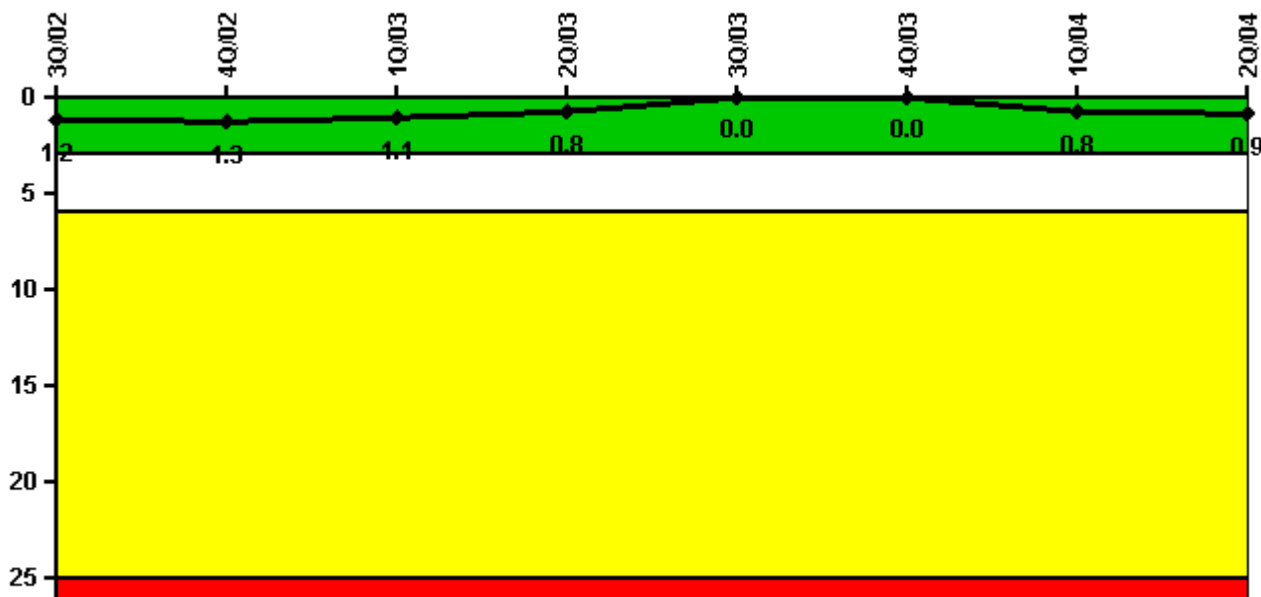


Calvert Cliffs 1

2Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



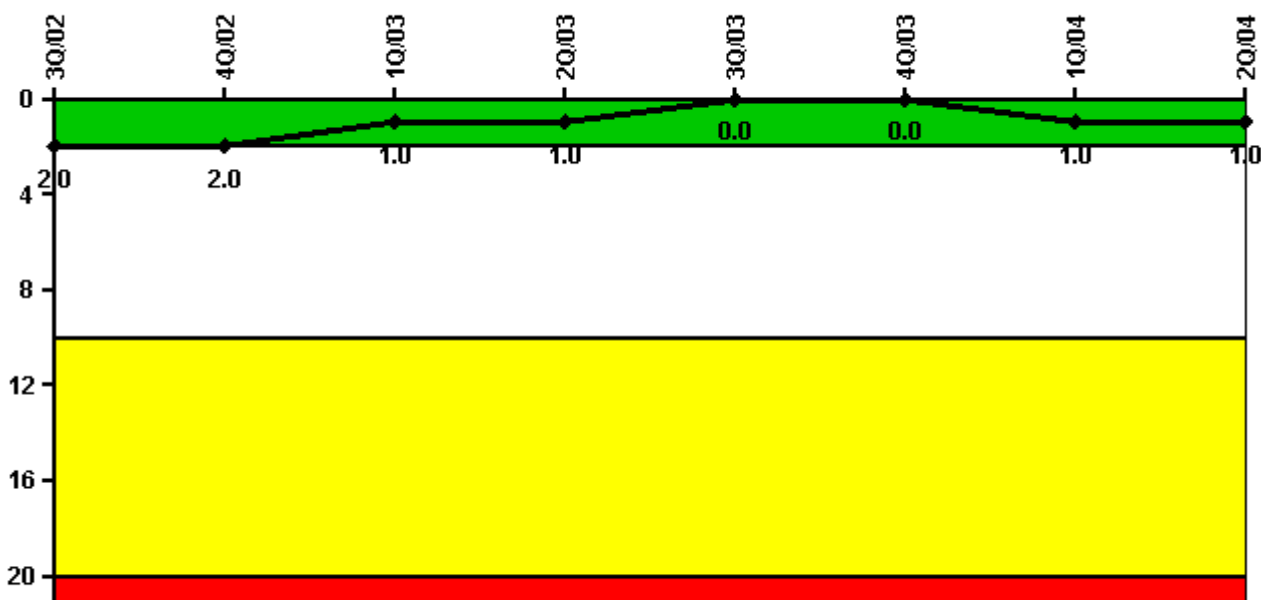
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams | 1.0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 2107.9 | 2035.6 | 2160.0 | 2183.0 | 2208.0 | 2209.0 | 2157.0 | 1501.0 |
| Indicator value | 1.2 | 1.3 | 1.1 | 0.8 | 0 | 0 | 0.8 | 0.9 |

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



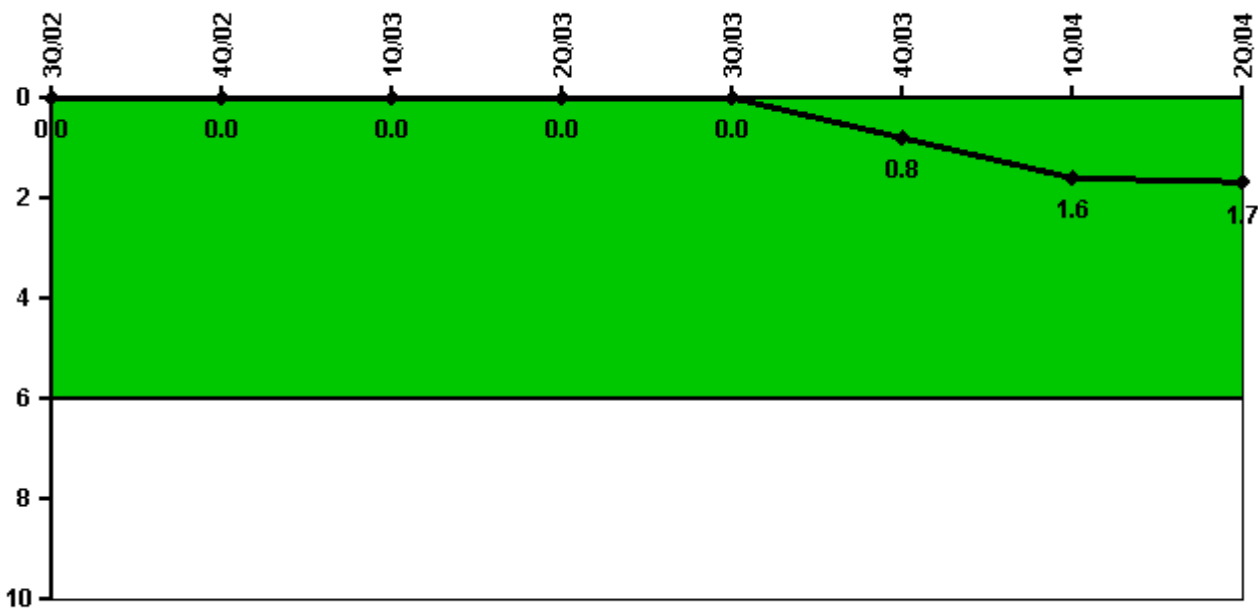
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

| Scrams with Loss of Normal Heat Removal | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Indicator value | 2.0 | 2.0 | 1.0 | 1.0 | 0 | 0 | 1.0 | 1.0 |

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



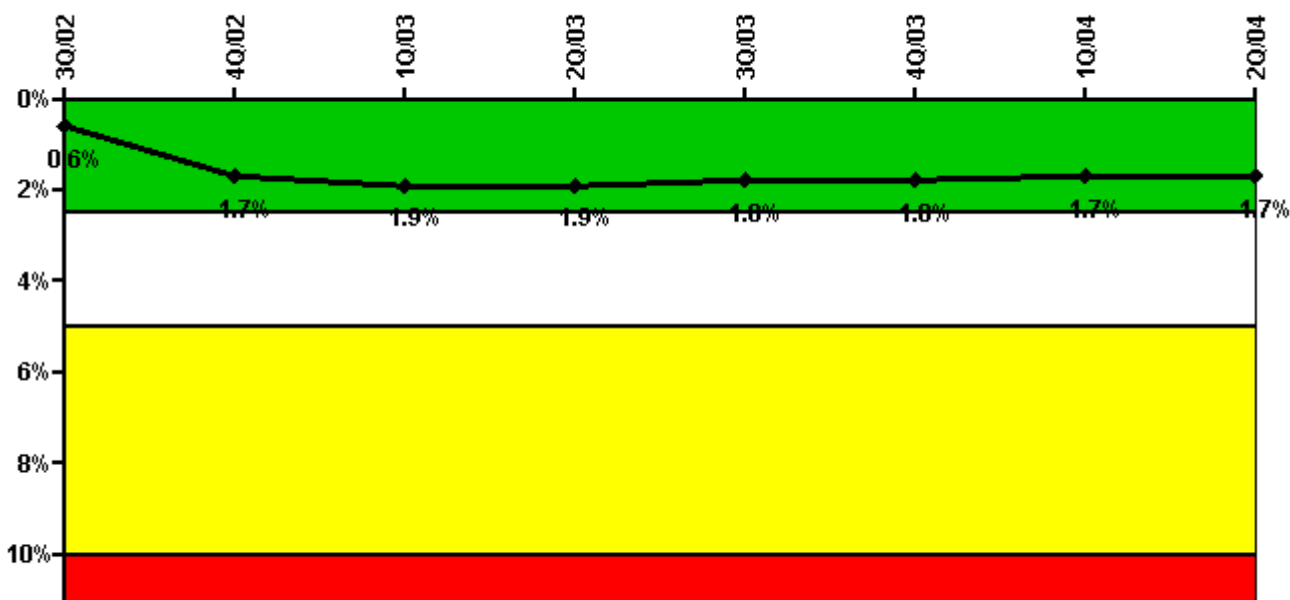
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 1.0 | 1.0 | 0 |
| Critical hours | 2107.9 | 2035.6 | 2160.0 | 2183.0 | 2208.0 | 2209.0 | 2157.0 | 1501.0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0.8 | 1.6 | 1.7 |

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



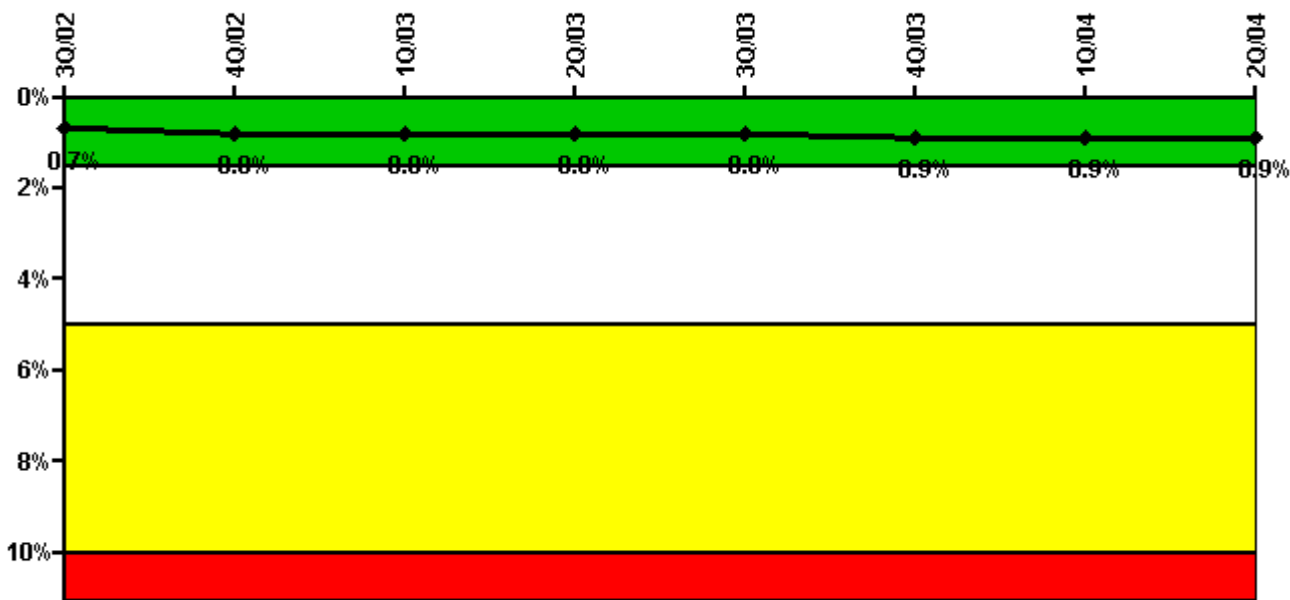
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Emergency AC Power | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0 | 4.80 | 23.08 | 31.15 | 0 | 4.25 | 0 | 0.67 |
| Unplanned unavailable hours | 0 | 0 | 0 | 12.83 | 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 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 7.48 | 24.65 | 0 | 0 | 0 | 40.05 | 31.90 | 0 |
| Unplanned unavailable hours | 2.00 | 0 | 15.63 | 5.32 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 539.60 | 117.95 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 |
| Indicator value | 0.6% | 1.7% | 1.9% | 1.9% | 1.8% | 1.8% | 1.7% | 1.7% |

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



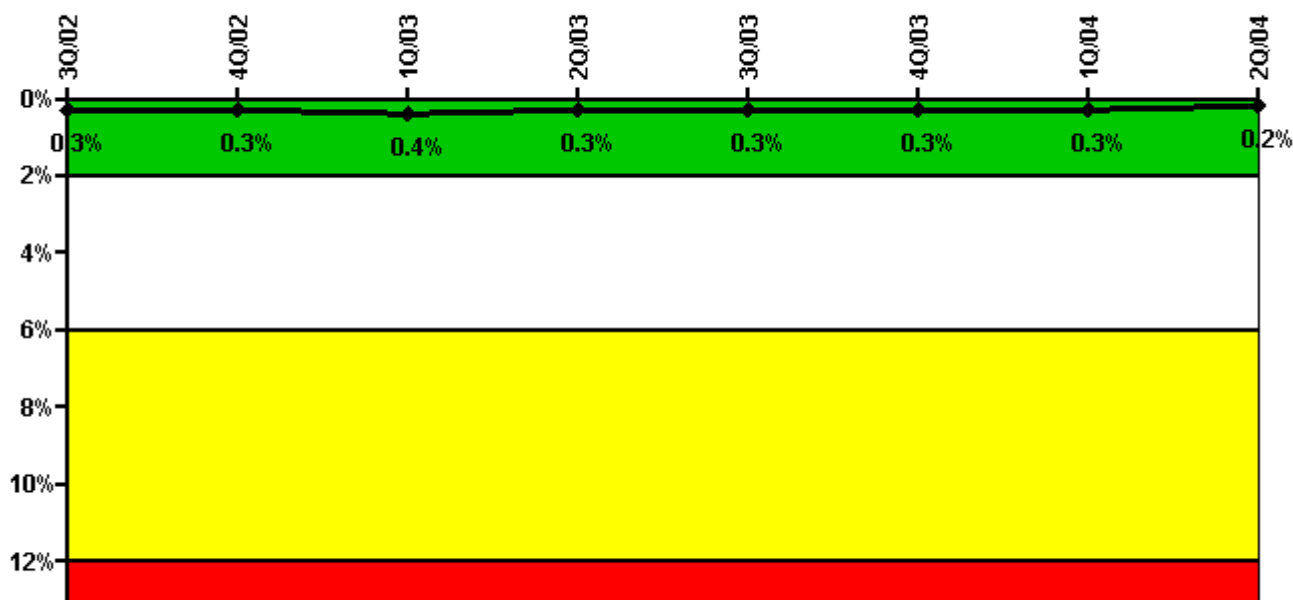
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, High Pressure Injection System (HPSI) | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 22.15 | 45.07 | 17.59 | 1.64 | 2.25 | 26.06 | 20.43 | 1.35 |
| Unplanned unavailable hours | 0 | 10.38 | 5.75 | 11.73 | 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 | 2107.90 | 2035.60 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2157.00 | 1500.90 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 13.90 | 41.97 | 37.49 | 1.64 | 2.25 | 28.86 | 21.34 | 1.35 |
| Unplanned unavailable hours | 0 | 0 | 0 | 4.42 | 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 | 2107.90 | 2035.60 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2157.00 | 1500.90 |
| Indicator value | 0.7% | 0.8% | 0.8% | 0.8% | 0.8% | 0.9% | 0.9% | 0.9% |

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



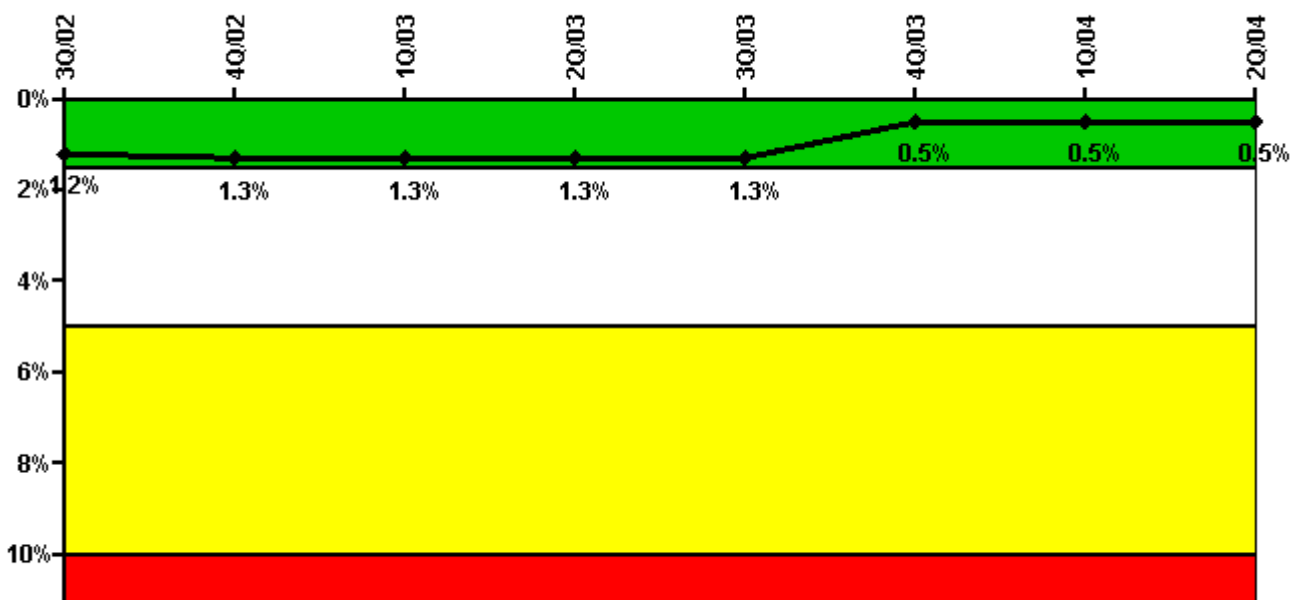
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

| Safety System Unavailability, Heat Removal System (AFW) | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 0.50 | 2.10 | 20.50 | 0.67 | 0.73 | 0.32 | 0.57 | 1.63 |
| Unplanned unavailable hours | 4.92 | 0 | 0 | 0 | 0 | 6.00 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 1173.78 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2107.90 | 2035.60 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2157.00 | 1500.90 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 20.00 | 0 | 0.35 | 0.40 | 0.52 | 0.38 |
| Unplanned unavailable hours | 4.92 | 0 | 38.65 | 0 | 0 | 6.00 | 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 | 2107.90 | 2035.60 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2157.00 | 1500.90 |
| Train 3 | | | | | | | | |
| Planned unavailable hours | 0 | 1.83 | 0 | 0 | 0 | 0 | 0 | 6.65 |
| 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 | 2107.90 | 2035.60 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2157.00 | 1500.90 |
| Indicator value | 0.3% | 0.3% | 0.4% | 0.3% | 0.3% | 0.3% | 0.3% | 0.2% |

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

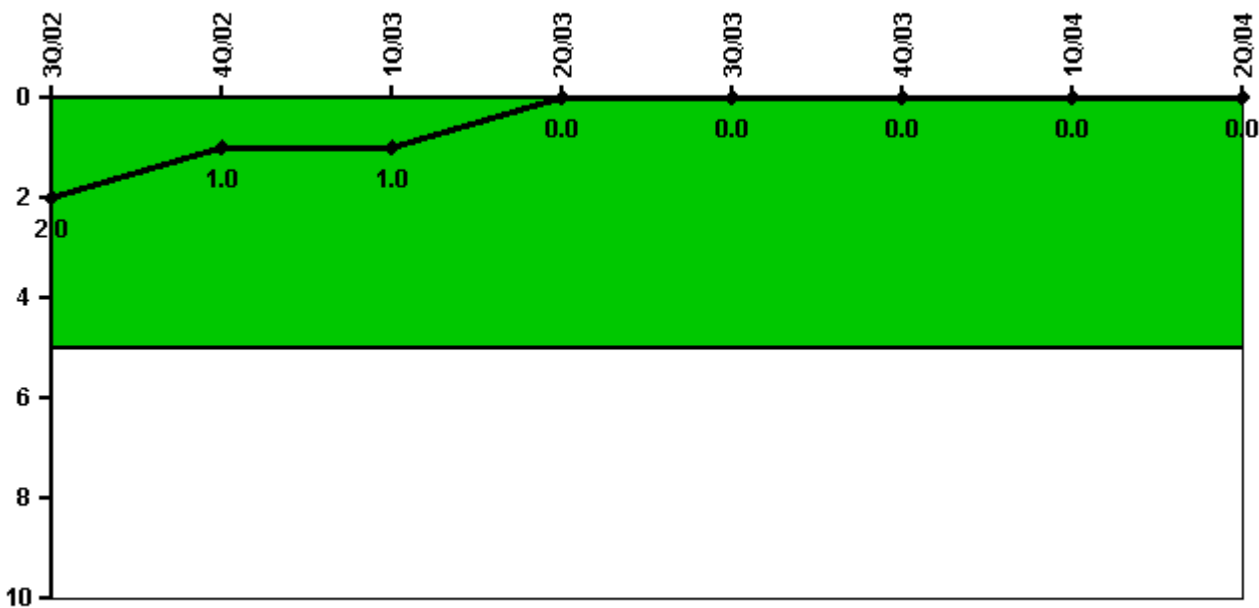


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Residual Heat Removal System | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 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 | 0 | 145.00 | 0 | 0 | 0 | 0 | 0 | 617.30 |
| Train 2 | | | | | | | | |
| 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 | 0 | 145.00 | 0 | 0 | 0 | 0 | 0 | 617.30 |
| Train 3 | | | | | | | | |
| Planned unavailable hours | 31.38 | 49.87 | 36.39 | 2.28 | 7.51 | 29.04 | 20.90 | 4.08 |
| Unplanned unavailable hours | 0 | 10.38 | 20.05 | 11.73 | 4.00 | 0 | 6.91 | 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 | 2208.00 | 2064.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 1565.70 |
| Train 4 | | | | | | | | |
| Planned unavailable hours | 13.37 | 46.50 | 28.71 | 2.15 | 1.00 | 27.63 | 22.53 | 1.40 |
| Unplanned unavailable hours | 2.68 | 0 | 0 | 4.42 | 2.67 | 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 | 2208.00 | 2064.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 1565.70 |
| Indicator value | 1.2% | 1.3% | 1.3% | 1.3% | 1.3% | 0.5% | 0.5% | 0.5% |

Safety System Functional Failures (PWR)



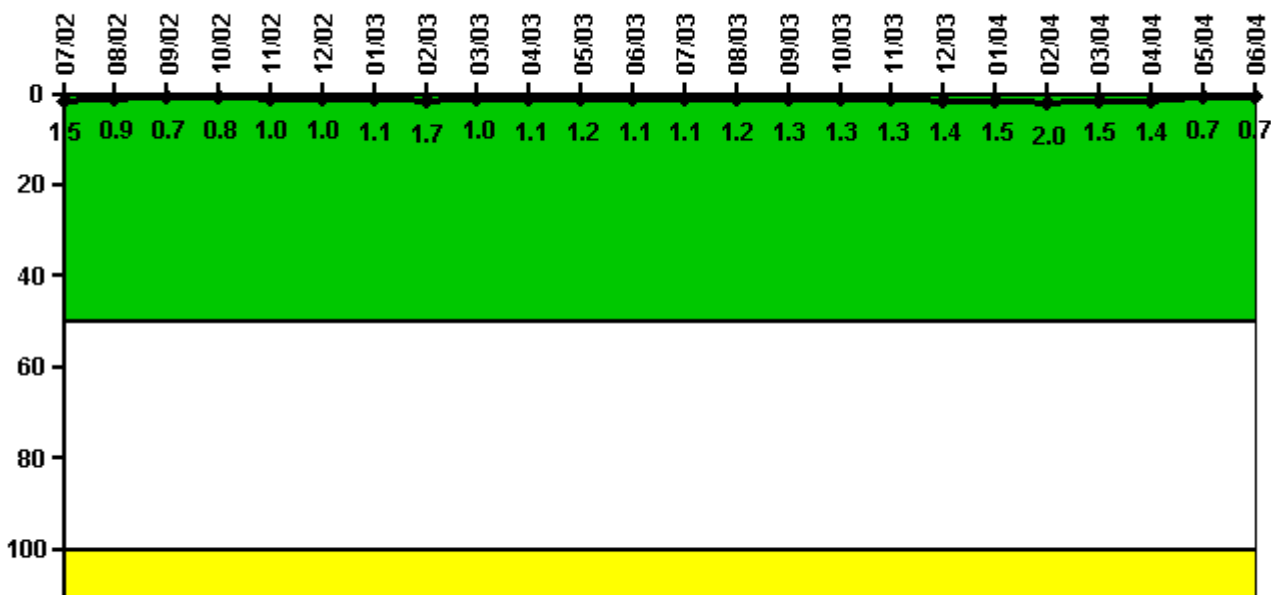
Thresholds: White > 5.0

Notes

| Safety System Functional Failures (PWR) | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indicator value | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Reactor Coolant System Activity



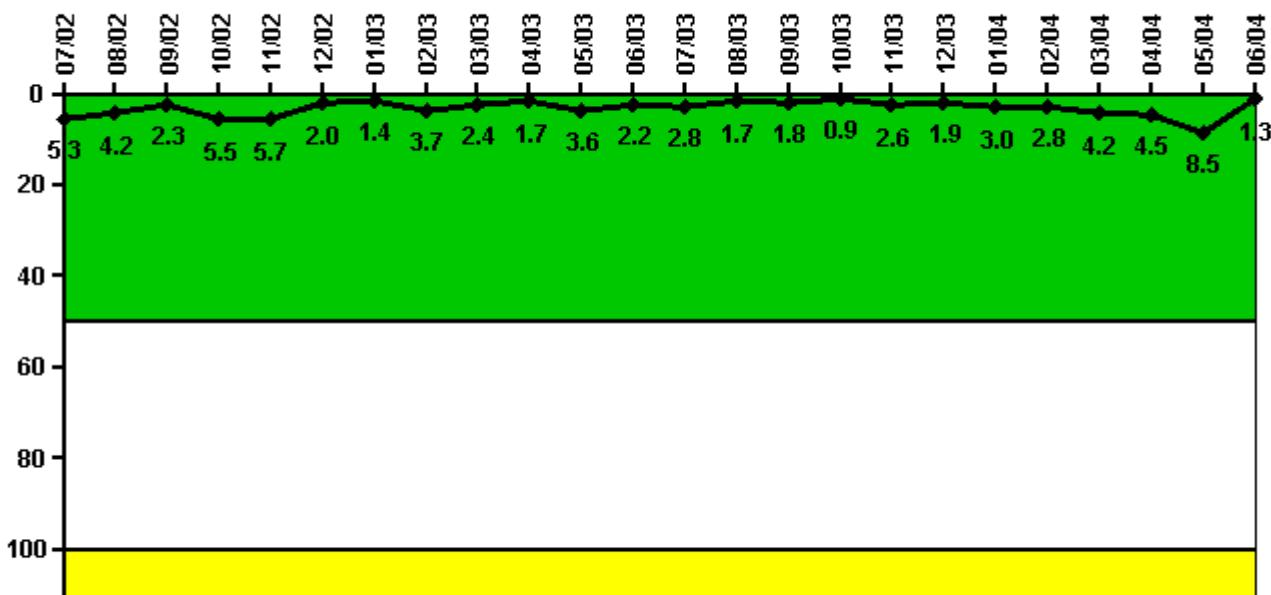
Thresholds: White > 50.0 Yellow > 100.0

Notes

| Reactor Coolant System Activity | 7/02 | 8/02 | 9/02 | 10/02 | 11/02 | 12/02 | 1/03 | 2/03 | 3/03 | 4/03 | 5/03 | 6/03 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0.015000 | 0.009490 | 0.007400 | 0.007870 | 0.010400 | 0.010100 | 0.010800 | 0.016800 | 0.010300 | 0.010700 | 0.011700 | 0.010800 |
| 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 | 1.5 | 0.9 | 0.7 | 0.8 | 1.0 | 1.0 | 1.1 | 1.7 | 1.0 | 1.1 | 1.2 | 1.1 |
| Reactor Coolant System Activity | 7/03 | 8/03 | 9/03 | 10/03 | 11/03 | 12/03 | 1/04 | 2/04 | 3/04 | 4/04 | 5/04 | 6/04 |
| Maximum activity | 0.011200 | 0.012200 | 0.012800 | 0.012800 | 0.013300 | 0.013500 | 0.014500 | 0.019800 | 0.014500 | 0.014100 | 0.006520 | 0.006820 |
| 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 | 1.1 | 1.2 | 1.3 | 1.3 | 1.3 | 1.4 | 1.5 | 2.0 | 1.5 | 1.4 | 0.7 | 0.7 |

Licensee Comments: none

Reactor Coolant System Leakage



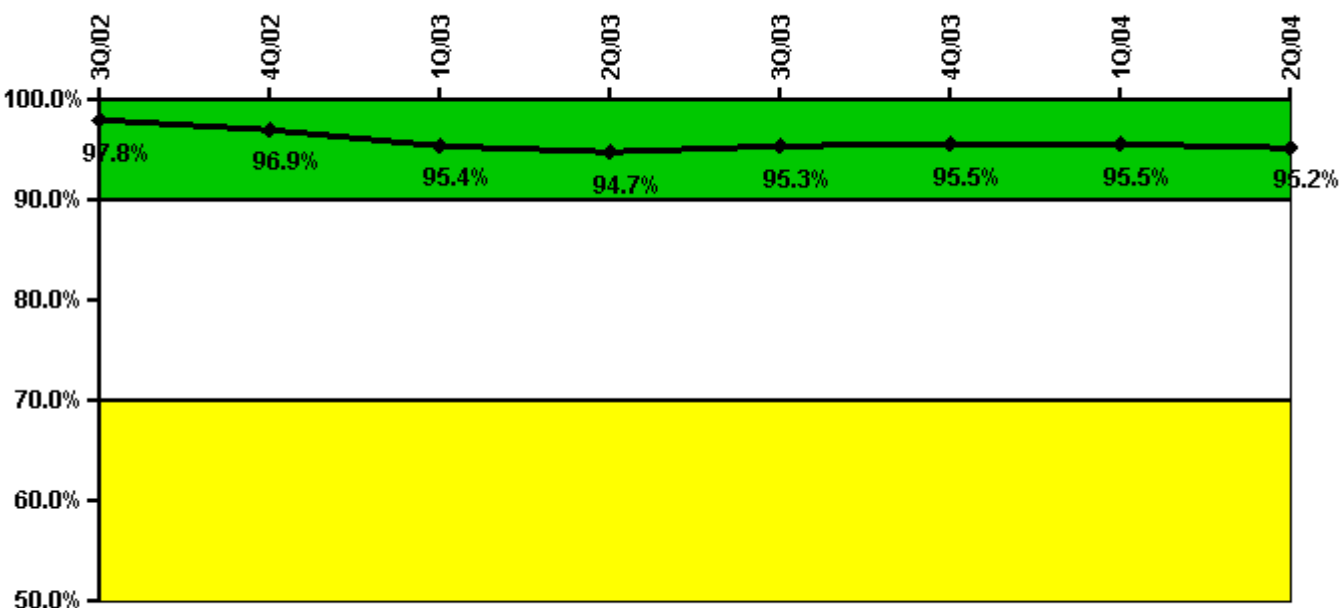
Thresholds: White > 50.0 Yellow > 100.0

Notes

| Reactor Coolant System Leakage | 7/02 | 8/02 | 9/02 | 10/02 | 11/02 | 12/02 | 1/03 | 2/03 | 3/03 | 4/03 | 5/03 | 6/03 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 0.525 | 0.417 | 0.234 | 0.548 | 0.567 | 0.197 | 0.140 | 0.370 | 0.240 | 0.170 | 0.360 | 0.220 |
| 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 | 5.3 | 4.2 | 2.3 | 5.5 | 5.7 | 2.0 | 1.4 | 3.7 | 2.4 | 1.7 | 3.6 | 2.2 |
| Reactor Coolant System Leakage | 7/03 | 8/03 | 9/03 | 10/03 | 11/03 | 12/03 | 1/04 | 2/04 | 3/04 | 4/04 | 5/04 | 6/04 |
| Maximum leakage | 0.276 | 0.173 | 0.175 | 0.086 | 0.261 | 0.187 | 0.300 | 0.280 | 0.420 | 0.450 | 0.850 | 0.130 |
| 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 | 1.7 | 1.8 | 0.9 | 2.6 | 1.9 | 3.0 | 2.8 | 4.2 | 4.5 | 8.5 | 1.3 |

Licensee Comments: none

Drill/Exercise Performance



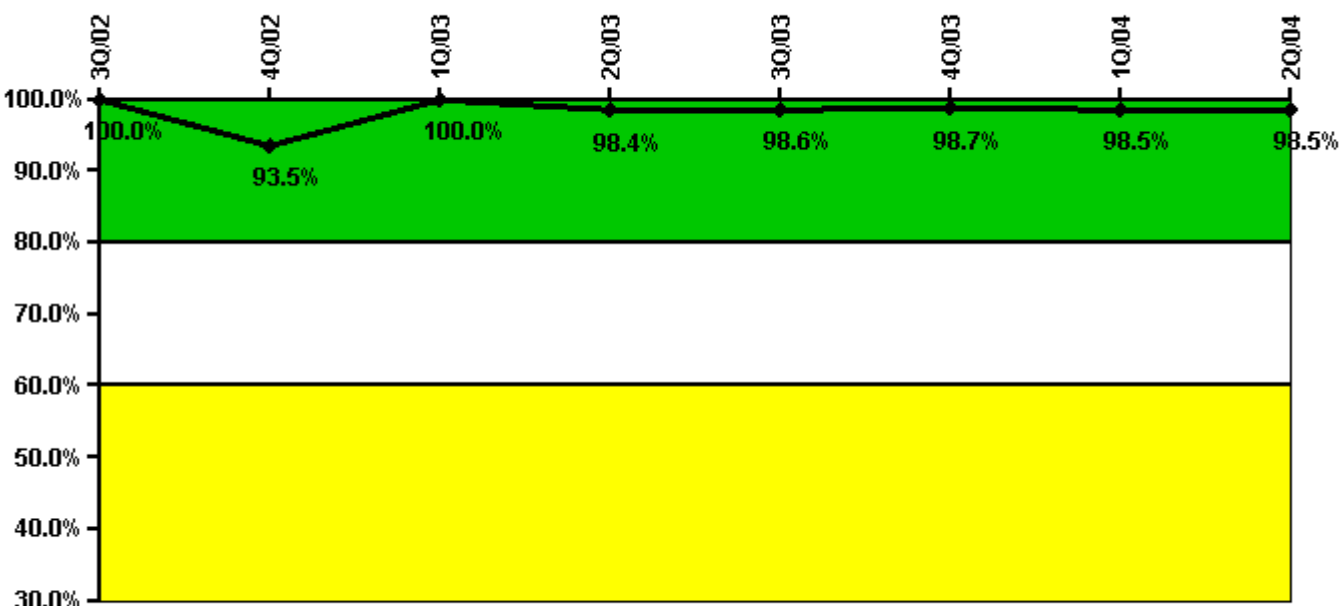
Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 35.0 | 45.0 | 9.0 | 14.0 | 29.0 | 56.0 | 18.0 | 14.0 |
| Total opportunities | 38.0 | 47.0 | 12.0 | 15.0 | 29.0 | 57.0 | 18.0 | 15.0 |
| Indicator value | 97.8% | 96.9% | 95.4% | 94.7% | 95.3% | 95.5% | 95.5% | 95.2% |

Licensee Comments: none

ERO Drill Participation



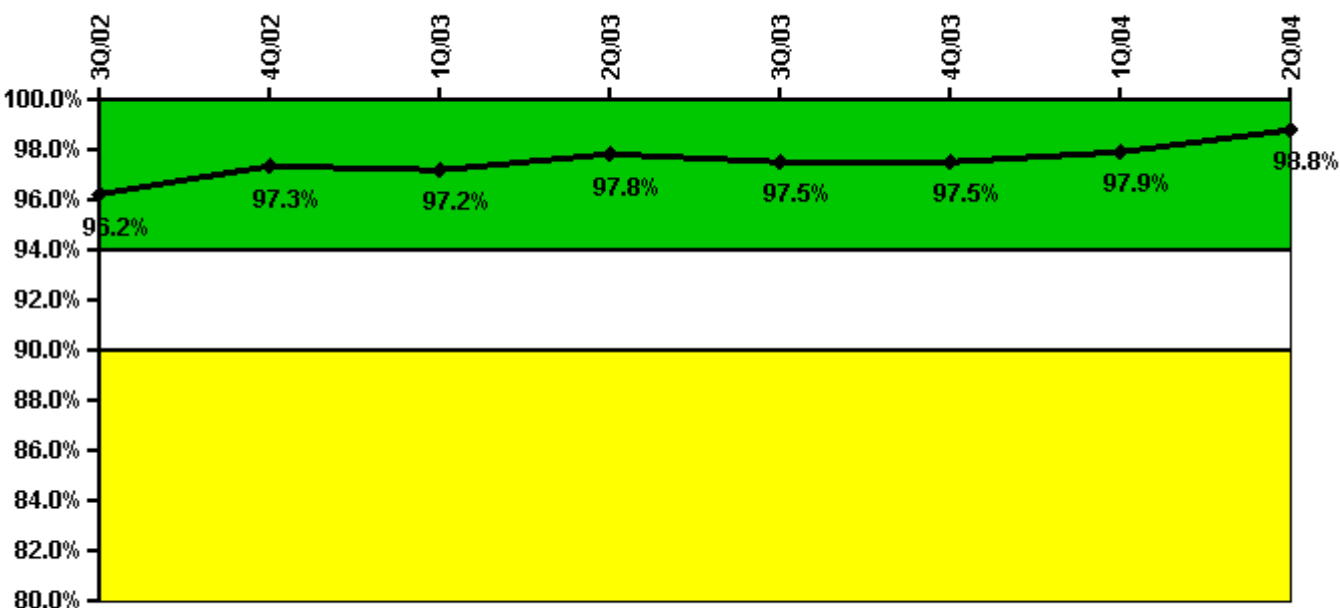
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|-----------------------------|--------|-------|--------|-------|-------|-------|-------|-------|
| Participating Key personnel | 58.0 | 58.0 | 57.0 | 63.0 | 68.0 | 77.0 | 65.0 | 65.0 |
| Total Key personnel | 58.0 | 62.0 | 57.0 | 64.0 | 69.0 | 78.0 | 66.0 | 66.0 |
| Indicator value | 100.0% | 93.5% | 100.0% | 98.4% | 98.6% | 98.7% | 98.5% | 98.5% |

Licensee Comments: none

Alert & Notification System



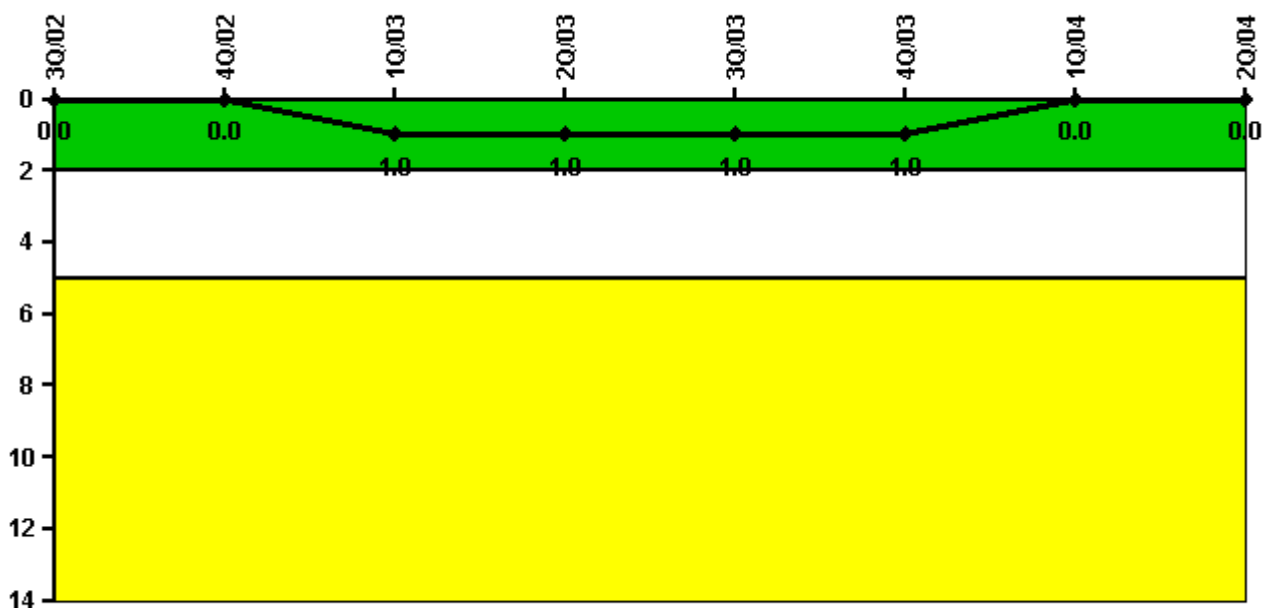
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests | 1035 | 1007 | 914 | 1036 | 963 | 1007 | 935 | 934 |
| Total sirens-tests | 1057 | 1019 | 930 | 1074 | 996 | 1019 | 936 | 936 |
| Indicator value | 96.2% | 97.3% | 97.2% | 97.8% | 97.5% | 97.5% | 97.9% | 98.8% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



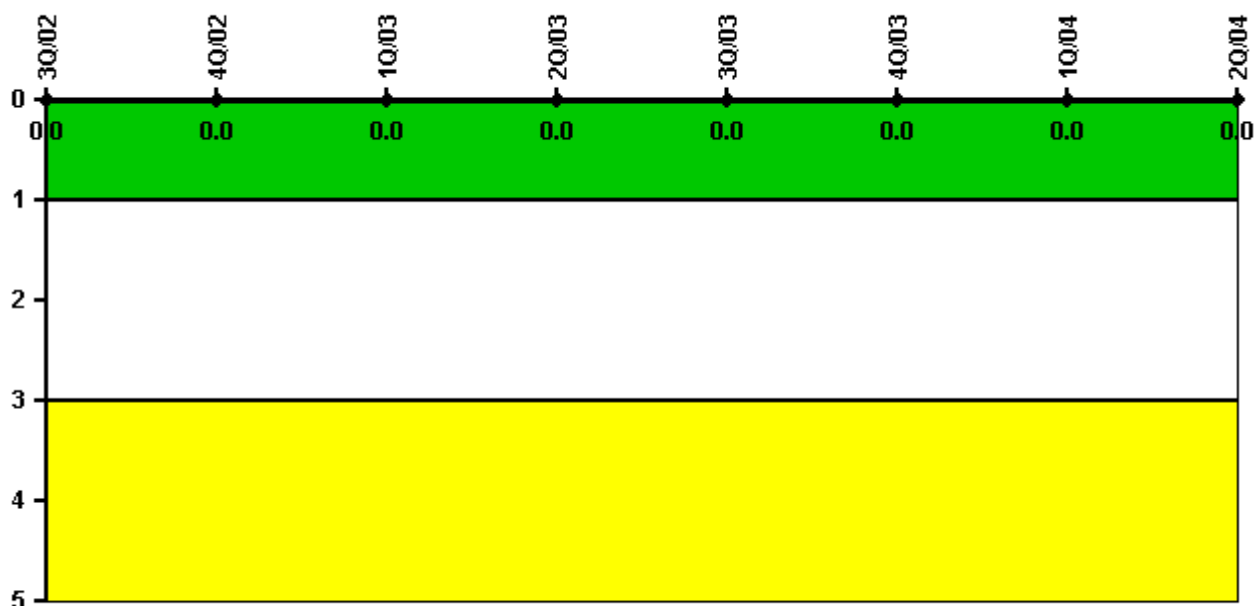
Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| High radiation area occurrences | 0 | 0 | 1 | 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 | 1 | 1 | 1 | 1 | 0 | 0 |

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

| RETS/ODCM Radiological Effluent | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

[Physical Protection](#) information not publicly available.

▲ [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: September 8, 2004