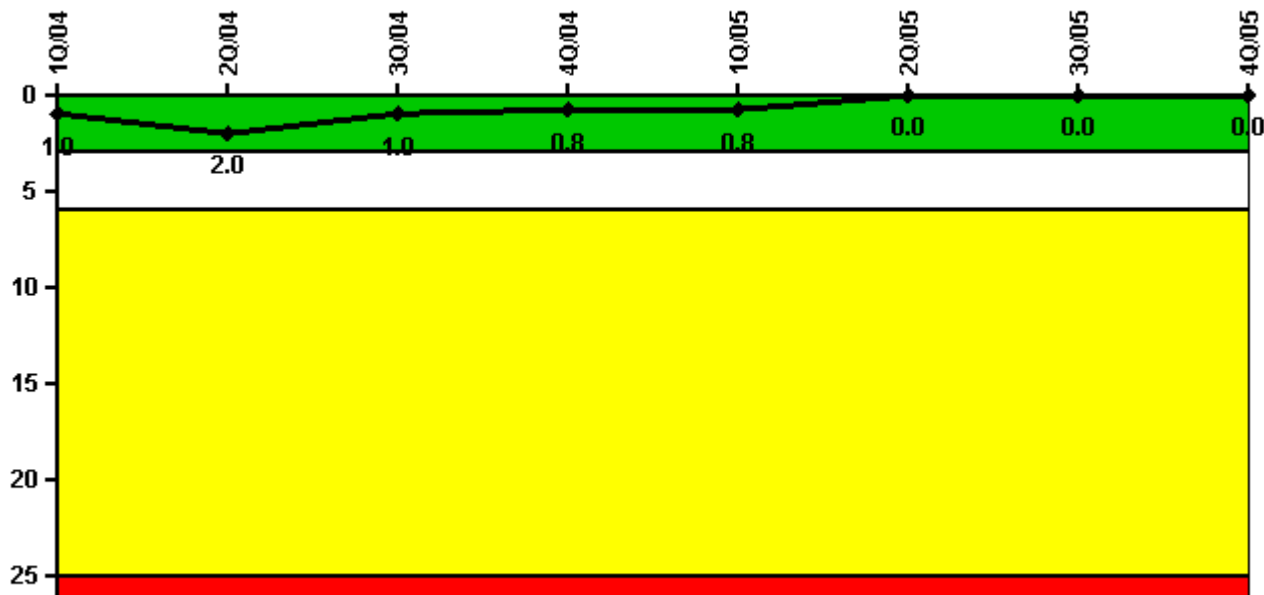


## Surry 2

### 4Q/2005 Performance Indicators

Licensee's General Comments: none

#### Unplanned Scrams per 7000 Critical Hrs



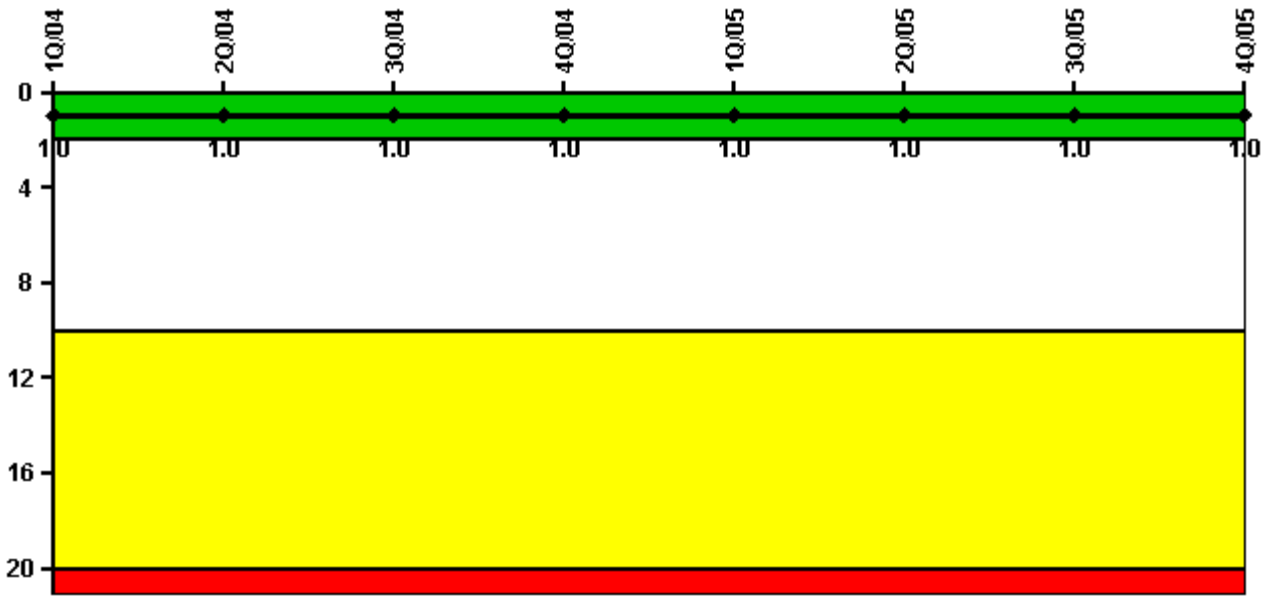
**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

#### Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/04  | 2Q/04  | 3Q/04  | 4Q/04  | 1Q/05  | 2Q/05  | 3Q/05  | 4Q/05  |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams                       | 0      | 1.0    | 0      | 0      | 0      | 0      | 0      | 0      |
| Critical hours                         | 2184.0 | 2028.5 | 2208.0 | 2209.0 | 2160.0 | 1505.8 | 2208.0 | 2209.0 |
| Indicator value                        | 1.0    | 2.0    | 1.0    | 0.8    | 0.8    | 0      | 0      | 0      |

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



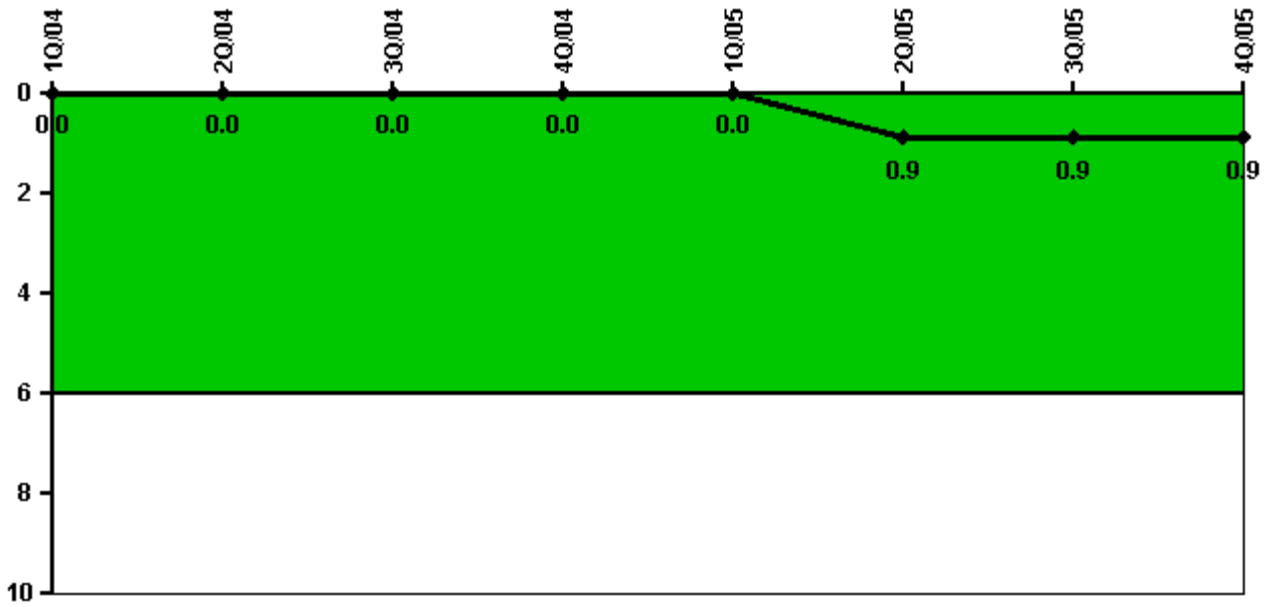
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

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

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



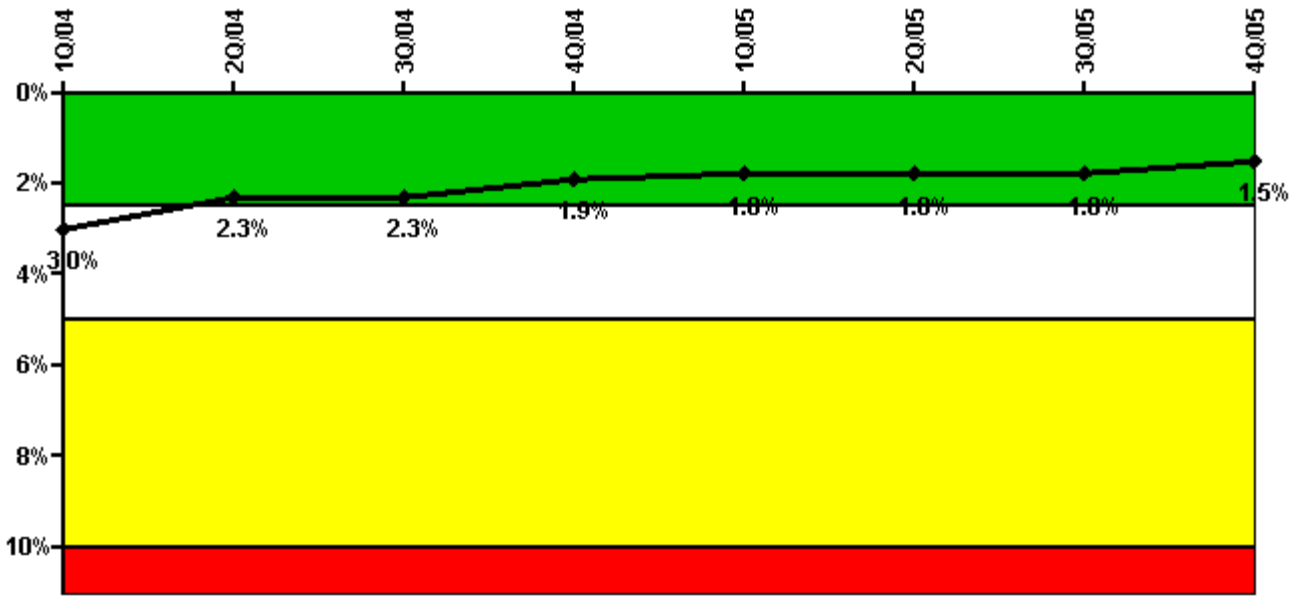
Thresholds: White > 6.0

#### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/04  | 2Q/04  | 3Q/04  | 4Q/04  | 1Q/05  | 2Q/05  | 3Q/05  | 4Q/05  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes                       | 0      | 0      | 0      | 0      | 0      | 1.0    | 0      | 0      |
| Critical hours                                | 2184.0 | 2028.5 | 2208.0 | 2209.0 | 2160.0 | 1505.8 | 2208.0 | 2209.0 |
| Indicator value                               | 0      | 0      | 0      | 0      | 0      | 0.9    | 0.9    | 0.9    |

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power



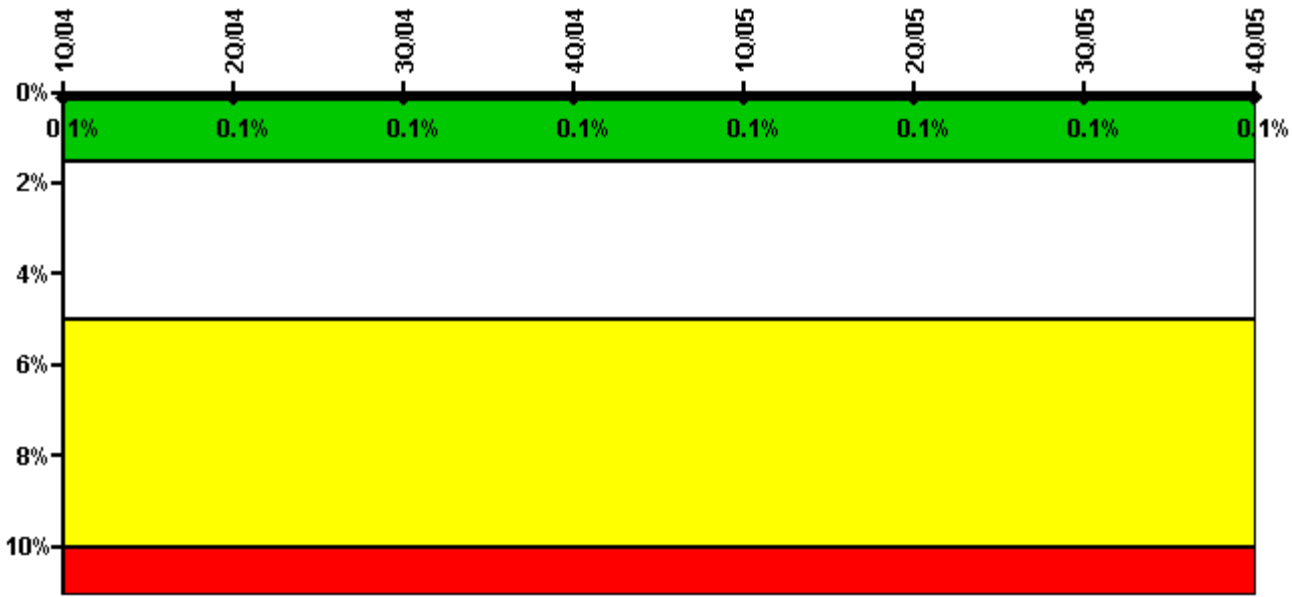
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

#### Notes

| Safety System Unavailability, Emergency AC Power | 1Q/04       | 2Q/04       | 3Q/04       | 4Q/04       | 1Q/05       | 2Q/05       | 3Q/05       | 4Q/05       |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>                                   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                        | 17.66       | 14.02       | 20.96       | 12.07       | 11.62       | 7.93        | 8.50        | 26.00       |
| Unplanned unavailable hours                      | 1.38        | 2.67        | 18.87       | 23.40       | 0           | 15.78       | 0           | 18.23       |
| 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     | 2112.92     | 2208.00     | 2209.00     | 2160.00     | 1554.45     | 2208.00     | 2209.00     |
| <b>Train 2</b>                                   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                        | 21.35       | 18.77       | 21.80       | 47.30       | 11.99       | 7.54        | 24.07       | 9.08        |
| Unplanned unavailable hours                      | 0           | 9.23        | 0           | 9.00        | 0           | 0           | 0           | 37.83       |
| 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     | 2112.92     | 2208.00     | 2209.00     | 2160.00     | 1554.45     | 2208.00     | 2209.00     |
| <b>Indicator value</b>                           | <b>3.0%</b> | <b>2.3%</b> | <b>2.3%</b> | <b>1.9%</b> | <b>1.8%</b> | <b>1.8%</b> | <b>1.8%</b> | <b>1.5%</b> |

Licensee Comments: none

### Safety System Unavailability, High Pressure Injection System (HPSI)



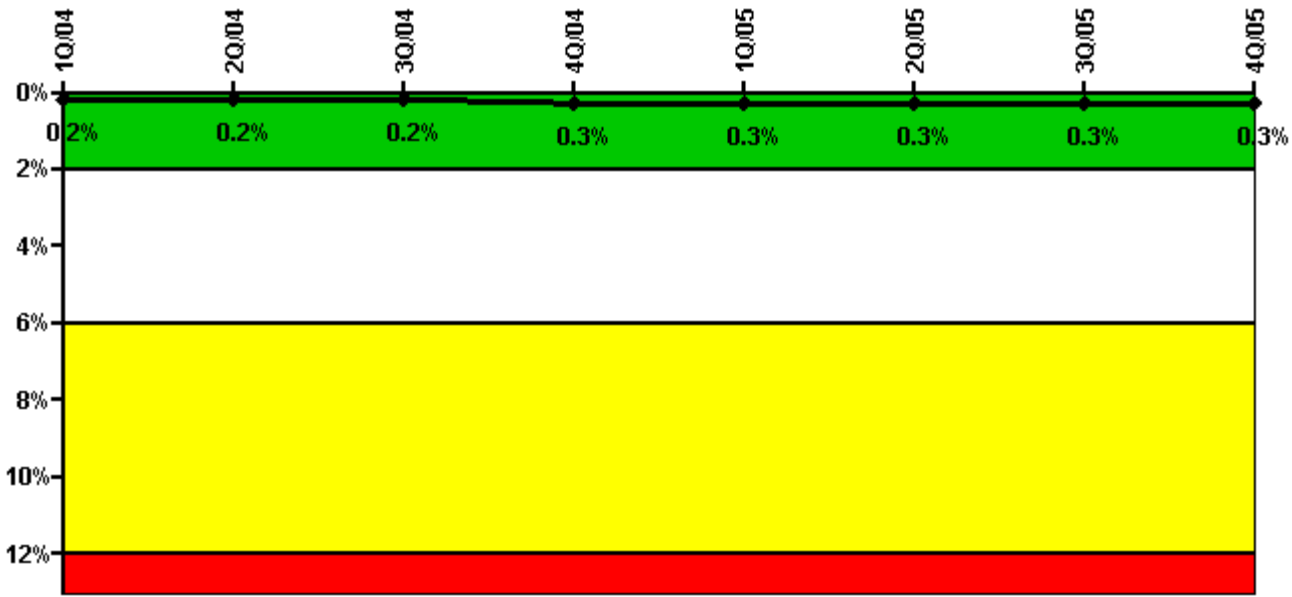
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

| Safety System Unavailability, High Pressure Injection System (HPSI) | 1Q/04       | 2Q/04       | 3Q/04       | 4Q/04       | 1Q/05       | 2Q/05       | 3Q/05       | 4Q/05       |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours   | 6.35        | 1.38        | 1.20        | 0           | 1.58        | 0           | 3.50        | 1.03        |
| Unplanned unavailable hours   | 0.80        | 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     | 2029.00     | 2208.00     | 2209.00     | 2160.00     | 1506.80     | 2208.00     | 2209.00     |
| <b>Train 2</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours   | 2.71        | 3.04        | 6.96        | 1.38        | 4.34        | 1.15        | 2.80        | 9.37        |
| 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     | 2029.00     | 2208.00     | 2209.00     | 2160.00     | 1506.80     | 2208.00     | 2209.00     |
| <b>Indicator value</b>  | <b>0.1%</b> | <b>0.1%</b> | <b>0.1%</b> | <b>0.1%</b> | <b>0.1%</b> | <b>0.1%</b> | <b>0.1%</b> | <b>0.1%</b> |

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (AFW)



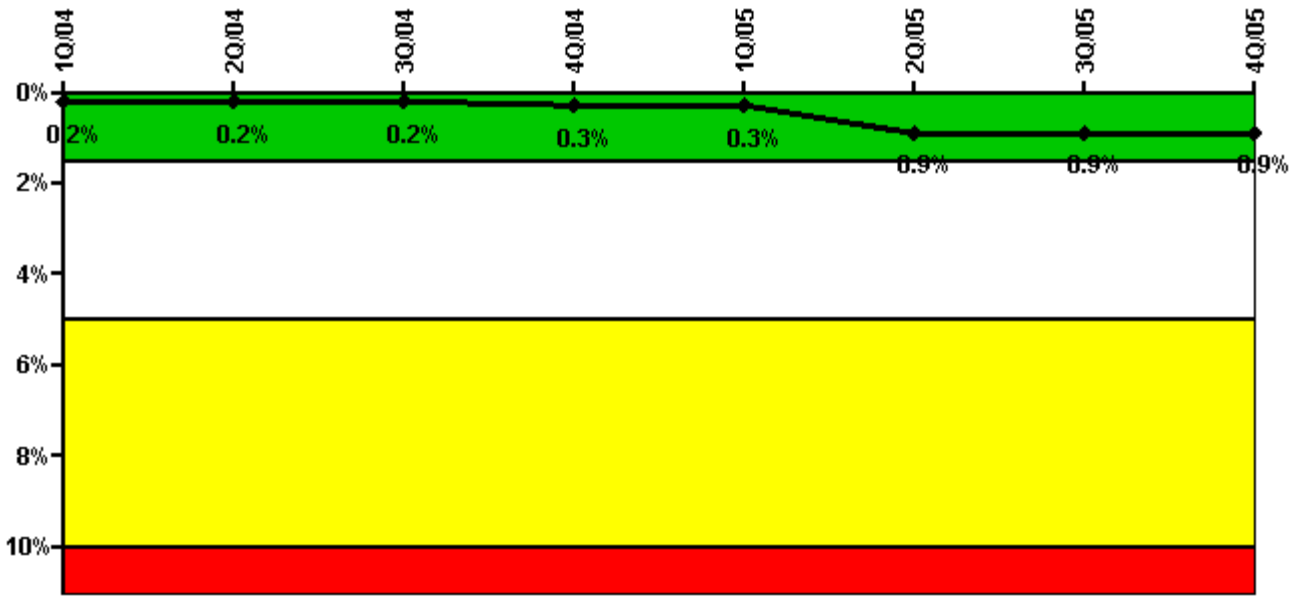
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

#### Notes

| Safety System Unavailability, Heat Removal System (AFW) | 1Q/04       | 2Q/04       | 3Q/04       | 4Q/04       | 1Q/05       | 2Q/05       | 3Q/05       | 4Q/05       |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours                               | 0.73        | 0           | 1.33        | 3.28        | 10.80       | 0           | 0.82        | 0.72        |
| Unplanned unavailable hours                             | 0           | 3.52        | 0           | 0           | 0           | 0           | 9.45        | 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     | 2113.00     | 2208.00     | 2209.00     | 2160.00     | 1554.40     | 2208.00     | 2209.00     |
| <b>Train 2</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours                               | 10.00       | 2.15        | 1.07        | 11.55       | 1.30        | 1.60        | 0.83        | 0.70        |
| 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     | 2113.00     | 2208.00     | 2209.00     | 2160.00     | 1554.40     | 2208.00     | 2209.00     |
| <b>Train 3</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours                               | 1.88        | 5.07        | 17.37       | 2.85        | 23.79       | 0           | 6.73        | 11.78       |
| Unplanned unavailable hours                             | 0           | 8.82        | 0           | 47.50       | 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     | 2041.70     | 2208.00     | 2209.00     | 2160.00     | 1551.30     | 2208.00     | 2209.00     |
| <b>Indicator value</b>                                  | <b>0.2%</b> | <b>0.2%</b> | <b>0.2%</b> | <b>0.3%</b> | <b>0.3%</b> | <b>0.3%</b> | <b>0.3%</b> | <b>0.3%</b> |

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



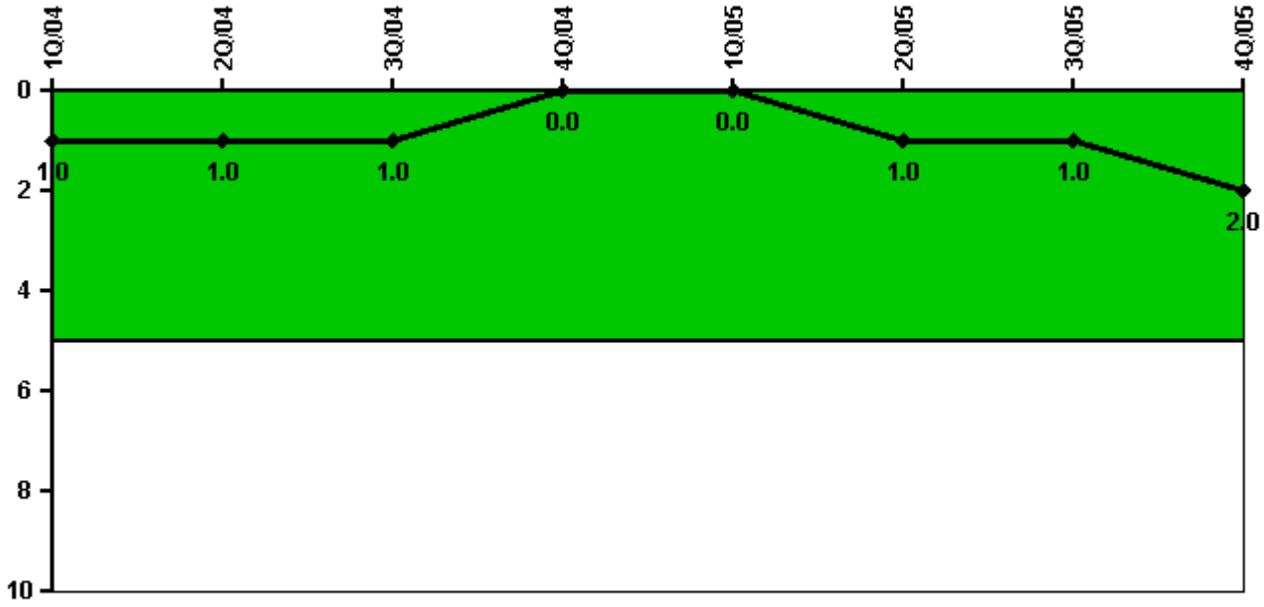
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

| Safety System Unavailability, Residual Heat Removal System | 1Q/04       | 2Q/04       | 3Q/04       | 4Q/04       | 1Q/05       | 2Q/05       | 3Q/05       | 4Q/05       |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                                  | 9.19        | 0.15        | 14.68       | 0.82        | 0.53        | 7.78        | 7.92        | 1.37        |
| 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     | 2029.00     | 2208.00     | 2209.00     | 2160.00     | 1506.80     | 2208.00     | 2209.00     |
| <b>Train 2</b>   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                                  | 15.25       | 13.79       | 0.75        | 0.73        | 1.66        | 9.69        | 0.34        | 0.52        |
| Unplanned unavailable hours                                | 22.77       | 0           | 0           | 66.70       | 0           | 0           | 0           | 0           |
| Fault exposure hours                                       | 0           | 0           | 0           | 0           | 0           | 537.70      | 0           | 0           |
| Effective Reset hours                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| Required hours   | 2184.00     | 2029.00     | 2208.00     | 2209.00     | 2160.00     | 1506.80     | 2208.00     | 2209.00     |
| <b>Train 3</b>   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                                  | 0           | 0           | 0           | 0           | 0           | 58.30       | 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   | 2184.00     | 2183.00     | 2208.00     | 2209.00     | 2160.00     | 1975.30     | 2208.00     | 2209.00     |
| <b>Train 4</b>   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                                  | 0           | 0           | 0           | 0           | 0           | 9.28        | 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   | 2184.00     | 2183.00     | 2208.00     | 2209.00     | 2160.00     | 1975.30     | 2208.00     | 2209.00     |
| <b>Indicator value</b>                                     | <b>0.2%</b> | <b>0.2%</b> | <b>0.2%</b> | <b>0.3%</b> | <b>0.3%</b> | <b>0.9%</b> | <b>0.9%</b> | <b>0.9%</b> |

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

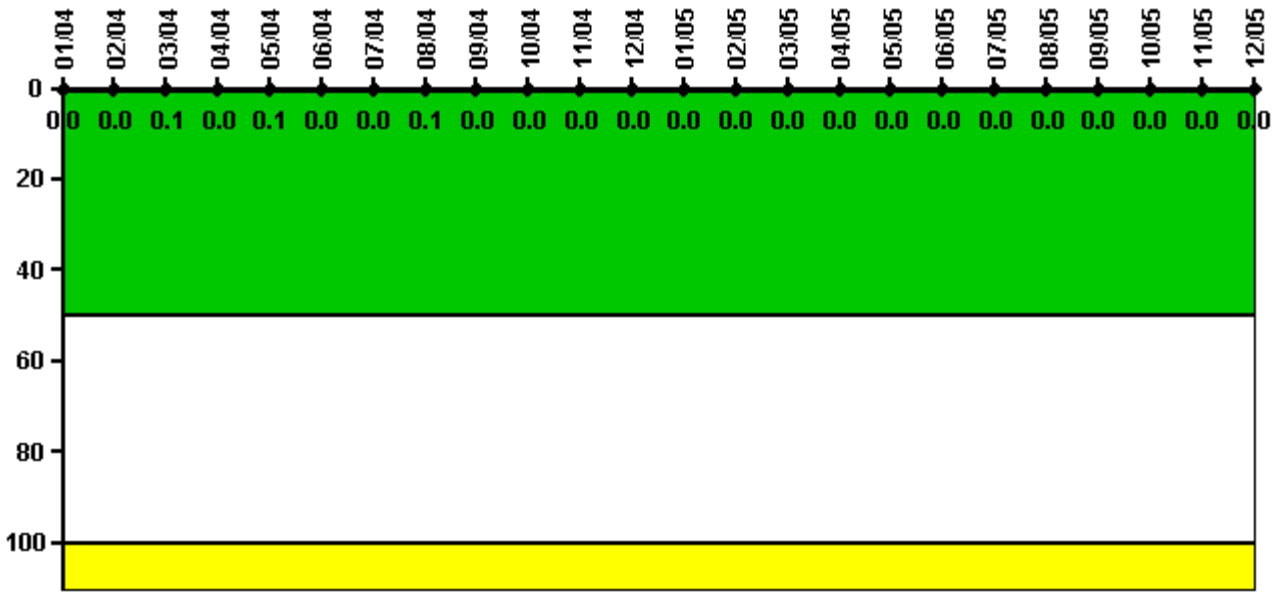
### Notes

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

Licensee Comments: none



### Reactor Coolant System Activity



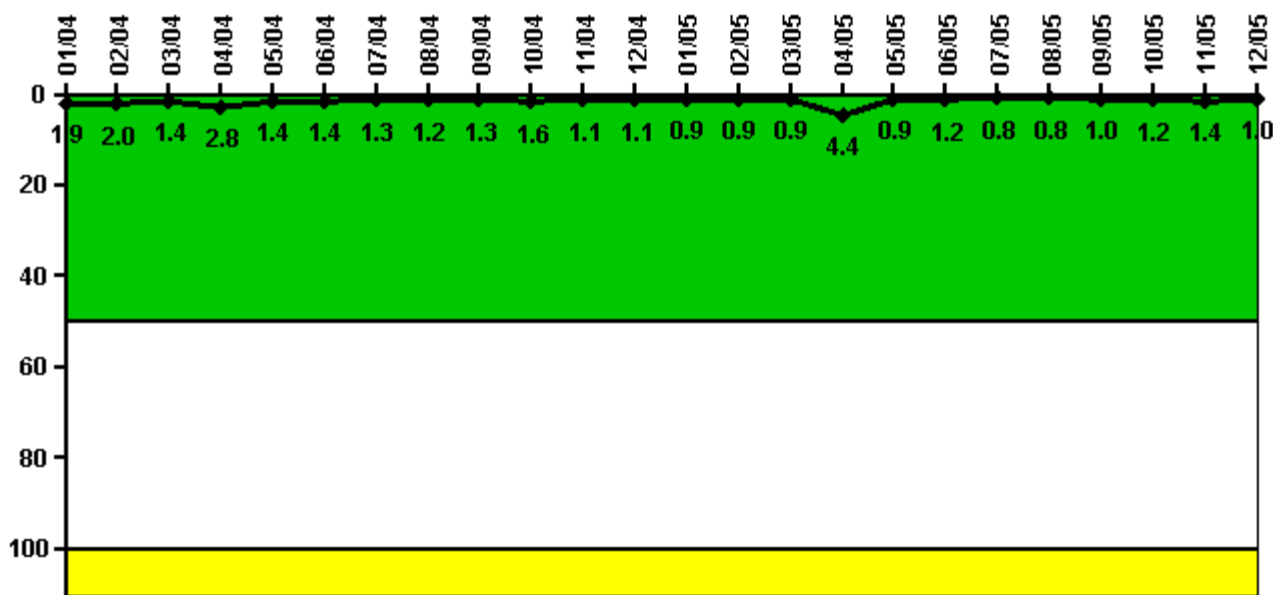
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

| Reactor Coolant System Activity | 1/04     | 2/04     | 3/04     | 4/04     | 5/04     | 6/04     | 7/04     | 8/04     | 9/04     | 10/04    | 11/04    | 12/04    |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.000338 | 0.000316 | 0.000544 | 0.000345 | 0.000532 | 0.000437 | 0.000343 | 0.000807 | 0.000468 | 0.000352 | 0.000387 | 0.000401 |
| 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        | 0.1      | 0        | 0.1      | 0        | 0        | 0.1      | 0        | 0        | 0        | 0        |
| Reactor Coolant System Activity | 1/05     | 2/05     | 3/05     | 4/05     | 5/05     | 6/05     | 7/05     | 8/05     | 9/05     | 10/05    | 11/05    | 12/05    |
| Maximum activity                | 0.000390 | 0.000395 | 0.000403 | 0.000433 | 0.000313 | 0.000404 | 0.000334 | 0.000326 | 0.000323 | 0.000395 | 0.000358 | 0.000358 |
| 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        |

Licensee Comments: none

### Reactor Coolant System Leakage



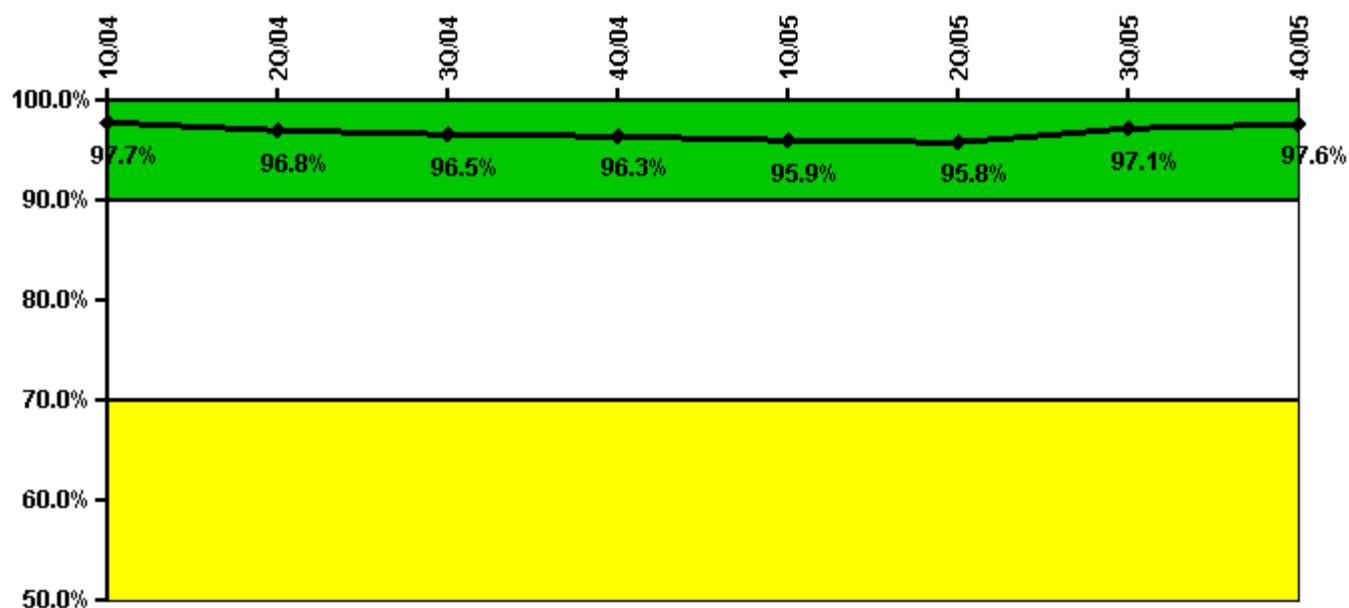
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

| Reactor Coolant System Leakage | 1/04  | 2/04  | 3/04  | 4/04  | 5/04  | 6/04  | 7/04  | 8/04  | 9/04  | 10/04 | 11/04 | 12/04 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage                | 0.190 | 0.200 | 0.140 | 0.280 | 0.140 | 0.140 | 0.130 | 0.120 | 0.130 | 0.160 | 0.110 | 0.110 |
| 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                | 1.9   | 2.0   | 1.4   | 2.8   | 1.4   | 1.4   | 1.3   | 1.2   | 1.3   | 1.6   | 1.1   | 1.1   |
| Reactor Coolant System Leakage | 1/05  | 2/05  | 3/05  | 4/05  | 5/05  | 6/05  | 7/05  | 8/05  | 9/05  | 10/05 | 11/05 | 12/05 |
| Maximum leakage                | 0.090 | 0.090 | 0.090 | 0.440 | 0.090 | 0.120 | 0.080 | 0.080 | 0.100 | 0.120 | 0.140 | 0.100 |
| 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                | 0.9   | 0.9   | 0.9   | 4.4   | 0.9   | 1.2   | 0.8   | 0.8   | 1.0   | 1.2   | 1.4   | 1.0   |

Licensee Comments: none

### Drill/Exercise Performance



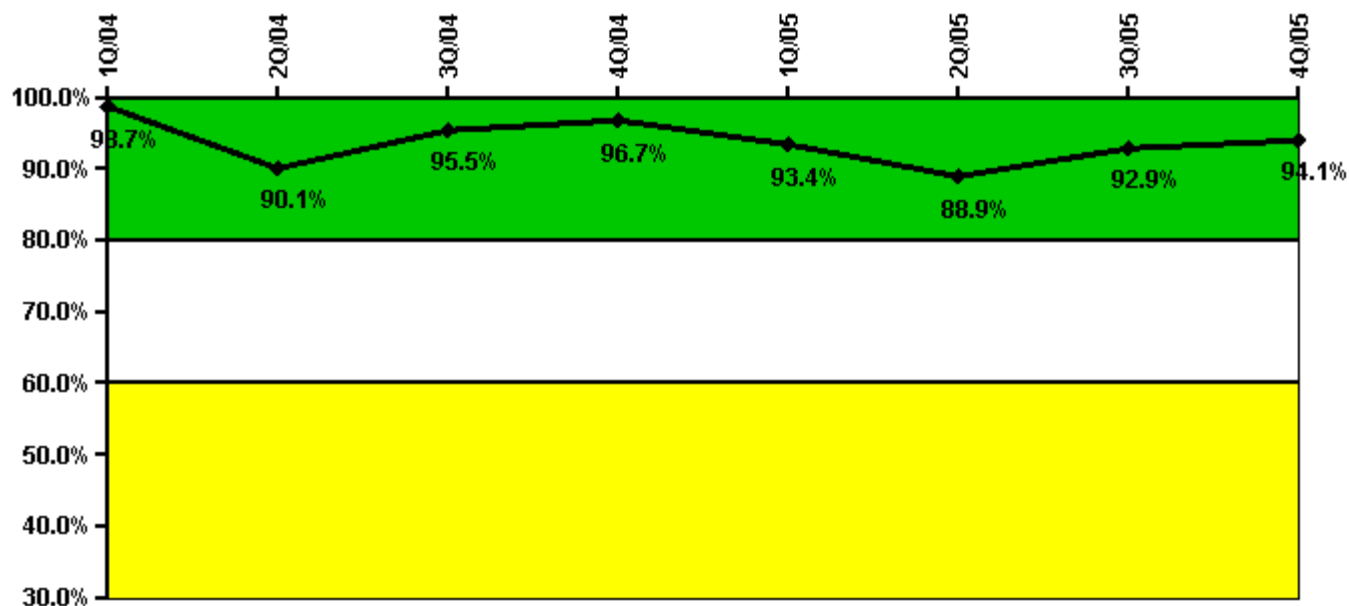
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

| Drill/Exercise Performance | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 16.0  | 12.0  | 32.0  | 8.0   | 19.0  | 20.0  | 29.0  | 27.0  |
| Total opportunities        | 16.0  | 13.0  | 34.0  | 8.0   | 20.0  | 20.0  | 29.0  | 27.0  |
| Indicator value            | 97.7% | 96.8% | 96.5% | 96.3% | 95.9% | 95.8% | 97.1% | 97.6% |

Licensee Comments: none

### ERO Drill Participation



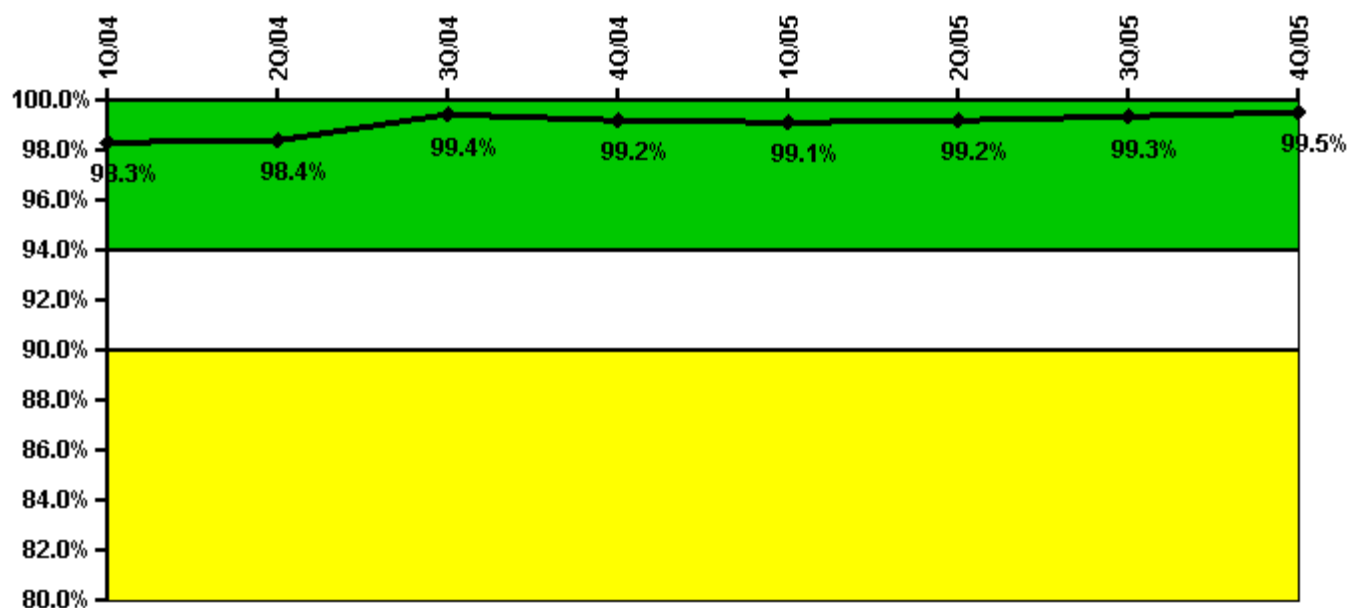
**Thresholds: White < 80.0% Yellow < 60.0%**

**Notes**

| ERO Drill Participation     | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Participating Key personnel | 156.0 | 145.0 | 150.0 | 148.0 | 142.0 | 136.0 | 144.0 | 144.0 |
| Total Key personnel         | 158.0 | 161.0 | 157.0 | 153.0 | 152.0 | 153.0 | 155.0 | 153.0 |
| Indicator value             | 98.7% | 90.1% | 95.5% | 96.7% | 93.4% | 88.9% | 92.9% | 94.1% |

Licensee Comments: none

### Alert & Notification System



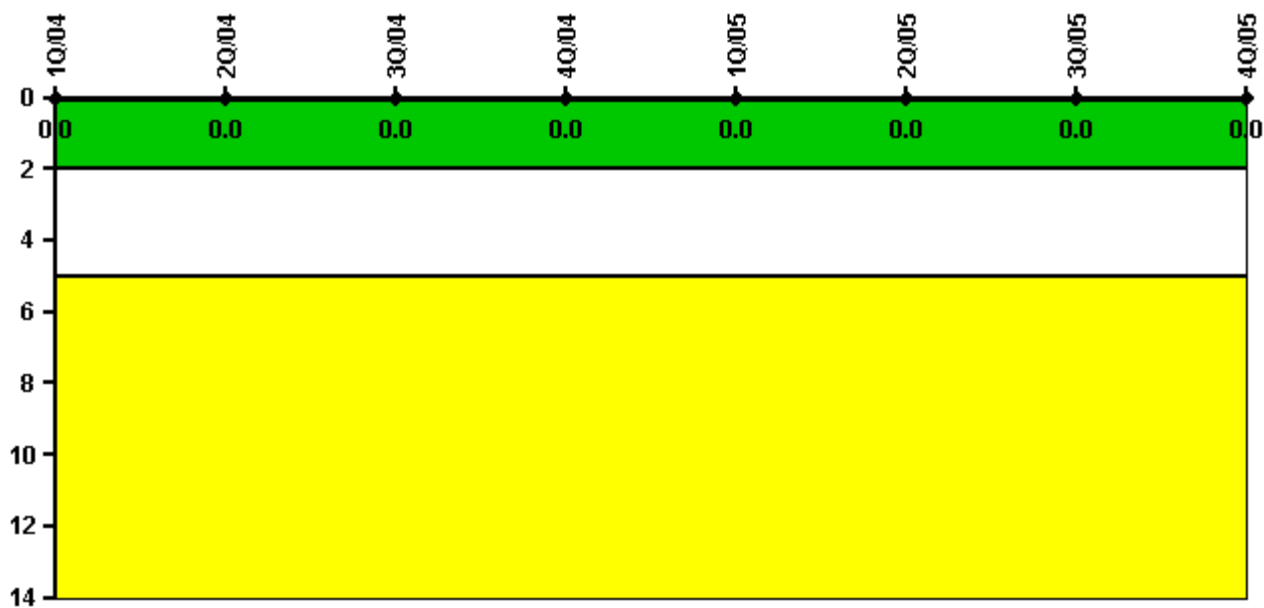
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

| Alert & Notification System | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests      | 467   | 533   | 532   | 461   | 534   | 475   | 541   | 473   |
| Total sirens-tests          | 469   | 536   | 536   | 469   | 537   | 476   | 544   | 476   |
| Indicator value             | 98.3% | 98.4% | 99.4% | 99.2% | 99.1% | 99.2% | 99.3% | 99.5% |

Licensee Comments: none

### Occupational Exposure Control Effectiveness



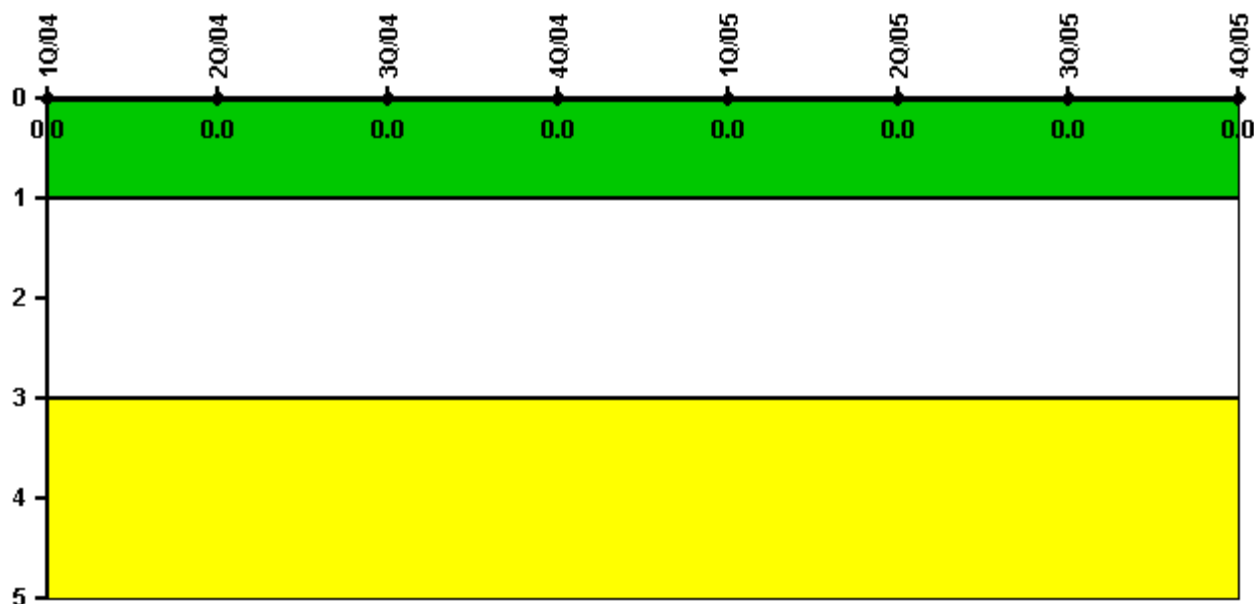
Thresholds: White > 2.0 Yellow > 5.0

**Notes**

| Occupational Exposure Control Effectiveness | 1Q/04    | 2Q/04    | 3Q/04    | 4Q/04    | 1Q/05    | 2Q/05    | 3Q/05    | 4Q/05    |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| 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        |
| <b>Indicator value</b>                      | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

| RETS/ODCM Radiological Effluent | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/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: January 30, 2006