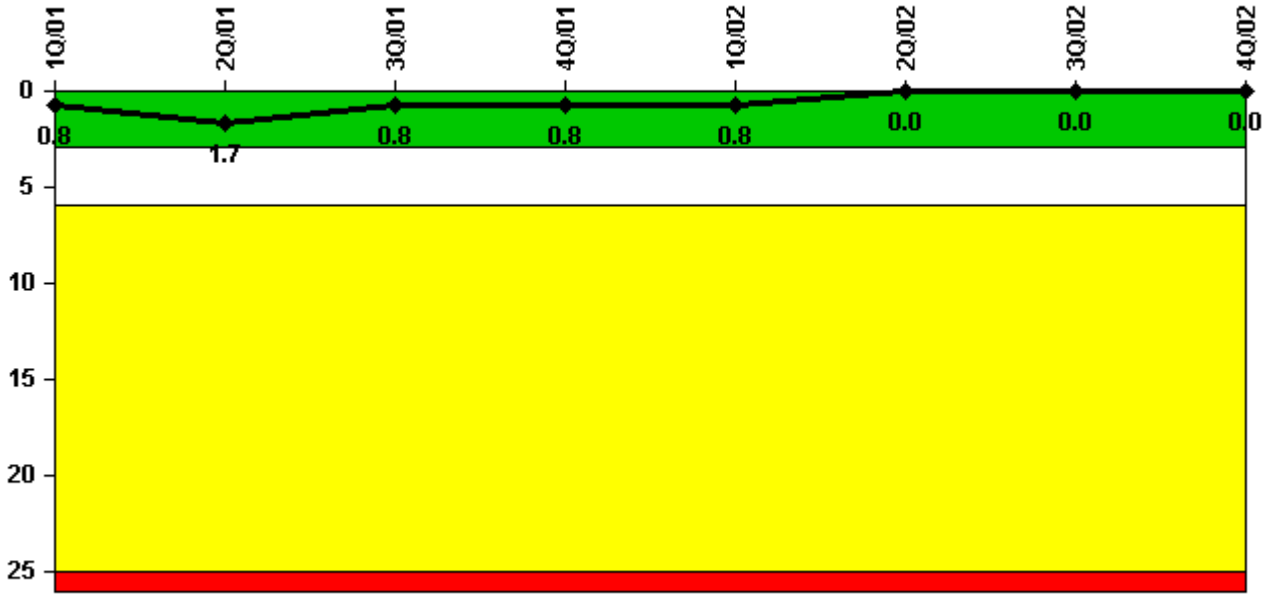


Byron 2

4Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



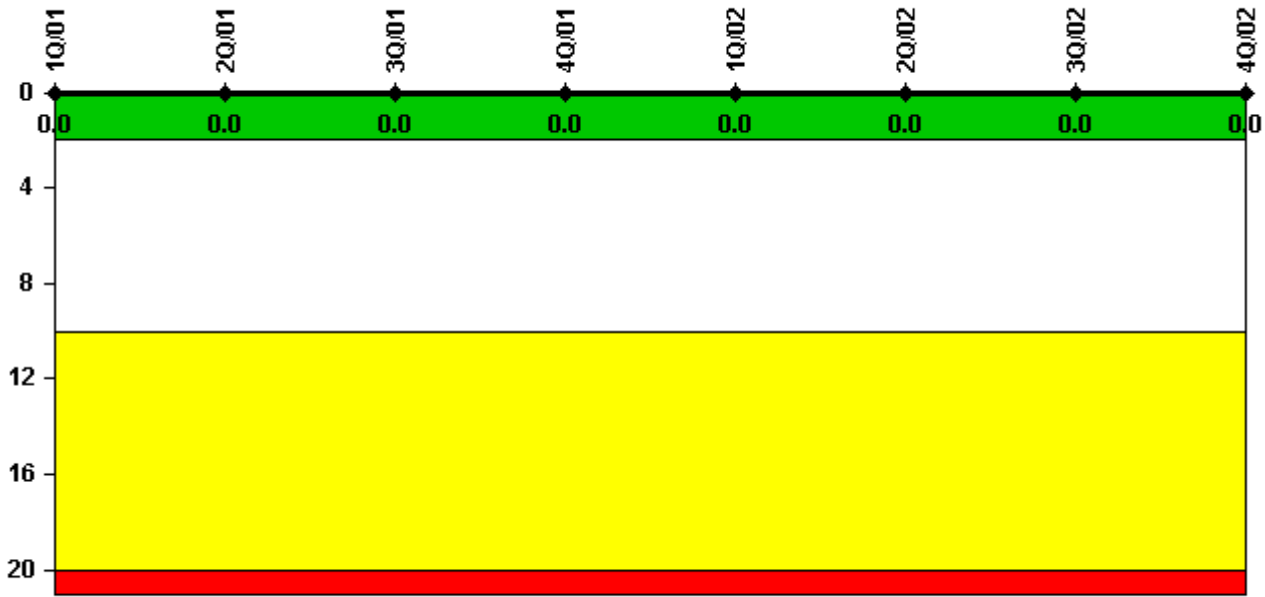
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2160.0 | 1795.3 | 2208.0 | 2209.0 | 2160.0 | 2056.2 | 1870.2 | 2062.0 |
| | | | | | | | | |
| Indicator value | 0.8 | 1.7 | 0.8 | 0.8 | 0.8 | 0 | 0 | 0 |

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



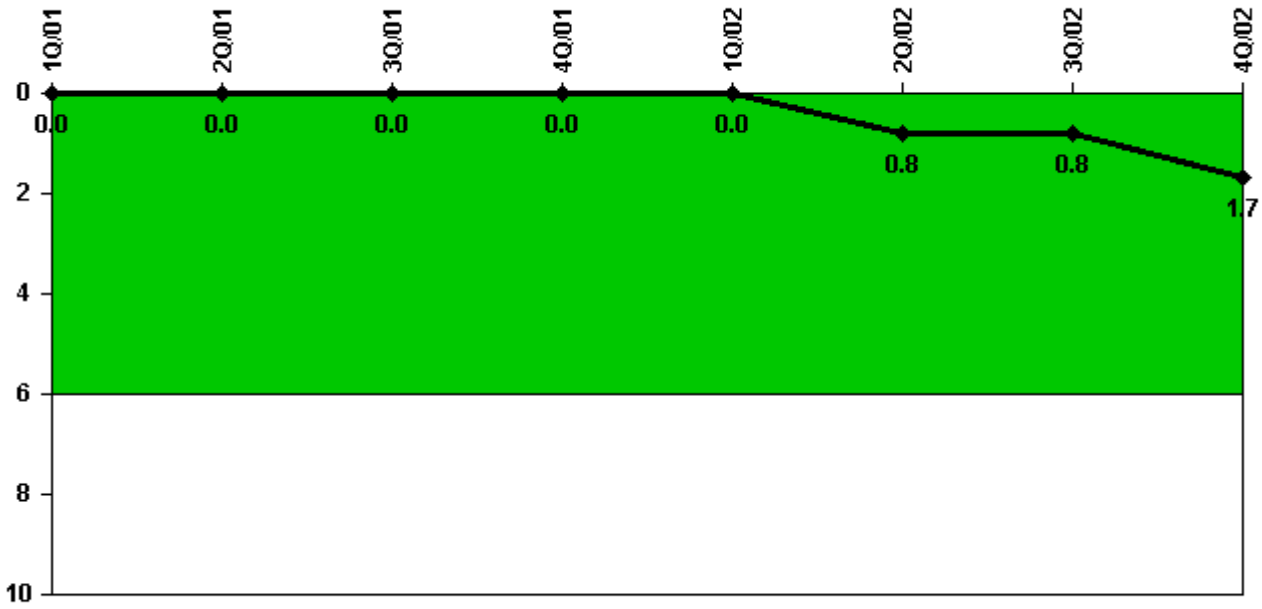
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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



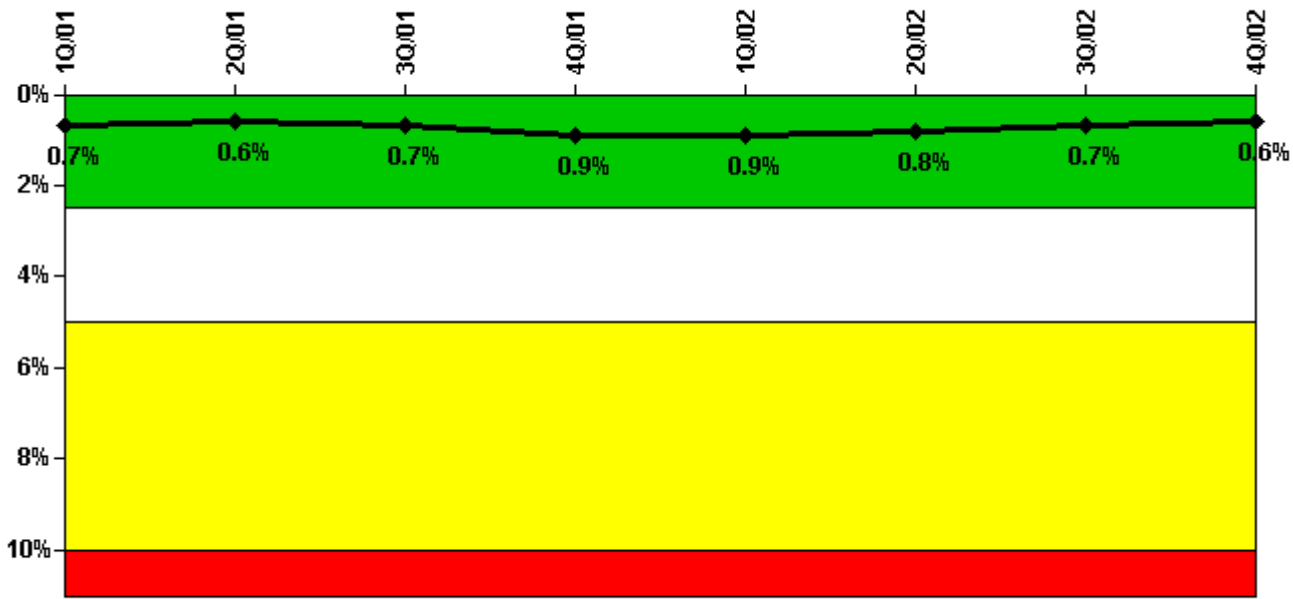
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 1.0 |
| Critical hours | 2160.0 | 1795.3 | 2208.0 | 2209.0 | 2160.0 | 2056.2 | 1870.2 | 2062.0 |
| | | | | | | | | |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0.8 | 0.8 | 1.7 |

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



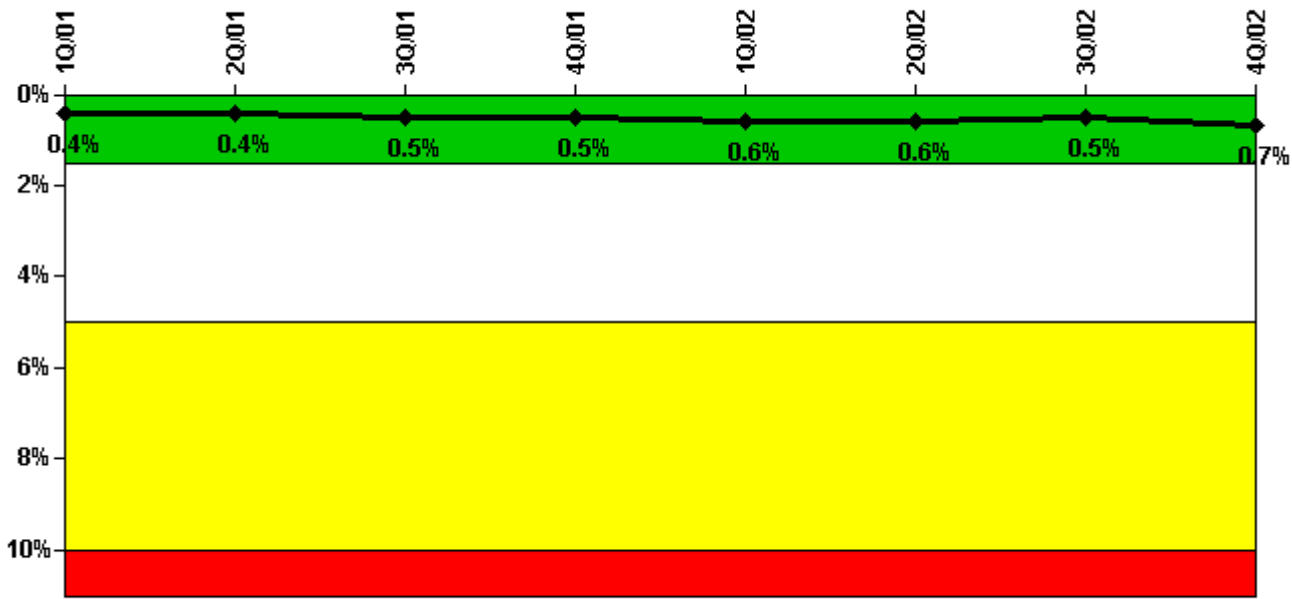
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Emergency AC Power | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 17.50 | 0 | 11.20 | 11.80 | 7.80 | 13.20 | 2.30 | 8.60 |
| Unplanned unavailable hours | 0 | 0 | 0 | 87.50 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 3.90 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 0 | 6.20 | 0 | 18.30 | 17.60 | 12.00 | 3.40 | 2.60 |
| Unplanned unavailable hours | 0 | 0 | 8.20 | 15.90 | 0 | 30.40 | 10.70 | 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 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| Indicator value | 0.7% | 0.6% | 0.7% | 0.9% | 0.9% | 0.8% | 0.7% | 0.6% |

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



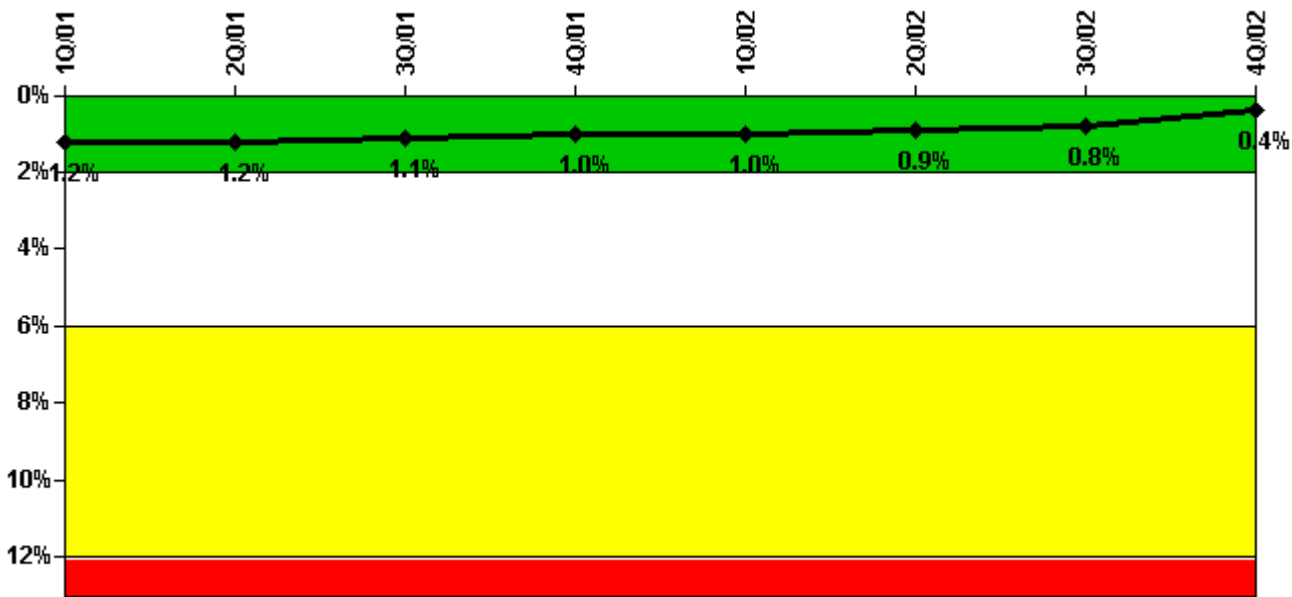
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, High Pressure Injection System (HPSI) | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 42.70 | 18.50 | 4.80 | 10.90 | 22.00 | 3.20 | 23.90 | 2.40 |
| 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 | 2160.00 | 1795.32 | 2208.00 | 2209.00 | 2160.00 | 2056.20 | 1870.20 | 2062.20 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 13.93 | 0 | 17.30 | 52.20 | 3.00 | 6.60 | 3.40 | 1.30 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 64.80 | 0 | 0 | 135.90 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50.40 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 1795.32 | 2208.00 | 2209.00 | 2160.00 | 2056.20 | 1870.20 | 2062.20 |
| Train 3 | | | | | | | | |
| Planned unavailable hours | 1.60 | 10.70 | 27.60 | 2.90 | 1.20 | 3.20 | 4.90 | 2.40 |
| Unplanned unavailable hours | 0 | 0 | 34.30 | 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 | 2160.00 | 1795.32 | 2208.00 | 2209.00 | 2160.00 | 2056.20 | 1870.20 | 2062.20 |
| Train 4 | | | | | | | | |
| Planned unavailable hours | 9.18 | 0 | 0 | 1.60 | 3.00 | 26.80 | 3.40 | 3.00 |
| 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 | 2160.00 | 1795.32 | 2208.00 | 2209.00 | 2160.00 | 2056.20 | 1870.20 | 2062.20 |
| | | | | | | | | |
| Indicator value | 0.4% | 0.4% | 0.5% | 0.5% | 0.6% | 0.6% | 0.5% | 0.7% |

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



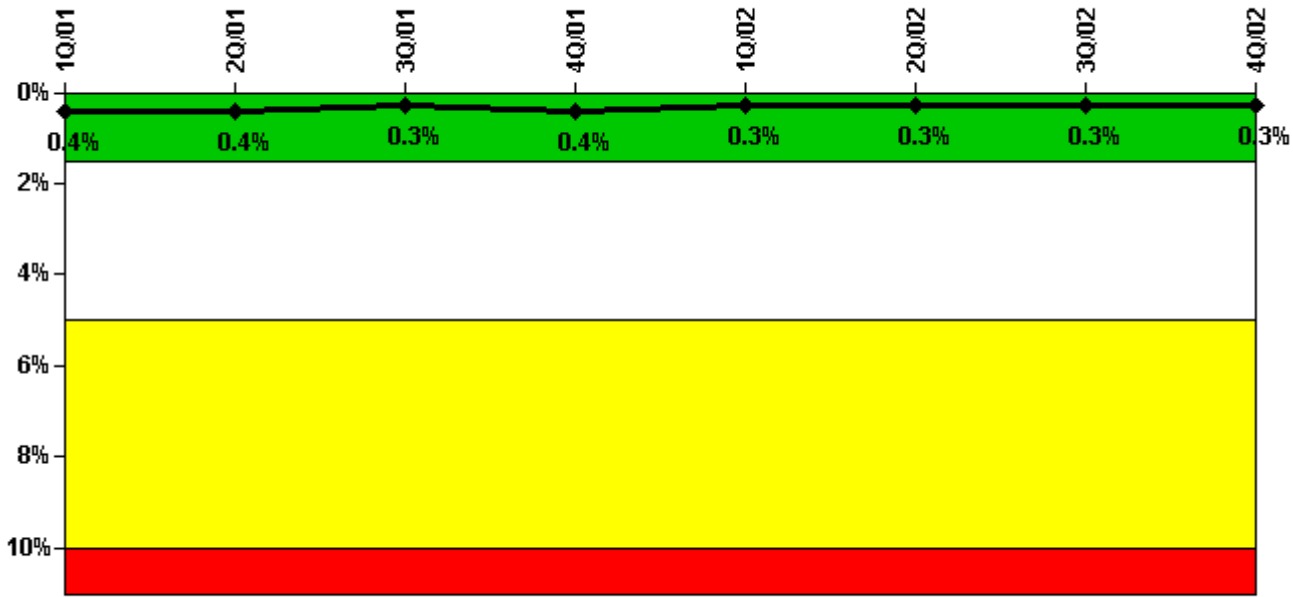
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

| Safety System Unavailability, Heat Removal System (AFW) | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 2.70 | 1.80 | 2.20 | 4.80 | 2.90 | 4.30 | 3.60 | 4.10 |
| 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 | 2160.00 | 1795.32 | 2208.00 | 2209.00 | 2160.00 | 2056.20 | 1870.20 | 2062.20 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 2.70 | 17.10 | 3.40 | 3.50 | 32.20 | 2.90 | 26.20 | 19.30 |
| Unplanned unavailable hours | 0 | 0 | 0 | 1.40 | 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 | 2160.00 | 1795.32 | 2208.00 | 2209.00 | 2160.00 | 2056.20 | 1870.20 | 2062.20 |
| | | | | | | | | |
| Indicator value | 1.2% | 1.2% | 1.1% | 1.0% | 1.0% | 0.9% | 0.8% | 0.4% |

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



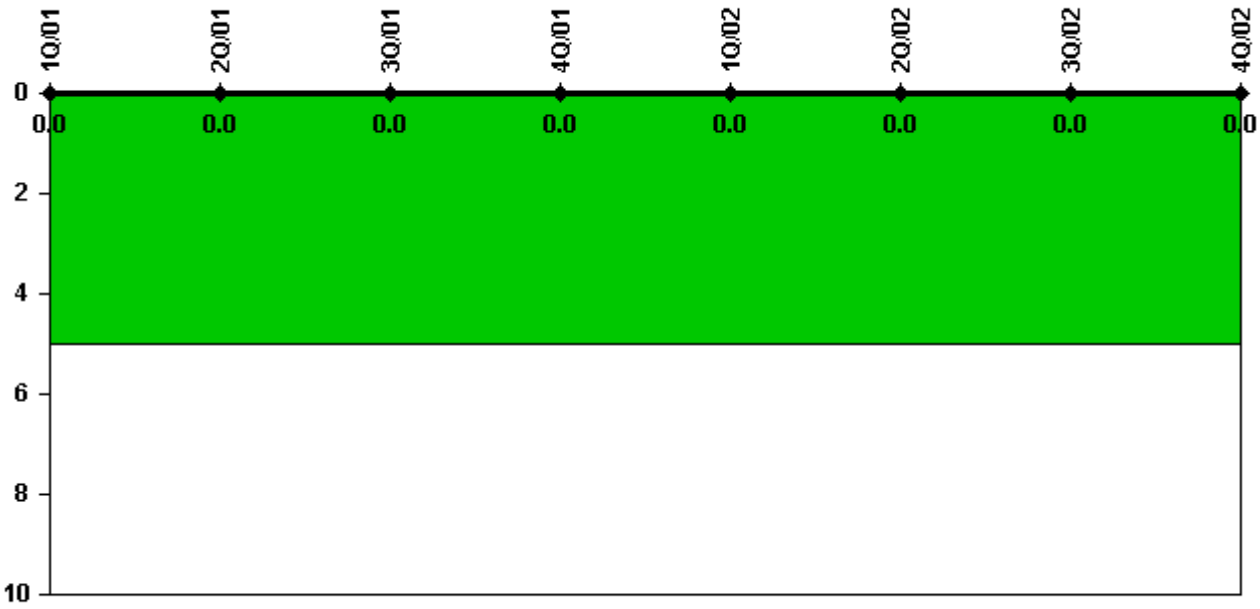
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Residual Heat Removal System | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0.30 | 3.00 | 0.40 | 2.90 | 1.30 | 3.20 | 21.60 | 2.40 |
| 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 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 1.12 | 1.00 | 0.50 | 13.90 | 26.30 | 2.90 | 3.70 | 2.60 |
| 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 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| Indicator value | 0.4% | 0.4% | 0.3% | 0.4% | 0.3% | 0.3% | 0.3% | 0.3% |

Licensee Comments: none

Safety System Functional Failures (PWR)



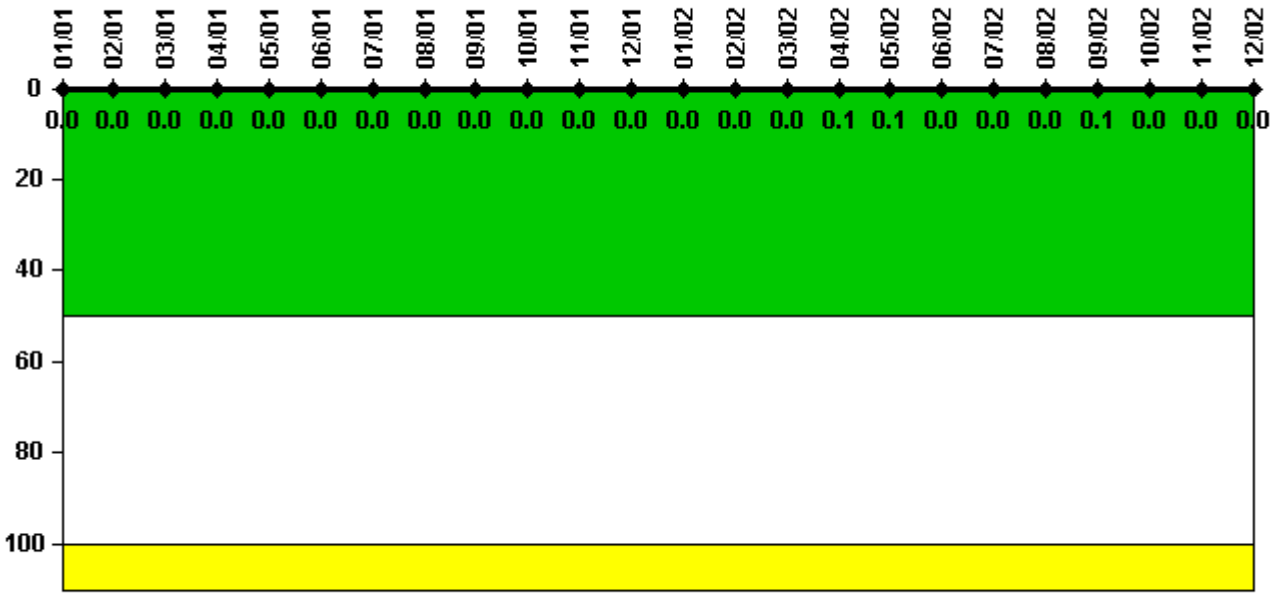
Thresholds: White > 5.0

Notes

| Safety System Functional Failures (PWR) | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/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

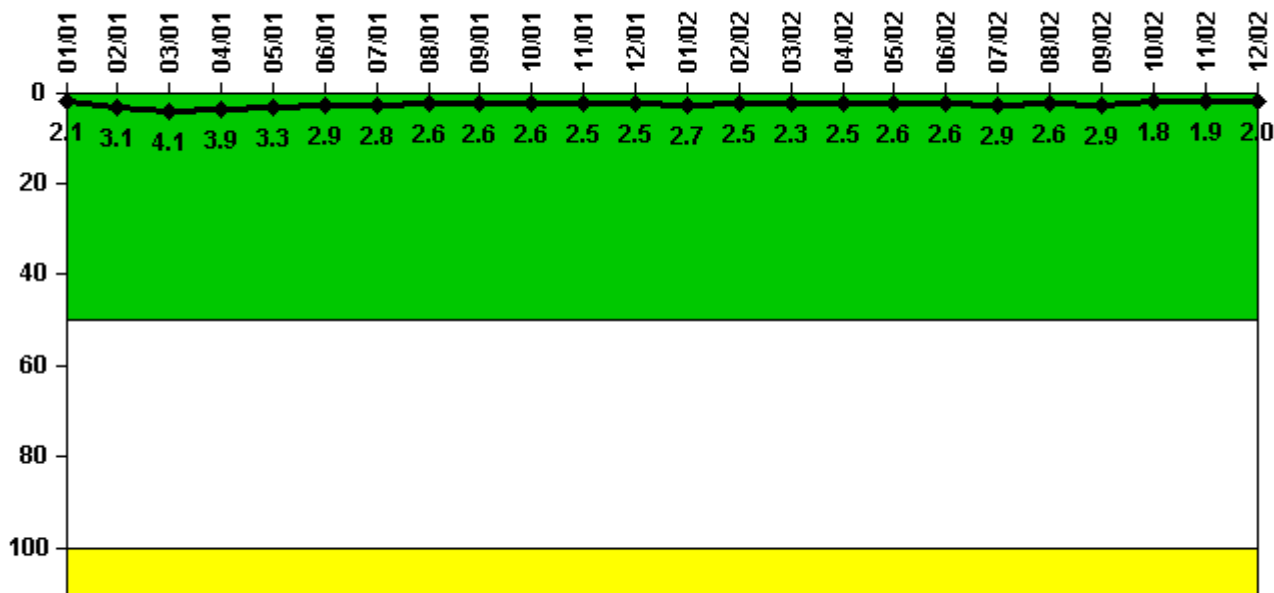
Notes

| Reactor Coolant System Activity | 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 | 0.000366 | 0.000410 | 0.000438 | 0.000450 | 0.000250 | 0.000277 | 0.000313 | 0.000324 | 0.000337 | 0.000351 | 0.000428 | 0.000393 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Reactor Coolant System Activity | 1/02 | 2/02 | 3/02 | 4/02 | 5/02 | 6/02 | 7/02 | 8/02 | 9/02 | 10/02 | 11/02 | 12/02 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0.000412 | 0.000416 | 0.000398 | 0.000841 | 0.001210 | 0.000483 | 0.000451 | 0.000447 | 0.000855 | 0.000242 | 0.000318 | 0.000327 |
| 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 | 0 | 0 | 0 | 0.1 | 0.1 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 |

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

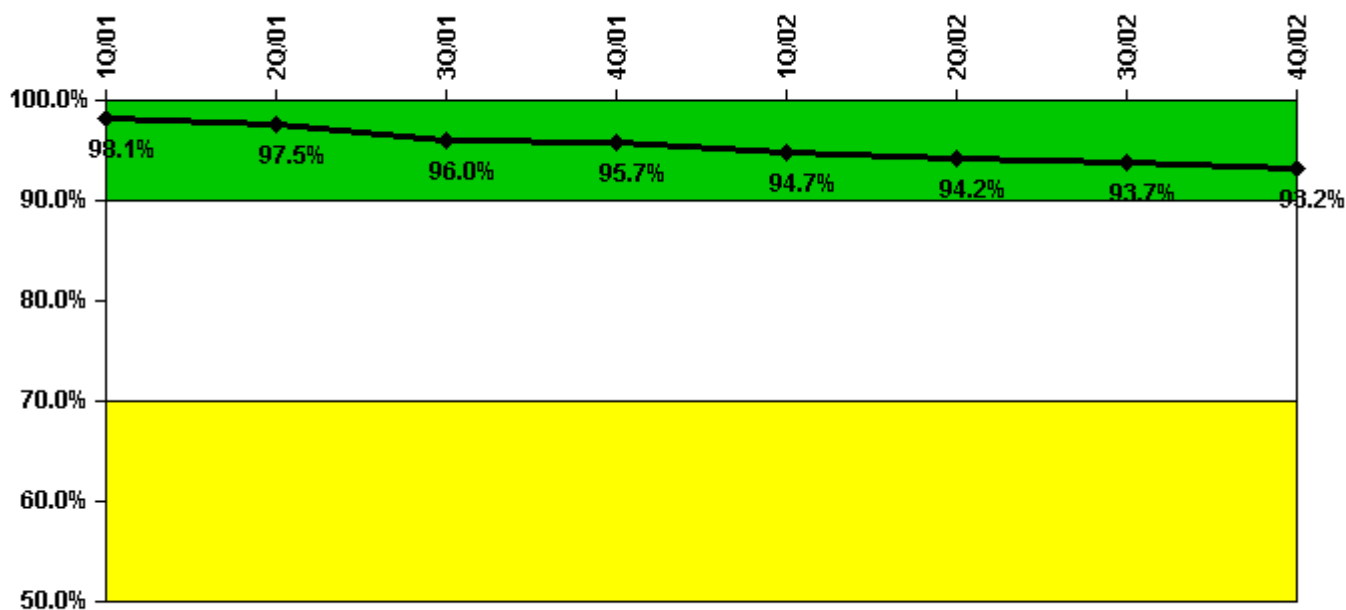
Notes

| Reactor Coolant System Leakage | 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 | 0.209 | 0.314 | 0.406 | 0.395 | 0.329 | 0.289 | 0.284 | 0.263 | 0.256 | 0.259 | 0.250 | 0.252 |
| 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 | 2.1 | 3.1 | 4.1 | 3.9 | 3.3 | 2.9 | 2.8 | 2.6 | 2.6 | 2.6 | 2.5 | 2.5 |

| Reactor Coolant System Leakage | 1/02 | 2/02 | 3/02 | 4/02 | 5/02 | 6/02 | 7/02 | 8/02 | 9/02 | 10/02 | 11/02 | 12/02 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 0.266 | 0.249 | 0.234 | 0.249 | 0.257 | 0.259 | 0.286 | 0.256 | 0.287 | 0.182 | 0.192 | 0.204 |
| 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 | 2.7 | 2.5 | 2.3 | 2.5 | 2.6 | 2.6 | 2.9 | 2.6 | 2.9 | 1.8 | 1.9 | 2.0 |

Licensee Comments: none

Drill/Exercise Performance



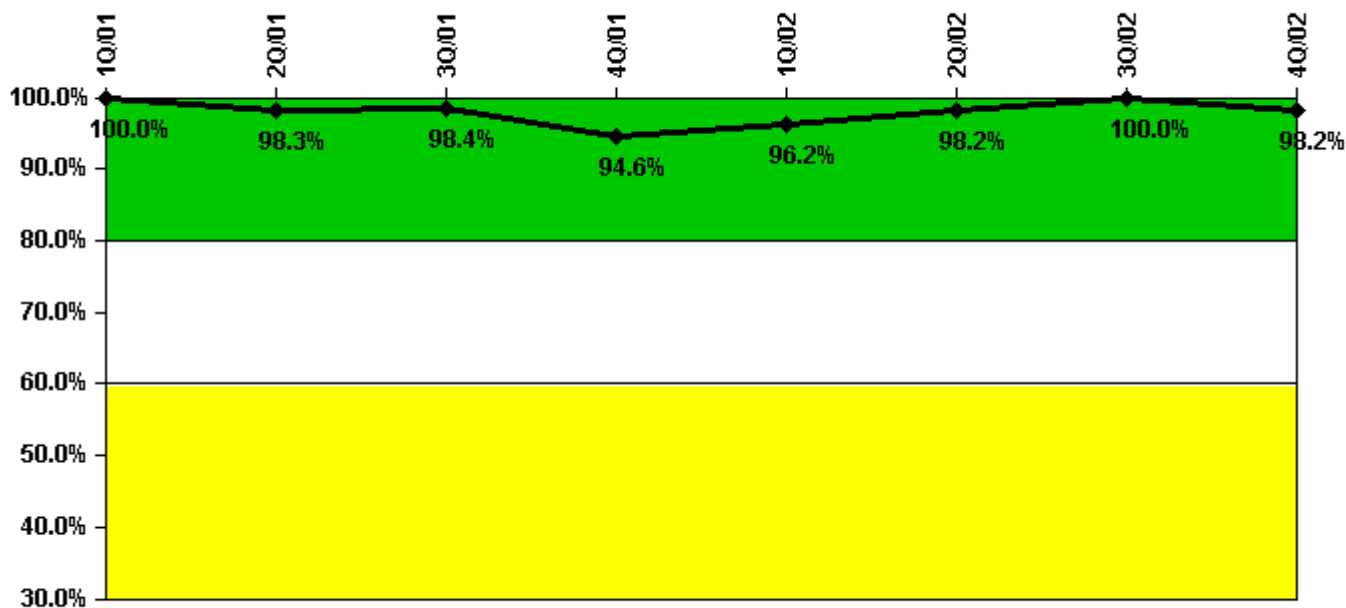
Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 14.0 | 0 | 31.0 | 38.0 | 34.0 | 14.0 | 33.0 | 43.0 |
| Total opportunities | 16.0 | 0 | 35.0 | 40.0 | 36.0 | 14.0 | 34.0 | 47.0 |
| | | | | | | | | |
| Indicator value | 98.1% | 97.5% | 96.0% | 95.7% | 94.7% | 94.2% | 93.7% | 93.2% |

Licensee Comments: none

ERO Drill Participation



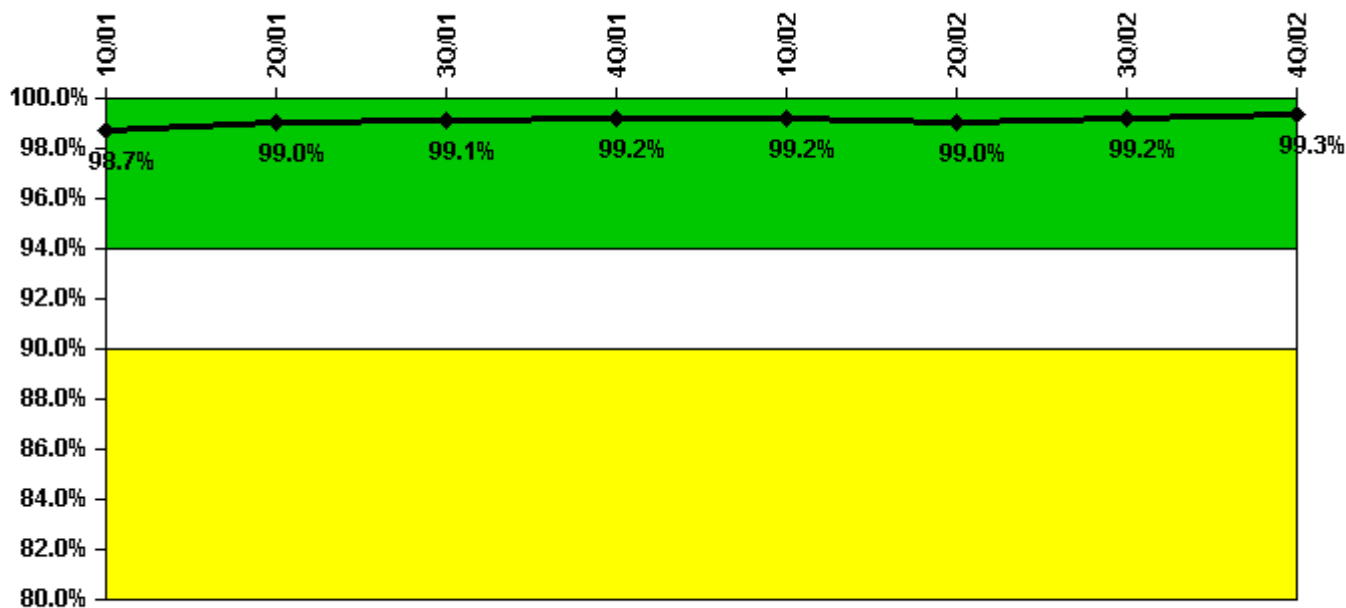
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|-----------------------------|--------|-------|-------|-------|-------|-------|--------|-------|
| Participating Key personnel | 63.0 | 59.0 | 60.0 | 53.0 | 50.0 | 55.0 | 55.0 | 54.0 |
| Total Key personnel | 63.0 | 60.0 | 61.0 | 56.0 | 52.0 | 56.0 | 55.0 | 55.0 |
| | | | | | | | | |
| Indicator value | 100.0% | 98.3% | 98.4% | 94.6% | 96.2% | 98.2% | 100.0% | 98.2% |

Licensee Comments: none

Alert & Notification System



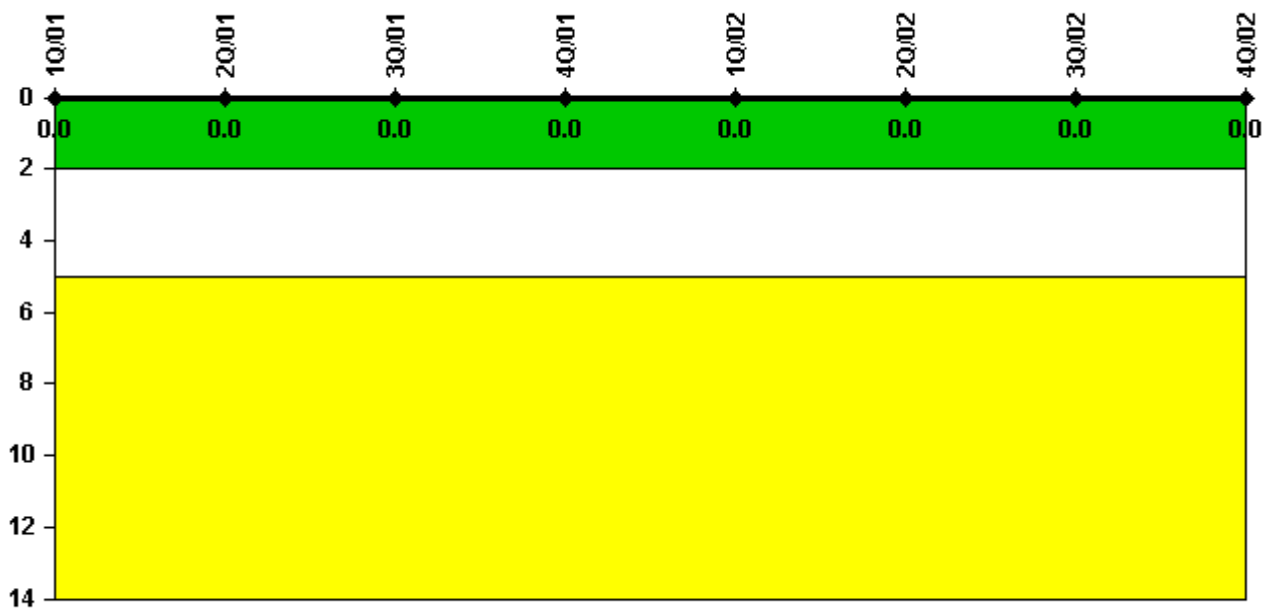
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests | 6245 | 6258 | 6141 | 5965 | 5872 | 5945 | 5994 | 5991 |
| Total sirens-tests | 6298 | 6298 | 6204 | 6016 | 5922 | 6016 | 6016 | 6016 |
| | | | | | | | | |
| Indicator value | 98.7% | 99.0% | 99.1% | 99.2% | 99.2% | 99.0% | 99.2% | 99.3% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



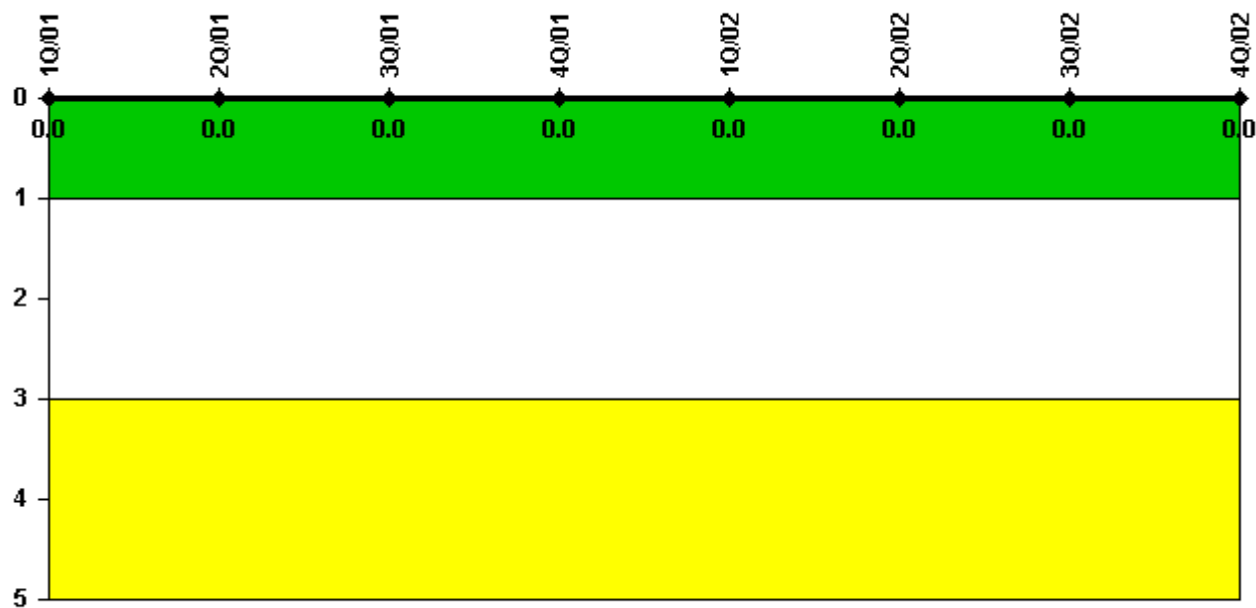
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



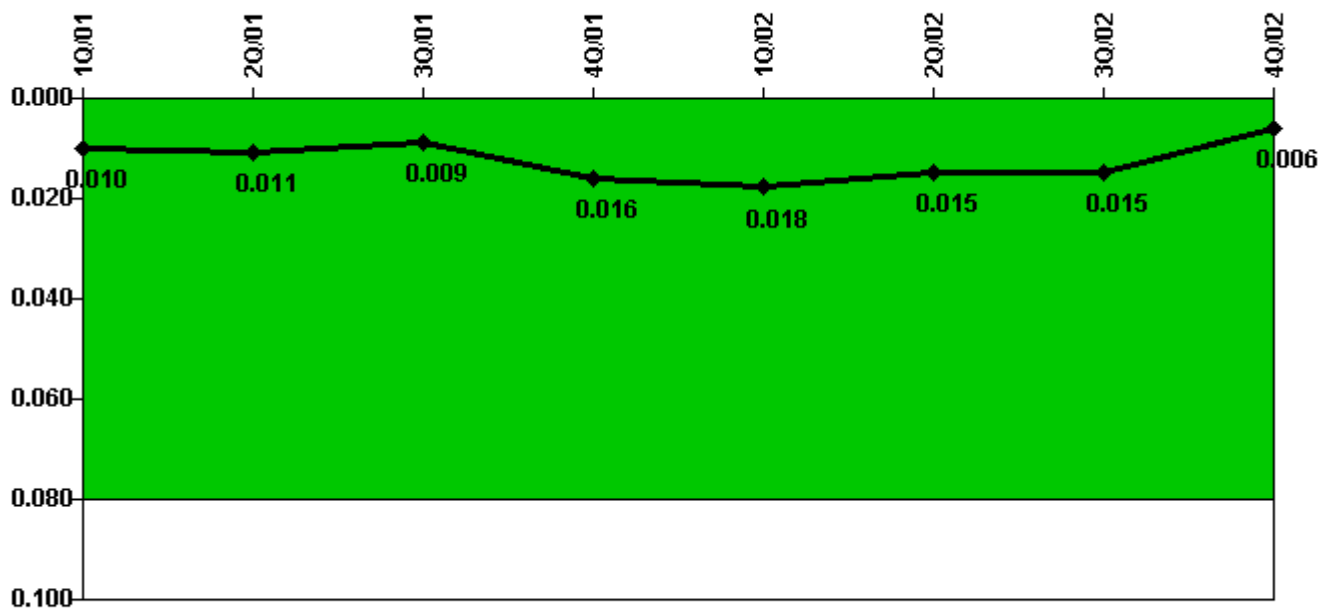
Thresholds: White > 1.0 Yellow > 3.0

Notes

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



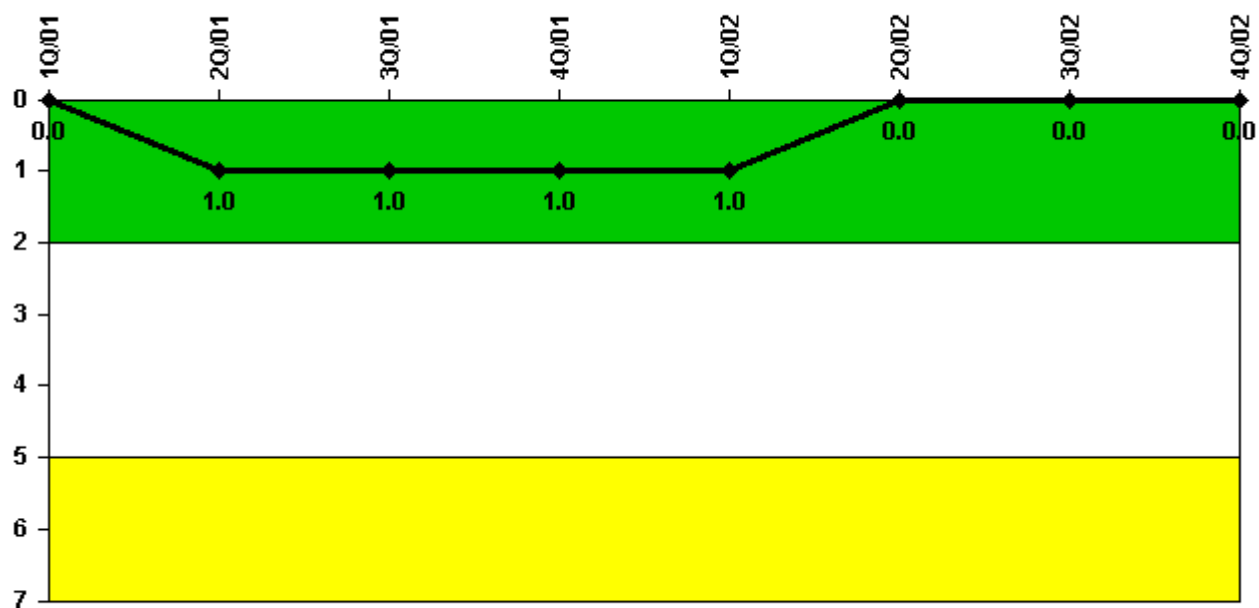
Thresholds: White > 0.080

Notes

| Protected Area Security Performance Index | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| IDS compensatory hours | 21.85 | 92.99 | 29.12 | 247.72 | 62.00 | 14.60 | 12.80 | 34.10 |
| CCTV compensatory hours | 2.6 | 0 | 0 | 0 | 0 | 13.5 | 4.3 | 5.8 |
| IDS normalization factor | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 |
| CCTV normalization factor | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| | | | | | | | | |
| Index Value | 0.010 | 0.011 | 0.009 | 0.016 | 0.018 | 0.015 | 0.015 | 0.006 |

Licensee Comments: none

Personnel Screening Program



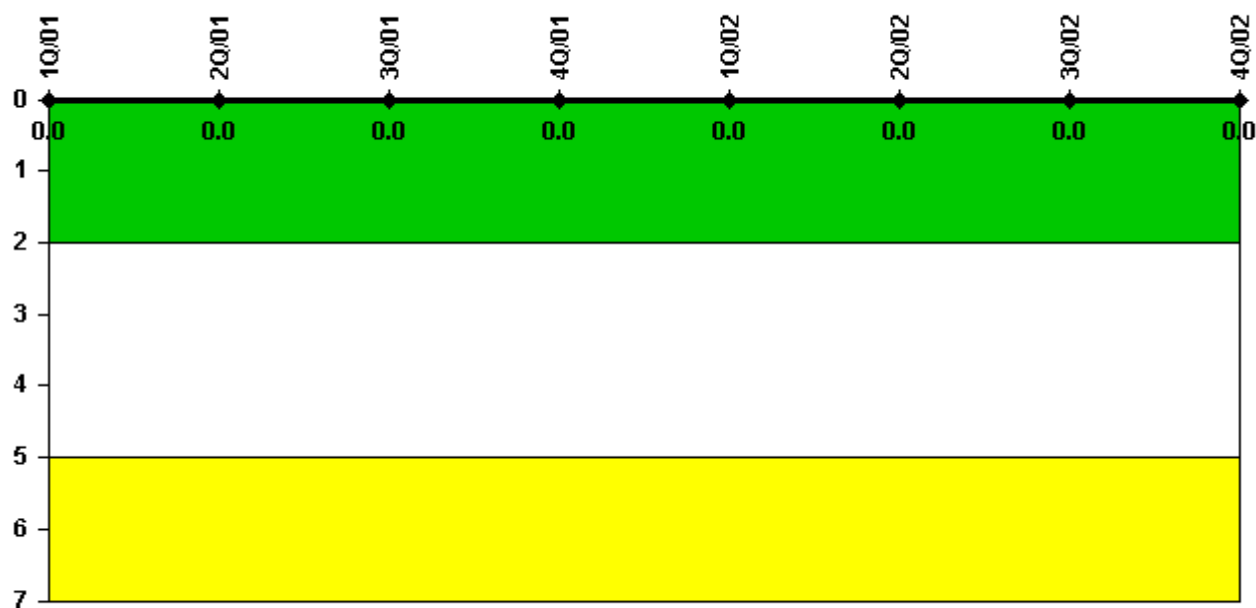
Thresholds: White > 2.0 Yellow > 5.0

Notes

| Personnel Screening Program | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Program failures | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| Indicator value | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

| FFD/Personnel Reliability | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/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: January 30, 2003