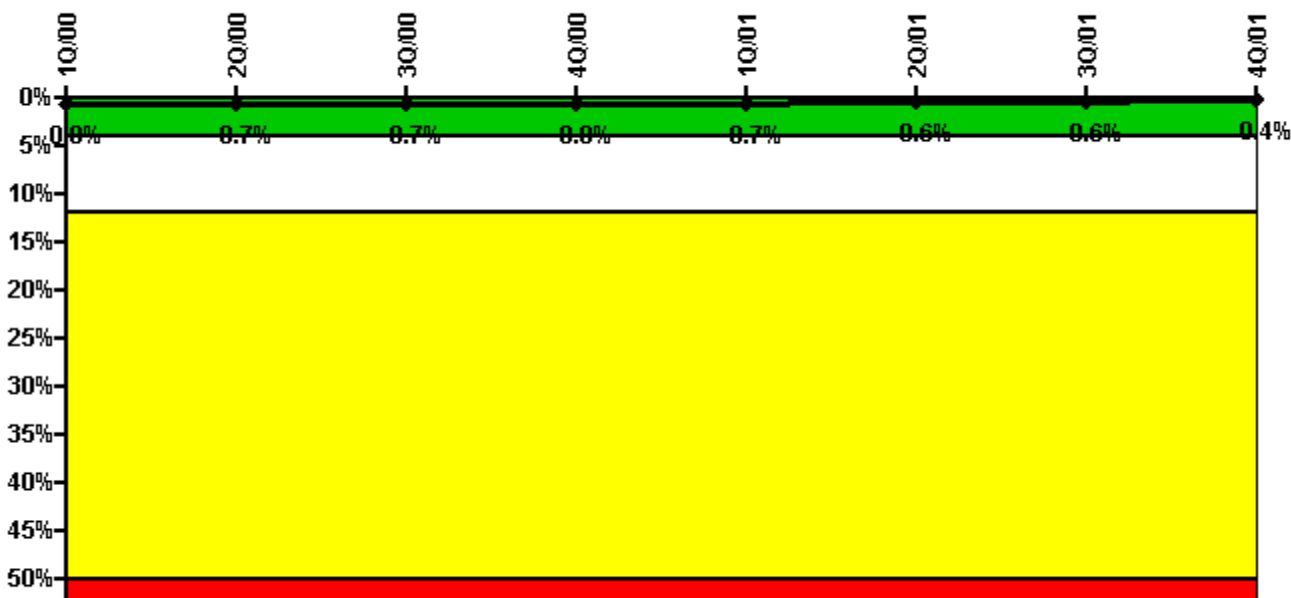
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Emergency AC Power | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 1.10 | 18.02 | 11.20 | 0 | 0 | 23.58 |
| Unplanned unavailable hours | 0 | 0 | 0 | 7.95 | 0 | 2.00 | 7.86 | 6.31 |
| 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 | 2071.20 | 2208.00 | 2208.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0.72 | 28.05 | 0 | 0 | 20.43 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 4.29 | 45.65 | 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 | 2184.00 | 2208.00 | 2208.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| Indicator value | 0.5% | 0.4% | 0.4% | 0.4% | 0.5% | 0.4% | 0.4% | 0.4% |

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)



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

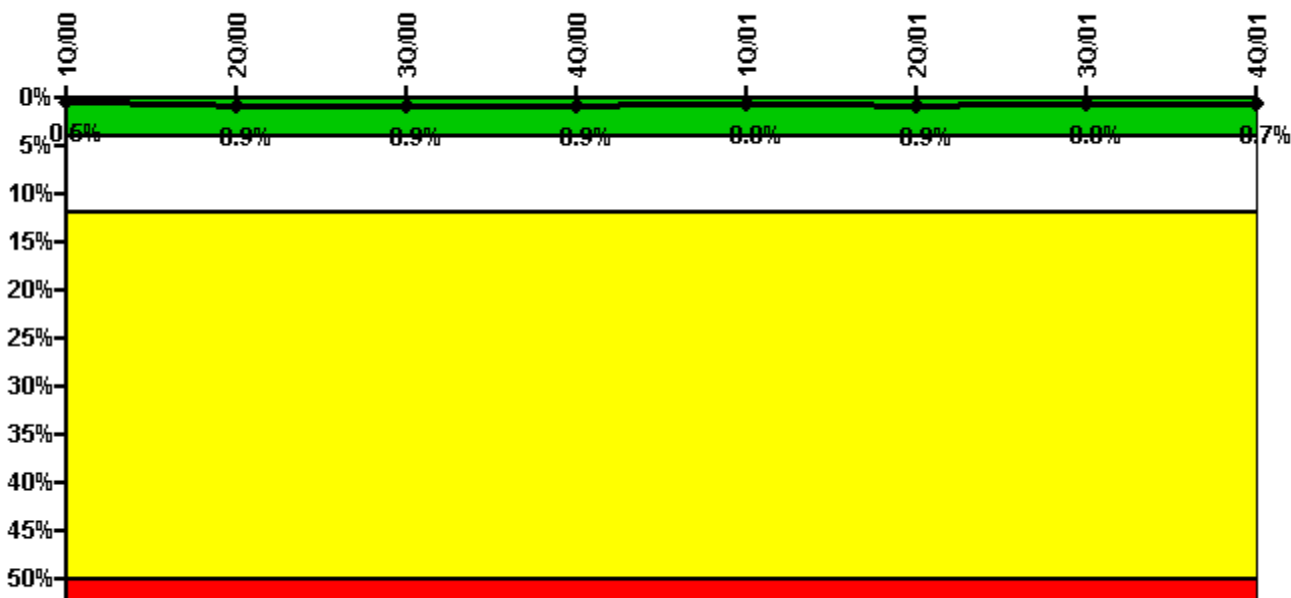
Notes

| Safety System Unavailability, High Pressure Injection System (HPCI) | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0.13 | 0.43 | 1.74 | 31.48 | 1.22 | 0.60 | 20.49 | 0.56 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.30 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1370.57 | 838.08 | 2208.00 | 2094.65 | 1833.20 | 2183.00 | 2208.00 | 834.38 |
| | | | | | | | | |
| Indicator value | 0.8% | 0.7% | 0.7% | 0.8% | 0.7% | 0.6% | 0.6% | 0.4% |

Licensee Comments:

4Q/01: Refueling Outage in November, December

Safety System Unavailability, Heat Removal System (RCIC)



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

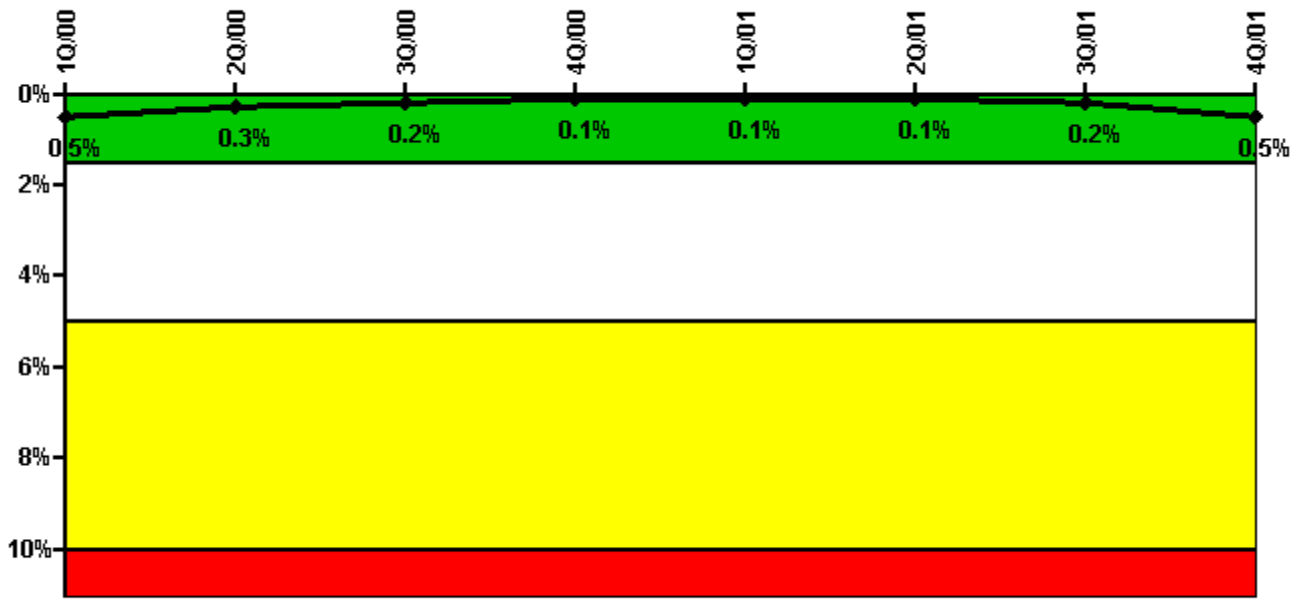
Notes

| Safety System Unavailability, Heat Removal System (RCIC) | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0.85 | 0.10 | 3.35 | 7.39 | 0.22 | 11.82 | 1.18 | 12.62 |
| Unplanned unavailable hours | 0 | 80.77 | 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 | 1370.57 | 838.08 | 2208.00 | 2094.65 | 1833.20 | 2183.00 | 2208.00 | 834.38 |
| | | | | | | | | |
| Indicator value | 0.5% | 0.9% | 0.9% | 0.9% | 0.8% | 0.9% | 0.8% | 0.7% |

Licensee Comments:

4Q/01: Planned Maintenance

Safety System Unavailability, Residual Heat Removal System



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

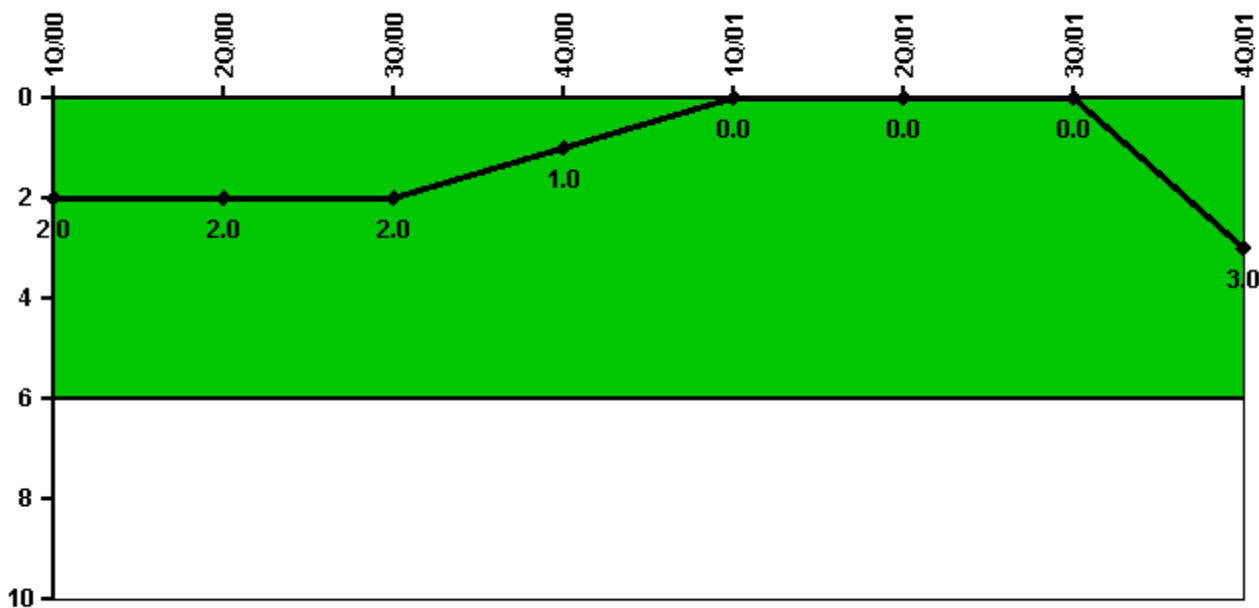
Notes

| Safety System Unavailability, Residual Heat Removal System | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0.27 | 21.02 | 0 | 0.40 | 1.32 | 0 | 33.89 | 10.28 |
| Unplanned unavailable hours | 23.35 | 0 | 0 | 0 | 0 | 2.00 | 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 | 1664.85 | 2063.80 | 2208.00 | 2208.00 | 2080.00 | 2183.00 | 2208.00 | 2209.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 0 | 2.53 | 0 | 0.35 | 0.88 | 0 | 3.18 | 90.10 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 6.50 | 35.38 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1664.85 | 2063.80 | 2208.00 | 2208.00 | 2080.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| Indicator value | 0.5% | 0.3% | 0.2% | 0.1% | 0.1% | 0.1% | 0.2% | 0.5% |

Licensee Comments:

4Q/01: October -Clean SW side of Heat Exchanger ReFueling Maintenance

Safety System Functional Failures (BWR)



Thresholds: White > 6.0

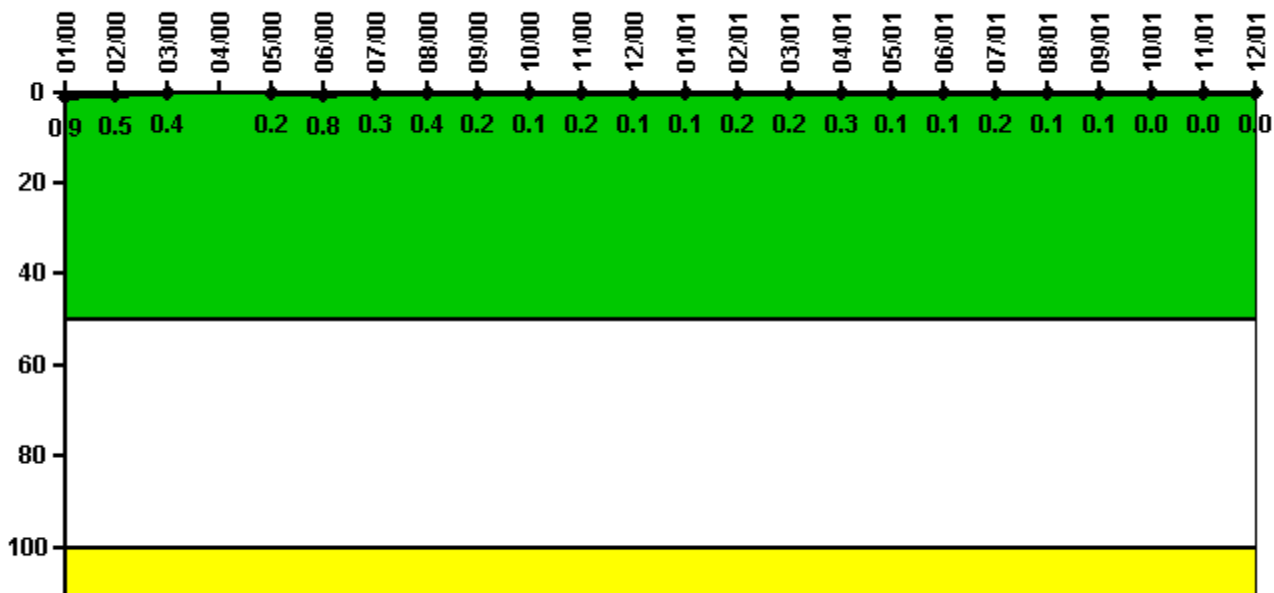
Notes

| Safety System Functional Failures (BWR) | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Safety System Functional Failures | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Indicator value | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 3 |

Licensee Comments:

4Q/01: LER 2001-004 LER 2001-005, 2001-006

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

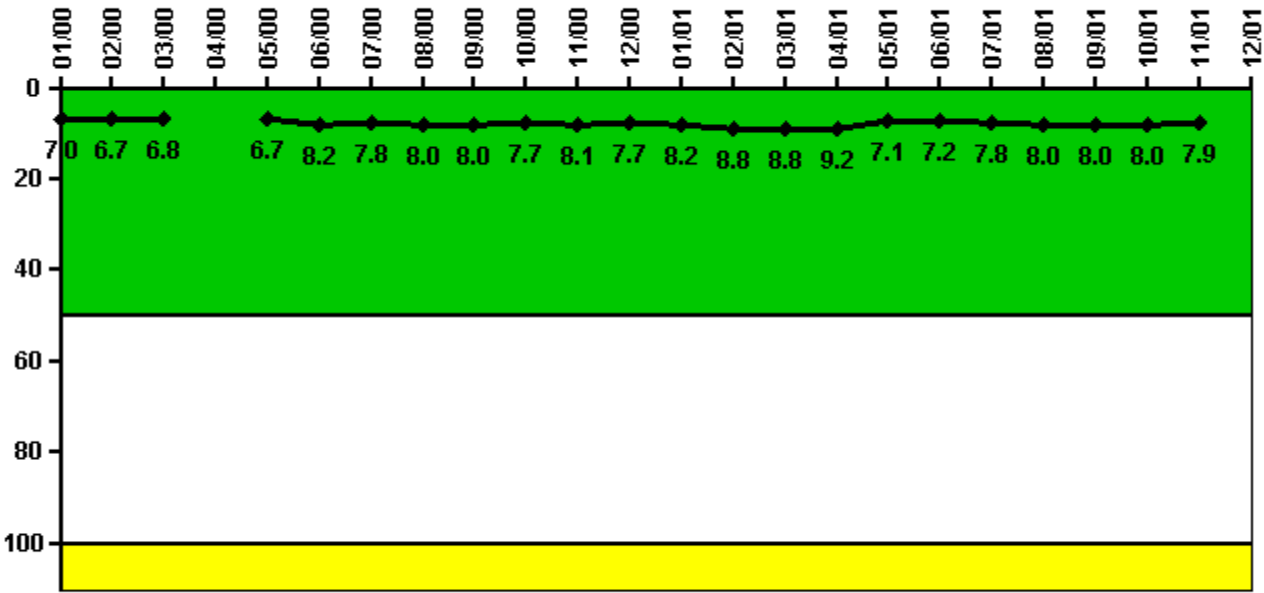
Notes

| Reactor Coolant System Activity | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 | 10/00 | 11/00 | 12/00 |
|---------------------------------|----------|----------|----------|------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0.001710 | 0.001060 | 0.000774 | N/A | 0.000410 | 0.001690 | 0.000681 | 0.000727 | 0.000454 | 0.000195 | 0.000434 | 0.000238 |
| Technical specification limit | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Indicator value | 0.9 | 0.5 | 0.4 | N/A | 0.2 | 0.8 | 0.3 | 0.4 | 0.2 | 0.1 | 0.2 | 0.1 |

| Reactor Coolant System Activity | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0.000283 | 0.000329 | 0.000427 | 0.000560 | 0.000209 | 0.000198 | 0.000371 | 0.000184 | 0.000201 | 0.000037 | 0.000028 | 0.000018 |
| Technical specification limit | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Indicator value | 0.1 | 0.2 | 0.2 | 0.3 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0 | 0 | 0 |

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

| Reactor Coolant System Leakage | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 | 10/00 | 11/00 | 12/00 |
|--------------------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 2.097 | 2.023 | 2.037 | N/A | 2.000 | 2.453 | 2.348 | 2.390 | 2.410 | 2.320 | 2.443 | 2.312 |
| 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 | 7.0 | 6.7 | 6.8 | N/A | 6.7 | 8.2 | 7.8 | 8.0 | 8.0 | 7.7 | 8.1 | 7.7 |

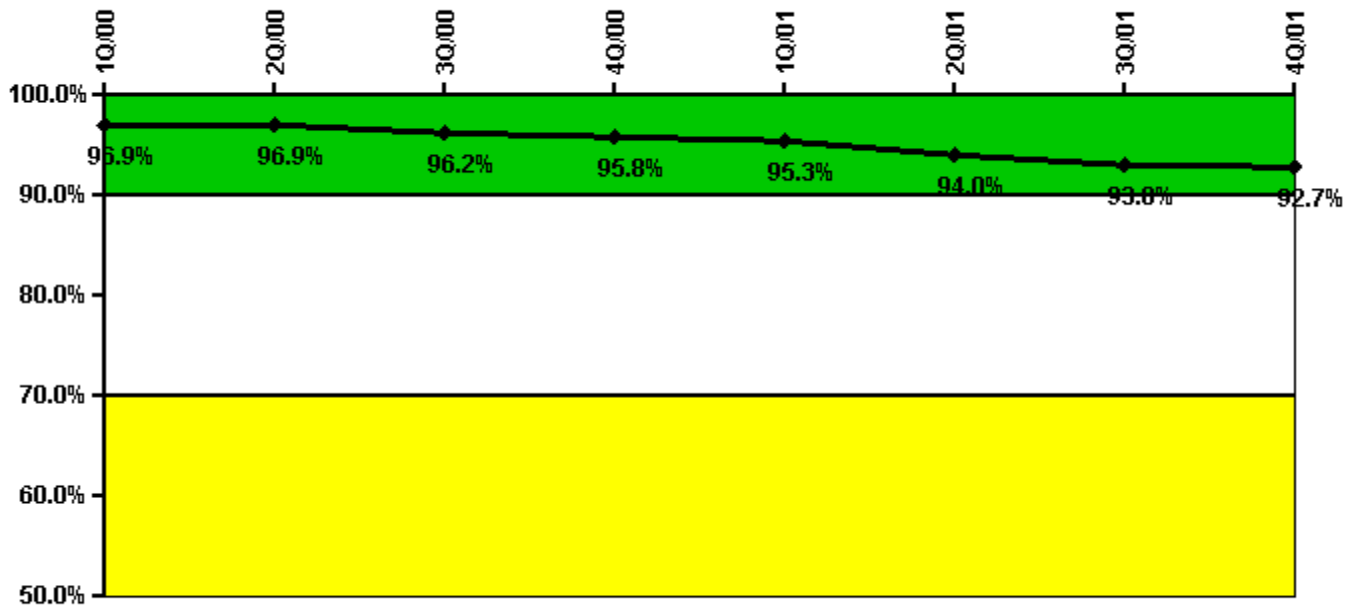
| Reactor Coolant System Leakage | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 2.464 | 2.630 | 2.626 | 2.760 | 2.121 | 2.146 | 2.340 | 2.400 | 2.410 | 2.400 | 2.360 | N/A |
| 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 | 8.2 | 8.8 | 8.8 | 9.2 | 7.1 | 7.2 | 7.8 | 8.0 | 8.0 | 8.0 | 7.9 | N/A |

Licensee Comments:

12/01: Refueling Shutdown in December

12/01: Refueling Shutdown in December

Drill/Exercise Performance



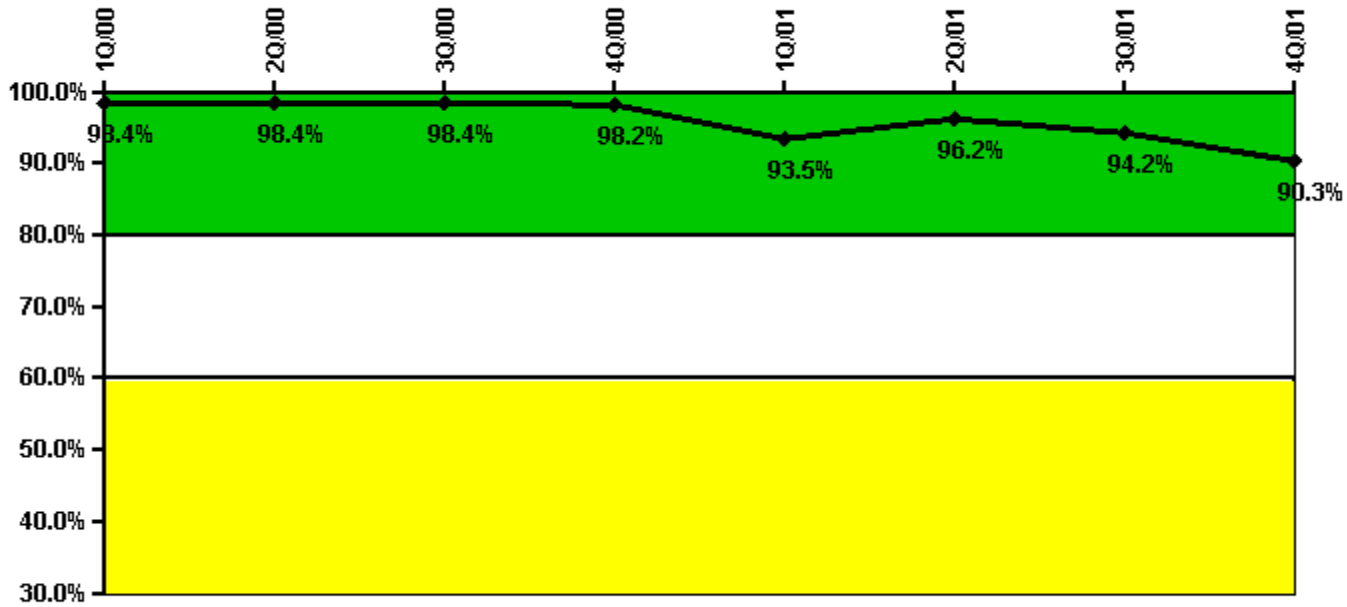
Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 3.0 | 44.0 | 24.0 | 62.0 | 8.0 | 32.0 | 18.0 | 11.0 |
| Total opportunities | 3.0 | 45.0 | 27.0 | 66.0 | 8.0 | 37.0 | 21.0 | 11.0 |
| | | | | | | | | |
| Indicator value | 96.9% | 96.9% | 96.2% | 95.8% | 95.3% | 94.0% | 93.0% | 92.7% |

Licensee Comments: none

ERO Drill Participation



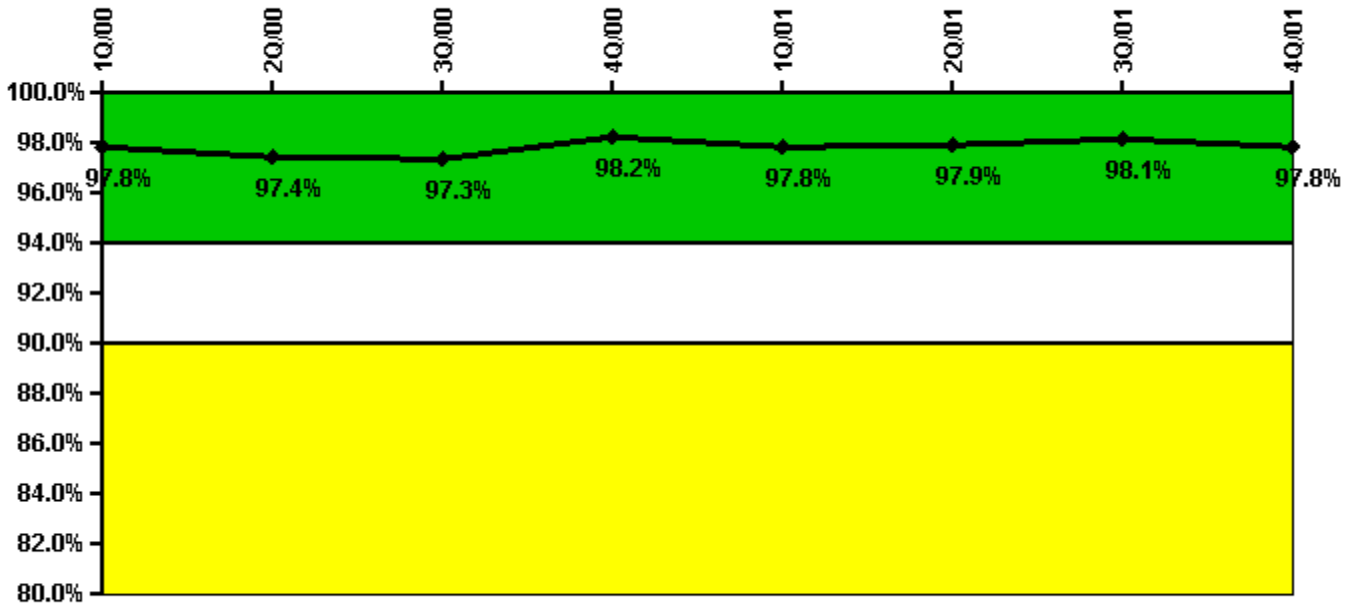
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Participating Key personnel | 125.0 | 125.0 | 126.0 | 108.0 | 100.0 | 102.0 | 98.0 | 84.0 |
| Total Key personnel | 127.0 | 127.0 | 128.0 | 110.0 | 107.0 | 106.0 | 104.0 | 93.0 |
| | | | | | | | | |
| Indicator value | 98.4% | 98.4% | 98.4% | 98.2% | 93.5% | 96.2% | 94.2% | 90.3% |

Licensee Comments: none

Alert & Notification System



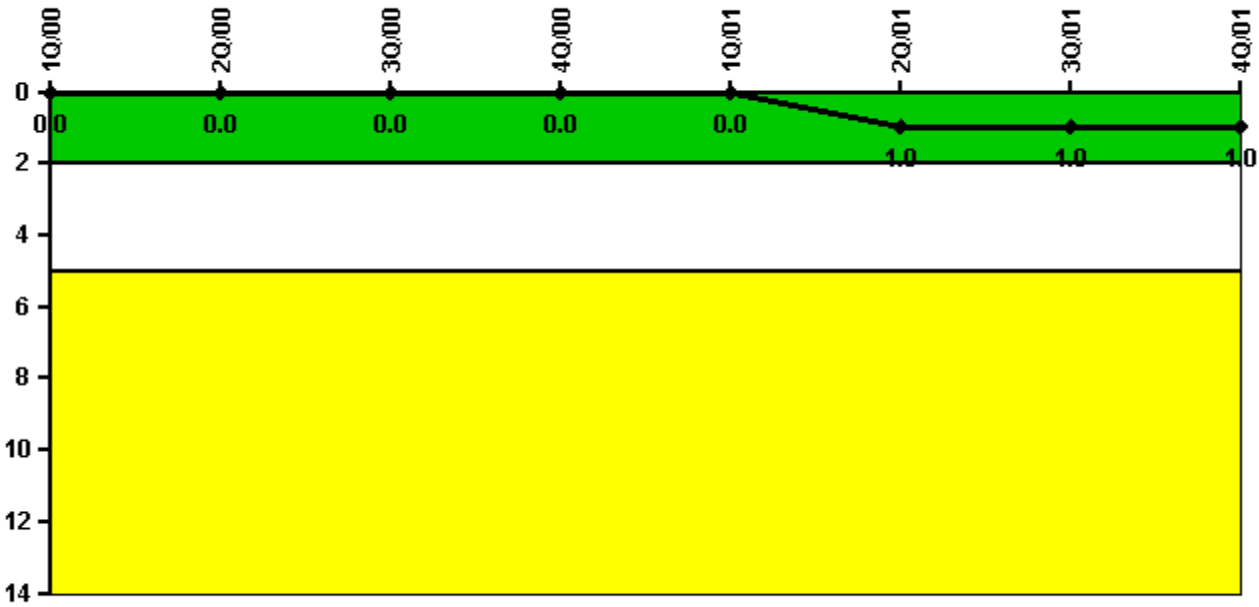
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests | 142 | 141 | 140 | 166 | 140 | 165 | 141 | 164 |
| Total sirens-tests | 144 | 144 | 144 | 168 | 144 | 168 | 144 | 168 |
| | | | | | | | | |
| Indicator value | 97.8% | 97.4% | 97.3% | 98.2% | 97.8% | 97.9% | 98.1% | 97.8% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| 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 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |

Licensee Comments: none

RETS/ODCM Radiological Effluent



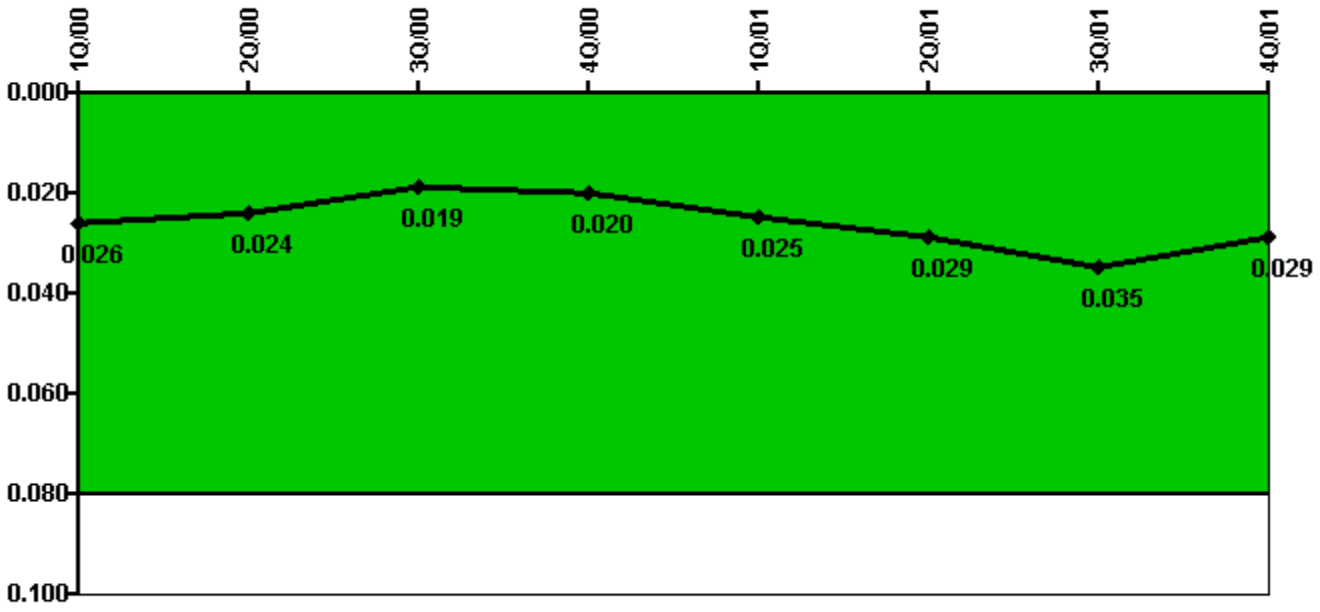
Thresholds: White > 1.0 Yellow > 3.0

Notes

| RETS/ODCM Radiological Effluent | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/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 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| IDS compensatory hours | 27.50 | 141.89 | 84.28 | 130.19 | 150.12 | 205.80 | 218.81 | 35.68 |
| CCTV compensatory hours | 4.1 | 1.6 | 0.7 | 48.4 | 3.0 | 29.8 | 2.3 | 0 |
| IDS normalization factor | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 |
| CCTV normalization factor | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| | | | | | | | | |
| Index Value | 0.026 | 0.024 | 0.019 | 0.020 | 0.025 | 0.029 | 0.035 | 0.029 |

Licensee Comments: none

Personnel Screening Program



Thresholds: White > 2.0 Yellow > 5.0

Notes

| Personnel Screening Program | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/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 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/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 15, 2002