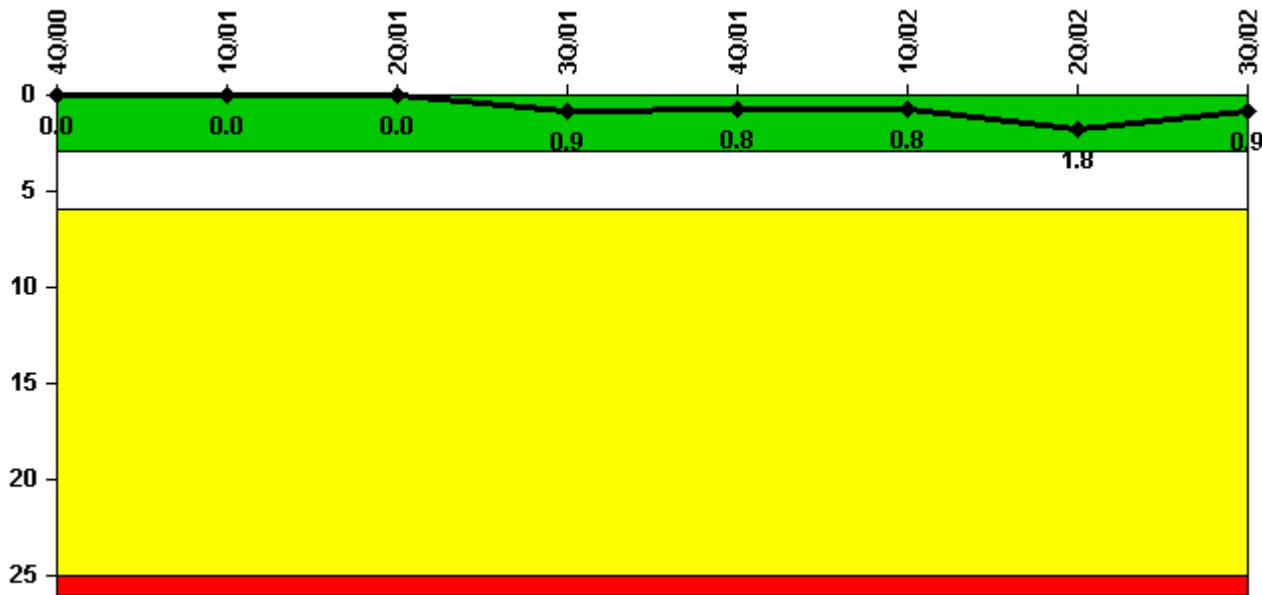


Comanche Peak 2

3Q/2002 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/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams | 0 | 0 | 0 | 1.0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 1392.5 | 2160.0 | 2183.0 | 2188.6 | 2209.0 | 2123.8 | 1409.0 | 2208.0 |
| Indicator value | 0 | 0 | 0 | 0.9 | 0.8 | 0.8 | 1.8 | 0.9 |

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



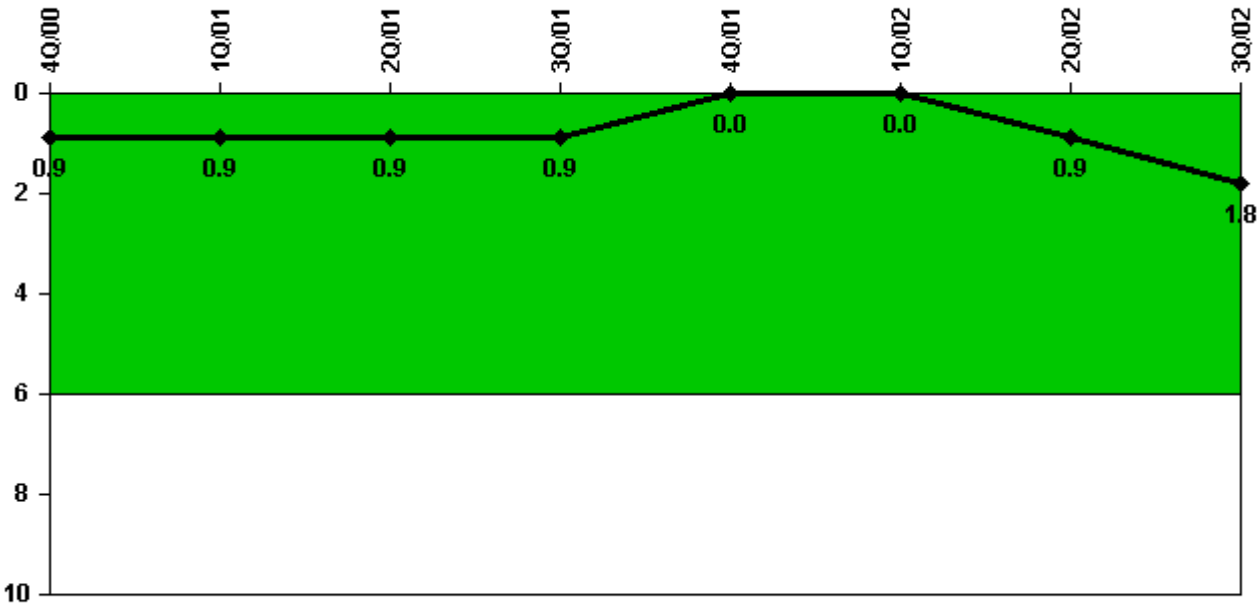
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

| Scrams with Loss of Normal Heat Removal | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 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



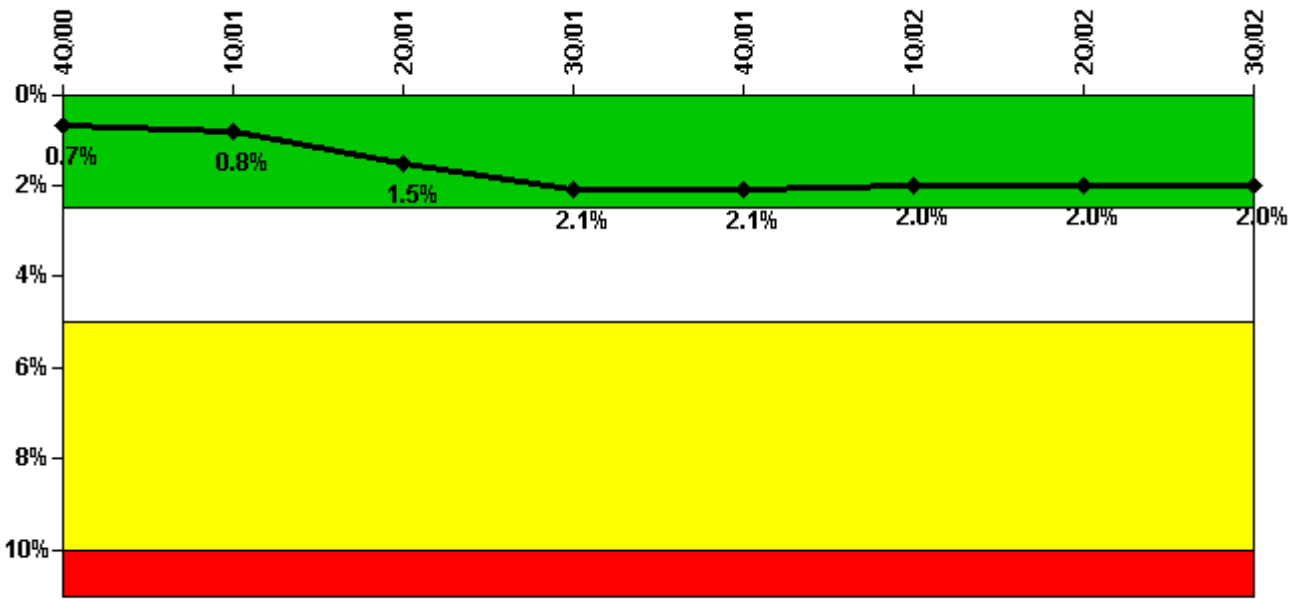
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes | 1.0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 1.0 |
| Critical hours | 1392.5 | 2160.0 | 2183.0 | 2188.6 | 2209.0 | 2123.8 | 1409.0 | 2208.0 |
| | | | | | | | | |
| Indicator value | 0.9 | 0.9 | 0.9 | 0.9 | 0 | 0 | 0.9 | 1.8 |

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

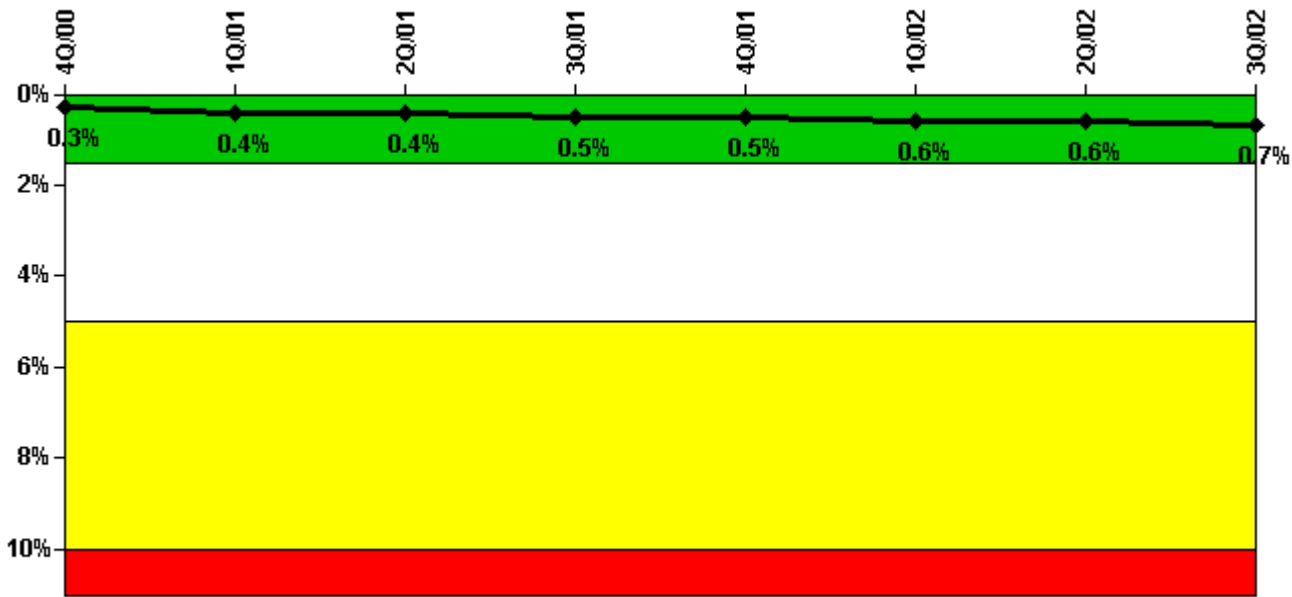
Notes

| Safety System Unavailability, Emergency AC Power | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 3.90 | 6.50 | 2.80 | 2.50 | 5.70 | 9.00 | 5.40 | 13.40 |
| Unplanned unavailable hours | 20.80 | 6.00 | 32.50 | 18.40 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 334.30 | 333.80 | 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 | 2160.00 | 2183.00 | 2208.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 3.60 | 19.40 | 19.30 | 5.80 | 5.50 | 13.80 | 2.90 | 6.10 |
| Unplanned unavailable hours | 0 | 5.30 | 4.80 | 1.00 | 0 | 14.40 | 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 | 2160.00 | 2183.00 | 2208.00 |
| | | | | | | | | |
| Indicator value | 0.7% | 0.8% | 1.5% | 2.1% | 2.1% | 2.0% | 2.0% | 2.0% |

Licensee Comments:

3Q/02: A postulated design issue has been identified by Comanche Peak but it has no impact to the performance trend or to the color of the indicator. The postulated design issue is related to an Emergency Diesel Generator (EDG) being paralleled to the grid during EDG testing. Per NEI 99-02, Rev. 2, page 33, lines 8 through 23, which addresses equipment failures due to design deficiencies, time periods in this condition are not being included in the unavailability calculation. The estimated hours in which each EDG was paralleled to the grid when it was required to be available are: EDG 1-01 = 106.8 hours, EDG 1-02 = 100.7 hours, EDG 2-01 = 99.7 hours and EDG 2-02 = 105.9 hours.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

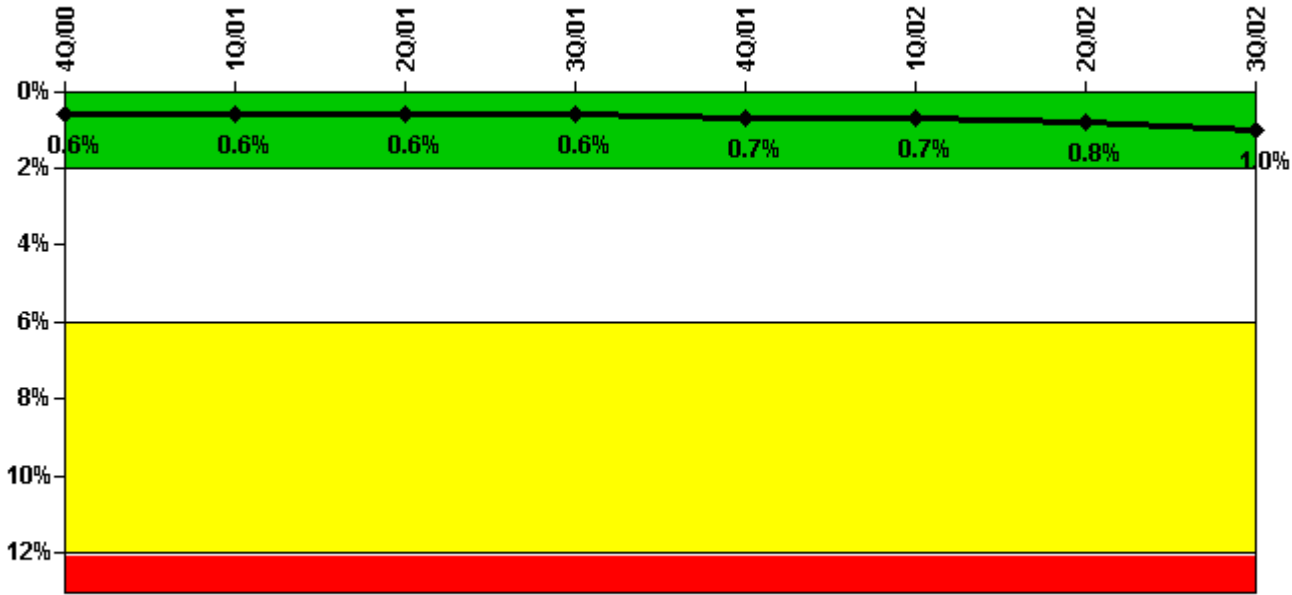
Notes

| Safety System Unavailability, High Pressure Injection System (HPSI) | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 11.50 | 20.30 | 1.60 | 56.20 | 5.10 | 19.00 | 37.50 | 7.80 |
| Unplanned unavailable hours | 0 | 6.00 | 0 | 0 | 0 | 6.60 | 0 | 2.00 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1392.50 | 2160.00 | 2183.00 | 2188.60 | 2209.00 | 2123.80 | 1409.00 | 2208.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 0.80 | 39.80 | 19.00 | 9.90 | 10.70 | 6.50 | 13.70 | 9.40 |
| Unplanned unavailable hours | 0 | 0 | 6.40 | 1.60 | 6.40 | 13.20 | 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 | 1392.50 | 2160.00 | 2183.00 | 2188.60 | 2209.00 | 2123.80 | 1409.00 | 2208.00 |
| Train 3 | | | | | | | | |
| Planned unavailable hours | 0 | 25.00 | 0.60 | 49.60 | 4.90 | 6.30 | 35.10 | 8.60 |
| Unplanned unavailable hours | 0 | 6.40 | 0 | 0 | 0 | 6.60 | 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 | 1392.50 | 2160.00 | 2183.00 | 2188.60 | 2209.00 | 2123.80 | 1409.00 | 2208.00 |
| Train 4 | | | | | | | | |
| Planned unavailable hours | 0 | 16.30 | 4.90 | 7.40 | 9.30 | 6.00 | 1.40 | 9.70 |
| Unplanned unavailable hours | 0 | 0 | 6.40 | 1.60 | 6.40 | 13.20 | 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 | 1392.50 | 2160.00 | 2183.00 | 2188.60 | 2209.00 | 2123.80 | 1409.00 | 2208.00 |
| | | | | | | | | |
| Indicator value | 0.3% | 0.4% | 0.4% | 0.5% | 0.5% | 0.6% | 0.6% | 0.7% |

Licensee Comments:

3Q/02: Unit 2 experienced two separate charging pump suction vent valve failures in July 2002 for a total of 171.2 T/2 fault exposure hours. This does not impact the performance indicator trend or color.

Safety System Unavailability, Heat Removal System (AFW)



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

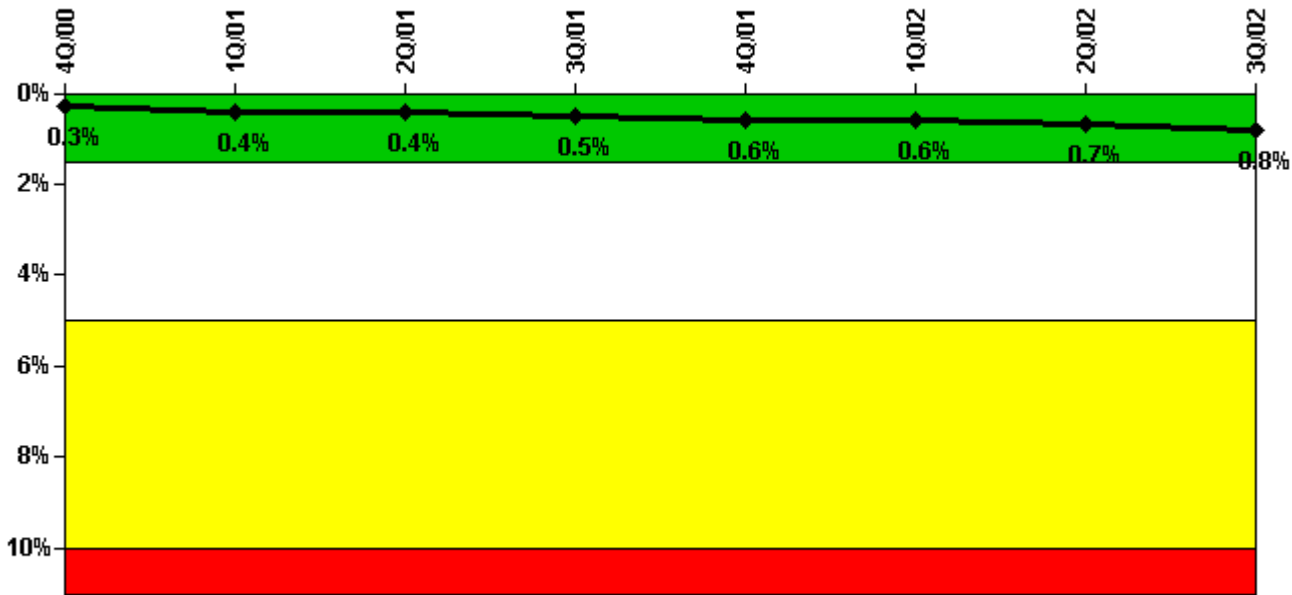
Notes

| Safety System Unavailability, Heat Removal System (AFW) | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 30.60 | 4.30 | 13.00 | 5.80 | 17.70 | 29.70 | 72.60 | 76.70 |
| Unplanned unavailable hours | 0 | 0 | 3.30 | 1.10 | 0 | 0 | 35.80 | 11.80 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1392.50 | 2160.00 | 2183.00 | 2188.60 | 2209.00 | 2123.80 | 1409.00 | 2208.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 1.70 | 19.80 | 2.20 | 52.50 | 22.60 | 8.40 | 36.00 | 10.50 |
| Unplanned unavailable hours | 0 | 6.00 | 0 | 0 | 0 | 6.60 | 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 | 1392.50 | 2160.00 | 2183.00 | 2188.60 | 2209.00 | 2123.80 | 1409.00 | 2208.00 |
| Train 3 | | | | | | | | |
| Planned unavailable hours | 1.50 | 5.80 | 6.60 | 9.50 | 13.00 | 17.60 | 7.50 | 6.70 |
| Unplanned unavailable hours | 0 | 0 | 6.60 | 1.60 | 6.40 | 15.20 | 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 | 1392.50 | 2160.00 | 2183.00 | 2188.60 | 2209.00 | 2123.80 | 1409.00 | 2208.00 |

| | | | | | | | | |
|-----------------|------|------|------|------|------|------|------|------|
| Indicator value | 0.6% | 0.6% | 0.6% | 0.6% | 0.7% | 0.7% | 0.8% | 1.0% |
|-----------------|------|------|------|------|------|------|------|------|

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



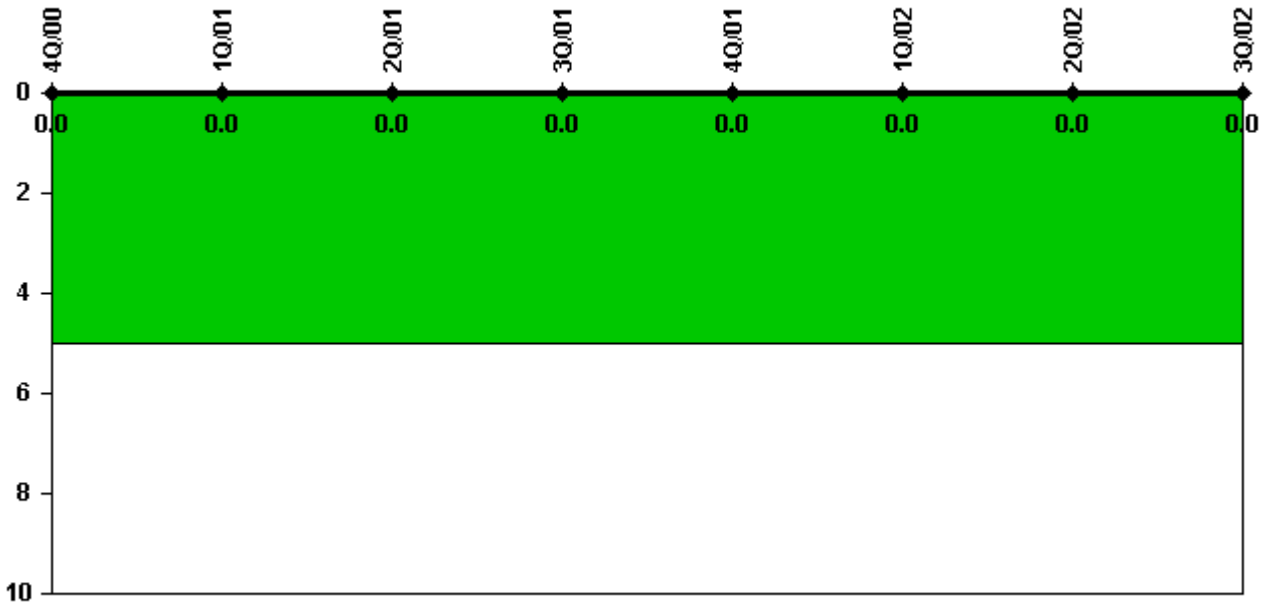
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Residual Heat Removal System | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 8.00 | 30.00 | 12.70 | 53.30 | 16.80 | 4.40 | 36.70 | 21.70 |
| Unplanned unavailable hours | 0 | 6.00 | 17.40 | 0 | 0 | 6.60 | 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 | 2160.00 | 2183.00 | 2208.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 35.40 | 10.40 | 5.40 | 24.40 | 20.30 | 6.60 | 1.70 | 16.60 |
| Unplanned unavailable hours | 0 | 0 | 6.40 | 1.60 | 6.40 | 13.20 | 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 | 2160.00 | 2183.00 | 2208.00 |
| | | | | | | | | |
| Indicator value | 0.3% | 0.4% | 0.4% | 0.5% | 0.6% | 0.6% | 0.7% | 0.8% |

Licensee Comments: none

Safety System Functional Failures (PWR)



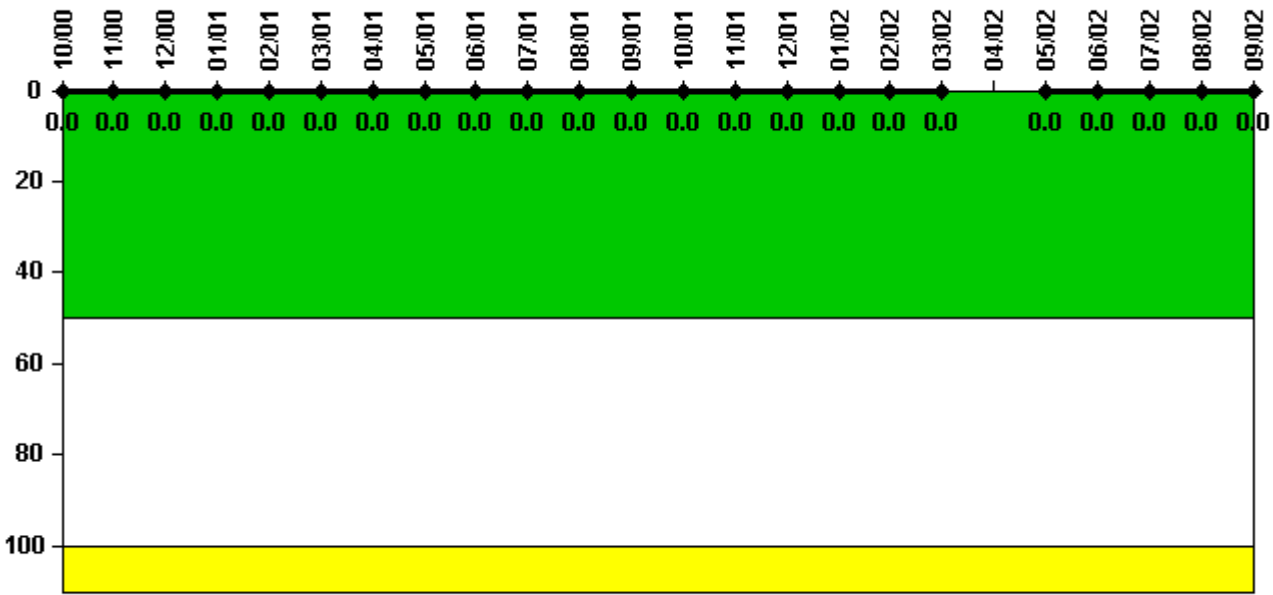
Thresholds: White > 5.0

Notes

| Safety System Functional Failures (PWR) | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

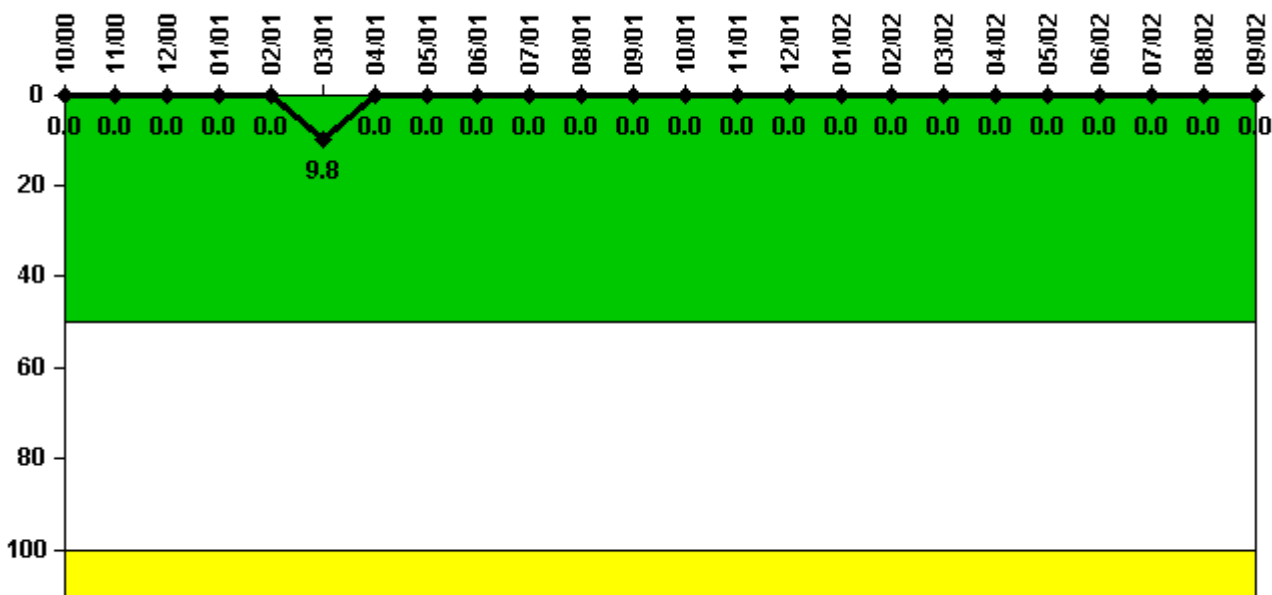
| Reactor Coolant System Activity | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 |
|---------------------------------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0 | 0.000105 | 0.000105 | 0.000110 | 0.000119 | 0.000120 | 0.000119 | 0.000141 | 0.000128 | 0.000126 | 0.000134 | 0.000143 |
| Technical specification limit | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Reactor Coolant System Activity | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 | 4/02 | 5/02 | 6/02 | 7/02 | 8/02 | 9/02 |
|---------------------------------|----------|----------|----------|----------|----------|----------|------|----------|----------|----------|----------|----------|
| Maximum activity | 0.000145 | 0.000142 | 0.000154 | 0.000166 | 0.000154 | 0.000185 | N/A | 0.000086 | 0.000128 | 0.000108 | 0.000120 | 0.000115 |
| Technical specification limit | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | N/A | 0 | 0 | 0 | 0 | 0 |

Licensee Comments:

3/02: Minor change to submitted data for February due to transposition error. Change does not impact the PI trend or change the color

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

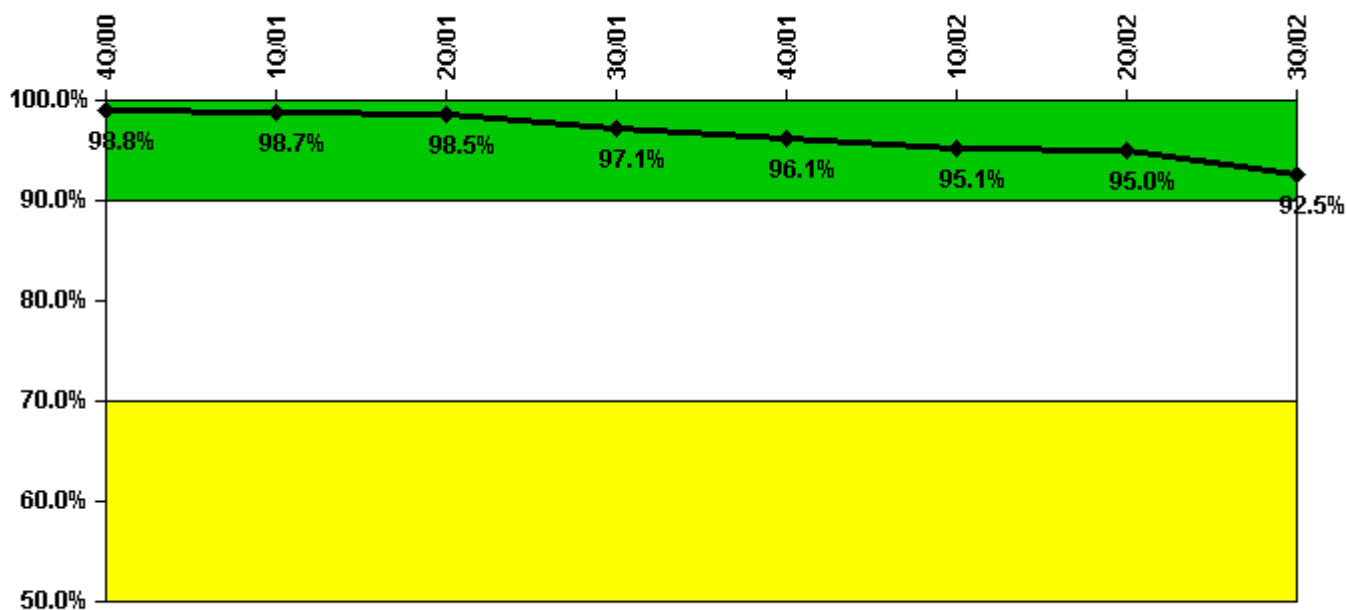
Notes

| 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 | 0 | 0 | 0 | 0 | 0.976 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 9.8 | 0 | 0 | 0 | 0 | 0 | 0 |

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

Licensee Comments: none

Drill/Exercise Performance



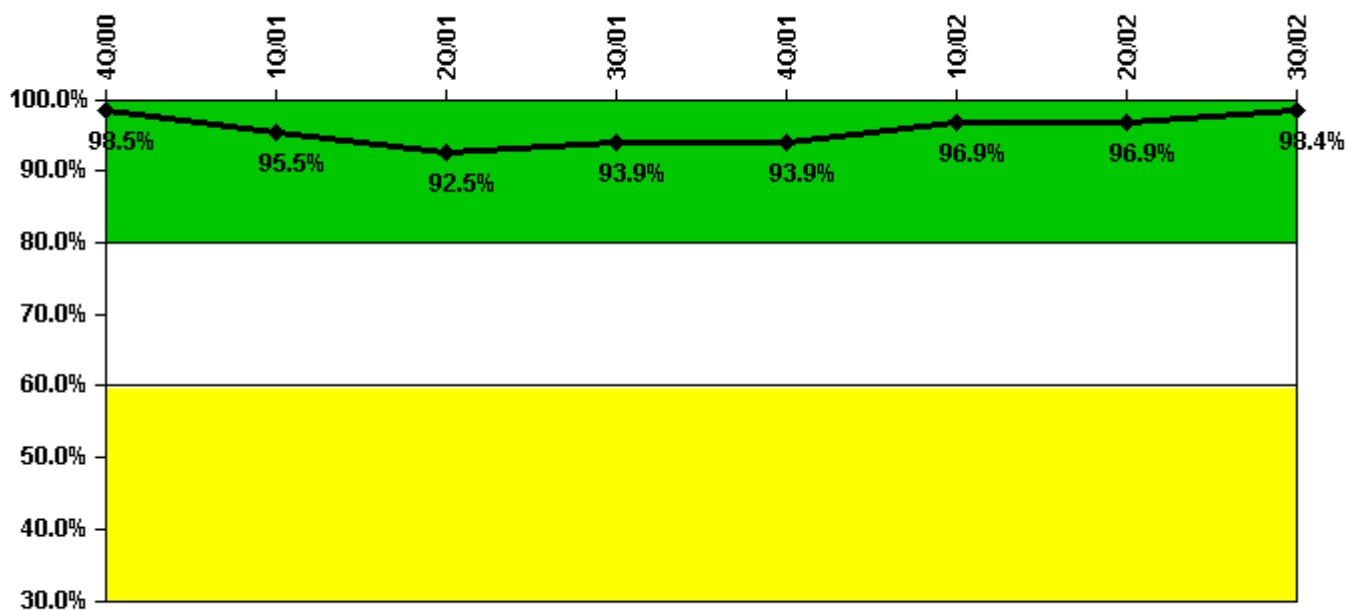
Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 0 | 0 | 0 | 47.0 | 29.0 | 5.0 | 3.0 | 40.0 |
| Total opportunities | 0 | 0 | 0 | 50.0 | 32.0 | 6.0 | 4.0 | 42.0 |
| | | | | | | | | |
| Indicator value | 98.8% | 98.7% | 98.5% | 97.1% | 96.1% | 95.1% | 95.0% | 92.5% |

Licensee Comments: none

ERO Drill Participation



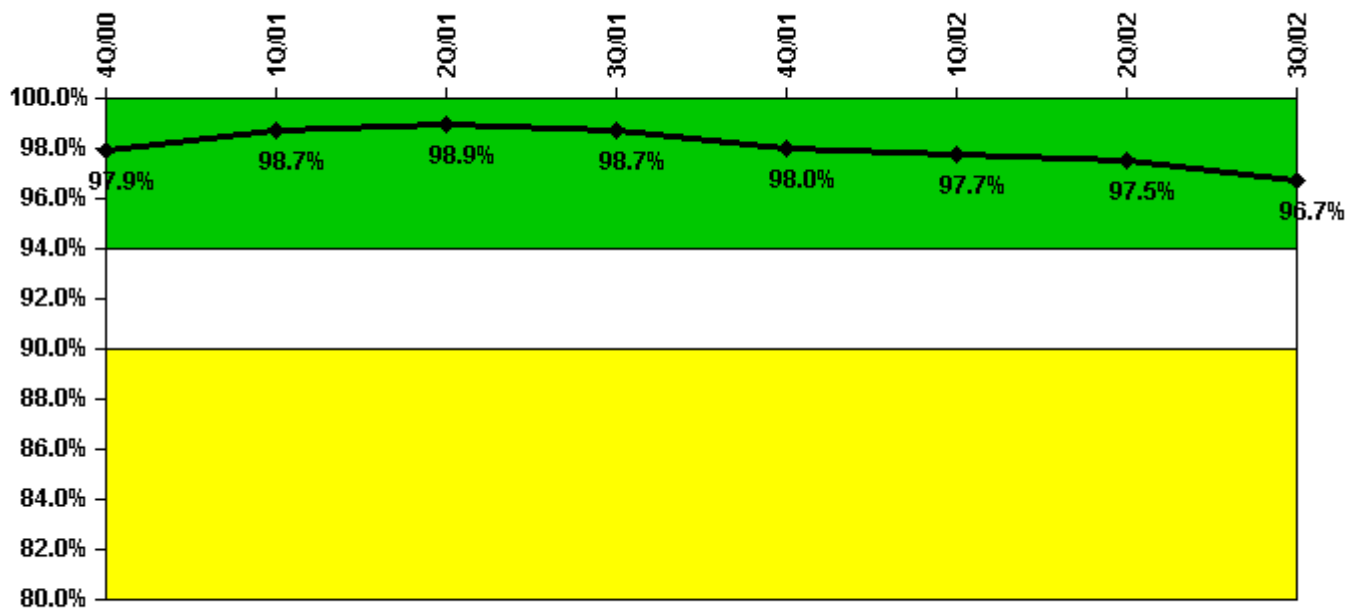
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Participating Key personnel | 65.0 | 63.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 63.0 |
| Total Key personnel | 66.0 | 66.0 | 67.0 | 66.0 | 66.0 | 64.0 | 64.0 | 64.0 |
| | | | | | | | | |
| Indicator value | 98.5% | 95.5% | 92.5% | 93.9% | 93.9% | 96.9% | 96.9% | 98.4% |

Licensee Comments: none

Alert & Notification System



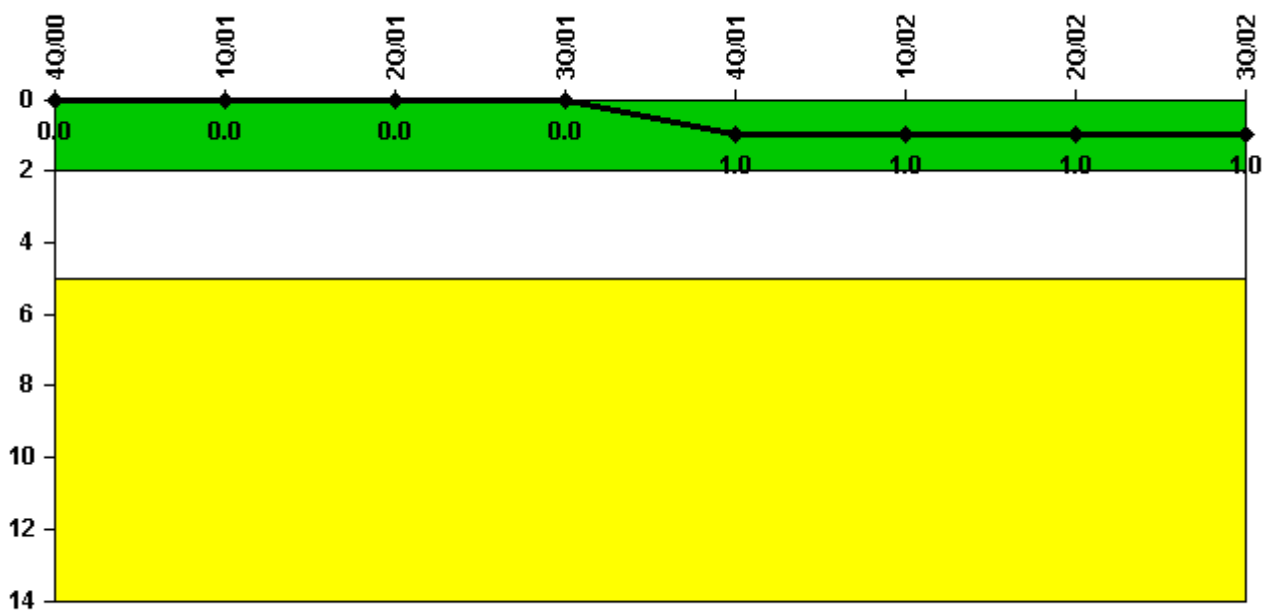
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests | 197 | 196 | 195 | 194 | 191 | 194 | 193 | 188 |
| Total sirens-tests | 198 | 198 | 198 | 198 | 198 | 198 | 198 | 198 |
| | | | | | | | | |
| Indicator value | 97.9% | 98.7% | 98.9% | 98.7% | 98.0% | 97.7% | 97.5% | 96.7% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



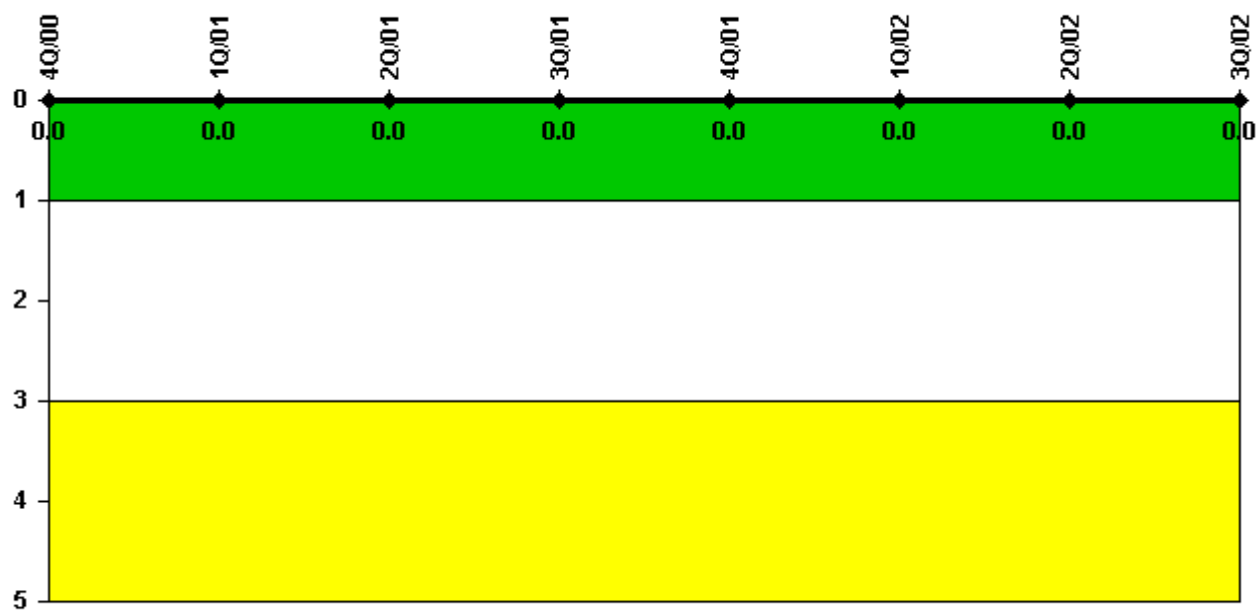
Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 1 | 0 | 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 | 1 | 1 | 1 | 1 |

Licensee Comments: none

RETS/ODCM Radiological Effluent



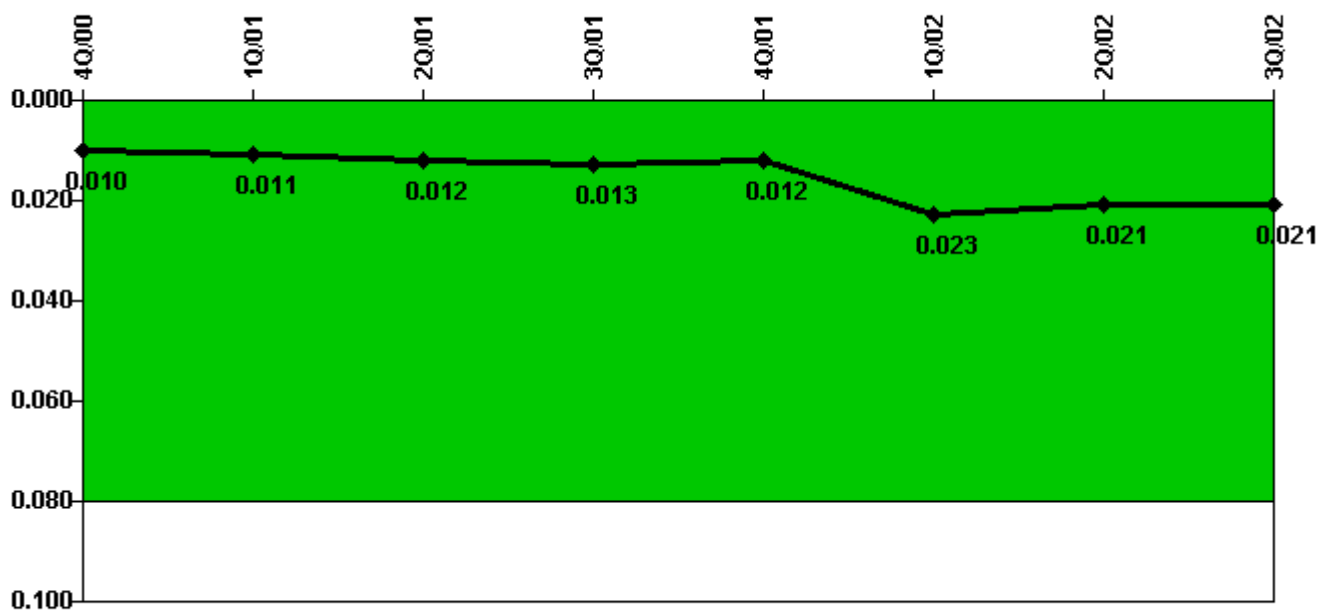
Thresholds: White > 1.0 Yellow > 3.0

Notes

| RETS/ODCM Radiological Effluent | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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



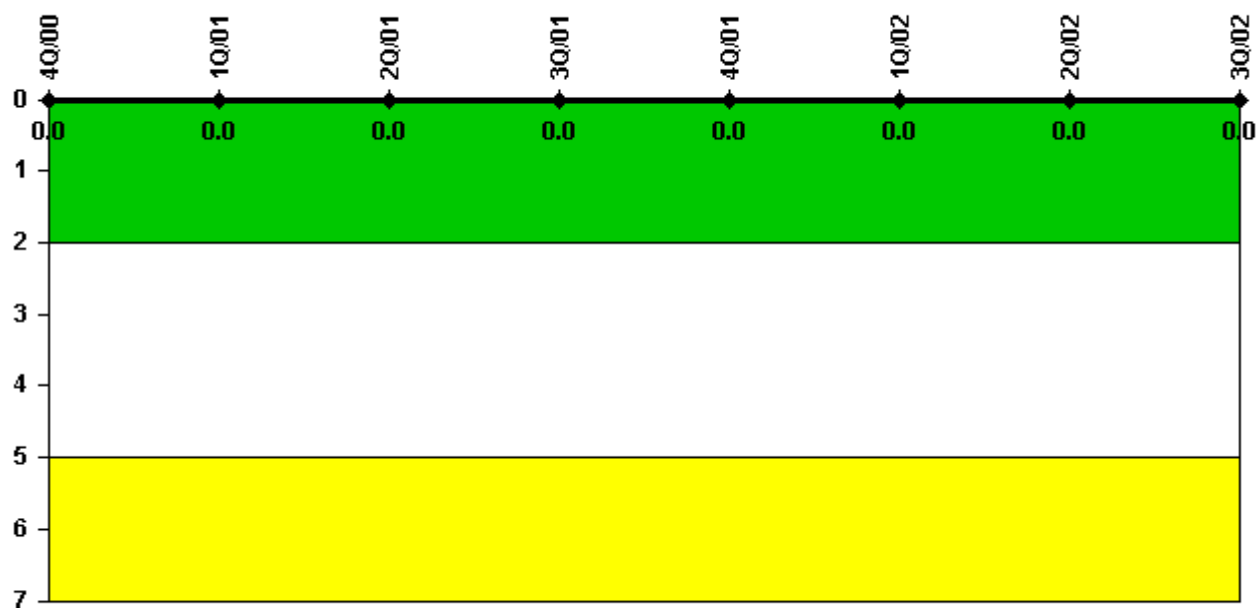
Thresholds: White > 0.080

Notes

| Protected Area Security Performance Index | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|-------|--------|-------|-------|-------|--------|-------|-------|
| IDS compensatory hours | 83.90 | 142.10 | 98.60 | 28.00 | 64.30 | 550.50 | 40.90 | 71.50 |
| CCTV compensatory hours | 5.8 | 4.7 | 29.9 | 49.5 | 2.6 | 12.2 | 10.2 | 8.6 |
| IDS normalization factor | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | | | | | | | |
| Index Value | 0.010 | 0.011 | 0.012 | 0.013 | 0.012 | 0.023 | 0.021 | 0.021 |

Licensee Comments: none

Personnel Screening Program



Thresholds: White > 2.0 Yellow > 5.0

Notes

| Personnel Screening Program | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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: October 22, 2002