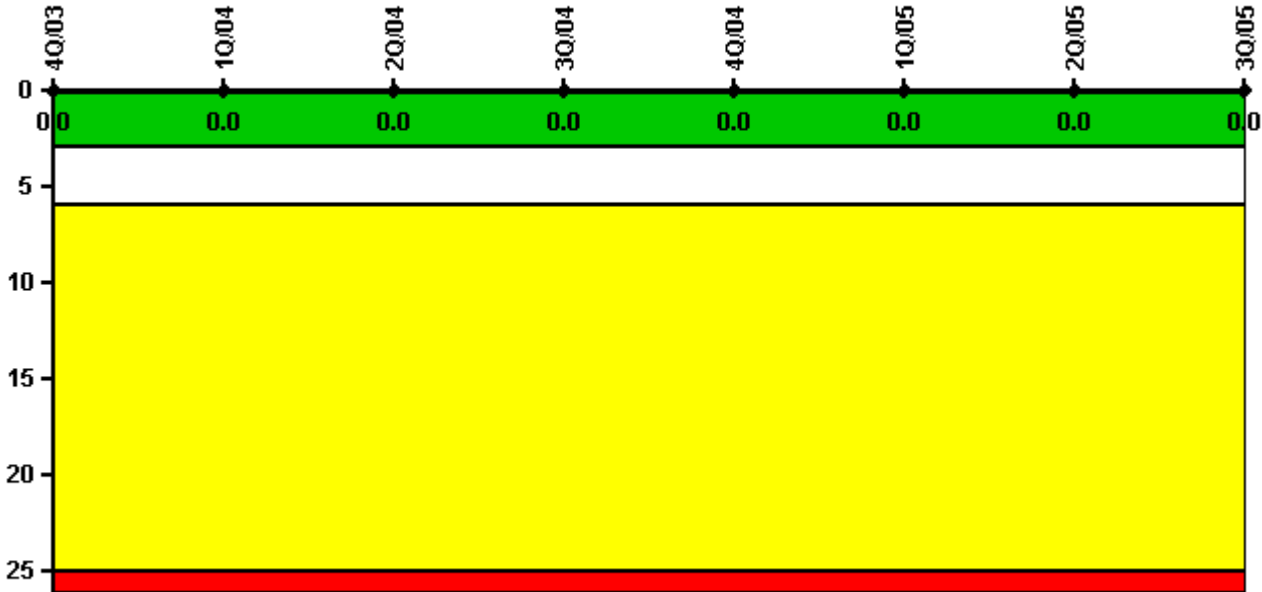


## Byron 2

### 3Q/2005 Performance Indicators

Licensee's General Comments: none

#### Unplanned Scrams per 7000 Critical Hrs



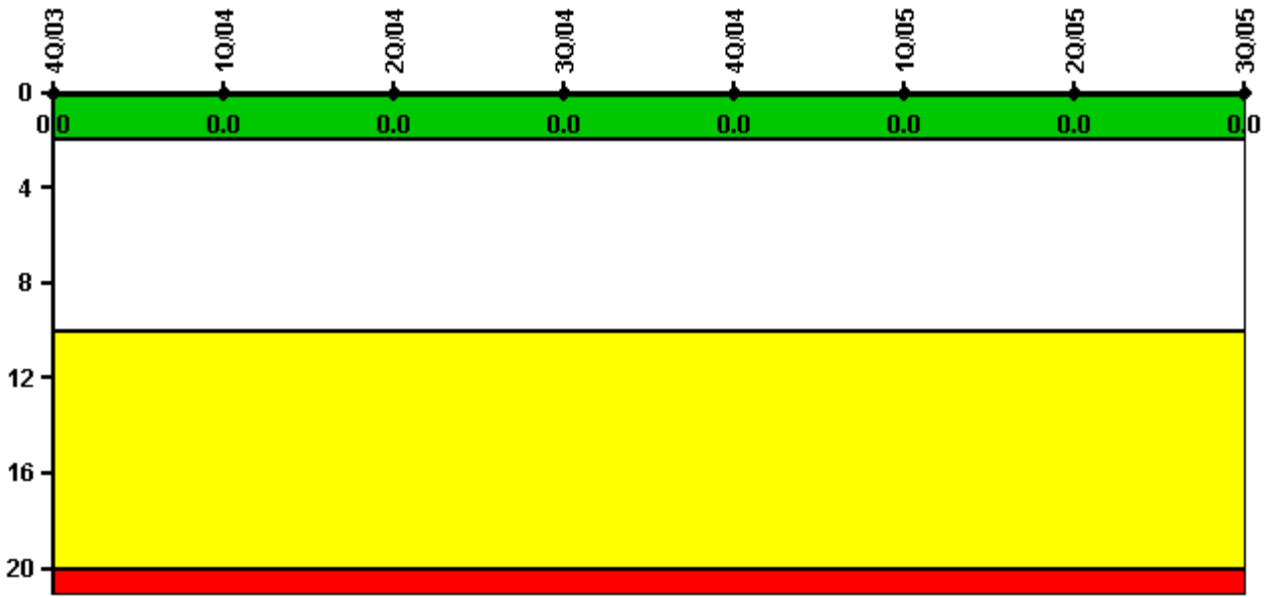
**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

#### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/03  | 1Q/04  | 2Q/04  | 3Q/04  | 4Q/04  | 1Q/05  | 2Q/05  | 3Q/05  |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Critical hours                         | 2209.0 | 1967.0 | 1989.1 | 2208.0 | 2209.0 | 2160.0 | 2183.0 | 2087.1 |
| Indicator value                        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



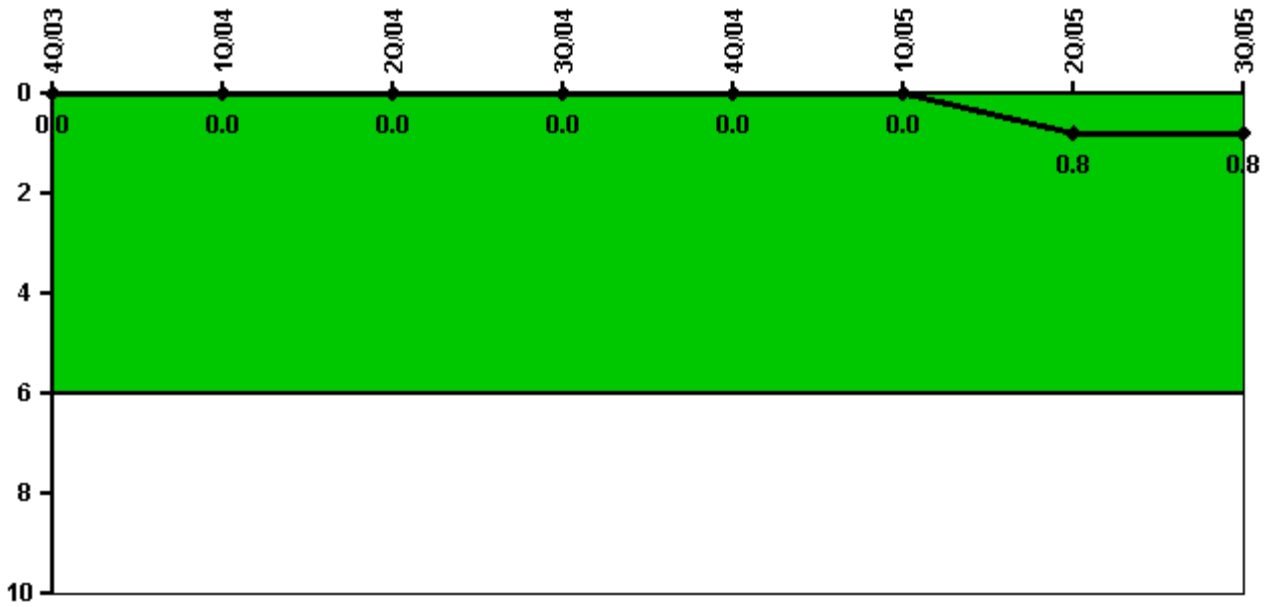
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

| Scrams with Loss of Normal Heat Removal | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 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



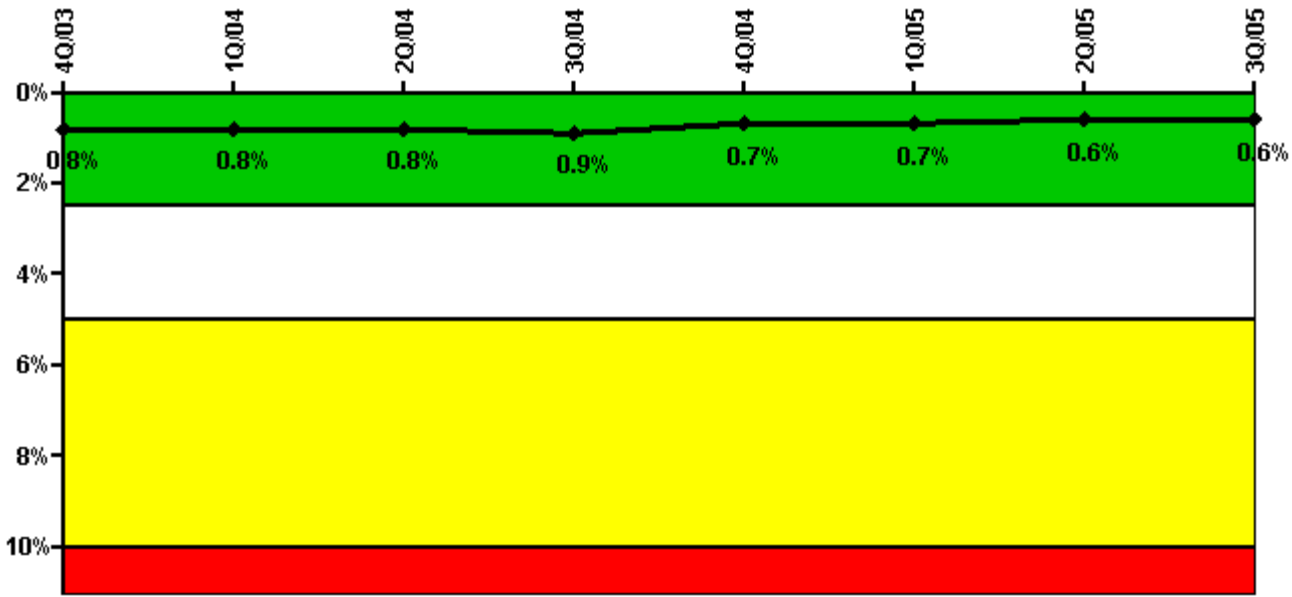
Thresholds: White > 6.0

#### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/03  | 1Q/04  | 2Q/04  | 3Q/04  | 4Q/04  | 1Q/05  | 2Q/05  | 3Q/05  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes                       | 0      | 0      | 0      | 0      | 0      | 0      | 1.0    | 0      |
| Critical hours                                | 2209.0 | 1967.0 | 1989.1 | 2208.0 | 2209.0 | 2160.0 | 2183.0 | 2087.1 |
| Indicator value                               | 0      | 0      | 0      | 0      | 0      | 0      | 0.8    | 0.8    |

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power



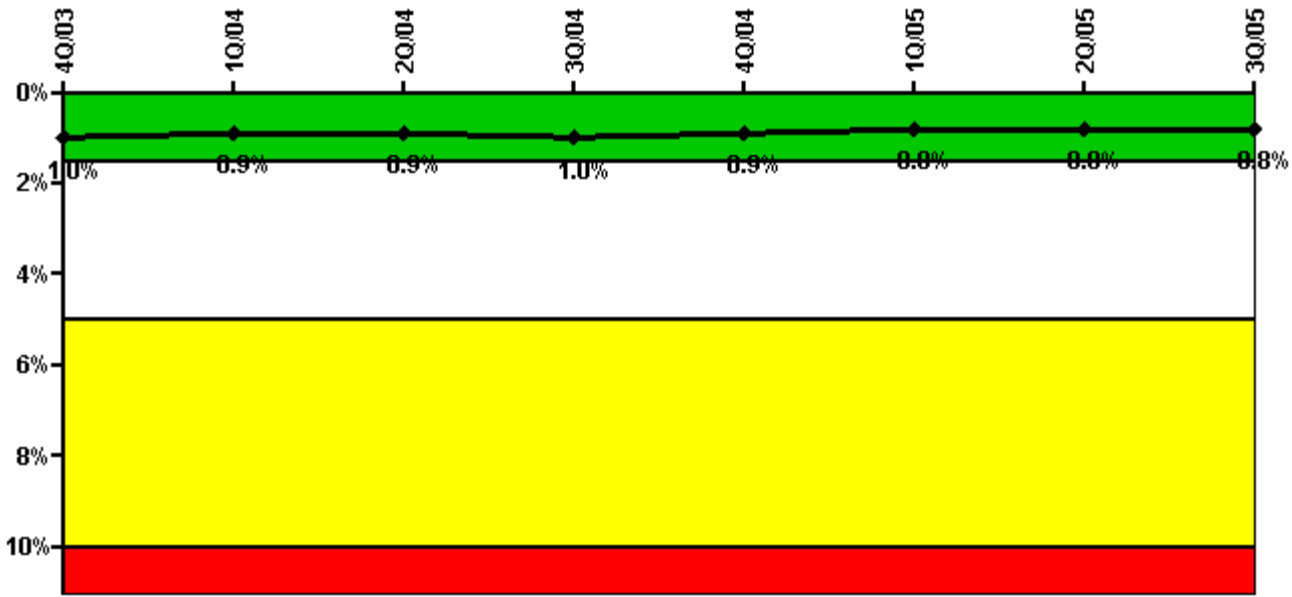
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

#### Notes

| Safety System Unavailability, Emergency AC Power | 4Q/03       | 1Q/04       | 2Q/04       | 3Q/04       | 4Q/04       | 1Q/05       | 2Q/05       | 3Q/05       |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>                                   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                        | 1.50        | 6.20        | 2.20        | 22.40       | 1.80        | 4.00        | 1.80        | 3.30        |
| Unplanned unavailable hours                      | 0           | 0           | 0           | 0           | 0           | 0           | 5.20        | 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                                   | 2209.00     | 2184.00     | 2183.00     | 2208.00     | 2209.00     | 2160.00     | 2183.00     | 2208.00     |
| <b>Train 2</b>                                   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                        | 2.90        | 1.80        | 17.40       | 1.80        | 41.00       | 2.30        | 3.70        | 1.40        |
| Unplanned unavailable hours                      | 0           | 0           | 0           | 25.10       | 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                                   | 2209.00     | 2184.00     | 2183.00     | 2208.00     | 2209.00     | 2160.00     | 2183.00     | 2208.00     |
| <b>Indicator value</b>                           | <b>0.8%</b> | <b>0.8%</b> | <b>0.8%</b> | <b>0.9%</b> | <b>0.7%</b> | <b>0.7%</b> | <b>0.6%</b> | <b>0.6%</b> |

Licensee Comments: none

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



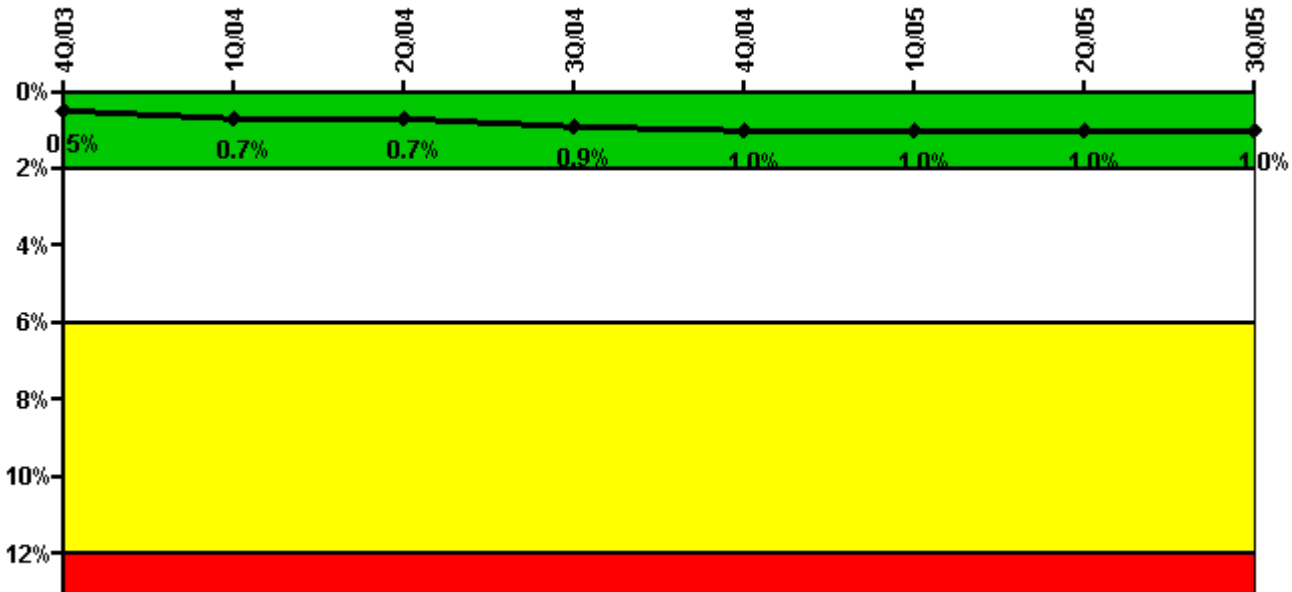
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

| Safety System Unavailability, High Pressure Injection System (HPSI) | 4Q/03       | 1Q/04       | 2Q/04       | 3Q/04       | 4Q/04       | 1Q/05       | 2Q/05       | 3Q/05       |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours   | 23.40       | 5.30        | 2.20        | 42.60       | 1.80        | 3.30        | 1.90        | 3.30        |
| Unplanned unavailable hours   | 3.70        | 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  | 2209.00     | 1967.02     | 1989.13     | 2208.00     | 2209.00     | 2160.00     | 2183.00     | 2087.05     |
| <b>Train 2</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours   | 2.90        | 1.80        | 2.90        | 4.90        | 4.50        | 1.50        | 3.70        | 1.40        |
| 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  | 2209.00     | 1967.02     | 1989.13     | 2208.00     | 2209.00     | 2160.00     | 2183.00     | 2087.05     |
| <b>Train 3</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours   | 1.50        | 5.30        | 47.90       | 3.10        | 1.80        | 3.30        | 17.70       | 3.30        |
| 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  | 2209.00     | 1967.02     | 1989.13     | 2208.00     | 2209.00     | 2160.00     | 2183.00     | 2087.05     |
| <b>Train 4</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours   | 24.60       | 1.80        | 16.60       | 45.50       | 3.50        | 1.50        | 22.70       | 1.50        |
| 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  | 2209.00     | 1967.02     | 1989.13     | 2208.00     | 2209.00     | 2160.00     | 2183.00     | 2087.05     |
| <b>Indicator value</b>  | <b>1.0%</b> | <b>0.9%</b> | <b>0.9%</b> | <b>1.0%</b> | <b>0.9%</b> | <b>0.8%</b> | <b>0.8%</b> | <b>0.8%</b> |

Licensee Comments: none

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



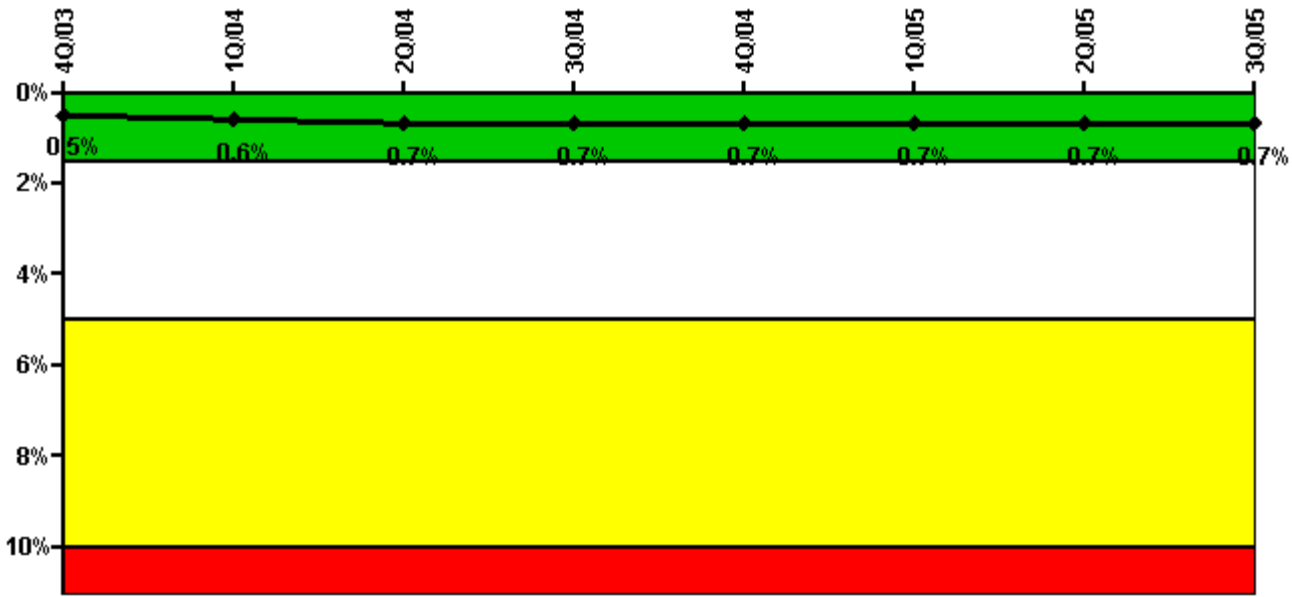
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

### Notes

| Safety System Unavailability, Heat Removal System (AFW) | 4Q/03       | 1Q/04       | 2Q/04       | 3Q/04       | 4Q/04       | 1Q/05       | 2Q/05       | 3Q/05       |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours                               | 3.30        | 6.90        | 4.10        | 5.80        | 18.60       | 4.90        | 4.00        | 4.60        |
| 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  | 2209.00     | 1967.02     | 1989.13     | 2208.00     | 2209.00     | 2160.00     | 2183.00     | 2087.05     |
| <b>Train 2</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours                               | 11.10       | 42.60       | 4.90        | 56.30       | 5.20        | 3.80        | 40.30       | 3.10        |
| Unplanned unavailable hours                             | 25.60       | 57.90       | 0           | 66.80       | 0           | 25.50       | 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  | 2209.00     | 1967.02     | 1989.13     | 2208.00     | 2209.00     | 2160.00     | 2183.00     | 2087.05     |
| <b>Indicator value</b>                                  | <b>0.5%</b> | <b>0.7%</b> | <b>0.7%</b> | <b>0.9%</b> | <b>1.0%</b> | <b>1.0%</b> | <b>1.0%</b> | <b>1.0%</b> |

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



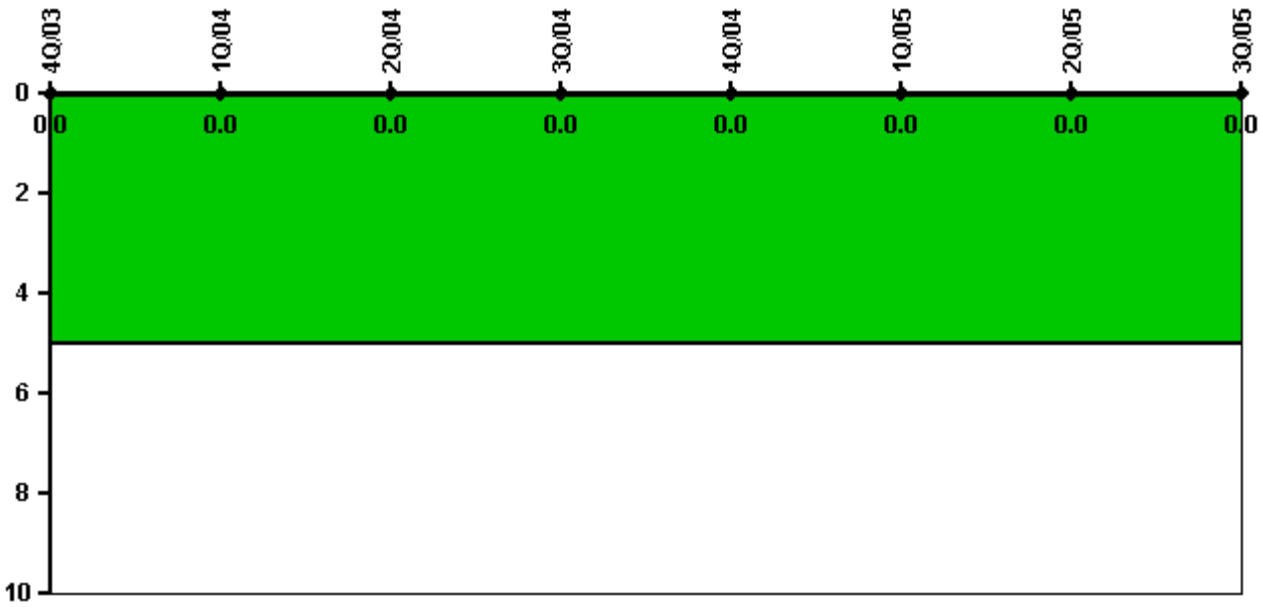
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

| Safety System Unavailability, Residual Heat Removal System | 4Q/03       | 1Q/04       | 2Q/04       | 3Q/04       | 4Q/04       | 1Q/05       | 2Q/05       | 3Q/05       |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                                  | 1.60        | 9.50        | 3.30        | 3.10        | 1.90        | 3.30        | 21.80       | 3.50        |
| 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   | 2209.00     | 2184.00     | 2183.00     | 2208.00     | 2209.00     | 2160.00     | 2183.00     | 2208.00     |
| <b>Train 2</b>   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                                  | 44.20       | 46.40       | 30.90       | 7.20        | 7.30        | 5.30        | 30.00       | 6.60        |
| 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   | 2209.00     | 2184.00     | 2183.00     | 2208.00     | 2209.00     | 2160.00     | 2183.00     | 2208.00     |
| <b>Indicator value</b>                                     | <b>0.5%</b> | <b>0.6%</b> | <b>0.7%</b> | <b>0.7%</b> | <b>0.7%</b> | <b>0.7%</b> | <b>0.7%</b> | <b>0.7%</b> |

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

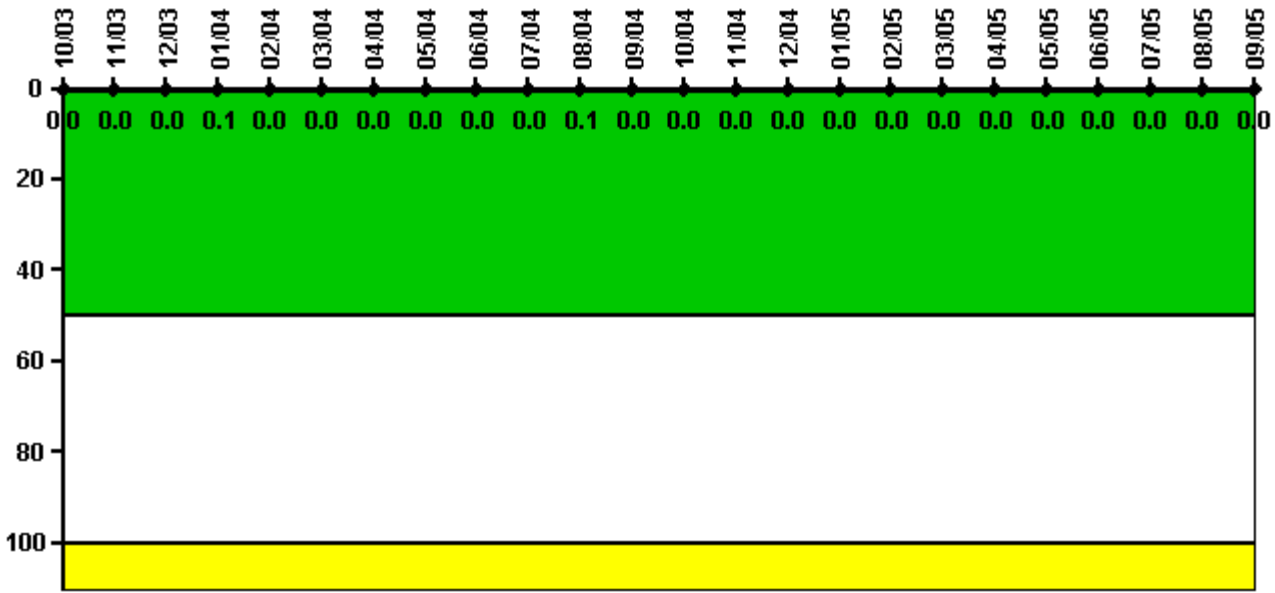
#### Notes

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



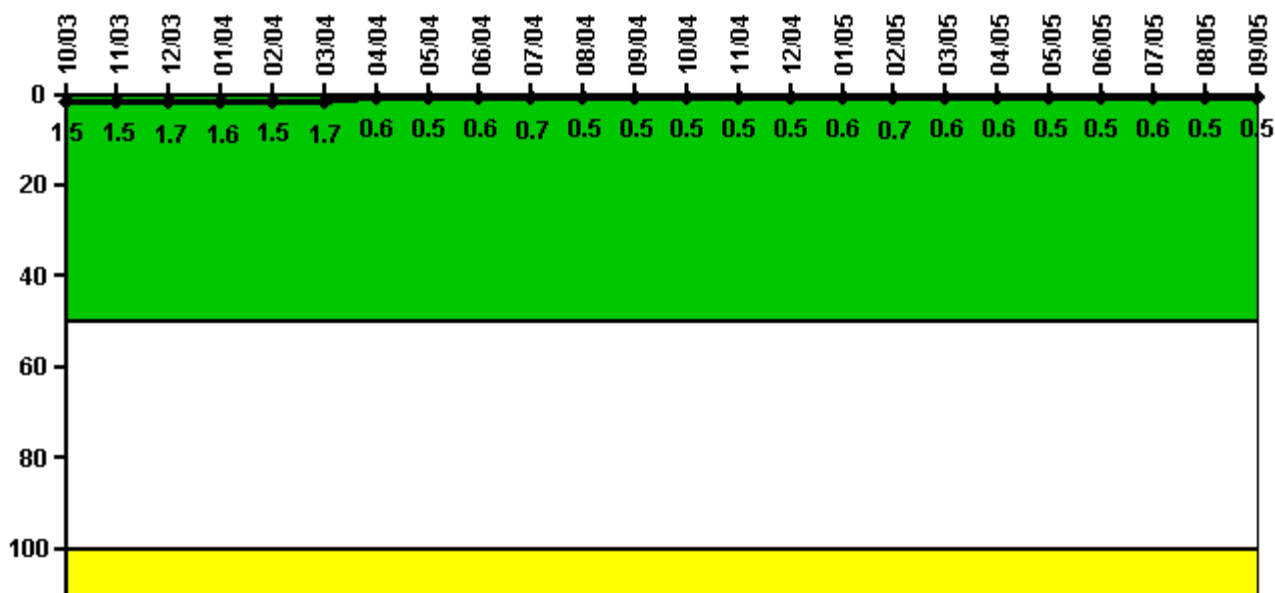
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

| Reactor Coolant System Activity | 10/03    | 11/03    | 12/03    | 1/04     | 2/04     | 3/04     | 4/04     | 5/04     | 6/04     | 7/04     | 8/04     | 9/04     |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.000012 | 0.000365 | 0.000399 | 0.001020 | 0.000380 | 0.000384 | 0.000220 | 0.000239 | 0.000245 | 0.000276 | 0.000541 | 0.000288 |
| 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        | 0        | 0        | 0        | 0        | 0        | 0.1      | 0        |
| Reactor Coolant System Activity | 10/04    | 11/04    | 12/04    | 1/05     | 2/05     | 3/05     | 4/05     | 5/05     | 6/05     | 7/05     | 8/05     | 9/05     |
| Maximum activity                | 0.000310 | 0.000332 | 0.000336 | 0.000341 | 0.000336 | 0.000355 | 0.000366 | 0.000363 | 0.000381 | 0.000372 | 0.000499 | 0.000419 |
| 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



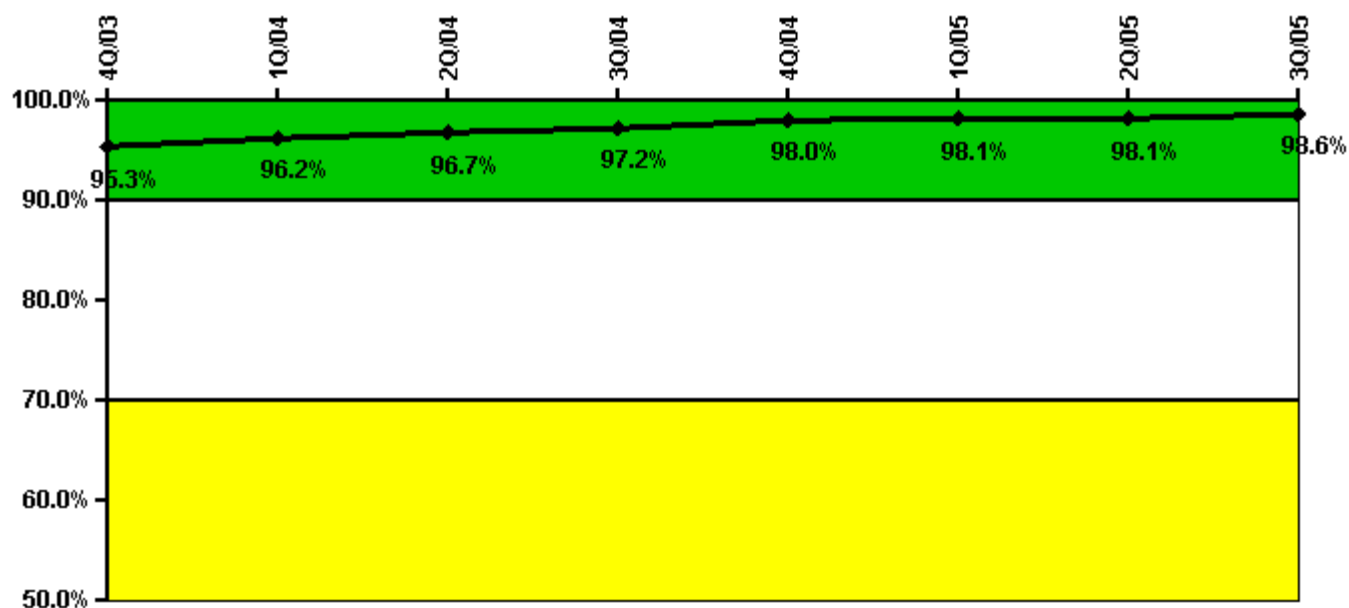
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

| Reactor Coolant System Leakage | 10/03 | 11/03 | 12/03 | 1/04  | 2/04  | 3/04  | 4/04  | 5/04  | 6/04  | 7/04  | 8/04  | 9/04  |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage                | 0.152 | 0.148 | 0.172 | 0.156 | 0.154 | 0.174 | 0.064 | 0.051 | 0.060 | 0.067 | 0.054 | 0.049 |
| 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                | 1.5   | 1.5   | 1.7   | 1.6   | 1.5   | 1.7   | 0.6   | 0.5   | 0.6   | 0.7   | 0.5   | 0.5   |
| Reactor Coolant System Leakage | 10/04 | 11/04 | 12/04 | 1/05  | 2/05  | 3/05  | 4/05  | 5/05  | 6/05  | 7/05  | 8/05  | 9/05  |
| Maximum leakage                | 0.054 | 0.049 | 0.049 | 0.057 | 0.065 | 0.060 | 0.064 | 0.053 | 0.053 | 0.063 | 0.052 | 0.054 |
| 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                | 0.5   | 0.5   | 0.5   | 0.6   | 0.7   | 0.6   | 0.6   | 0.5   | 0.5   | 0.6   | 0.5   | 0.5   |

Licensee Comments: none

### Drill/Exercise Performance



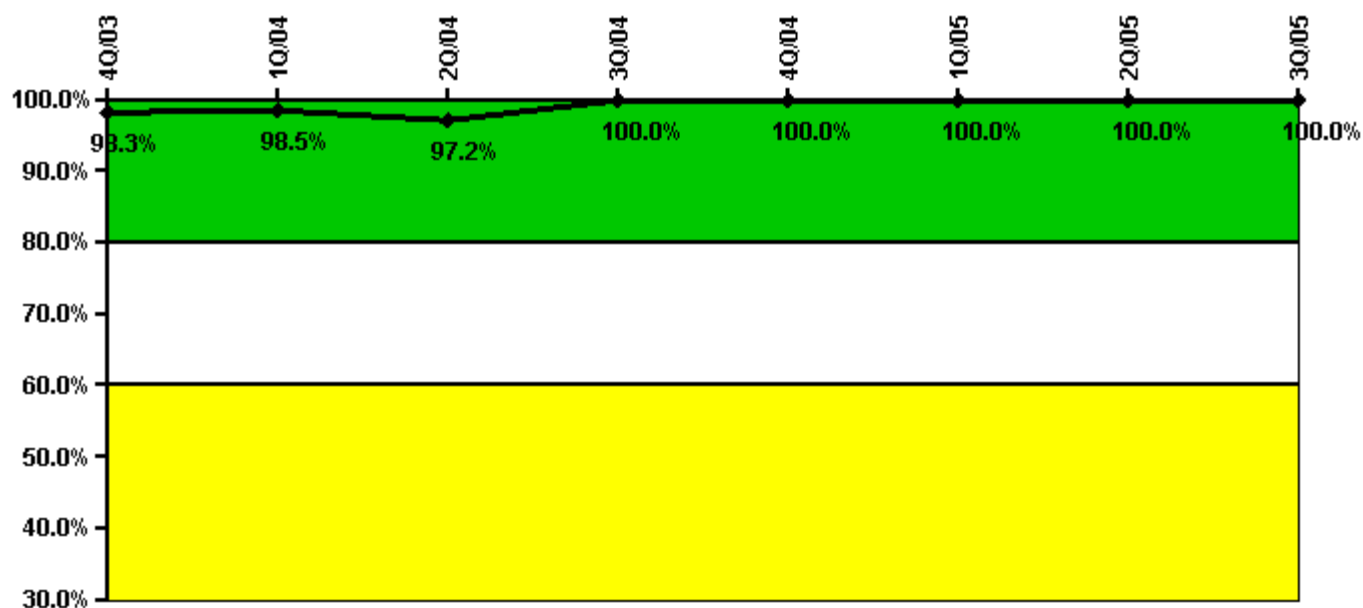
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

| Drill/Exercise Performance | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 18.0  | 50.0  | 62.0  | 93.0  | 4.0   | 8.0   | 81.0  | 30.0  |
| Total opportunities        | 18.0  | 50.0  | 62.0  | 94.0  | 4.0   | 9.0   | 84.0  | 30.0  |
| Indicator value            | 95.3% | 96.2% | 96.7% | 97.2% | 98.0% | 98.1% | 98.1% | 98.6% |

Licensee Comments: none

### ERO Drill Participation



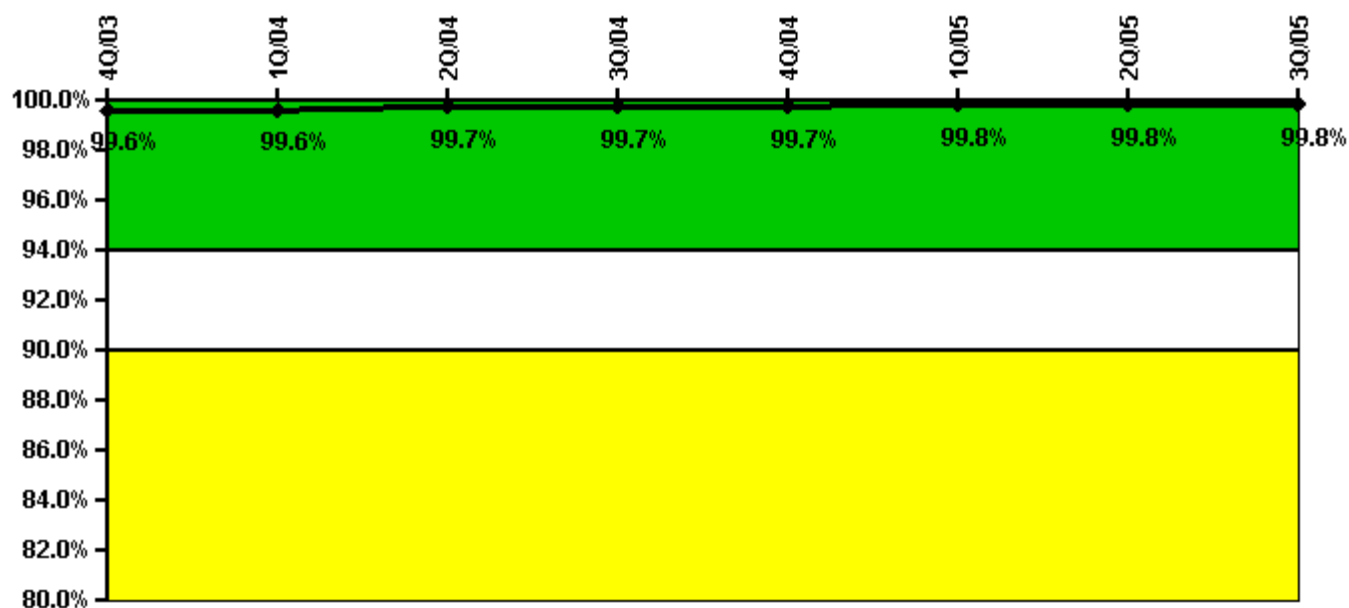
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

| ERO Drill Participation     | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04  | 4Q/04  | 1Q/05  | 2Q/05  | 3Q/05  |
|-----------------------------|-------|-------|-------|--------|--------|--------|--------|--------|
| Participating Key personnel | 57.0  | 67.0  | 70.0  | 76.0   | 74.0   | 75.0   | 71.0   | 76.0   |
| Total Key personnel         | 58.0  | 68.0  | 72.0  | 76.0   | 74.0   | 75.0   | 71.0   | 76.0   |
| Indicator value             | 98.3% | 98.5% | 97.2% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

Licensee Comments: none

### Alert & Notification System



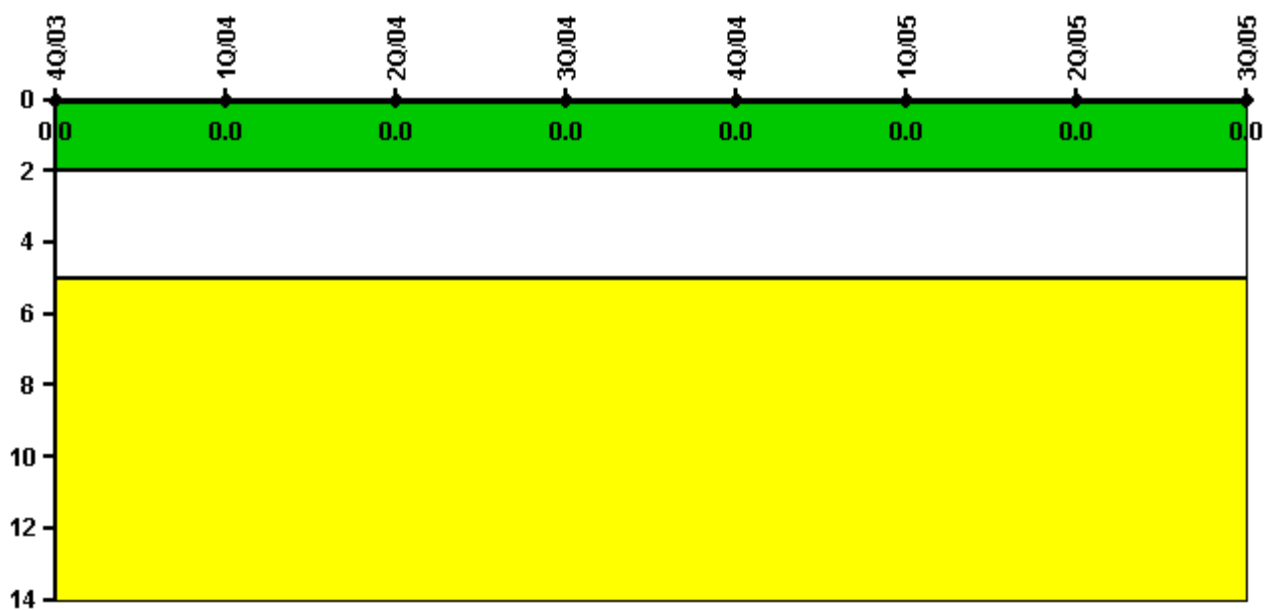
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

| Alert & Notification System | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests      | 5997  | 6000  | 5996  | 6093  | 6102  | 6004  | 6006  | 6005  |
| Total sirens-tests          | 6016  | 6016  | 6016  | 6110  | 6110  | 6016  | 6015  | 6014  |
| Indicator value             | 99.6% | 99.6% | 99.7% | 99.7% | 99.7% | 99.8% | 99.8% | 99.8% |

Licensee Comments: none

### Occupational Exposure Control Effectiveness



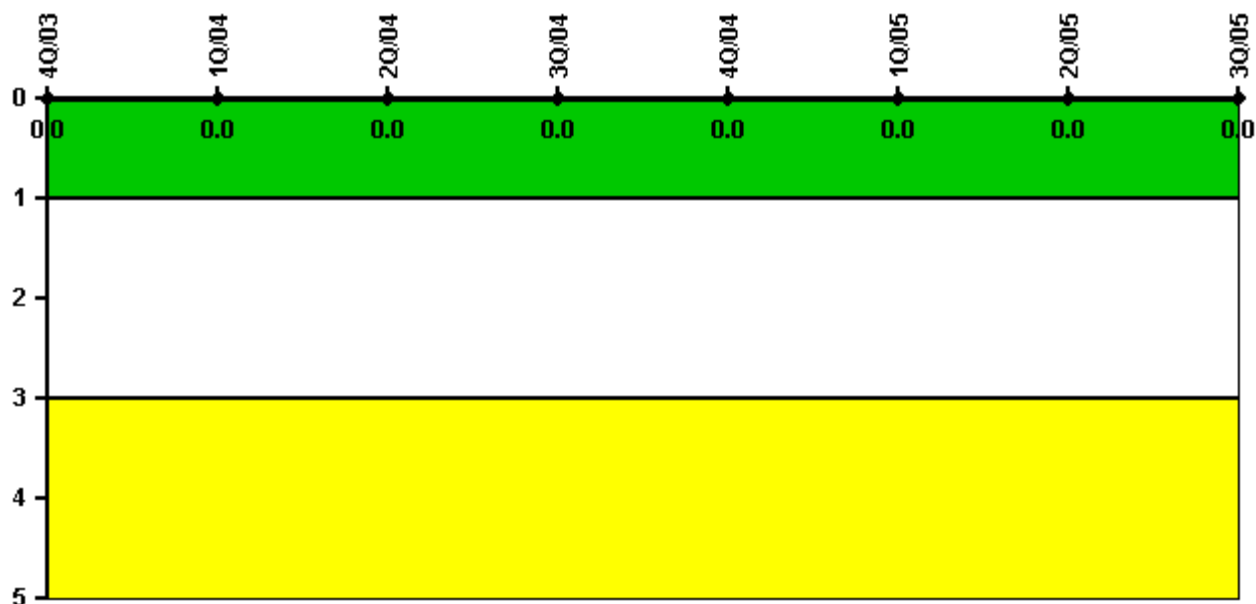
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

| Occupational Exposure Control Effectiveness | 4Q/03    | 1Q/04    | 2Q/04    | 3Q/04    | 4Q/04    | 1Q/05    | 2Q/05    | 3Q/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 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/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.