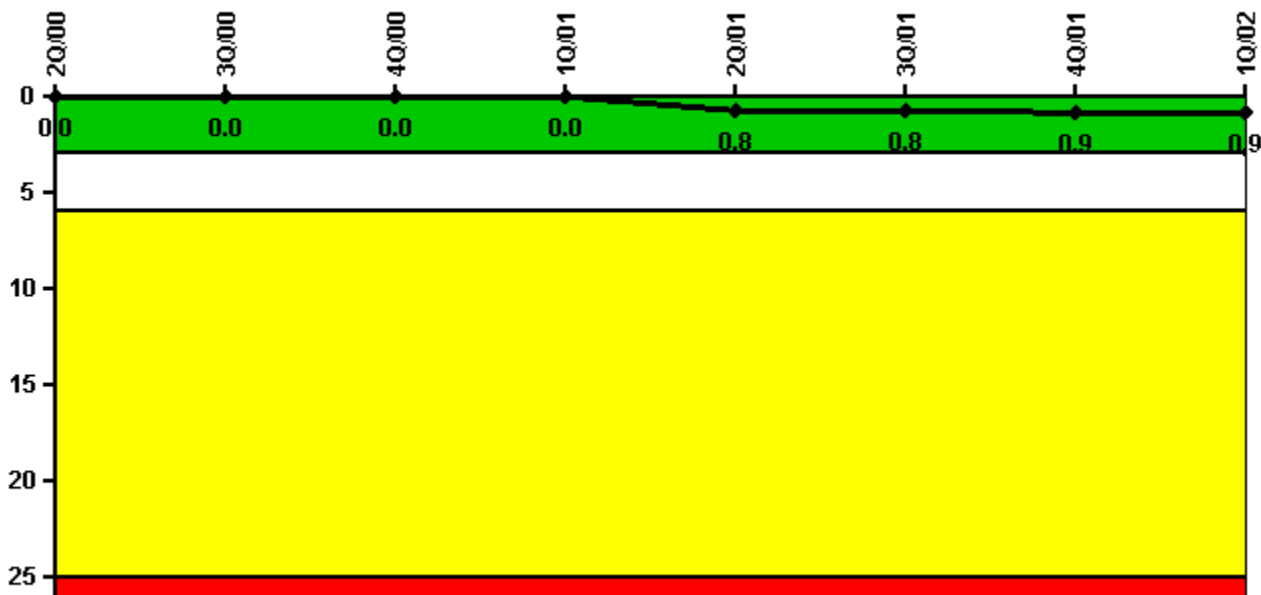


Palo Verde 3

1Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



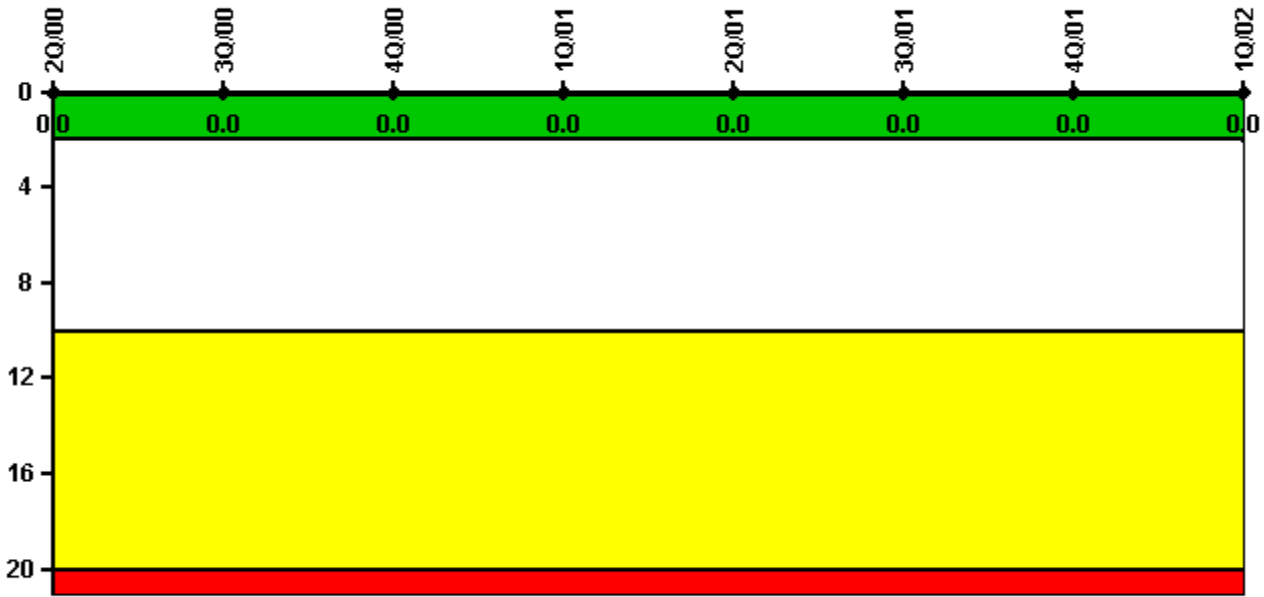
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 1461.5 | 2131.3 | 2164.8 | 1880.5 | 2133.5 | 2118.2 | 1394.4 | 2160.0 |
| | | | | | | | | |
| Indicator value | 0 | 0 | 0 | 0 | 0.8 | 0.8 | 0.9 | 0.9 |

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



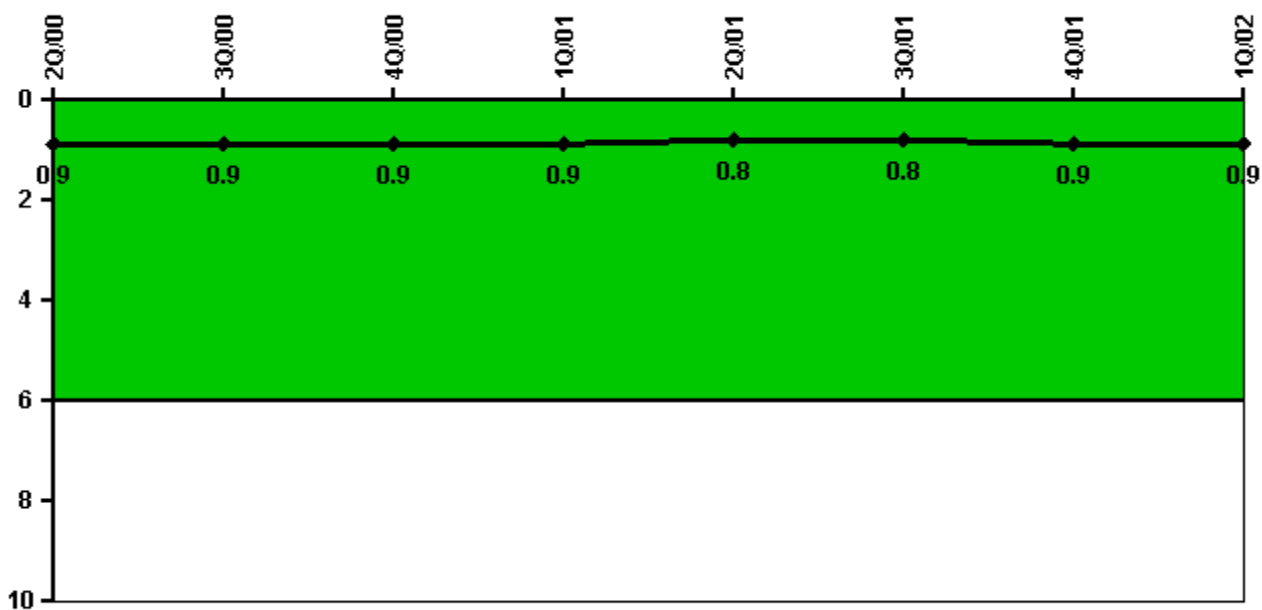
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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



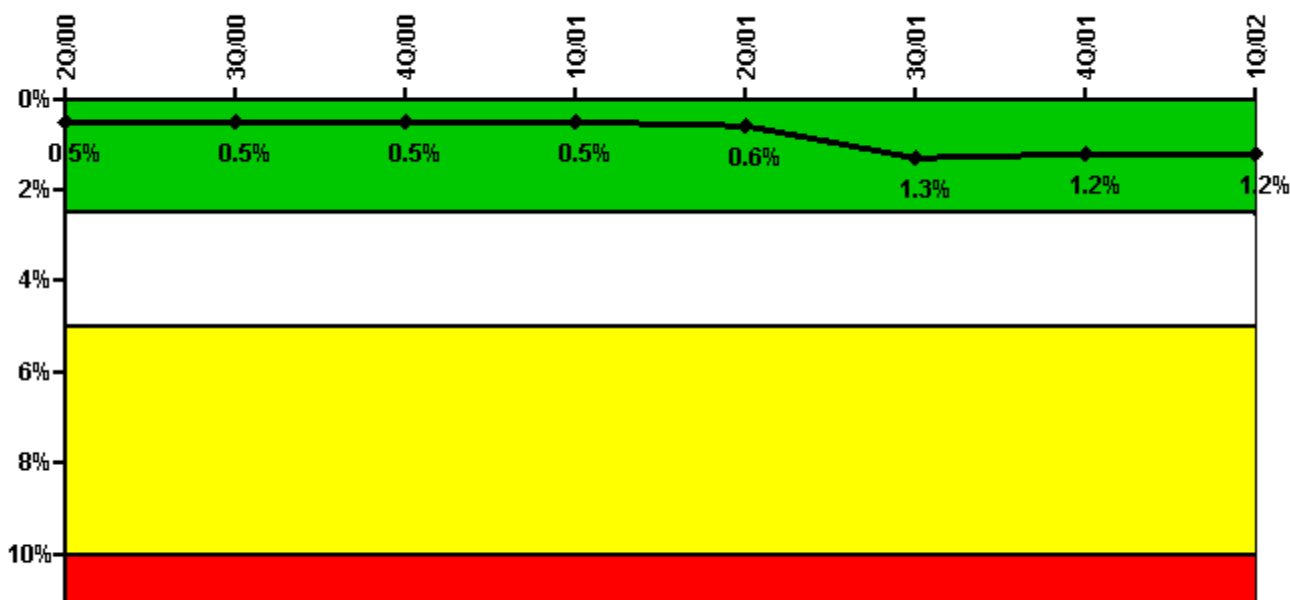
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes | 0 | 1.0 | 0 | 0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 1461.5 | 2131.3 | 2164.8 | 1880.5 | 2133.5 | 2118.2 | 1394.4 | 2160.0 |
| | | | | | | | | |
| Indicator value | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.9 | 0.9 |

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



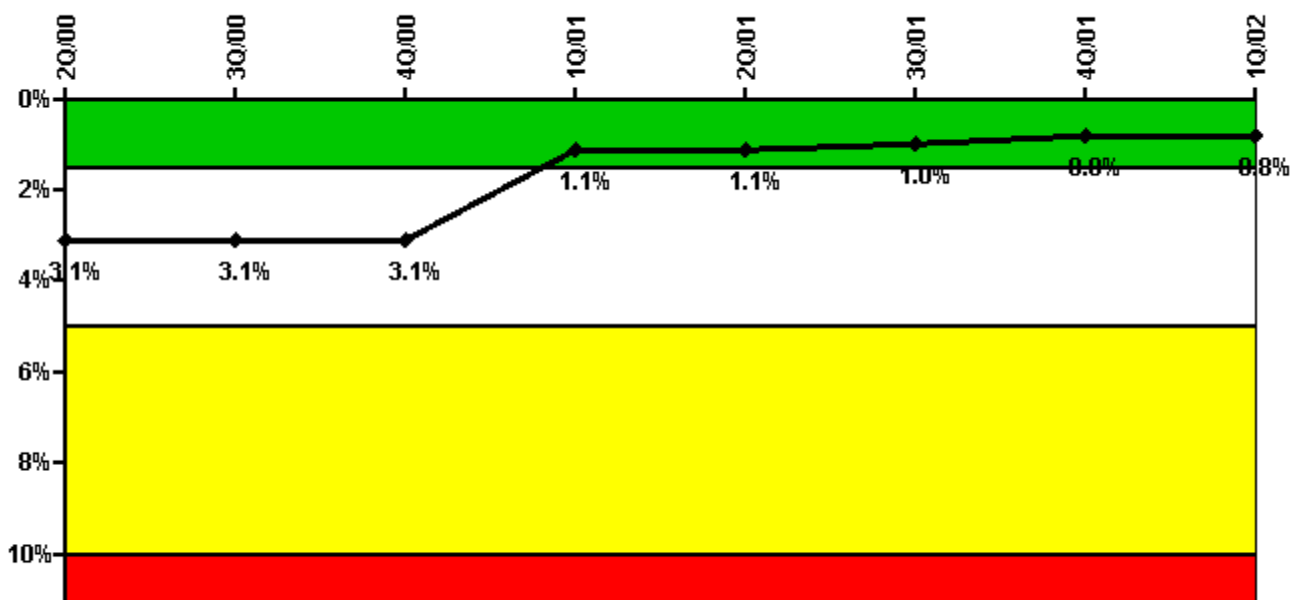
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Emergency AC Power | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0.35 | 24.97 | 0 | 21.30 | 0 | 22.52 | 0.24 | 22.29 |
| Unplanned unavailable hours | 0 | 0 | 0 | 8.88 | 0 | 54.97 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 312.10 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2208.00 | 2208.00 | 2160.00 | 2184.00 | 2208.00 | 2208.00 | 2160.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 15.08 | 0 | 0 | 0 | 54.20 | 0.02 | 0.03 | 0.06 |
| 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 | 2184.00 | 2208.00 | 2208.00 | 2160.00 | 2184.00 | 2208.00 | 2208.00 | 2160.00 |
| | | | | | | | | |
| Indicator value | 0.5% | 0.5% | 0.5% | 0.5% | 0.6% | 1.3% | 1.2% | 1.2% |

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



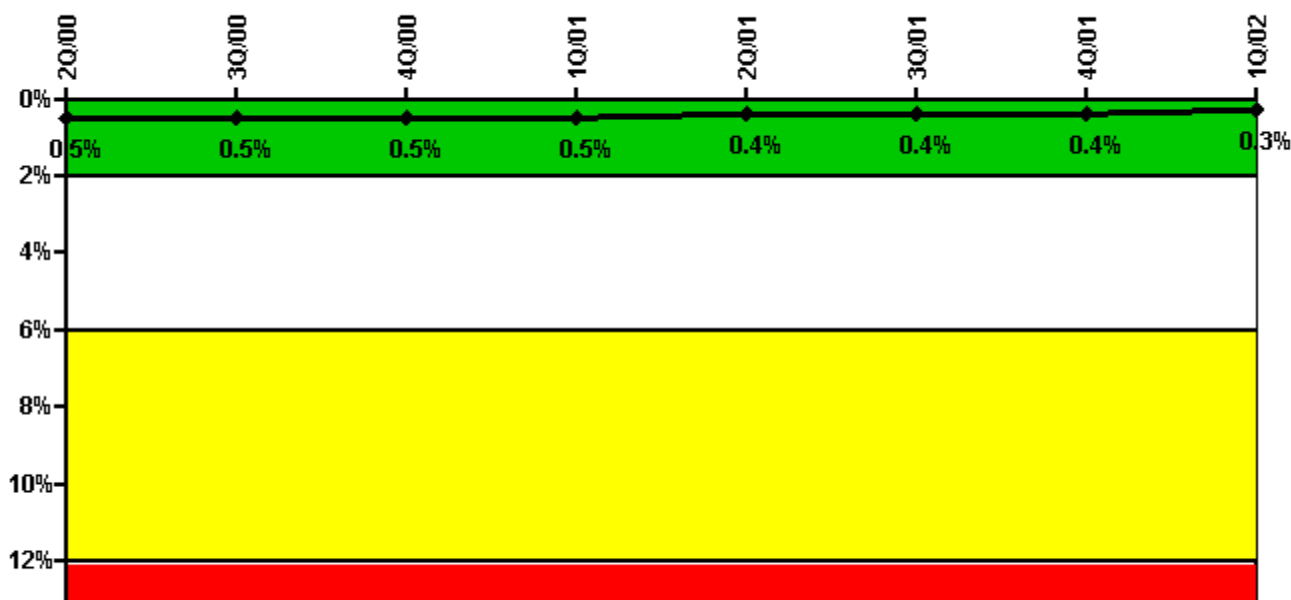
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, High Pressure Injection System (HPSI) | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 3.40 | 29.71 | 8.72 | 20.68 | 14.36 | 23.08 | 1.00 | 21.25 |
| 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 | 1461.50 | 2131.25 | 2164.78 | 1880.50 | 2133.52 | 2118.15 | 1394.42 | 2160.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 21.47 | 1.14 | 43.32 | 2.95 | 22.37 | 14.08 | 9.05 | 1.74 |
| 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 | 984.14 | 0 | 0 | 0 | 0 |
| Required hours | 1461.50 | 2131.25 | 2164.78 | 1880.50 | 2133.52 | 2118.15 | 1394.42 | 2160.00 |
| Indicator value | 3.1% | 3.1% | 3.1% | 1.1% | 1.1% | 1.0% | 0.8% | 0.8% |

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



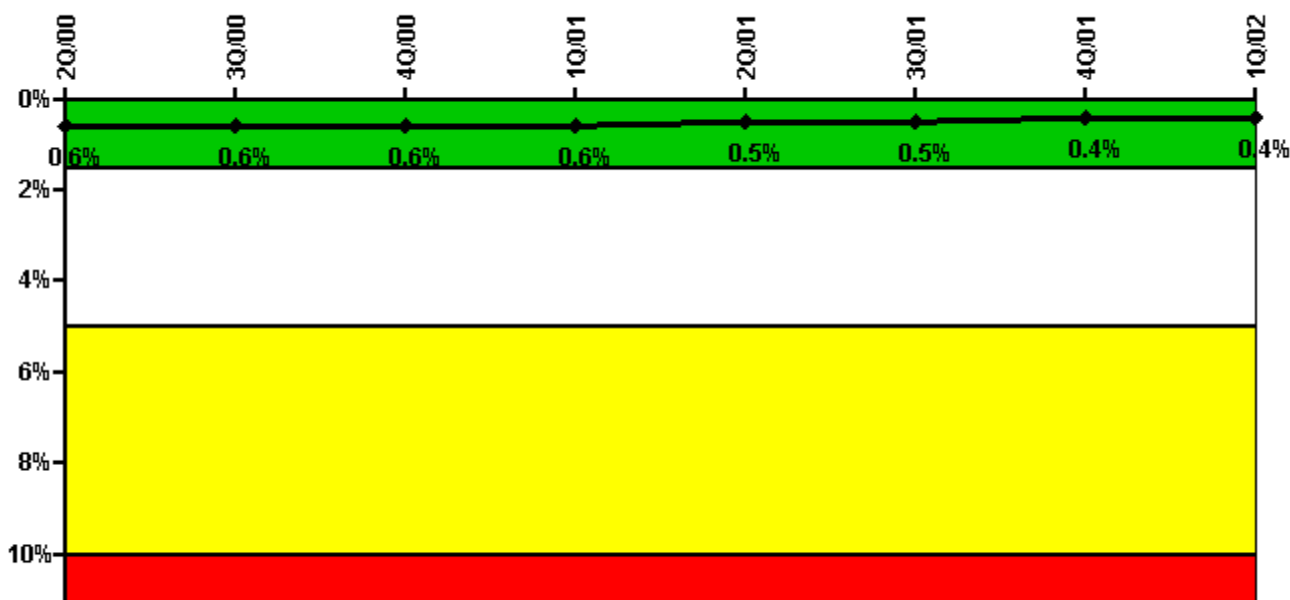
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

| Safety System Unavailability, Heat Removal System (AFW) | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 1.27 | 15.75 | 2.08 | 18.91 | 4.34 | 10.25 | 1.51 | 11.33 |
| Unplanned unavailable hours | 0 | 0 | 0 | 13.33 | 0 | 14.35 | 19.92 | 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 | 1461.50 | 2131.25 | 2164.78 | 1880.50 | 2133.52 | 2118.15 | 1394.42 | 2160.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 9.78 | 0.58 | 21.73 | 0.10 | 12.72 | 2.80 | 0.72 | 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 | 1461.50 | 2131.25 | 2164.78 | 1880.50 | 2133.52 | 2118.15 | 1394.42 | 2160.00 |
| Train 3 | | | | | | | | |
| Planned unavailable hours | 0 | 1.05 | 0.75 | 0.33 | 0.62 | 0.43 | 0.37 | 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 | 1461.50 | 2131.25 | 2164.78 | 1880.50 | 2133.52 | 2118.15 | 1394.42 | 2160.00 |
| Indicator value | 0.5% | 0.5% | 0.5% | 0.5% | 0.4% | 0.4% | 0.4% | 0.3% |

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



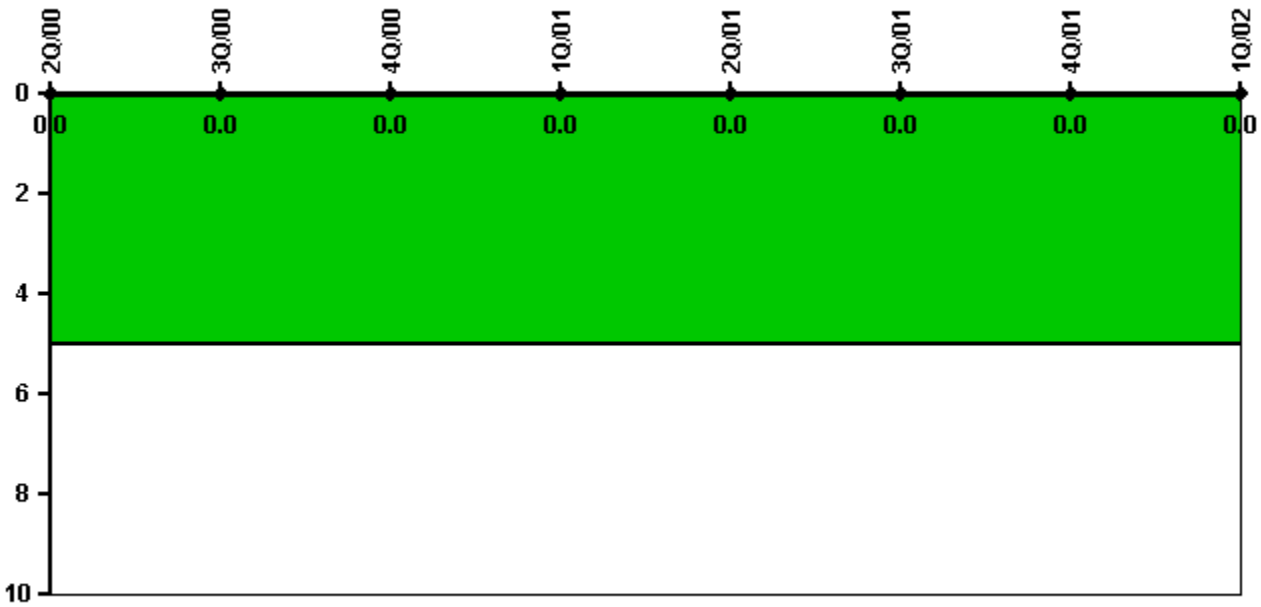
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Residual Heat Removal System | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 6.32 | 18.19 | 5.00 | 20.75 | 15.68 | 17.84 | 8.72 | 13.87 |
| 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 | 1516.87 | 2142.10 | 2204.97 | 1937.68 | 2184.00 | 2181.85 | 1450.00 | 2160.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 18.05 | 12.84 | 39.16 | 3.97 | 14.30 | 19.79 | 4.25 | 1.85 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 1.10 | 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 | 1516.87 | 2142.10 | 2204.97 | 1937.68 | 2184.00 | 2181.85 | 1450.00 | 2160.00 |
| Train 3 | | | | | | | | |
| 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 | 335.80 | 0 | 0 | 188.53 | 0 | 0.95 | 342.45 | 0 |
| Train 4 | | | | | | | | |
| 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 | 294.12 | 65.90 | 3.03 | 206.00 | 0 | 39.08 | 352.22 | 0 |
| | | | | | | | | |
| Indicator value | 0.6% | 0.6% | 0.6% | 0.6% | 0.5% | 0.5% | 0.4% | 0.4% |

Licensee Comments: none

Safety System Functional Failures (PWR)



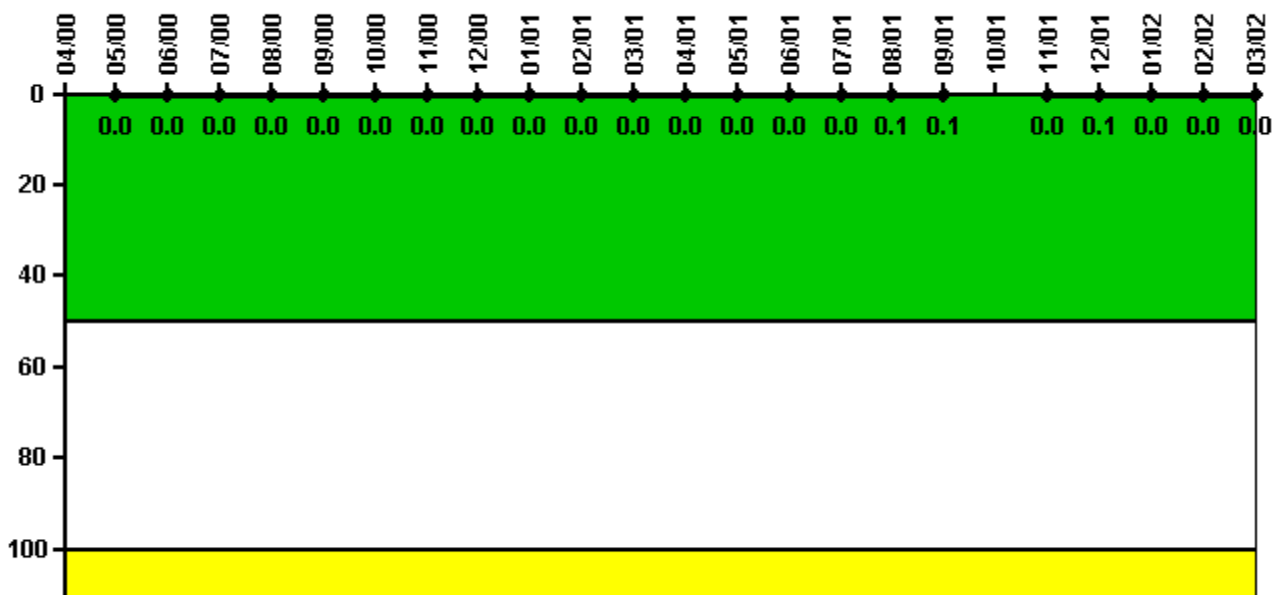
Thresholds: White > 5.0

Notes

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

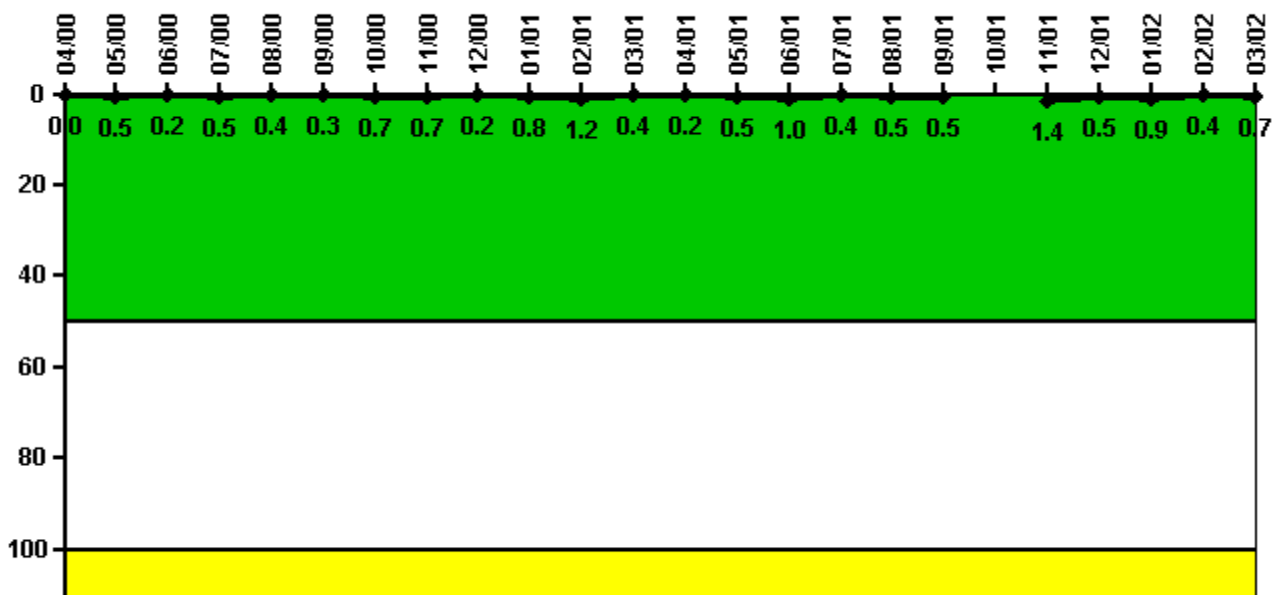
Notes

| Reactor Coolant System Activity | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 |
|---------------------------------|------|------|------|------|------|------|-------|-------|-------|------|------|------|
| Maximum activity | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Technical specification limit | N/A | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Reactor Coolant System Activity | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 |
|---------------------------------|------|------|------|------|----------|----------|-------|-------|----------|------|------|------|
| Maximum activity | 0 | 0 | 0 | 0 | 0.001000 | 0.001000 | N/A | 0 | 0.001000 | 0 | 0 | 0 |
| Technical specification limit | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | N/A | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Indicator value | 0 | 0 | 0 | 0 | 0.1 | 0.1 | N/A | 0 | 0.1 | 0 | 0 | 0 |

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

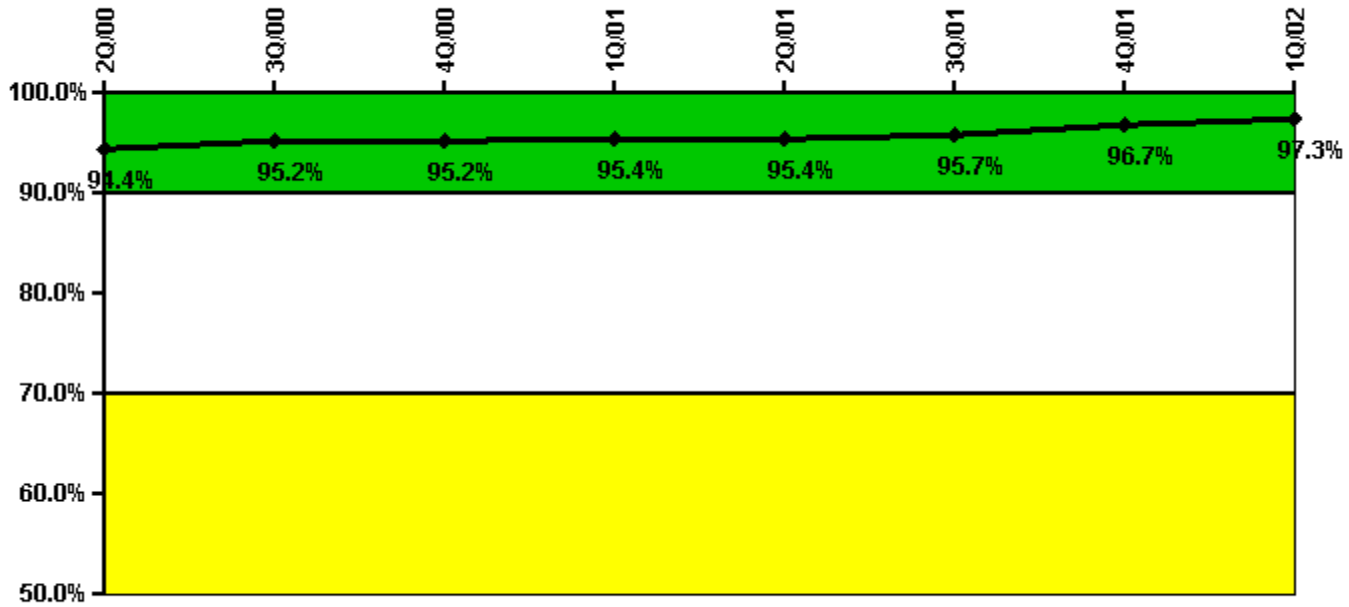
Notes

| Reactor Coolant System Leakage | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 0.001 | 0.048 | 0.017 | 0.047 | 0.035 | 0.034 | 0.065 | 0.074 | 0.022 | 0.081 | 0.116 | 0.043 |
| 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 | 0.5 | 0.2 | 0.5 | 0.4 | 0.3 | 0.7 | 0.7 | 0.2 | 0.8 | 1.2 | 0.4 |

| Reactor Coolant System Leakage | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 0.022 | 0.049 | 0.097 | 0.037 | 0.052 | 0.054 | N/A | 0.136 | 0.047 | 0.085 | 0.038 | 0.069 |
| Technical specification limit | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | N/A | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Indicator value | 0.2 | 0.5 | 1.0 | 0.4 | 0.5 | 0.5 | N/A | 1.4 | 0.5 | 0.9 | 0.4 | 0.7 |

Licensee Comments: none

Drill/Exercise Performance



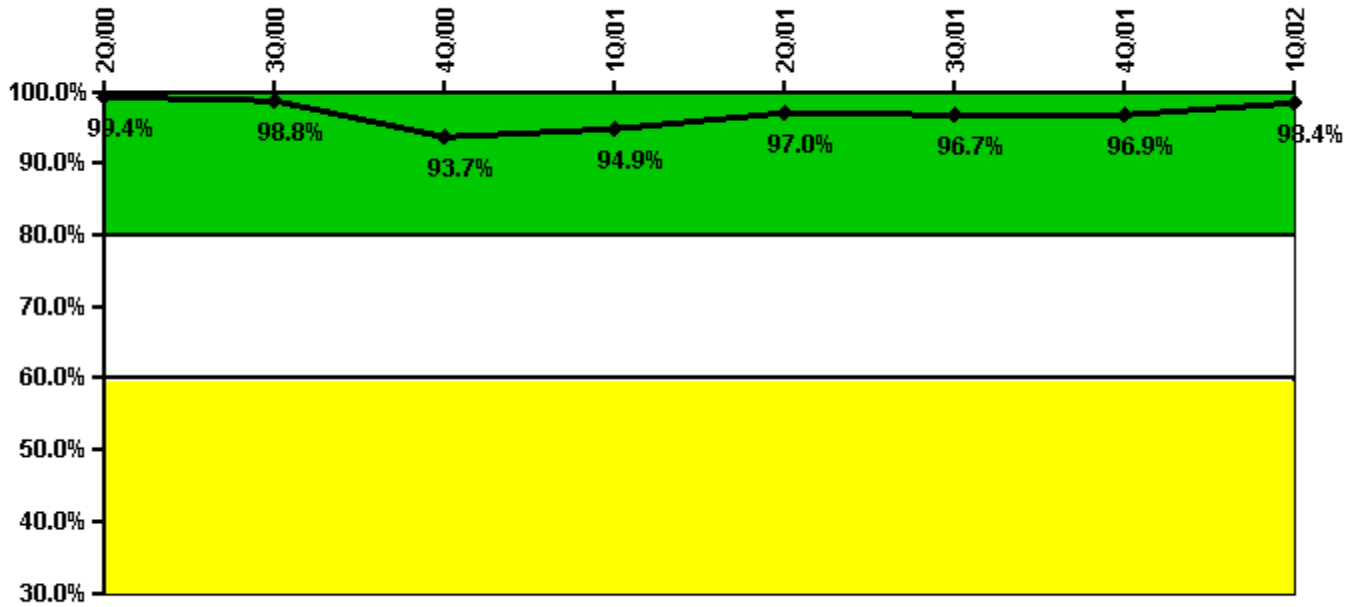
Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 22.0 | 95.0 | 0 | 20.0 | 0 | 9.0 | 86.0 | 19.0 |
| Total opportunities | 22.0 | 100.0 | 0 | 20.0 | 0 | 9.0 | 87.0 | 20.0 |
| | | | | | | | | |
| Indicator value | 94.4% | 95.2% | 95.2% | 95.4% | 95.4% | 95.7% | 96.7% | 97.3% |

Licensee Comments: none

ERO Drill Participation



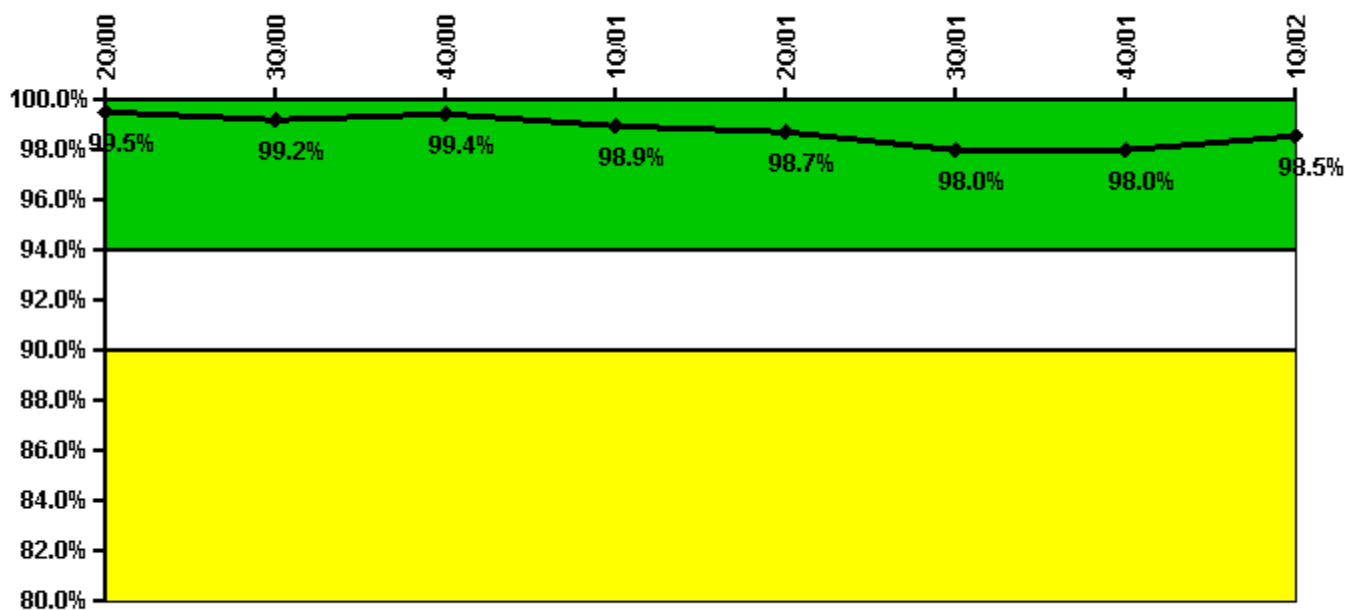
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Participating Key personnel | 166.0 | 165.0 | 163.0 | 166.0 | 160.0 | 176.0 | 188.0 | 188.0 |
| Total Key personnel | 167.0 | 167.0 | 174.0 | 175.0 | 165.0 | 182.0 | 194.0 | 191.0 |
| | | | | | | | | |
| Indicator value | 99.4% | 98.8% | 93.7% | 94.9% | 97.0% | 96.7% | 96.9% | 98.4% |

Licensee Comments: none

Alert & Notification System



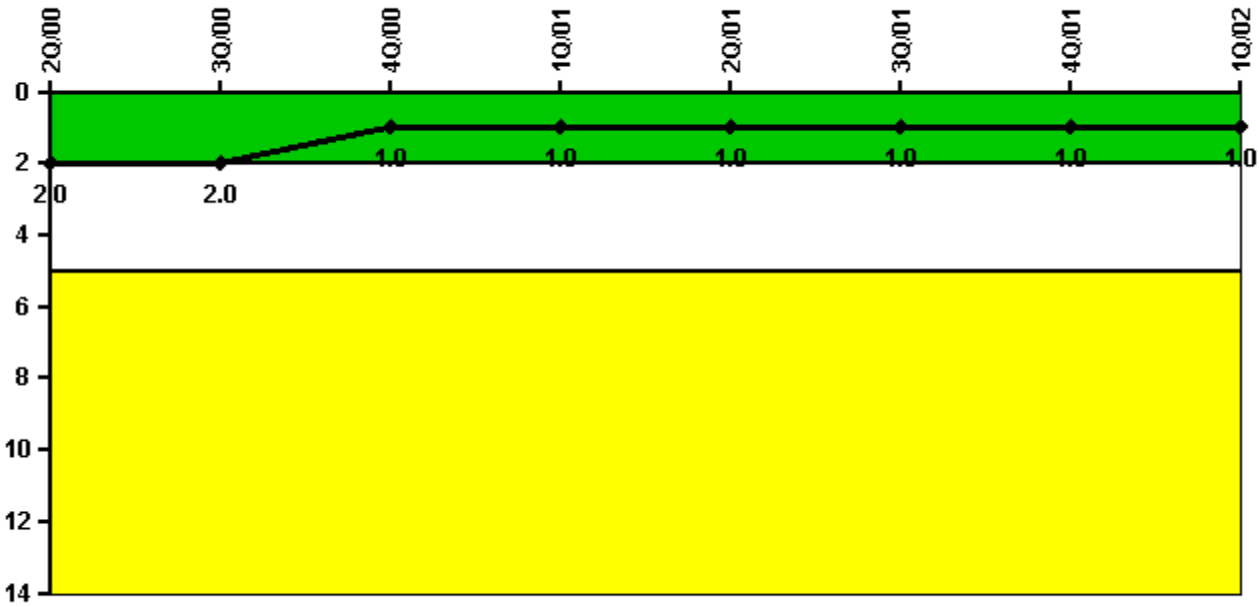
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests | 385 | 347 | 467 | 382 | 382 | 375 | 466 | 390 |
| Total sirens-tests | 390 | 351 | 468 | 390 | 390 | 390 | 468 | 390 |
| | | | | | | | | |
| Indicator value | 99.5% | 99.2% | 99.4% | 98.9% | 98.7% | 98.0% | 98.0% | 98.5% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



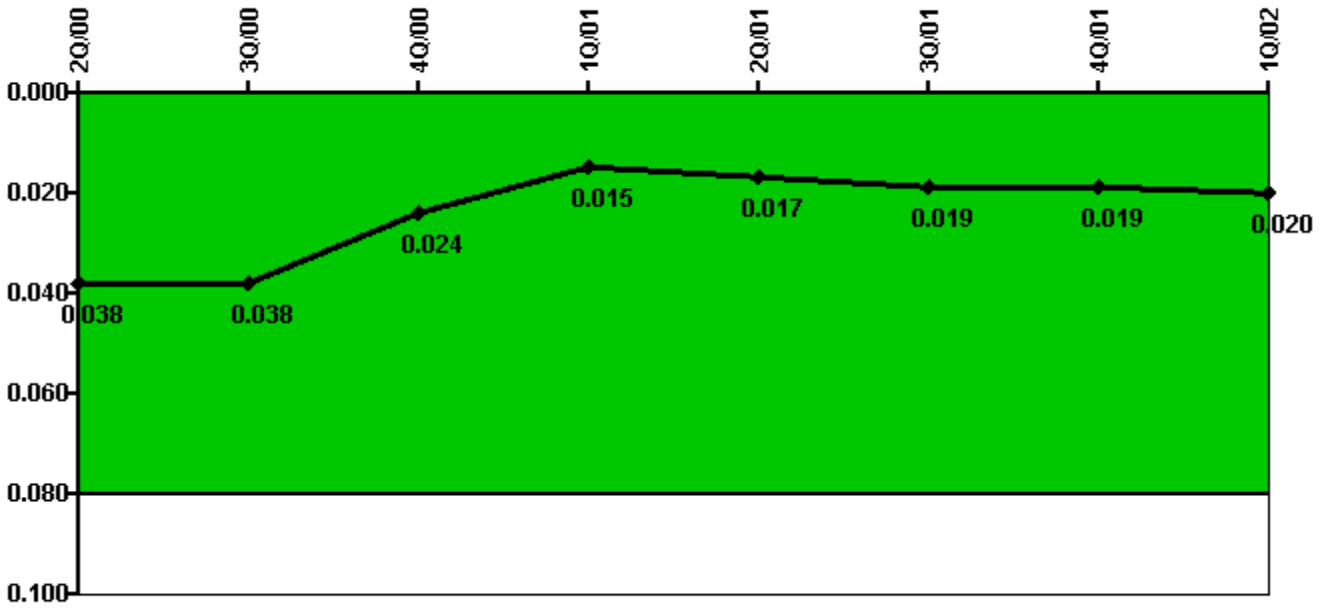
Thresholds: White > 1.0 Yellow > 3.0

Notes

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



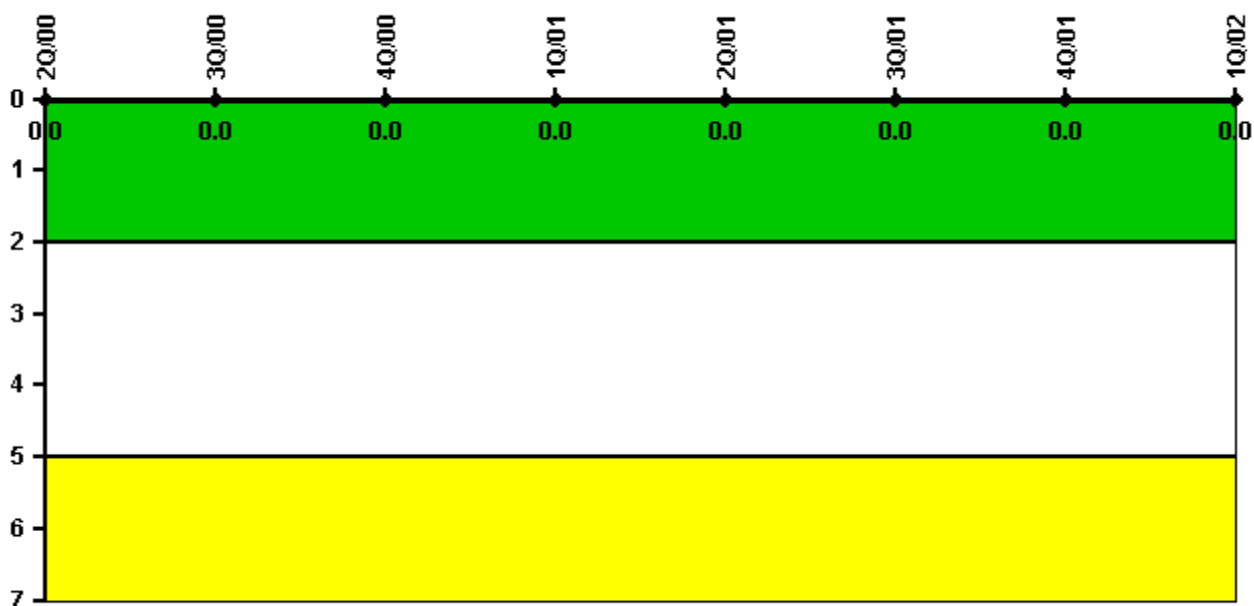
Thresholds: White > 0.080

Notes

| Protected Area Security Performance Index | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| IDS compensatory hours | 79.20 | 85.60 | 95.20 | 71.50 | 109.90 | 71.00 | 65.30 | 87.00 |
| CCTV compensatory hours | 76.7 | 8.5 | 1.3 | 19.8 | 82.6 | 69.5 | 14.6 | 39.4 |
| IDS normalization factor | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 |
| CCTV normalization factor | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| | | | | | | | | |
| Index Value | 0.038 | 0.038 | 0.024 | 0.015 | 0.017 | 0.019 | 0.019 | 0.020 |

Licensee Comments: none

Personnel Screening Program



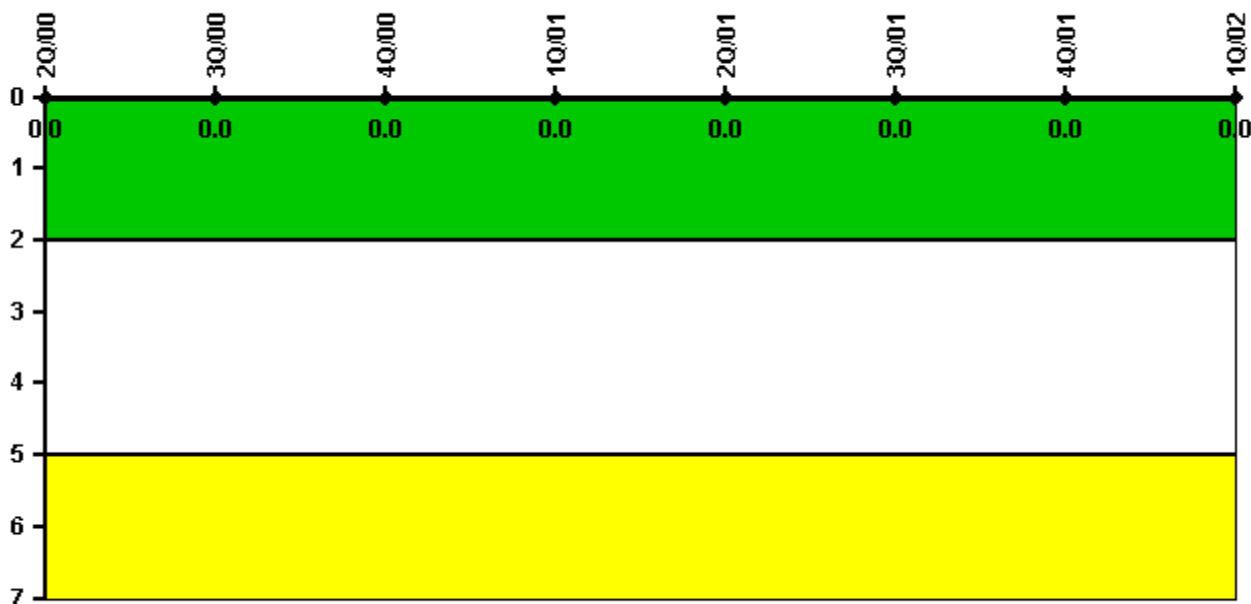
Thresholds: White > 2.0 Yellow > 5.0

Notes

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