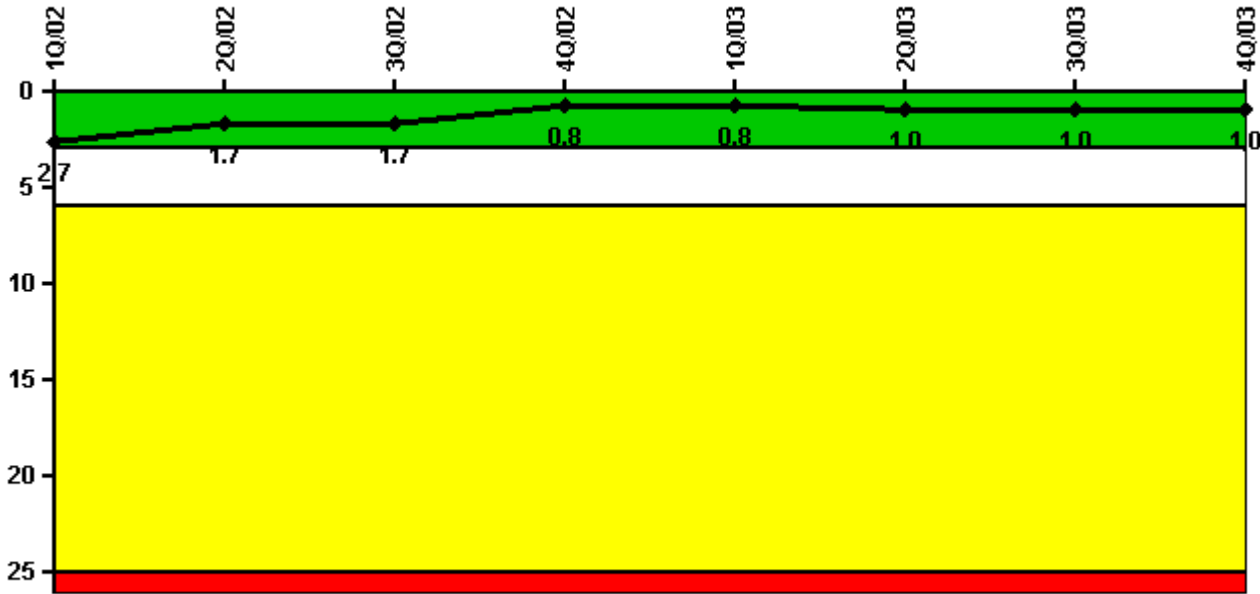


# Perry 1

## 4Q/2003 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



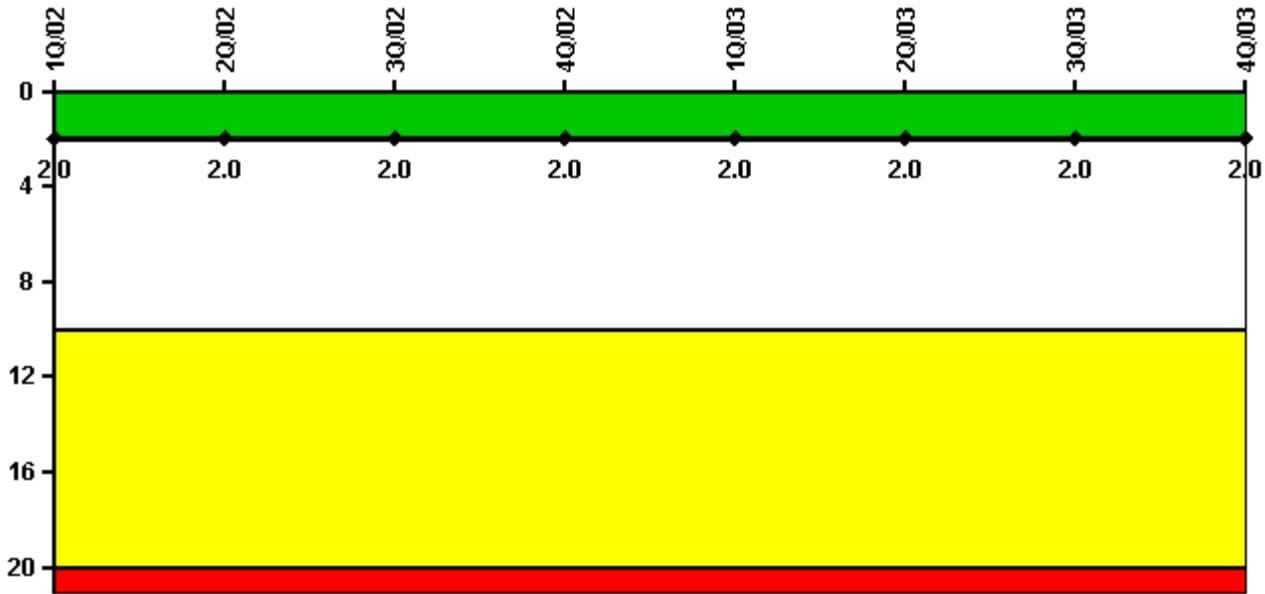
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/02  | 2Q/02  | 3Q/02  | 4Q/02  | 1Q/03  | 2Q/03 | 3Q/03  | 4Q/03  |
|--|--------|--------|--------|--------|--------|-------|--------|--------|
| Unplanned scrams                       | 0      | 0      | 1.0    | 0      | 0      | 0     | 1.0    | 0      |
| Critical hours                         | 2160.0 | 2026.0 | 1993.7 | 2138.6 | 2160.0 | 900.6 | 2071.6 | 2209.0 |
| Indicator value                        | 2.7    | 1.7    | 1.7    | 0.8    | 0.8    | 1.0   | 1.0    | 1.0    |

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



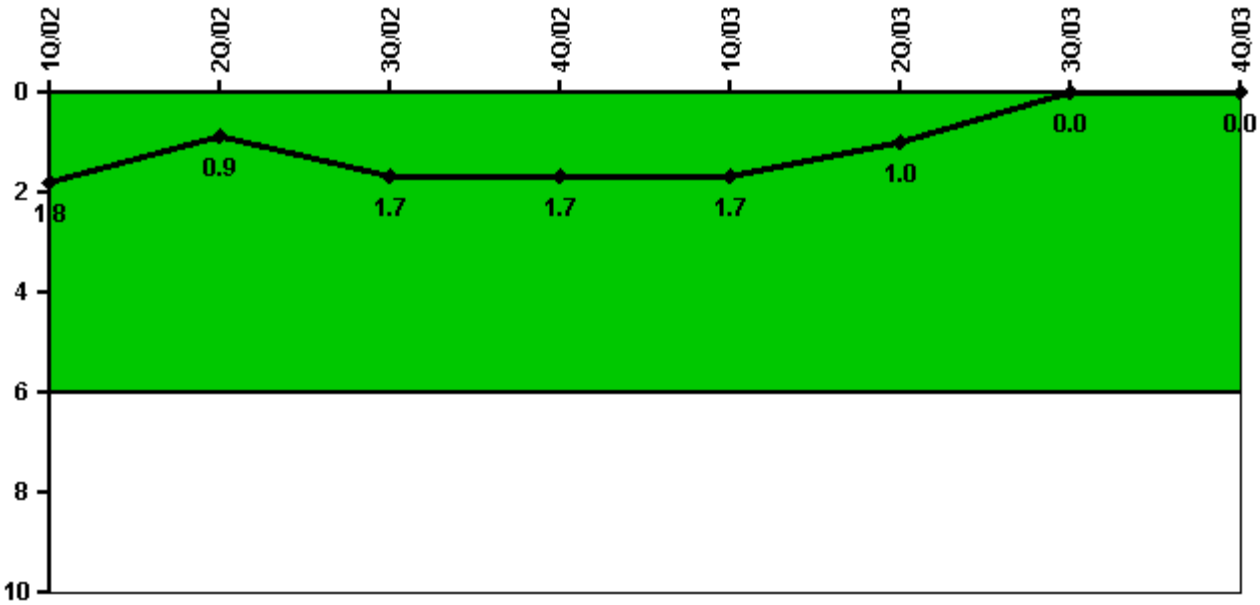
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

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

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



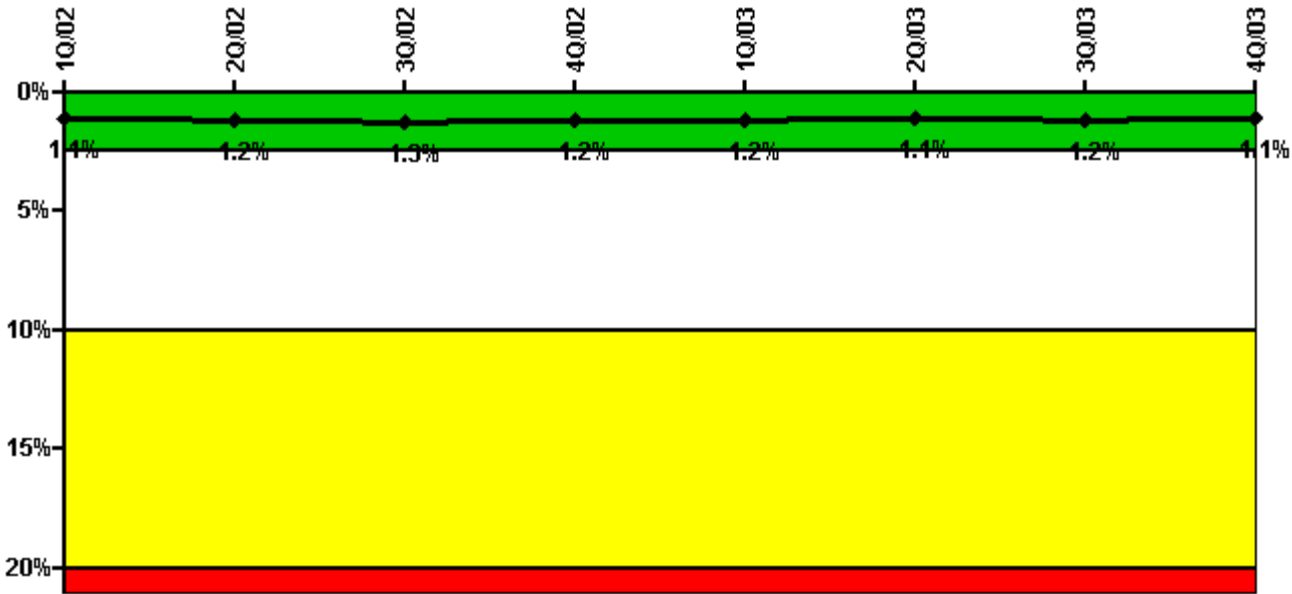
Thresholds: White > 6.0

#### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/02  | 2Q/02  | 3Q/02  | 4Q/02  | 1Q/03  | 2Q/03 | 3Q/03  | 4Q/03  |
|---|--------|--------|--------|--------|--------|-------|--------|--------|
| Unplanned power changes                       | 0      | 1.0    | 1.0    | 0      | 0      | 0     | 0      | 0      |
| Critical hours                                | 2160.0 | 2026.0 | 1993.7 | 2138.6 | 2160.0 | 900.6 | 2071.6 | 2209.0 |
|   |        |        |        |        |        |       |        |        |
| Indicator value                               | 1.8    | 0.9    | 1.7    | 1.7    | 1.7    | 1.0   | 0      | 0      |

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



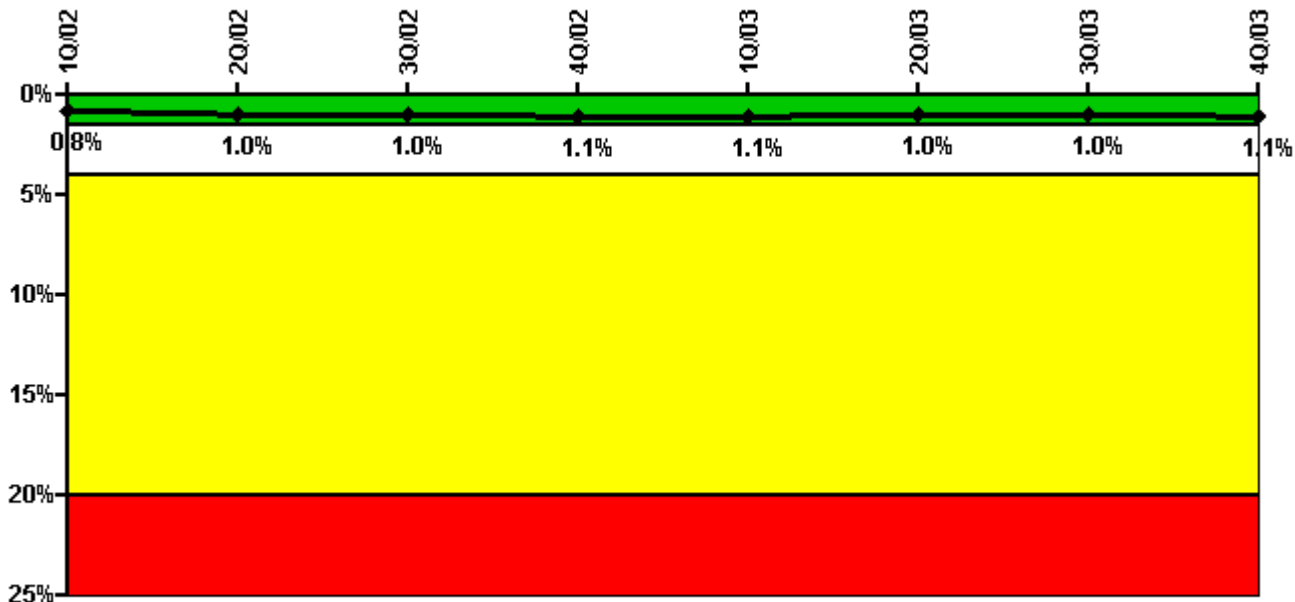
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

**Notes**

| Safety System Unavailability, Emergency AC Power, >2EDG | 1Q/02       | 2Q/02       | 3Q/02       | 4Q/02       | 1Q/03       | 2Q/03       | 3Q/03       | 4Q/03       |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours                               | 25.00       | 58.03       | 5.80        | 5.05        | 23.02       | 2.47        | 6.71        | 36.21       |
| Unplanned unavailable hours                             | 0           | 0           | 0           | 0           | 0           | 0           | 96.17       | 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     |
| <b>Train 2</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours                               | 6.74        | 20.78       | 4.69        | 23.47       | 6.13        | 3.84        | 38.04       | 9.98        |
| Unplanned unavailable hours                             | 0           | 0           | 65.71       | 45.82       | 0.17        | 0           | 44.07       | 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  | 2160.00     | 2183.00     | 2208.00     | 2209.00     | 2160.00     | 2183.00     | 2208.00     | 2209.00     |
| <b>Train 3</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours                               | 1.44        | 1.26        | 1.55        | 12.30       | 30.38       | 3.65        | 2.77        | 29.87       |
| 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     |
| <b>Indicator value</b>                                  | <b>1.1%</b> | <b>1.2%</b> | <b>1.3%</b> | <b>1.2%</b> | <b>1.2%</b> | <b>1.1%</b> | <b>1.2%</b> | <b>1.1%</b> |

Licensee Comments: none

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



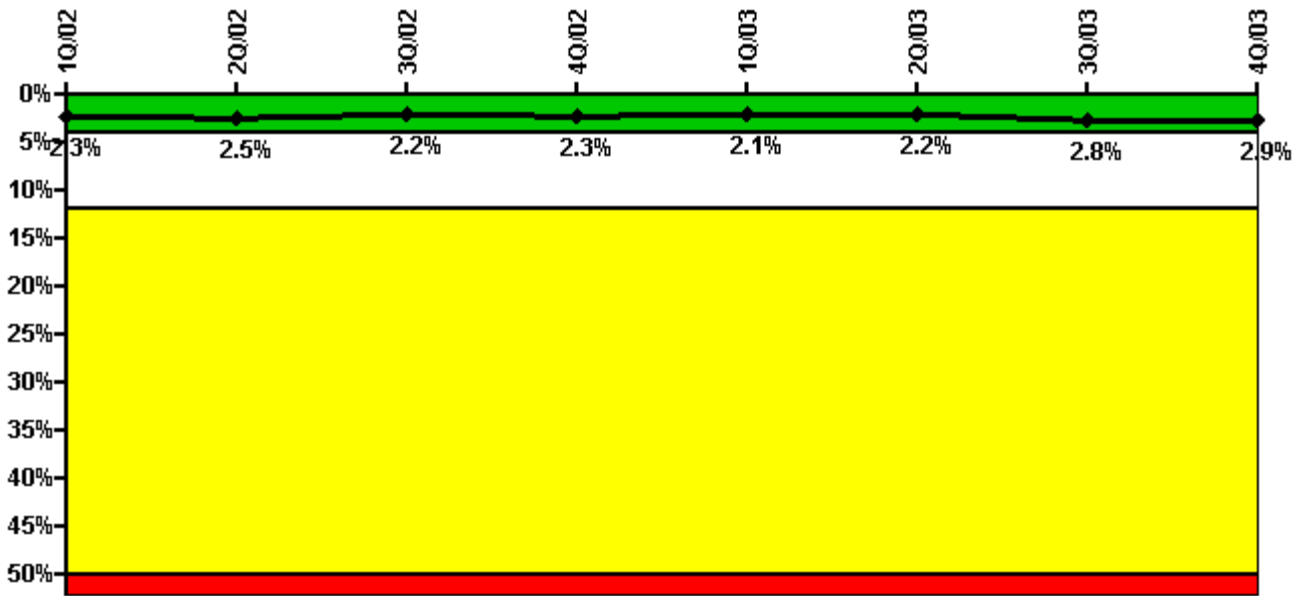
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

**Notes**

| Safety System Unavailability, High Pressure Injection System (HPCS) | 1Q/02   | 2Q/02   | 3Q/02   | 4Q/02   | 1Q/03   | 2Q/03  | 3Q/03   | 4Q/03   |
|---|---------|---------|---------|---------|---------|--------|---------|---------|
| Train 1   |         |         |         |         |         |        |         |         |
| Planned unavailable hours   | 45.10   | 97.85   | 4.12    | 1.20    | 16.83   | 2.22   | 3.45    | 25.14   |
| Unplanned unavailable hours   | 0       | 0       | 0       | 7.73    | 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  | 2160.00 | 2026.00 | 1993.68 | 2138.60 | 2160.00 | 900.60 | 2071.60 | 2209.00 |
| Indicator value   | 0.8%    | 1.0%    | 1.0%    | 1.1%    | 1.1%    | 1.0%   | 1.0%    | 1.1%    |

Licensee Comments: none

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



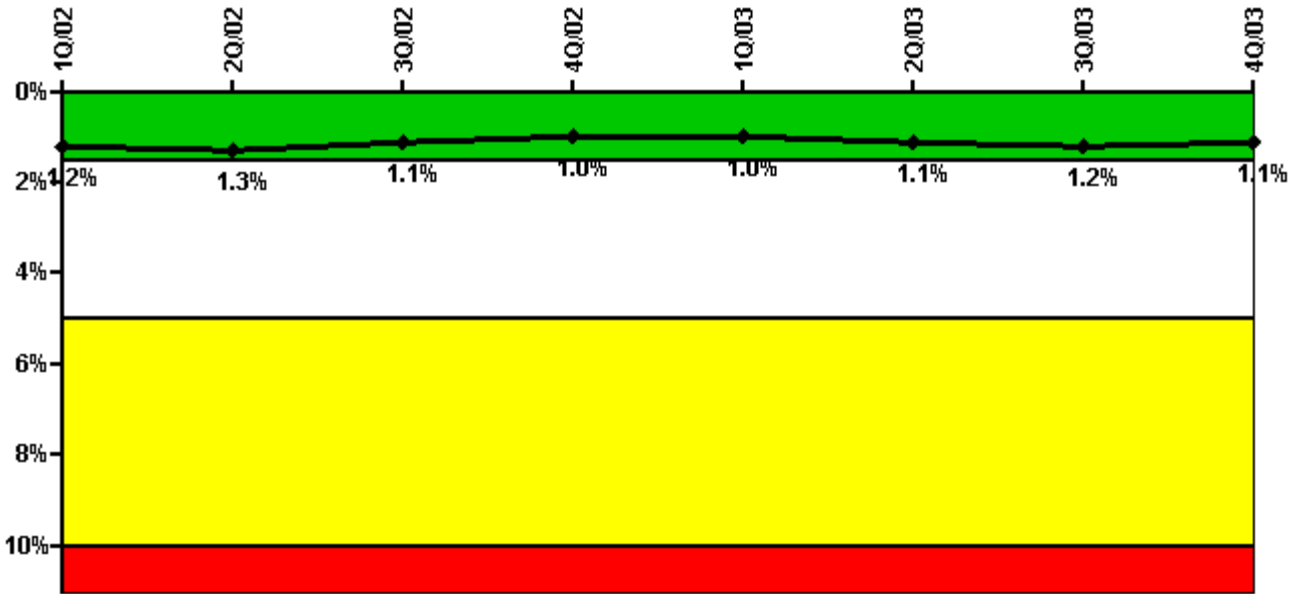
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

**Notes**

| Safety System Unavailability, Heat Removal System (RCIC) | 1Q/02   | 2Q/02   | 3Q/02   | 4Q/02   | 1Q/03   | 2Q/03  | 3Q/03   | 4Q/03   |
|--|---------|---------|---------|---------|---------|--------|---------|---------|
| Train 1  |         |         |         |         |         |        |         |         |
| Planned unavailable hours                                | 114.70  | 68.58   | 3.20    | 19.29   | 33.05   | 34.05  | 60.61   | 53.76   |
| Unplanned unavailable hours                              | 0       | 0       | 0       | 0       | 0       | 0      | 119.05  | 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 | 2026.00 | 1993.68 | 2138.60 | 2160.00 | 900.60 | 2071.60 | 2209.00 |
|  |         |         |         |         |         |        |         |         |
| Indicator value  | 2.3%    | 2.5%    | 2.2%    | 2.3%    | 2.1%    | 2.2%   | 2.8%    | 2.9%    |

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



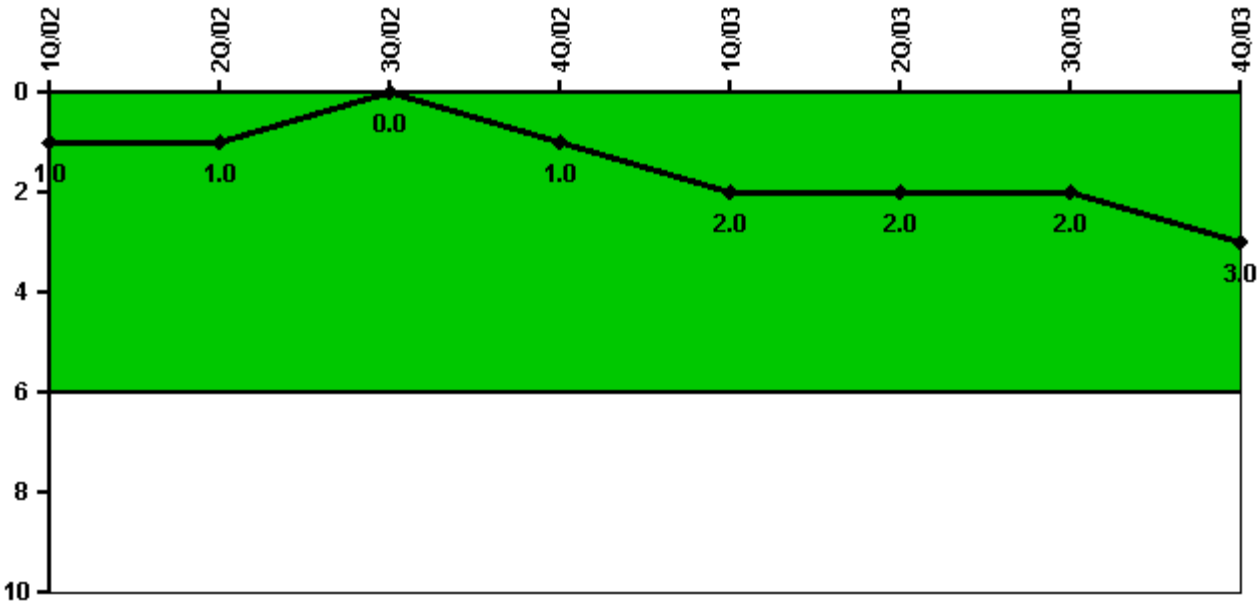
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Residual Heat Removal System | 1Q/02   | 2Q/02   | 3Q/02   | 4Q/02   | 1Q/03   | 2Q/03   | 3Q/03   | 4Q/03   |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Train 1</b>   |         |         |         |         |         |         |         |         |
| Planned unavailable hours                                  | 1.38    | 77.22   | 3.24    | 0       | 37.72   | 30.08   | 5.98    | 50.79   |
| Unplanned unavailable hours                                | 0       | 0       | 17.63   | 0       | 0       | 0       | 116.59  | 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 |
| <b>Train 2</b>   |         |         |         |         |         |         |         |         |
| Planned unavailable hours                                  | 0       | 0       | 0.55    | 75.35   | 3.59    | 0.43    | 32.21   | 0.92    |
| Unplanned unavailable hours                                | 0       | 0       | 0       | 0       | 0.17    | 0       | 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   | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
|  |         |         |         |         |         |         |         |         |
| Indicator value  | 1.2%    | 1.3%    | 1.1%    | 1.0%    | 1.0%    | 1.1%    | 1.2%    | 1.1%    |

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

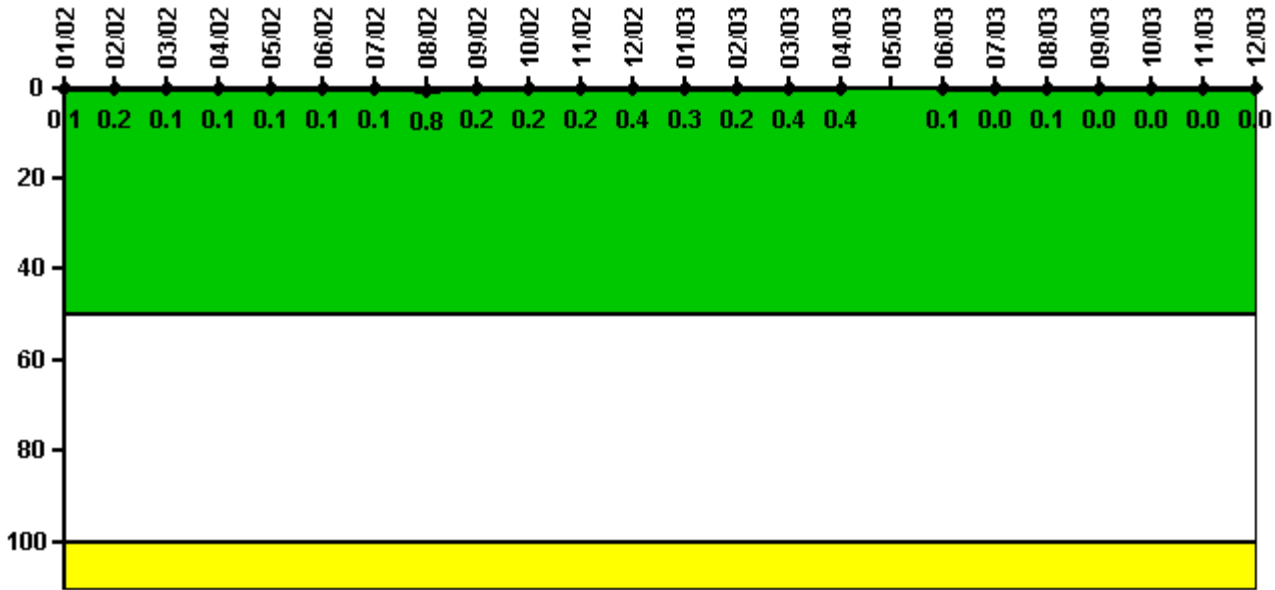
#### Notes

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

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

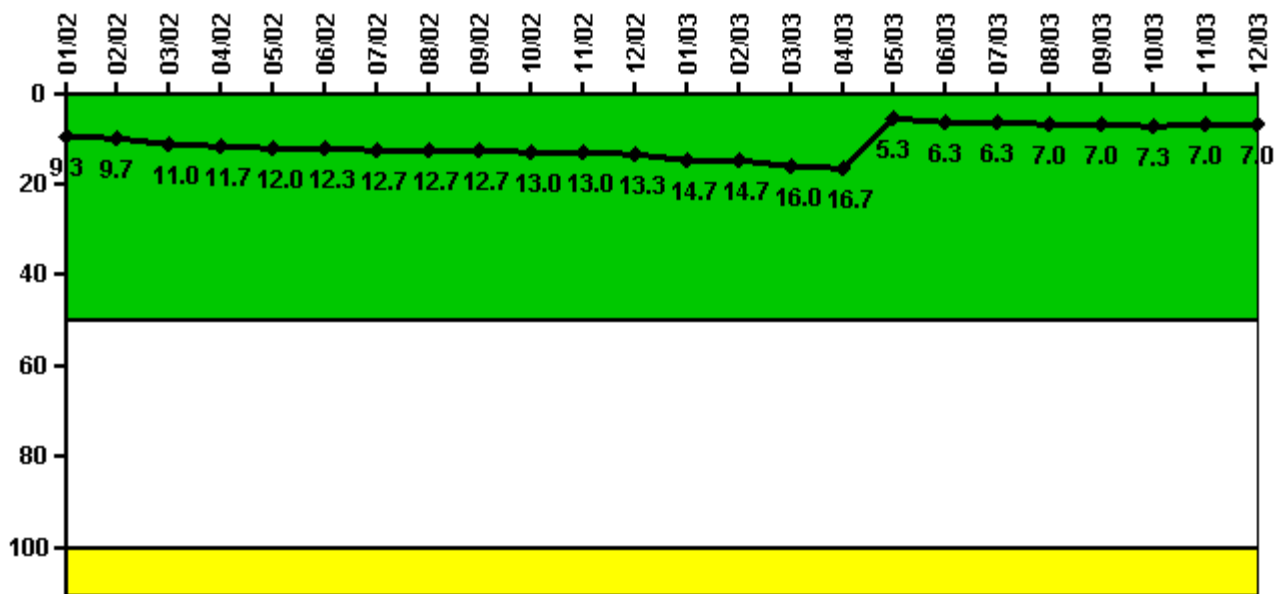
| Reactor Coolant System Activity | 1/02     | 2/02     | 3/02     | 4/02     | 5/02     | 6/02     | 7/02     | 8/02     | 9/02     | 10/02    | 11/02    | 12/02    |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.000285 | 0.000315 | 0.000214 | 0.000218 | 0.000241 | 0.000155 | 0.000158 | 0.001530 | 0.000397 | 0.000460 | 0.000438 | 0.000823 |
| Technical specification limit   | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      |
| Indicator value                 | 0.1      | 0.2      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.8      | 0.2      | 0.2      | 0.2      | 0.4      |

| Reactor Coolant System Activity | 1/03     | 2/03     | 3/03     | 4/03     | 5/03 | 6/03     | 7/03     | 8/03     | 9/03     | 10/03    | 11/03    | 12/03    |
|---------------------------------|----------|----------|----------|----------|------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.000525 | 0.000497 | 0.000766 | 0.000734 | N/A  | 0.000109 | 0.000090 | 0.000124 | 0.000067 | 0.000059 | 0.000066 | 0.000087 |
| Technical specification limit   | 0.2      | 0.2      | 0.2      | 0.2      | 0.2  | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      |
| Indicator value                 | 0.3      | 0.2      | 0.4      | 0.4      | N/A  | 0.1      | 0        | 0.1      | 0        | 0        | 0        | 0        |

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

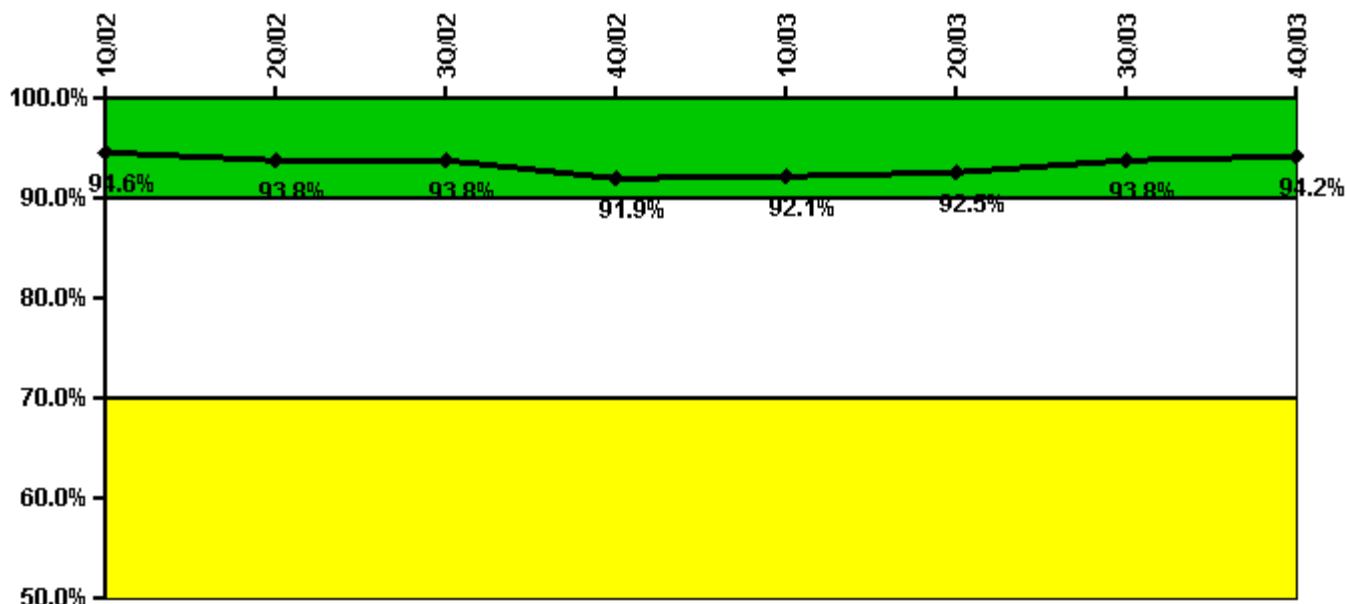
| Reactor Coolant System Leakage | 1/02  | 2/02  | 3/02  | 4/02  | 5/02  | 6/02  | 7/02  | 8/02  | 9/02  | 10/02 | 11/02 | 12/02 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage                | 2.800 | 2.900 | 3.300 | 3.500 | 3.600 | 3.700 | 3.800 | 3.800 | 3.800 | 3.900 | 3.900 | 4.000 |
| Technical specification limit  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Indicator value                | 9.3   | 9.7   | 11.0  | 11.7  | 12.0  | 12.3  | 12.7  | 12.7  | 12.7  | 13.0  | 13.0  | 13.3  |

| Reactor Coolant System Leakage | 1/03  | 2/03  | 3/03  | 4/03  | 5/03  | 6/03  | 7/03  | 8/03  | 9/03  | 10/03 | 11/03 | 12/03 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage                | 4.400 | 4.400 | 4.800 | 5.000 | 1.600 | 1.900 | 1.900 | 2.100 | 2.100 | 2.200 | 2.100 | 2.100 |
| Technical specification limit  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Indicator value                | 14.7  | 14.7  | 16.0  | 16.7  | 5.3   | 6.3   | 6.3   | 7.0   | 7.0   | 7.3   | 7.0   | 7.0   |

Licensee Comments: none

### Drill/Exercise Performance



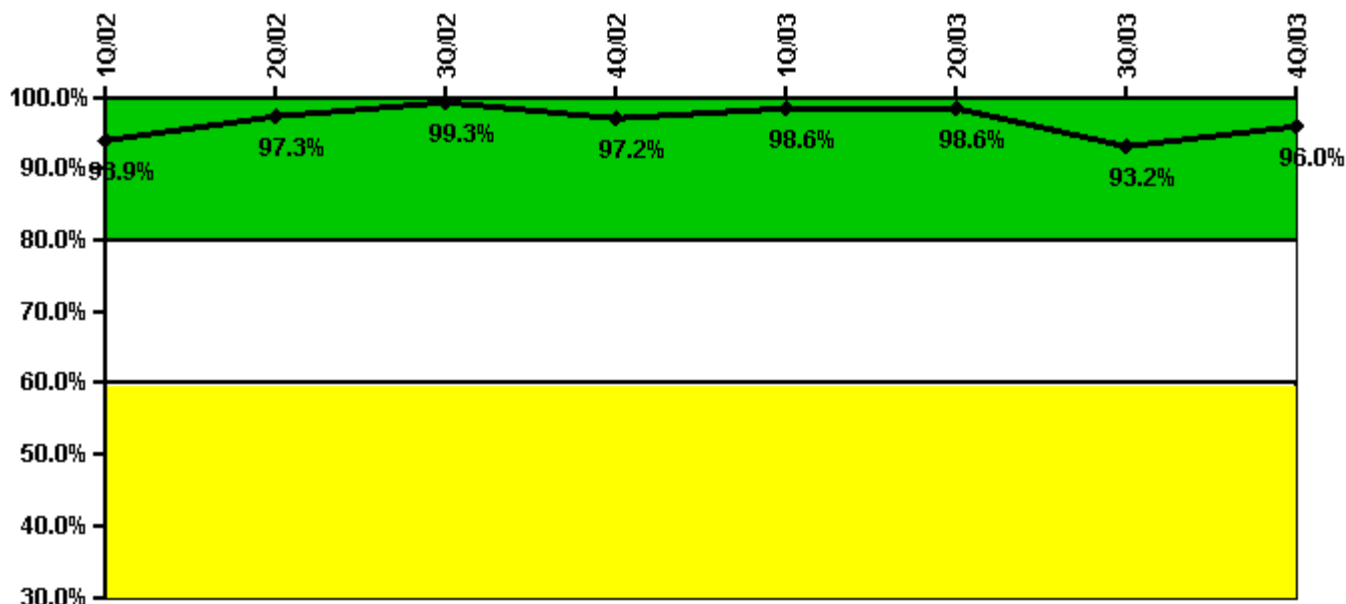
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

| Drill/Exercise Performance | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 20.0  | 39.0  | 16.0  | 21.0  | 17.0  | 10.0  | 2.0   | 38.0  |
| Total opportunities        | 20.0  | 42.0  | 18.0  | 24.0  | 18.0  | 11.0  | 2.0   | 38.0  |
|                            |       |       |       |       |       |       |       |       |
| Indicator value            | 94.6% | 93.8% | 93.8% | 91.9% | 92.1% | 92.5% | 93.8% | 94.2% |

Licensee Comments: none

### ERO Drill Participation



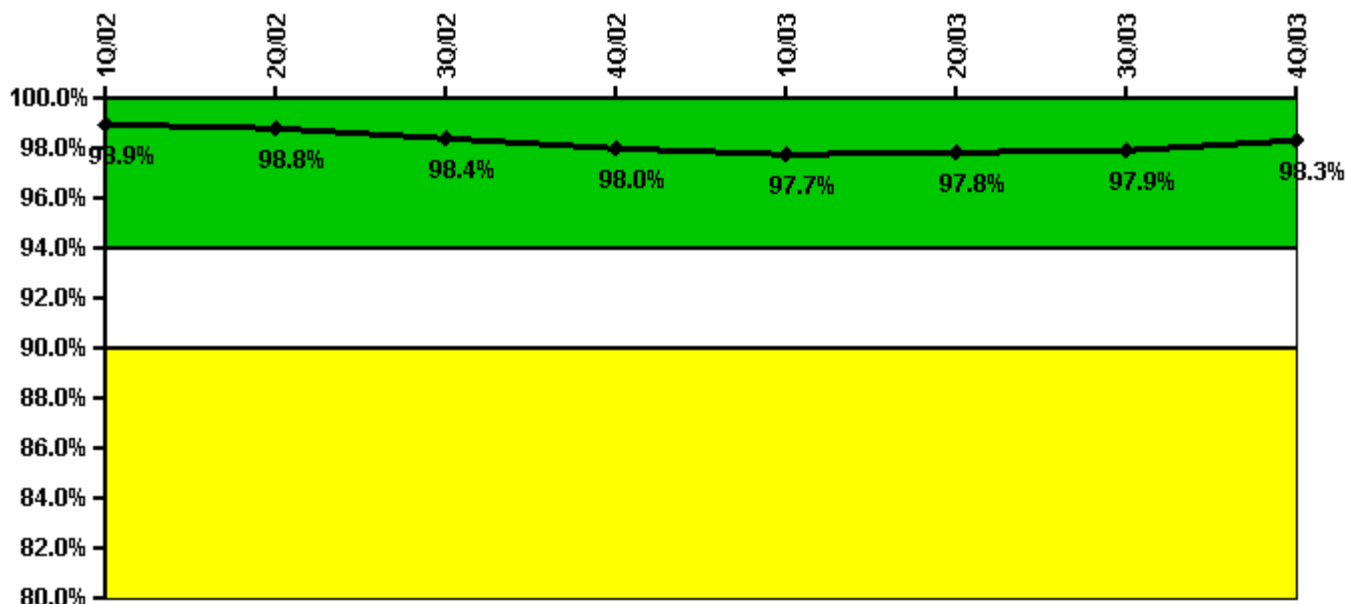
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

| ERO Drill Participation     | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Participating Key personnel | 139.0 | 144.0 | 144.0 | 140.0 | 144.0 | 137.0 | 137.0 | 144.0 |
| Total Key personnel         | 148.0 | 148.0 | 145.0 | 144.0 | 146.0 | 139.0 | 147.0 | 150.0 |
|                             |       |       |       |       |       |       |       |       |
| Indicator value             | 93.9% | 97.3% | 99.3% | 97.2% | 98.6% | 98.6% | 93.2% | 96.0% |

Licensee Comments: none

### Alert & Notification System



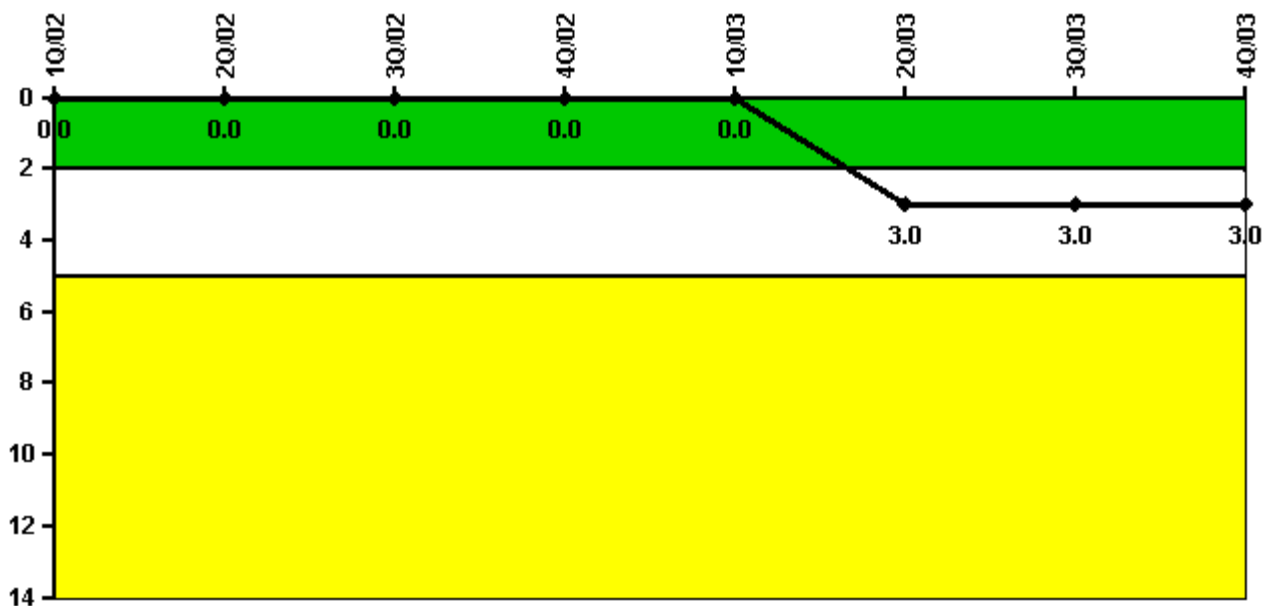
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

| Alert & Notification System | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests      | 526   | 519   | 596   | 445   | 594   | 520   | 525   | 452   |
| Total sirens-tests          | 532   | 532   | 608   | 456   | 608   | 532   | 532   | 456   |
|                             |       |       |       |       |       |       |       |       |
| Indicator value             | 98.9% | 98.8% | 98.4% | 98.0% | 97.7% | 97.8% | 97.9% | 98.3% |

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

| Occupational Exposure Control Effectiveness | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| High radiation area occurrences             | 0     | 0     | 0     | 0     | 0     | 1     | 0     | 0     |
| Very high radiation area occurrences        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Unintended exposure occurrences             | 0     | 0     | 0     | 0     | 0     | 2     | 0     | 0     |
| Indicator value                             | 0     | 0     | 0     | 0     | 0     | 3     | 3     | 3     |

Licensee Comments: none

### RETS/ODCM Radiological Effluent



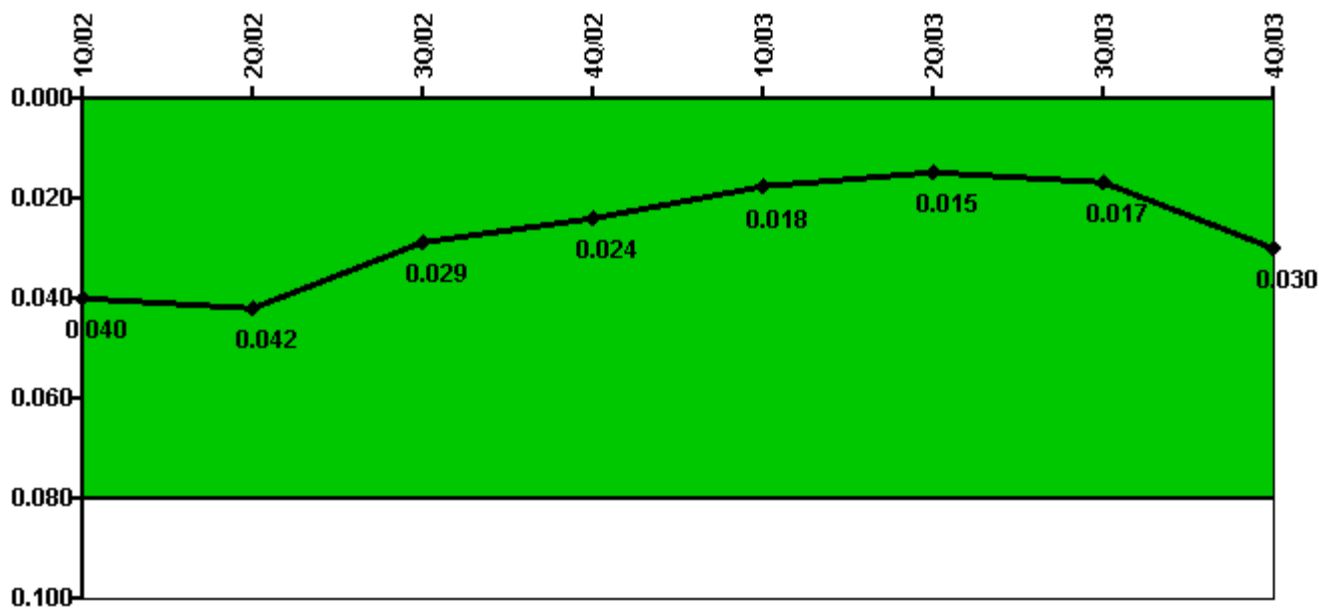
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

| RETS/ODCM Radiological Effluent | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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/02  | 2Q/02  | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03  | 3Q/03 | 4Q/03  |
|---|--------|--------|-------|-------|-------|--------|-------|--------|
| IDS compensatory hours                    | 149.40 | 219.40 | 18.50 | 12.40 | 49.50 | 165.70 | 64.60 | 216.70 |
| CCTV compensatory hours                   | 17.3   | 12.7   | 26.9  | 4.4   | 5.2   | 1.0    | 18.8  | 52.1   |
| IDS normalization factor                  | 1.10   | 1.10   | 1.10  | 1.10  | 1.10  | 1.10   | 1.10  | 1.10   |
| CCTV normalization factor                 | 1.0    | 1.0    | 1.0   | 1.0   | 1.0   | 1.0    | 1.0   | 1.0    |
| Index Value                               | 0.040  | 0.042  | 0.029 | 0.024 | 0.018 | 0.015  | 0.017 | 0.030  |

Licensee Comments: none



### Personnel Screening Program



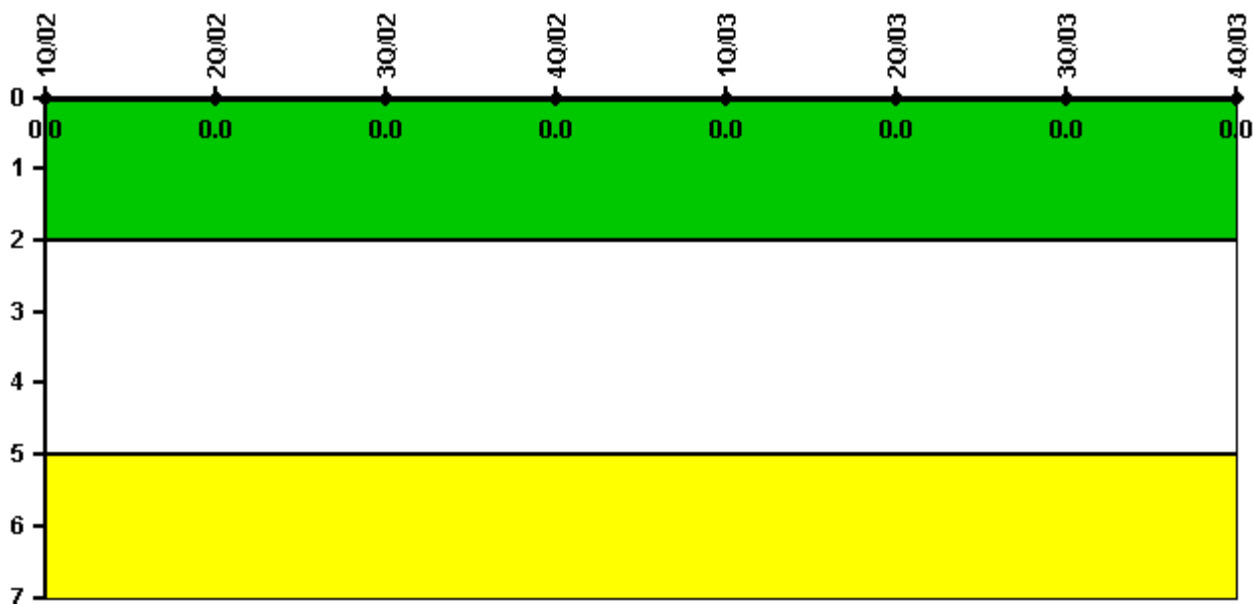
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

| Personnel Screening Program | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Program failures            | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
|                             |       |       |       |       |       |       |       |       |
| Indicator value             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |

Licensee Comments: none

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

| FFD/Personnel Reliability | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 23, 2004