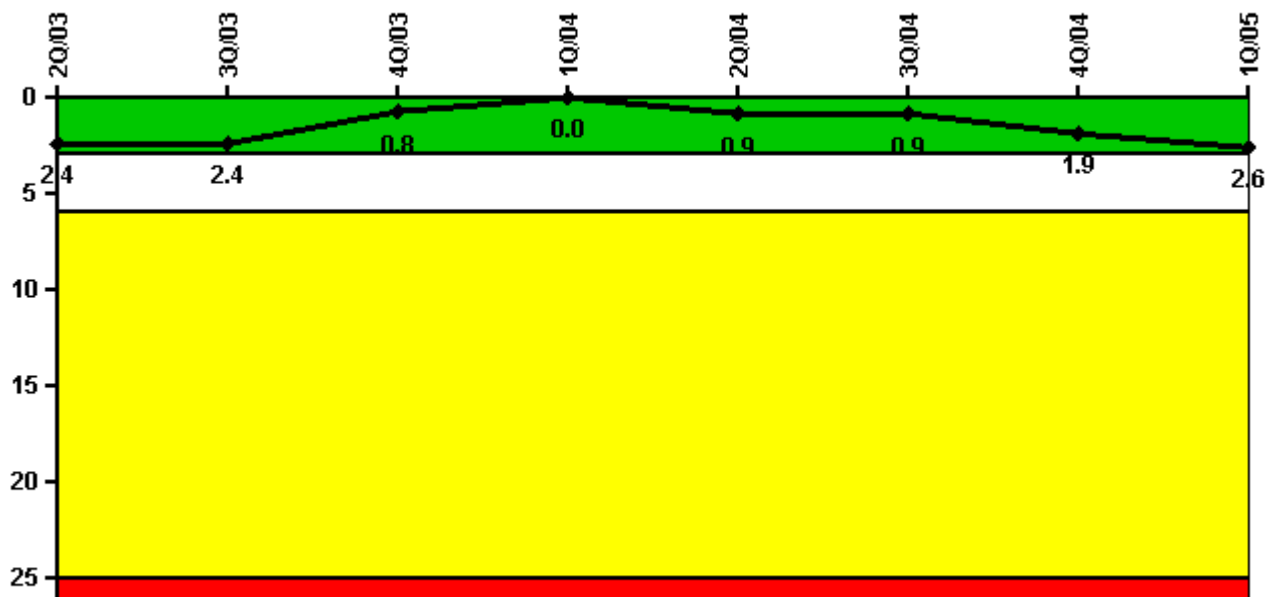


San Onofre 2

1Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



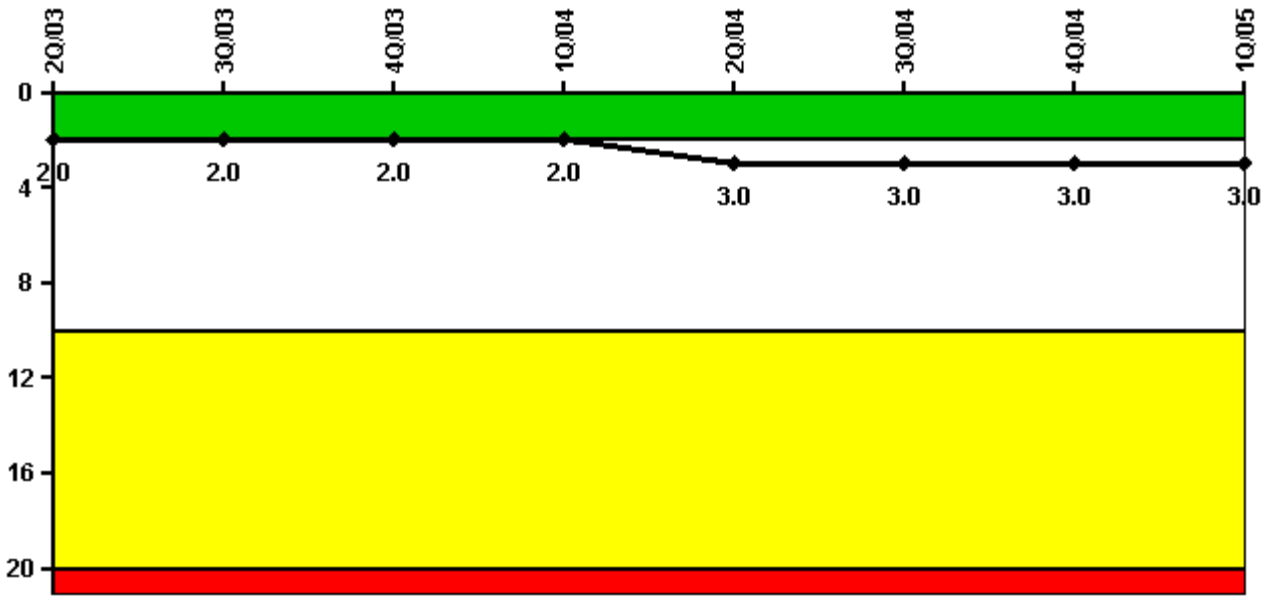
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|--|--------|--------|--------|-------|--------|--------|--------|--------|
| Unplanned scrams | 0 | 0 | 0 | 0 | 1.0 | 0 | 1.0 | 1.0 |
| Critical hours | 2139.7 | 2208.0 | 2209.0 | 977.7 | 2091.9 | 2208.0 | 2180.4 | 1592.5 |
| Indicator value | 2.4 | 2.4 | 0.8 | 0 | 0.9 | 0.9 | 1.9 | 2.6 |

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



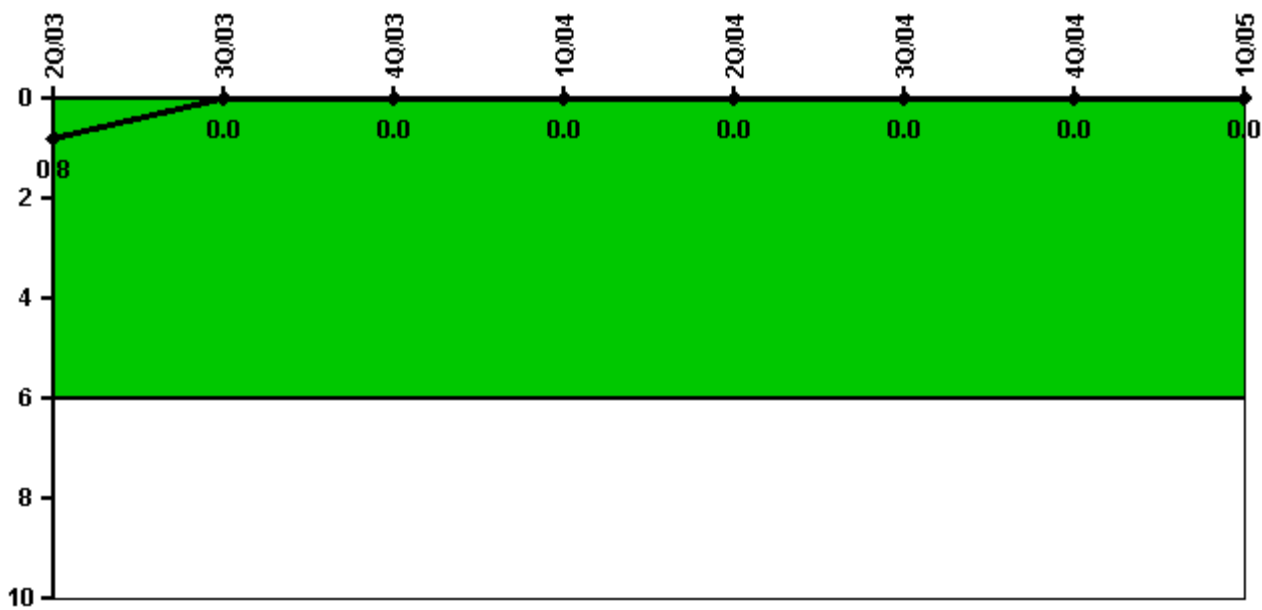
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

| Scrams with Loss of Normal Heat Removal | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Scrams | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 |
| Indicator value | 2.0 | 2.0 | 2.0 | 2.0 | 3.0 | 3.0 | 3.0 | 3.0 |

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



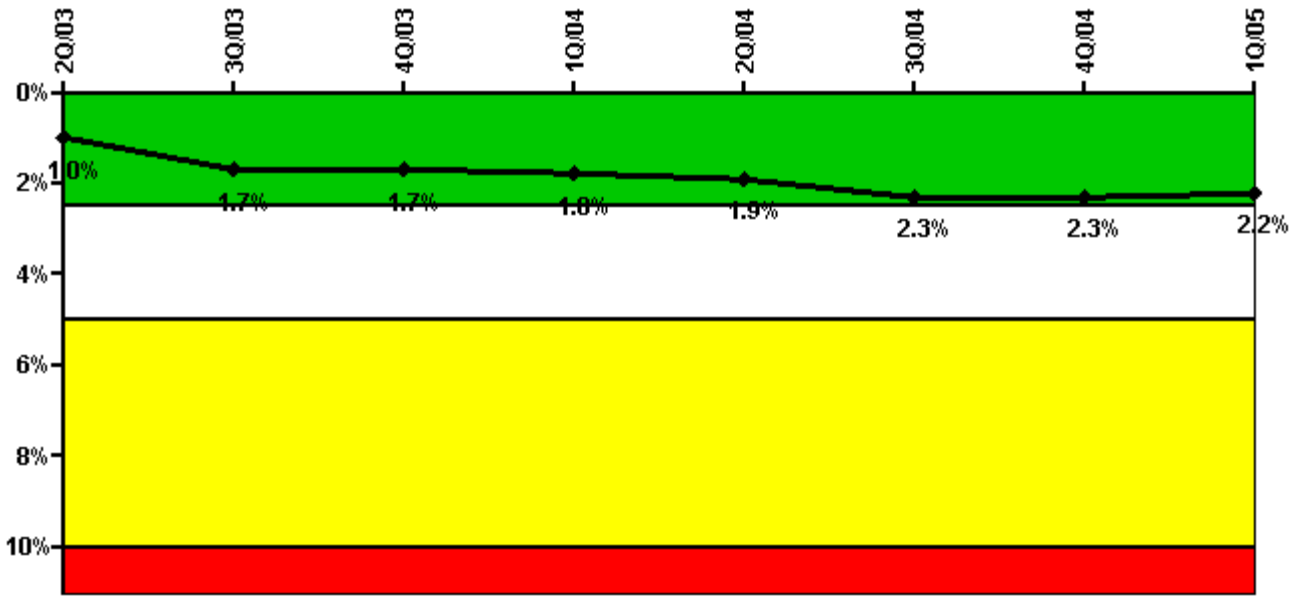
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|--------|--------|--------|-------|--------|--------|--------|--------|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2139.7 | 2208.0 | 2209.0 | 977.7 | 2091.9 | 2208.0 | 2180.4 | 1592.5 |
| Indicator value | 0.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



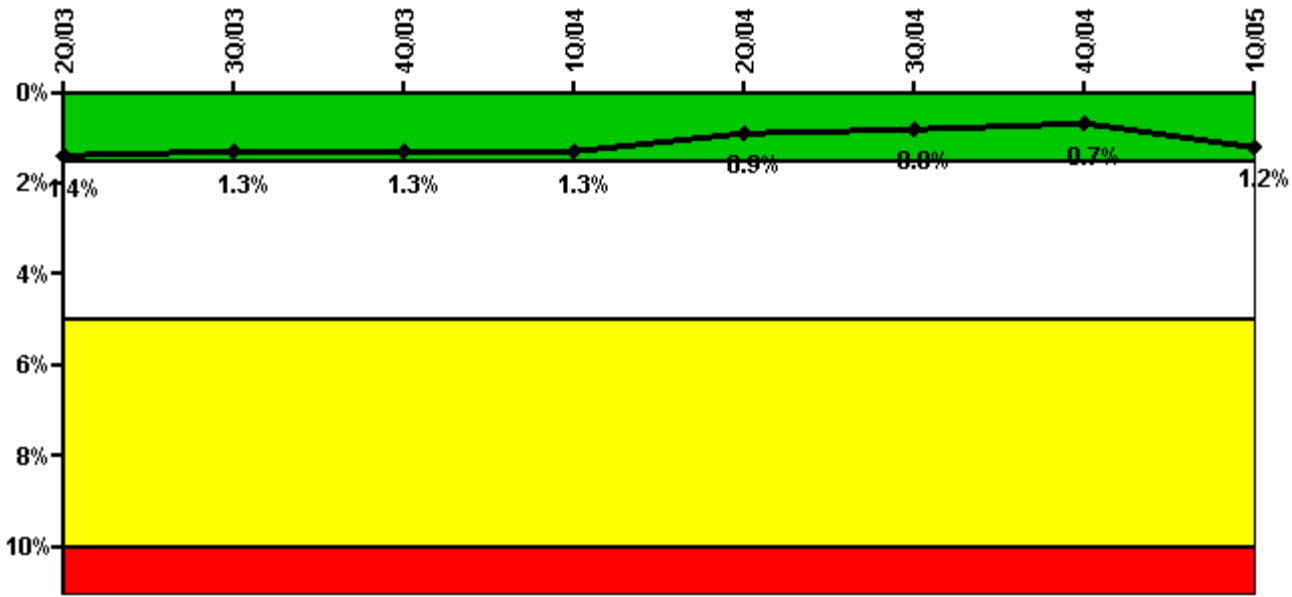
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Emergency AC Power | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 2.22 | 177.12 | 25.38 | 48.96 | 1.85 | 74.40 | 1.56 | 1.25 |
| Unplanned unavailable hours | 0 | 83.65 | 0 | 16.35 | 39.33 | 2.20 | 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 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 1.02 | 162.57 | 64.04 | 3.82 | 3.13 | 172.55 | 1.85 | 1.90 |
| Unplanned unavailable hours | 0 | 35.58 | 0 | 10.72 | 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 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| Indicator value | 1.0% | 1.7% | 1.7% | 1.8% | 1.9% | 2.3% | 2.3% | 2.2% |

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



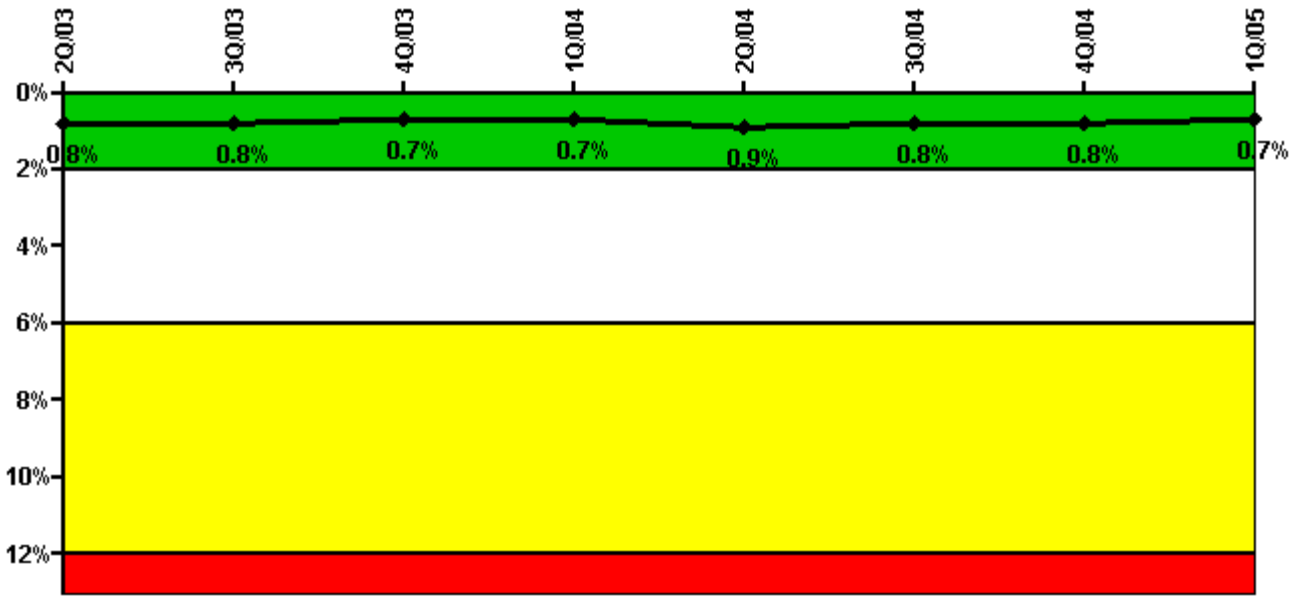
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, High Pressure Injection System (HPSI) | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 28.48 | 0.30 | 2.35 | 0.17 | 2.69 | 36.90 | 2.47 | 67.03 |
| Unplanned unavailable hours | 0 | 0 | 3.50 | 1.53 | 1.57 | 17.80 | 0.07 | 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 | 2139.68 | 2208.00 | 2209.00 | 977.73 | 2091.88 | 2208.00 | 2180.42 | 1592.48 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 3.33 | 1.58 | 19.43 | 2.05 | 2.32 | 4.20 | 0.18 | 53.44 |
| Unplanned unavailable hours | 1.82 | 0 | 0 | 1.13 | 0 | 13.65 | 0.22 | 180.65 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2139.68 | 2208.00 | 2209.00 | 977.73 | 2091.88 | 2208.00 | 2180.42 | 1592.48 |
| Indicator value | 1.4% | 1.3% | 1.3% | 1.3% | 0.9% | 0.8% | 0.7% | 1.2% |

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



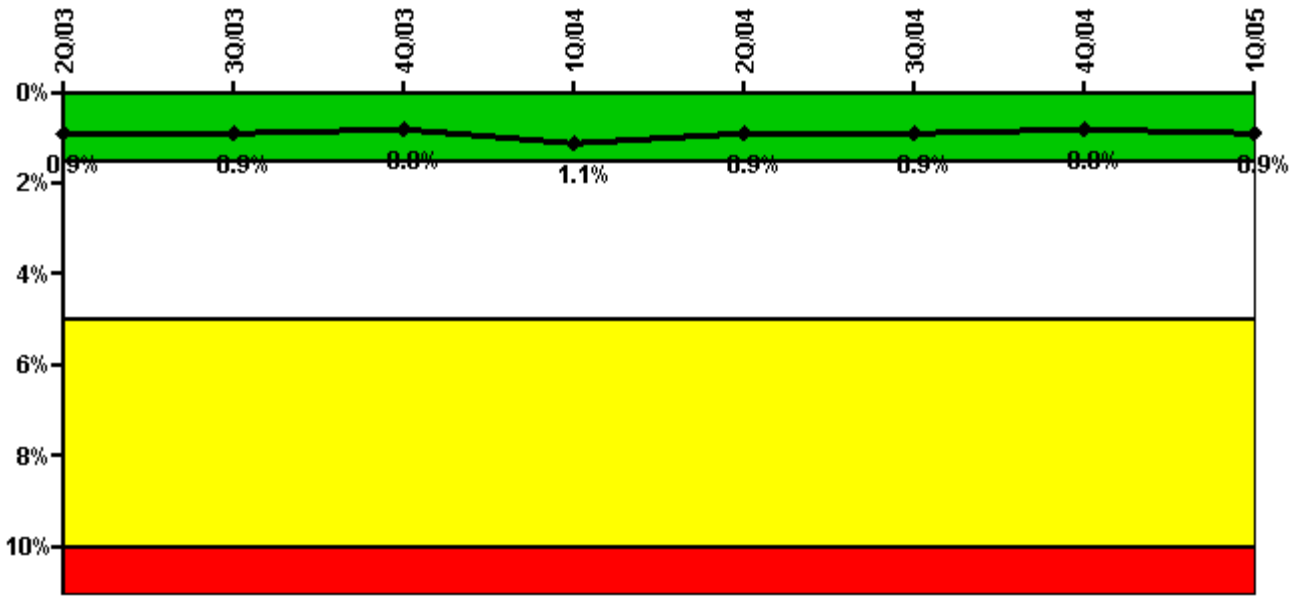
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

| Safety System Unavailability, Heat Removal System (AFW) | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 30.00 | 13.58 | 0.70 | 0.55 | 17.33 | 50.06 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 39.02 | 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 | 2139.68 | 2208.00 | 2209.00 | 977.73 | 2091.88 | 2208.00 | 2180.42 | 1592.48 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 17.80 | 11.15 | 15.15 | 0.95 | 0.42 | 9.09 | 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 | 2139.68 | 2208.00 | 2209.00 | 977.73 | 2091.88 | 2208.00 | 2180.42 | 1592.48 |
| Train 3 | | | | | | | | |
| Planned unavailable hours | 37.92 | 17.07 | 0 | 15.42 | 43.35 | 0.62 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 14.58 | 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 | 2139.68 | 2208.00 | 2209.00 | 977.73 | 2091.88 | 2208.00 | 2180.42 | 1592.48 |
| Indicator value | 0.8% | 0.8% | 0.7% | 0.7% | 0.9% | 0.8% | 0.8% | 0.7% |

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



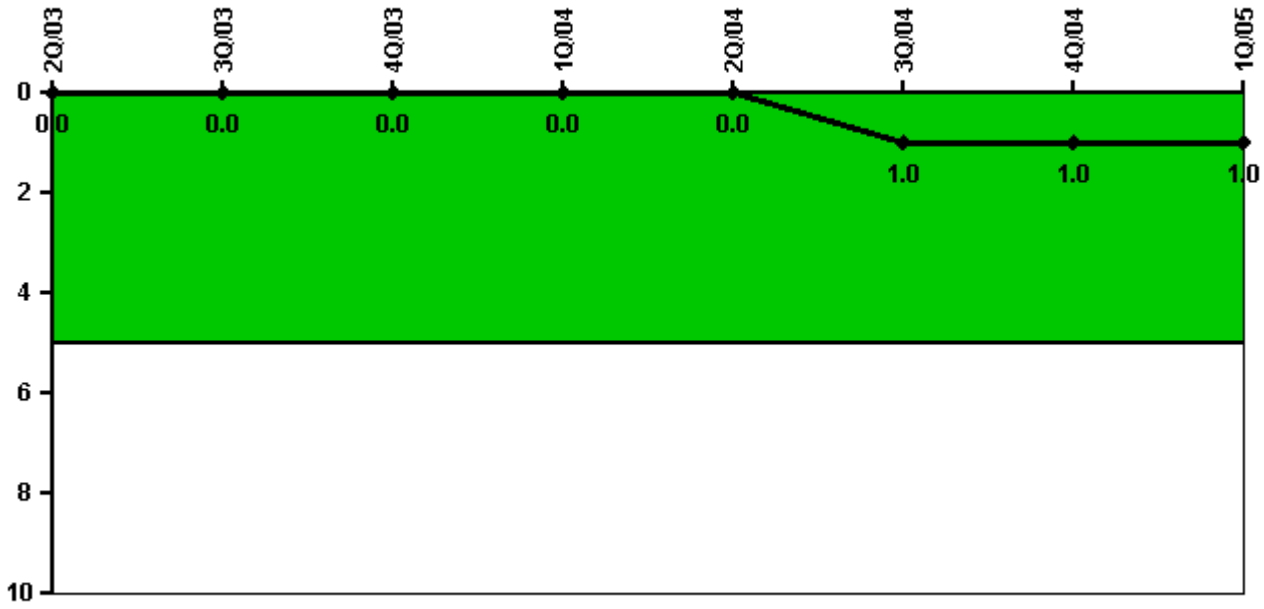
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Residual Heat Removal System | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | | | | |
| Planned unavailable hours | 25.45 | 8.88 | 2.30 | 0.17 | 12.39 | 58.75 | 1.67 | 74.25 |
| Unplanned unavailable hours | 0 | 0 | 3.50 | 1.53 | 1.57 | 17.80 | 0.07 | 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 | 2157.05 | 2208.00 | 2209.00 | 1042.69 | 2144.47 | 2208.00 | 2209.00 | 1712.36 |
| Train 2 | | | | | | | | |
| Planned unavailable hours | 20.77 | 19.20 | 19.43 | 1.00 | 2.62 | 13.22 | 1.30 | 53.14 |
| Unplanned unavailable hours | 1.82 | 0 | 0 | 1.13 | 0 | 0 | 0.22 | 81.22 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2157.05 | 2208.00 | 2209.00 | 1042.69 | 2144.47 | 2208.00 | 2209.00 | 1712.36 |
| Train 3 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 22.25 | 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 | 25.95 | 0 | 0 | 1141.31 | 38.53 | 0 | 0 | 447.64 |
| Train 4 | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0.67 | 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 | 25.95 | 0 | 0 | 1141.31 | 38.53 | 0 | 0 | 447.64 |
| Indicator value | 0.9% | 0.9% | 0.8% | 1.1% | 0.9% | 0.9% | 0.8% | 0.9% |

Licensee Comments: none

Safety System Functional Failures (PWR)



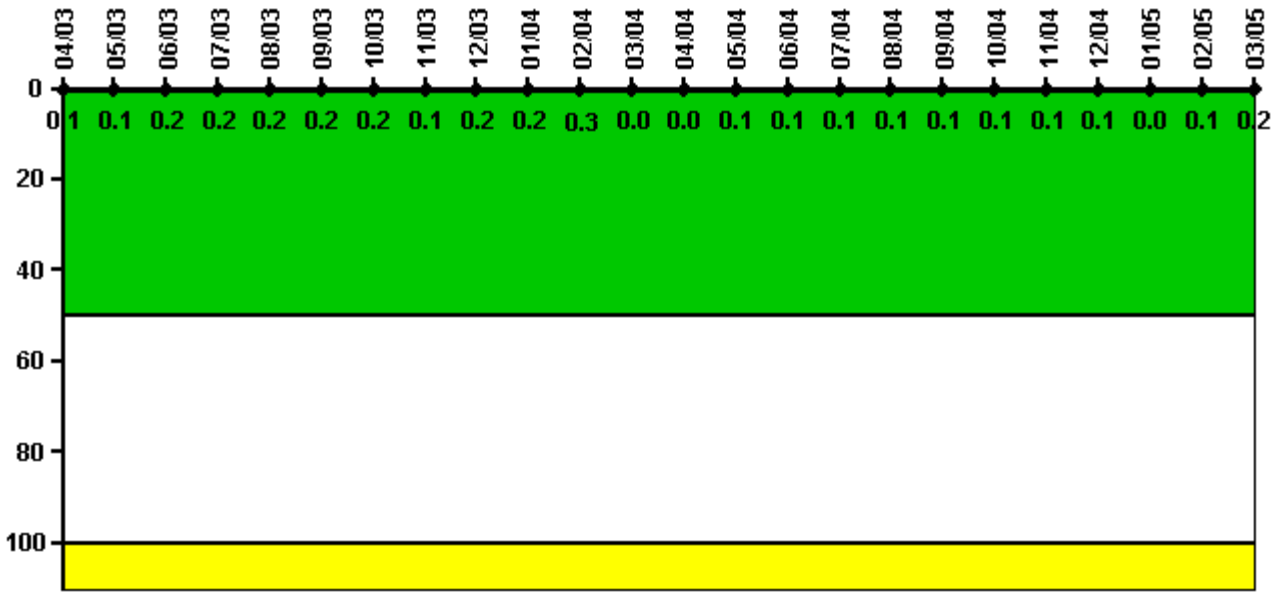
Thresholds: White > 5.0

Notes

| Safety System Functional Failures (PWR) | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

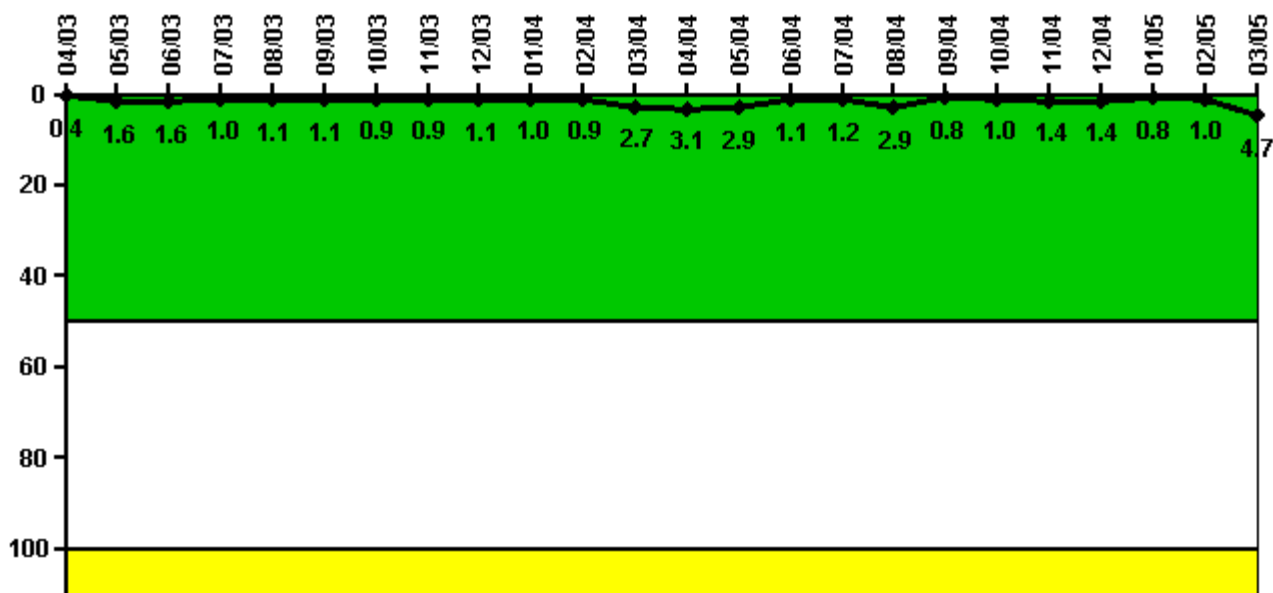
Notes

| Reactor Coolant System Activity | 4/03 | 5/03 | 6/03 | 7/03 | 8/03 | 9/03 | 10/03 | 11/03 | 12/03 | 1/04 | 2/04 | 3/04 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| Maximum activity | 0.001000 | 0.001000 | 0.002000 | 0.002000 | 0.002000 | 0.002000 | 0.001500 | 0.001480 | 0.001500 | 0.001500 | 0.003270 | 0 |
| 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 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0 |

| Reactor Coolant System Activity | 4/04 | 5/04 | 6/04 | 7/04 | 8/04 | 9/04 | 10/04 | 11/04 | 12/04 | 1/05 | 2/05 | 3/05 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0.000427 | 0.000503 | 0.000524 | 0.000523 | 0.000529 | 0.000622 | 0.000566 | 0.000651 | 0.000761 | 0.000457 | 0.000677 | 0.001660 |
| 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 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0 | 0.1 | 0.2 |

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

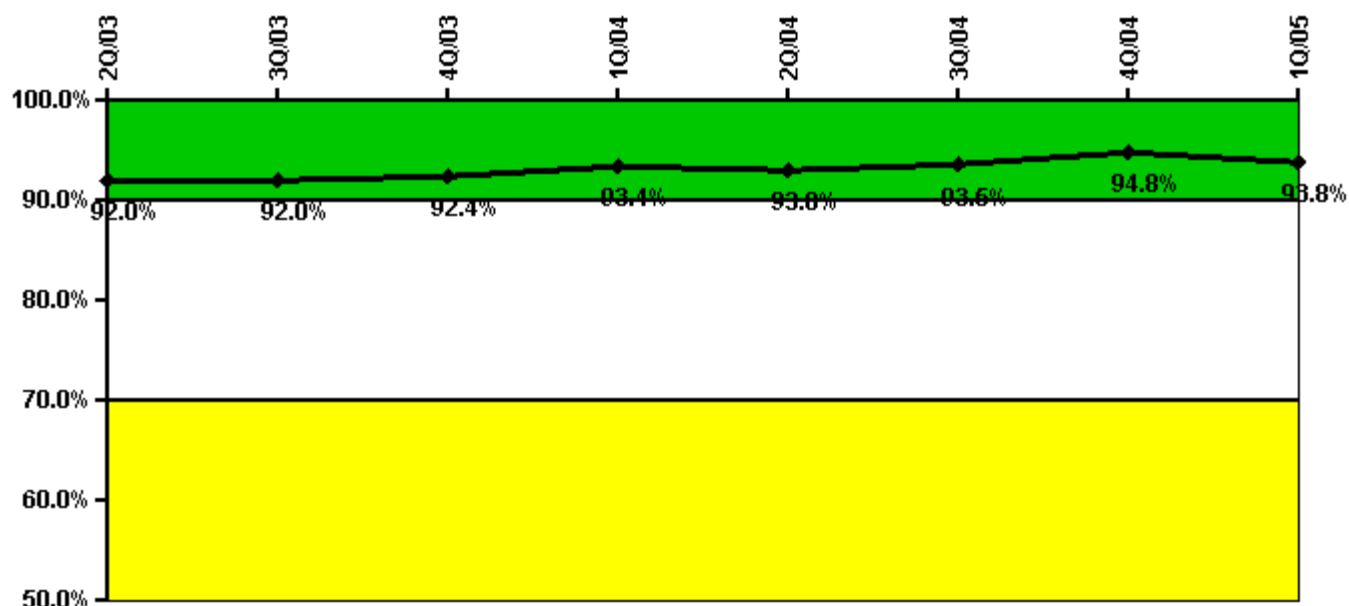
| Reactor Coolant System Leakage | 4/03 | 5/03 | 6/03 | 7/03 | 8/03 | 9/03 | 10/03 | 11/03 | 12/03 | 1/04 | 2/04 | 3/04 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 0.040 | 0.160 | 0.160 | 0.100 | 0.110 | 0.110 | 0.090 | 0.090 | 0.110 | 0.100 | 0.090 | 0.270 |
| 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 | 0.4 | 1.6 | 1.6 | 1.0 | 1.1 | 1.1 | 0.9 | 0.9 | 1.1 | 1.0 | 0.9 | 2.7 |

| Reactor Coolant System Leakage | 4/04 | 5/04 | 6/04 | 7/04 | 8/04 | 9/04 | 10/04 | 11/04 | 12/04 | 1/05 | 2/05 | 3/05 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 0.310 | 0.290 | 0.110 | 0.120 | 0.290 | 0.080 | 0.100 | 0.140 | 0.140 | 0.080 | 0.100 | 0.470 |
| 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 | 3.1 | 2.9 | 1.1 | 1.2 | 2.9 | 0.8 | 1.0 | 1.4 | 1.4 | 0.8 | 1.0 | 4.7 |

Licensee Comments:

3/05: Effective May 2003 the RCS Leakage being recorded is RCS TOTAL leakage versus RCS IDENTIFIED leakage. RCS Identified Leakage is generated only when RCS Total Leakage exceeds 1 GPM.

Drill/Exercise Performance



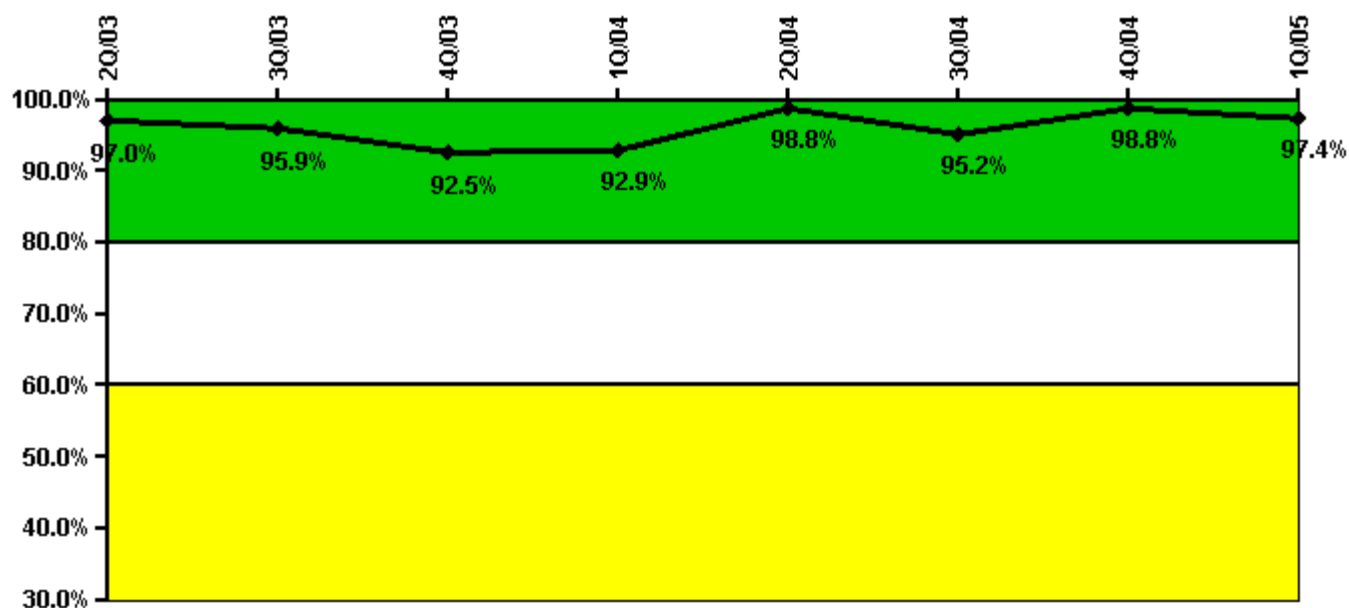
Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 48.0 | 19.0 | 9.0 | 0 | 42.0 | 0 | 39.0 | 9.0 |
| Total opportunities | 51.0 | 20.0 | 9.0 | 0 | 46.0 | 0 | 41.0 | 10.0 |
| Indicator value | 92.0% | 92.0% | 92.4% | 93.4% | 93.0% | 93.5% | 94.8% | 93.8% |

Licensee Comments: none

ERO Drill Participation



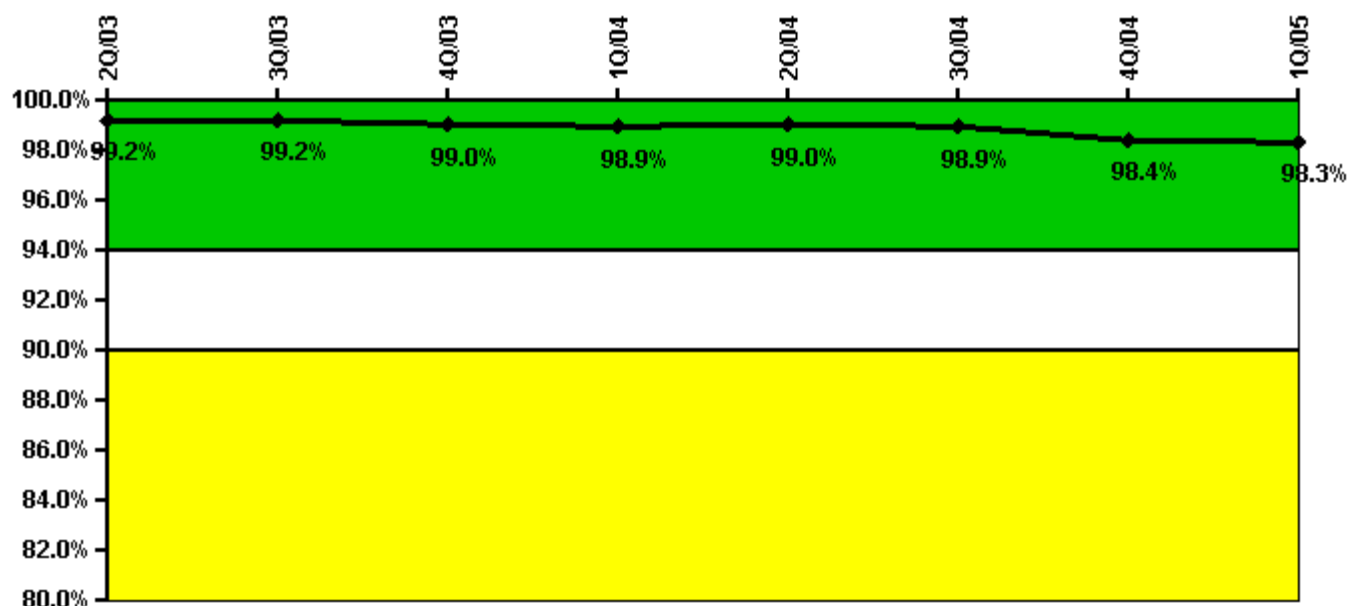
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Participating Key personnel | 65.0 | 70.0 | 74.0 | 78.0 | 83.0 | 80.0 | 81.0 | 76.0 |
| Total Key personnel | 67.0 | 73.0 | 80.0 | 84.0 | 84.0 | 84.0 | 82.0 | 78.0 |
| Indicator value | 97.0% | 95.9% | 92.5% | 92.9% | 98.8% | 95.2% | 98.8% | 97.4% |

Licensee Comments: none

Alert & Notification System



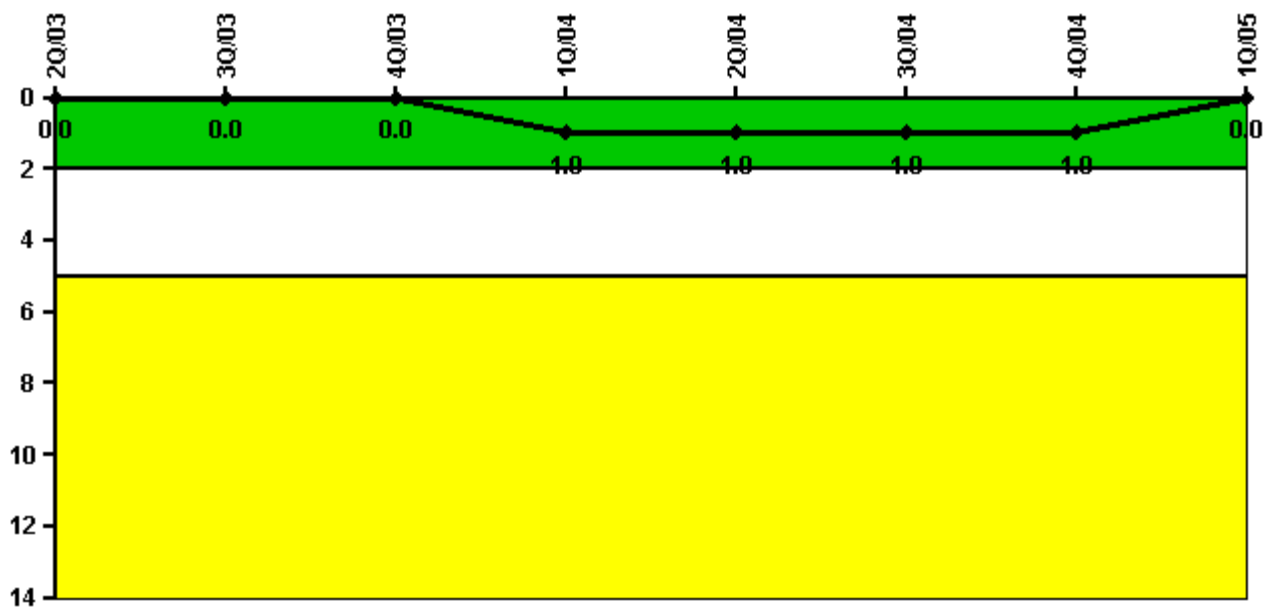
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests | 341 | 386 | 486 | 338 | 342 | 385 | 430 | 385 |
| Total sirens-tests | 343 | 392 | 490 | 343 | 343 | 392 | 441 | 392 |
| Indicator value | 99.2% | 99.2% | 99.0% | 98.9% | 99.0% | 98.9% | 98.4% | 98.3% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



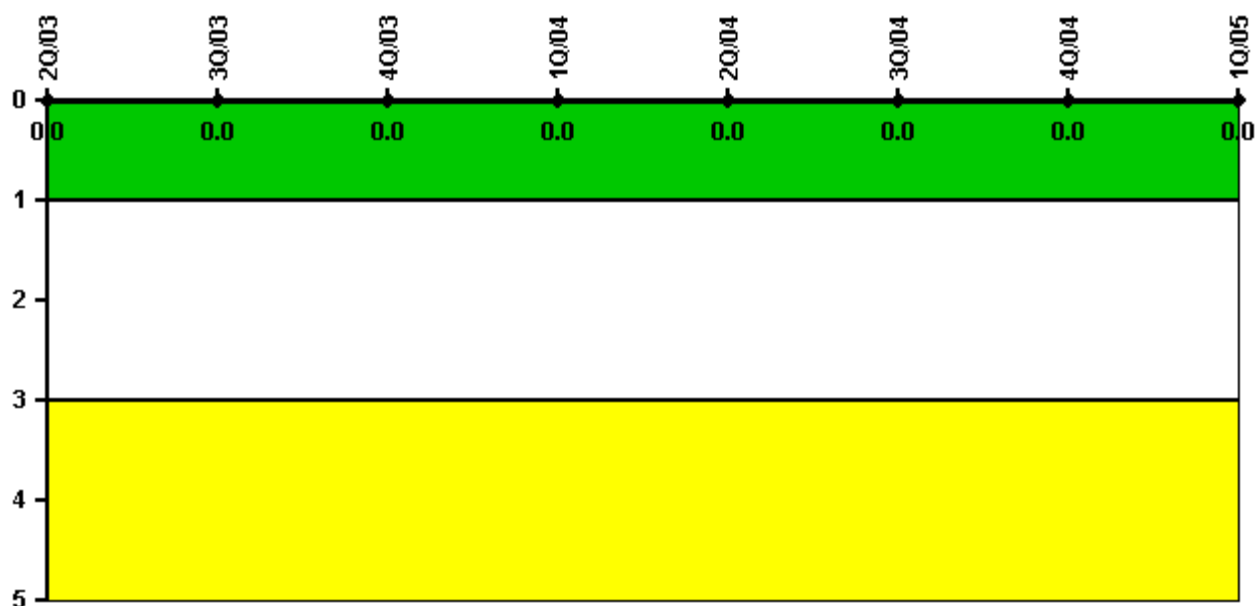
Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| High radiation area occurrences | 0 | 0 | 0 | 1 | 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 | 1 | 1 | 1 | 1 | 0 |

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

| RETS/ODCM Radiological Effluent | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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: June 17, 2005