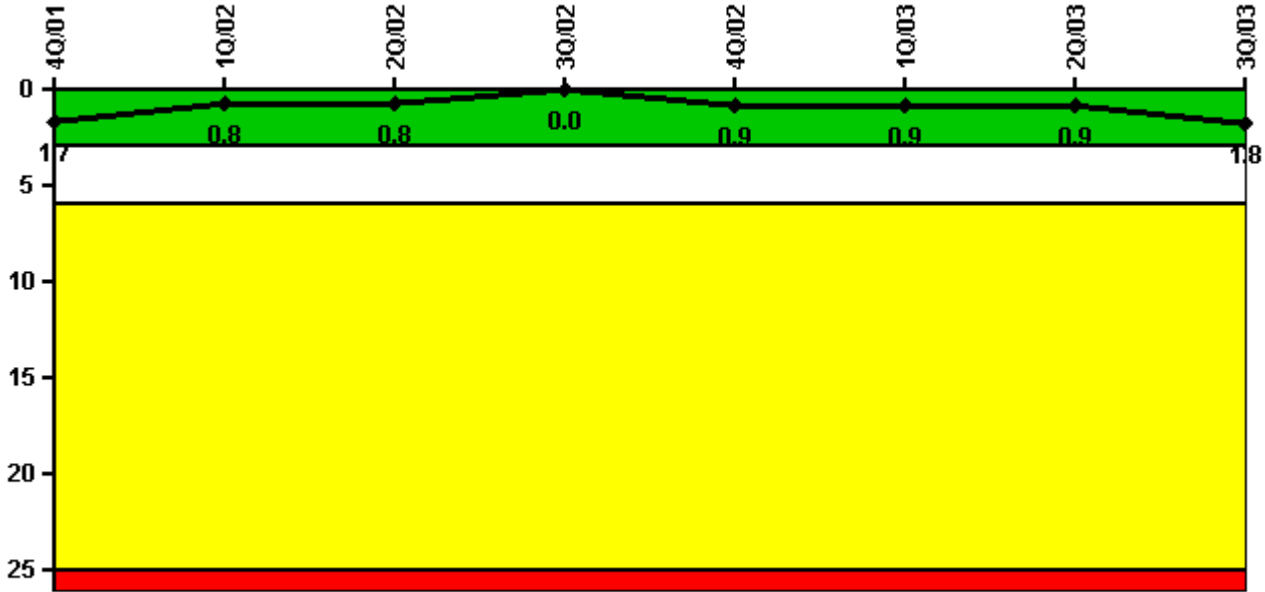


# Arkansas Nuclear 1

## 3Q/2003 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



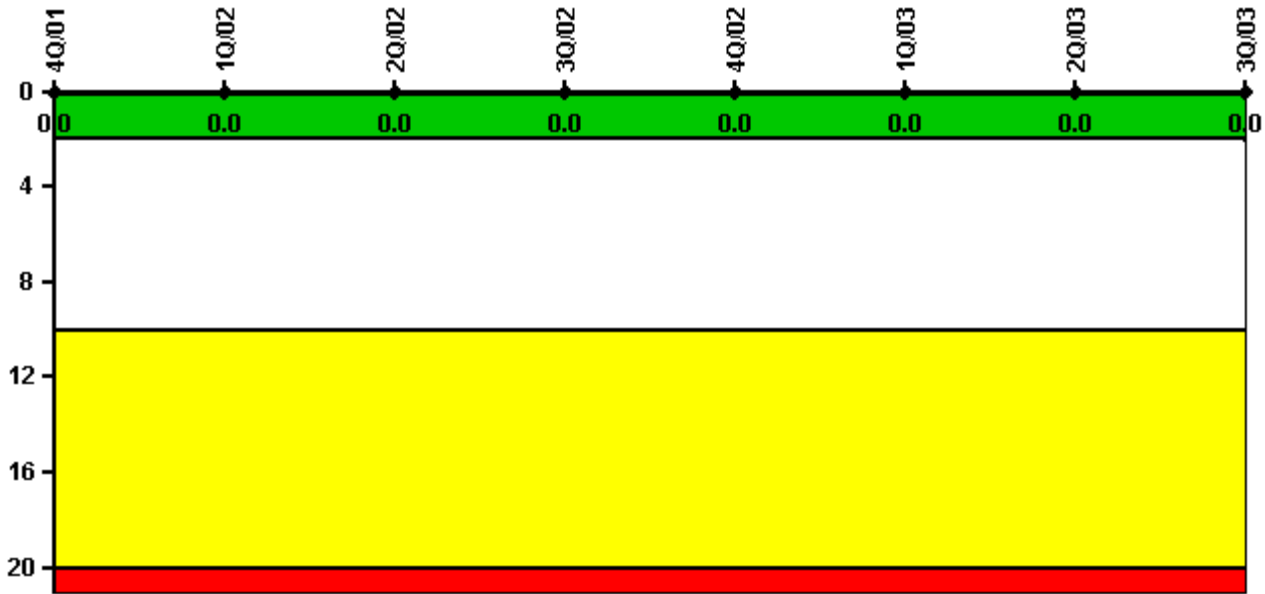
**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

**Notes**

| Unplanned Scrams per 7000 Critical Hrs | 4Q/01  | 1Q/02  | 2Q/02  | 3Q/02  | 4Q/02  | 1Q/03  | 2Q/03  | 3Q/03  |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams                       | 0      | 0      | 0      | 0      | 1.0    | 0      | 0      | 1.0    |
| Critical hours                         | 2209.0 | 2160.0 | 2183.0 | 2208.0 | 1289.2 | 2160.0 | 2183.0 | 2174.9 |
|  |        |        |        |        |        |        |        |        |
| Indicator value                        | 1.7    | 0.8    | 0.8    | 0      | 0.9    | 0.9    | 0.9    | 1.8    |

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



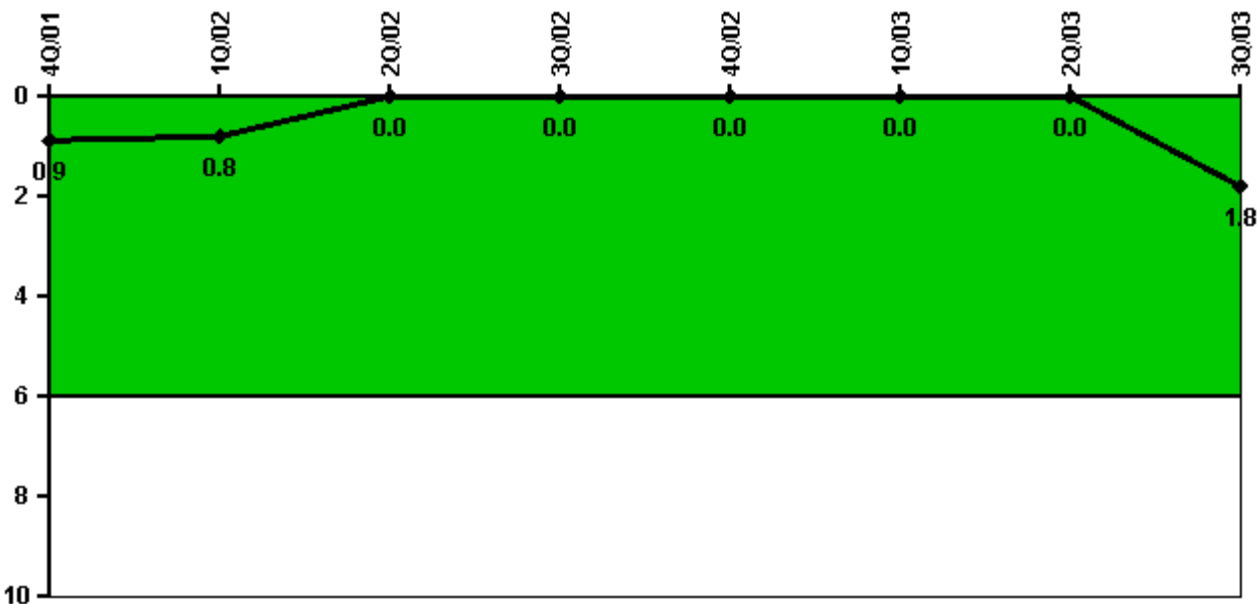
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

| Scrams with Loss of Normal Heat Removal | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 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



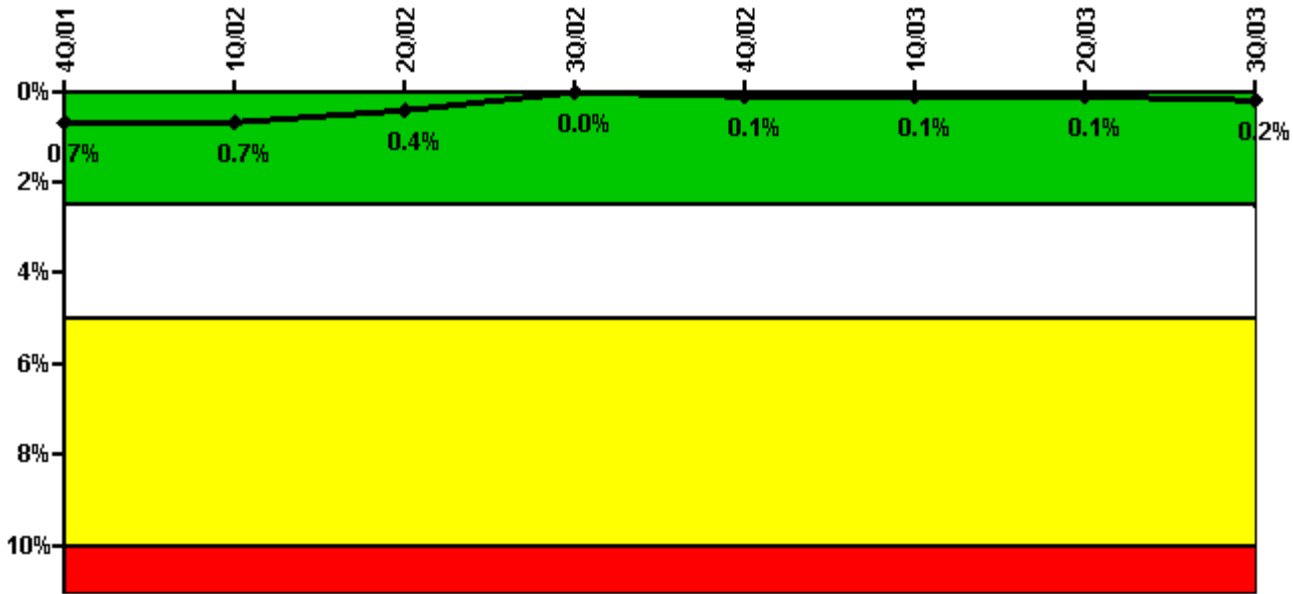
Thresholds: White > 6.0

#### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/01  | 1Q/02  | 2Q/02  | 3Q/02  | 4Q/02  | 1Q/03  | 2Q/03  | 3Q/03  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2.0    |
| Critical hours                                | 2209.0 | 2160.0 | 2183.0 | 2208.0 | 1289.2 | 2160.0 | 2183.0 | 2174.9 |
|   |        |        |        |        |        |        |        |        |
| Indicator value                               | 0.9    | 0.8    | 0      | 0      | 0      | 0      | 0      | 1.8    |

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power



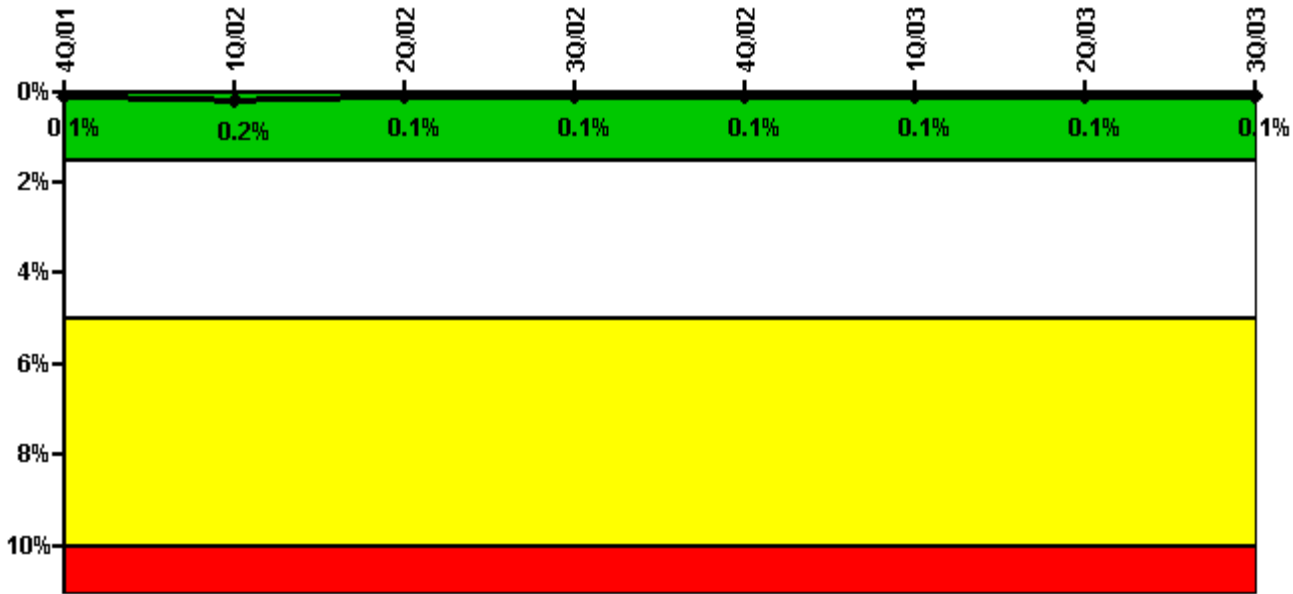
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

#### Notes

| Safety System Unavailability, Emergency AC Power | 4Q/01   | 1Q/02   | 2Q/02   | 3Q/02   | 4Q/02   | 1Q/03   | 2Q/03   | 3Q/03   |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Train 1</b>                                   |         |         |         |         |         |         |         |         |
| Planned unavailable hours                        | 0.90    | 0.82    | 1.02    | 0.62    | 3.03    | 21.40   | 3.38    | 0.90    |
| 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 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 |
| <b>Train 2</b>                                   |         |         |         |         |         |         |         |         |
| Planned unavailable hours                        | 0.77    | 1.17    | 0.75    | 0.97    | 7.82    | 0.50    | 0.91    | 24.30   |
| 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 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 |
| Indicator value                                  | 0.7%    | 0.7%    | 0.4%    | 0%      | 0.1%    | 0.1%    | 0.1%    | 0.2%    |

Licensee Comments: none

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



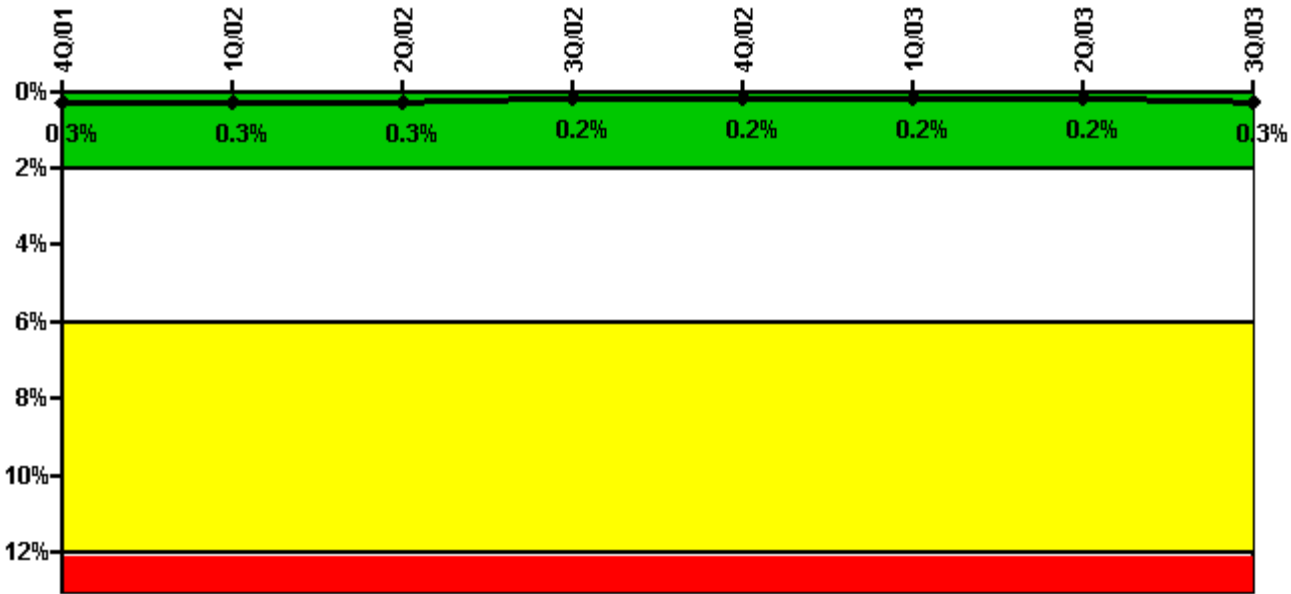
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

| Safety System Unavailability, High Pressure Injection System (HPSI) | 4Q/01   | 1Q/02   | 2Q/02   | 3Q/02   | 4Q/02   | 1Q/03   | 2Q/03   | 3Q/03   |
|---|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Train 1</b>  |         |         |         |         |         |         |         |         |
| Planned unavailable hours   | 7.85    | 3.55    | 0       | 0       | 0       | 0       | 0       | 16.80   |
| 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 | 2160.00 | 2183.00 | 2208.00 | 1289.20 | 2160.00 | 2183.00 | 2174.90 |
| <b>Train 2</b>  |         |         |         |         |         |         |         |         |
| Planned unavailable hours   | 0       | 13.30   | 0       | 0       | 0       | 0       | 8.10    | 5.10    |
| 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 | 2160.00 | 2183.00 | 2208.00 | 1289.20 | 2160.00 | 2183.00 | 2174.90 |
|   |         |         |         |         |         |         |         |         |
| <b>Indicator value</b>  | 0.1%    | 0.2%    | 0.1%    | 0.1%    | 0.1%    | 0.1%    | 0.1%    | 0.1%    |

Licensee Comments: none

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



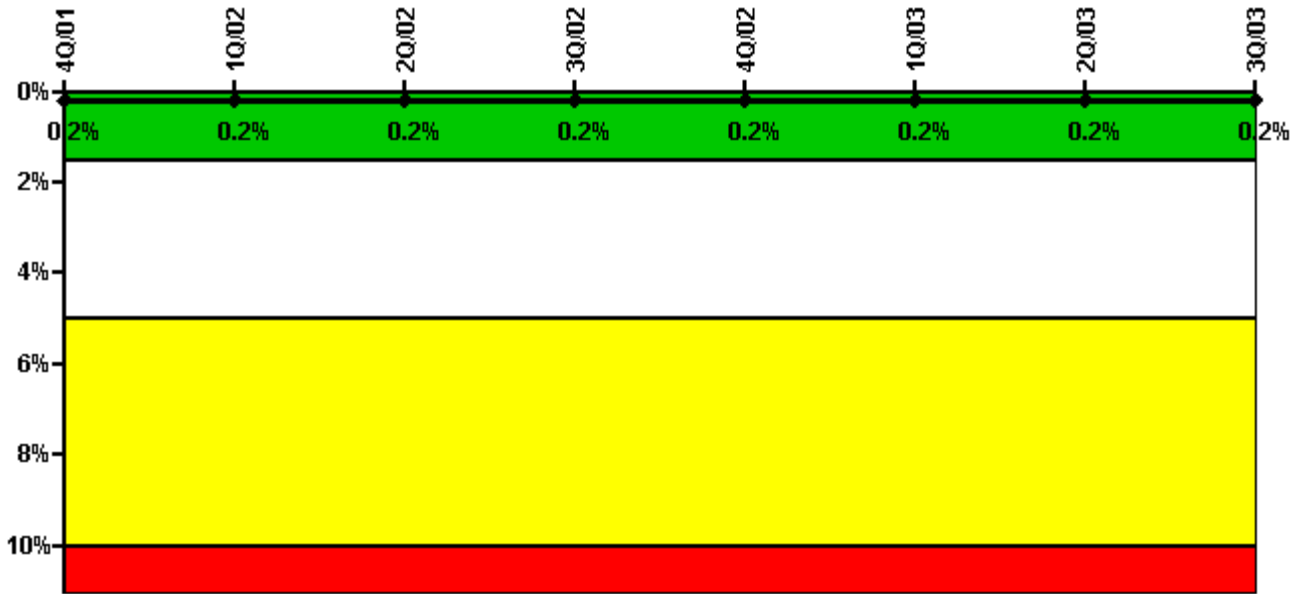
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

**Notes**

| Safety System Unavailability, Heat Removal System (AFW) | 4Q/01   | 1Q/02   | 2Q/02   | 3Q/02   | 4Q/02   | 1Q/03   | 2Q/03   | 3Q/03   |
|---|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Train 1</b>  |         |         |         |         |         |         |         |         |
| Planned unavailable hours                               | 15.20   | 0       | 0       | 0       | 0       | 0       | 0       | 27.30   |
| Unplanned unavailable hours                             | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 50.00   |
| 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 | 2160.00 | 2183.00 | 2208.00 | 1343.60 | 2160.00 | 2183.00 | 2208.00 |
| <b>Train 2</b>  |         |         |         |         |         |         |         |         |
| Planned unavailable hours                               | 9.15    | 0       | 0       | 0       | 0       | 0       | 10.60   | 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  | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 1416.70 | 2160.00 | 2183.00 | 2208.00 |
| Indicator value   | 0.3%    | 0.3%    | 0.3%    | 0.2%    | 0.2%    | 0.2%    | 0.2%    | 0.3%    |

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



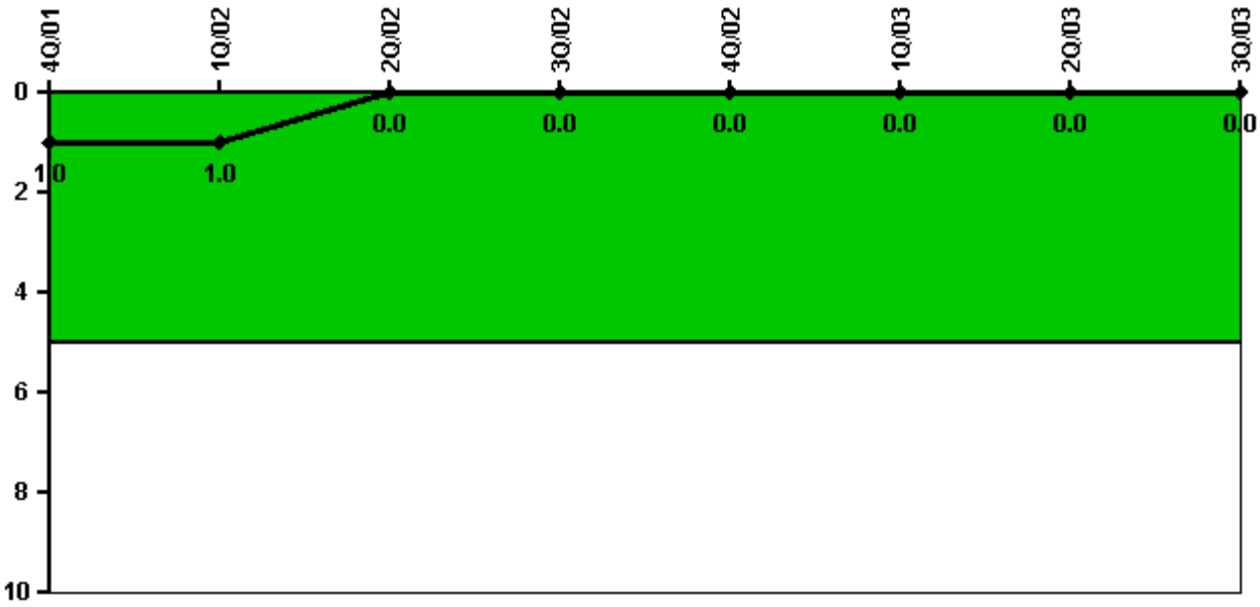
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

| Safety System Unavailability, Residual Heat Removal System | 4Q/01   | 1Q/02   | 2Q/02   | 3Q/02   | 4Q/02   | 1Q/03   | 2Q/03   | 3Q/03   |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Train 1</b>   |         |         |         |         |         |         |         |         |
| Planned unavailable hours                                  | 10.60   | 0       | 0       | 0       | 19.50   | 0       | 19.30   | 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   | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 |
| <b>Train 2</b>   |         |         |         |         |         |         |         |         |
| Planned unavailable hours                                  | 0       | 15.10   | 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   | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 |
| Indicator value  | 0.2%    | 0.2%    | 0.2%    | 0.2%    | 0.2%    | 0.2%    | 0.2%    | 0.2%    |

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

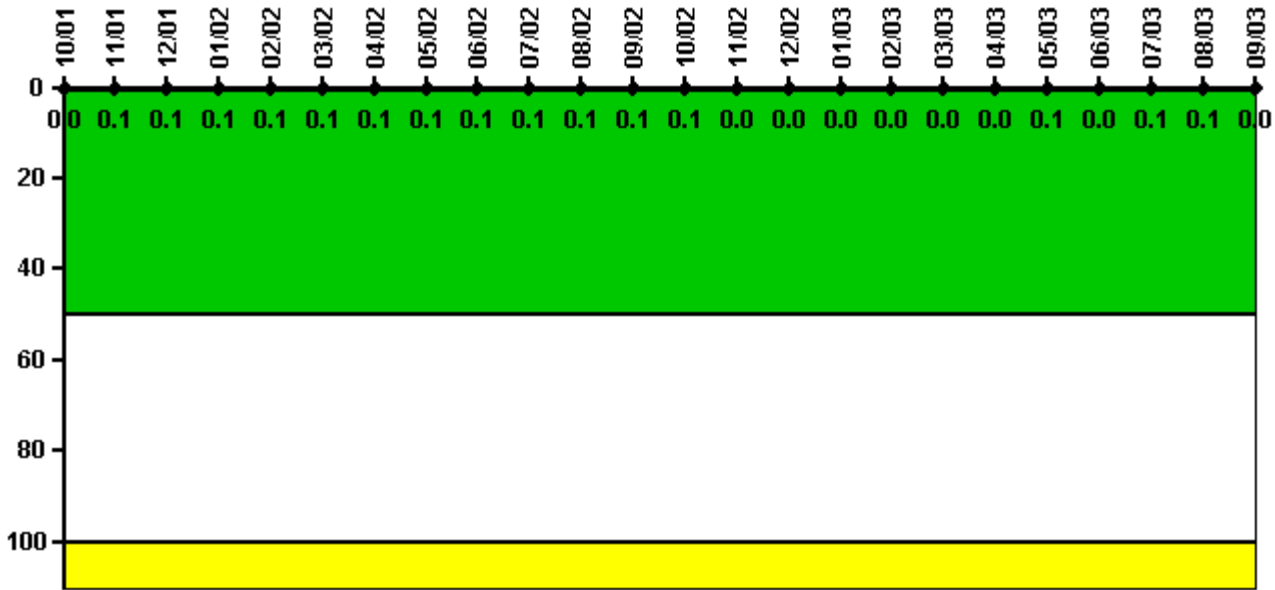
#### Notes

| Safety System Functional Failures (PWR) | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Safety System Functional Failures       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Indicator value                         | 1     | 1     | 0     | 0     | 0     | 0     | 0     | 0     |

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

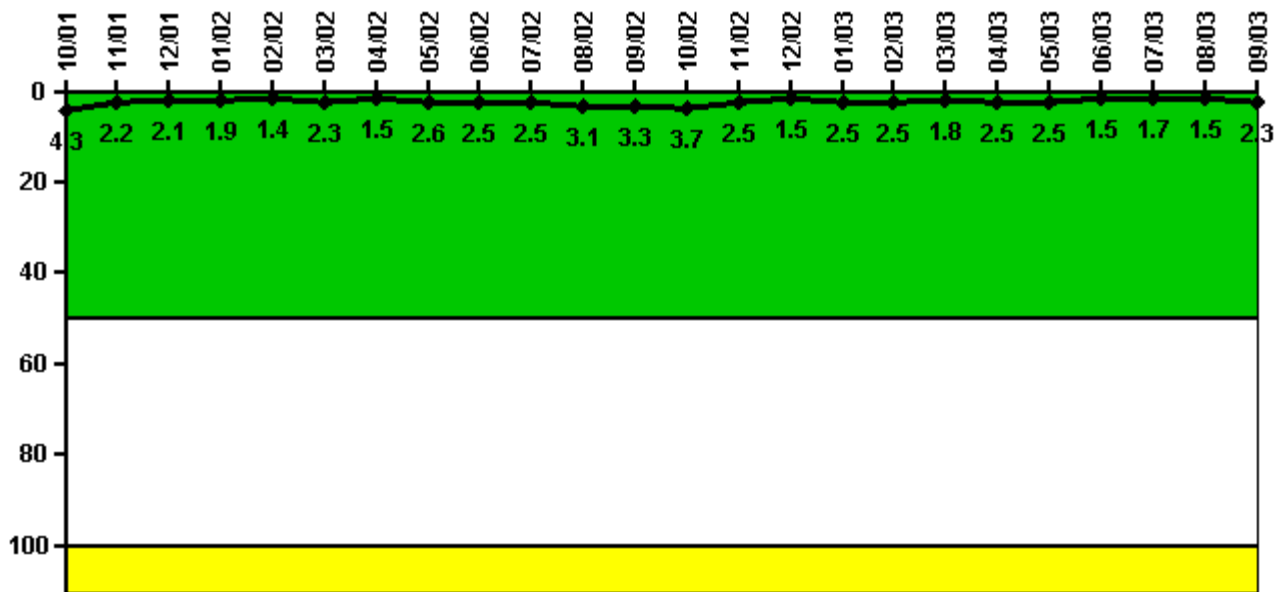
| Reactor Coolant System Activity | 10/01    | 11/01    | 12/01    | 1/02     | 2/02     | 3/02     | 4/02     | 5/02     | 6/02     | 7/02     | 8/02     | 9/02     |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.001690 | 0.001770 | 0.001850 | 0.001870 | 0.001910 | 0.002070 | 0.002140 | 0.002220 | 0.002200 | 0.002210 | 0.002340 | 0.002340 |
| Technical specification limit   | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      |
| Indicator value                 | 0        | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      |

| Reactor Coolant System Activity | 10/02    | 11/02    | 12/02    | 1/03     | 2/03     | 3/03     | 4/03     | 5/03     | 6/03     | 7/03     | 8/03     | 9/03     |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.005180 | 0.000930 | 0.000958 | 0.001060 | 0.001090 | 0.001120 | 0.001220 | 0.003790 | 0.001450 | 0.002070 | 0.002300 | 0.001670 |
| Technical specification limit   | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      | 3.5      |
| Indicator value                 | 0.1      | 0        | 0        | 0        | 0        | 0        | 0        | 0.1      | 0        | 0.1      | 0.1      | 0        |

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

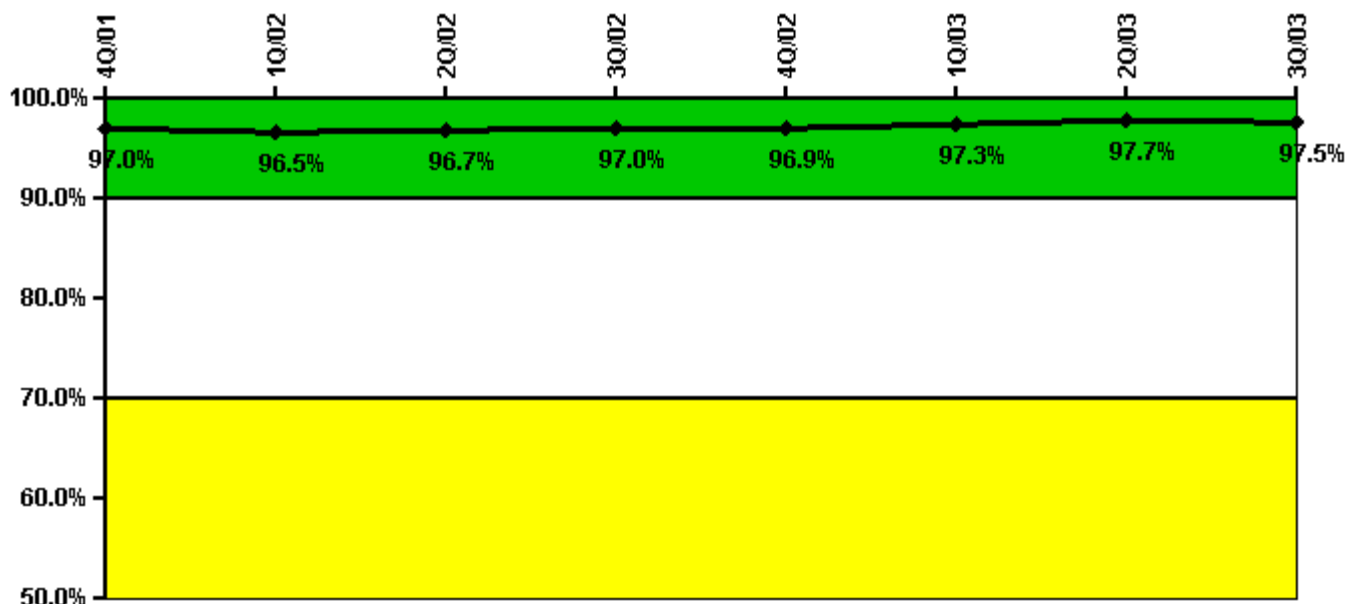
| Reactor Coolant System Leakage | 10/01 | 11/01 | 12/01 | 1/02  | 2/02  | 3/02  | 4/02  | 5/02  | 6/02  | 7/02  | 8/02  | 9/02  |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage                | 0.425 | 0.220 | 0.210 | 0.193 | 0.136 | 0.229 | 0.148 | 0.259 | 0.253 | 0.248 | 0.311 | 0.331 |
| 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                | 4.3   | 2.2   | 2.1   | 1.9   | 1.4   | 2.3   | 1.5   | 2.6   | 2.5   | 2.5   | 3.1   | 3.3   |

| Reactor Coolant System Leakage | 10/02 | 11/02 | 12/02 | 1/03  | 2/03  | 3/03  | 4/03  | 5/03  | 6/03  | 7/03  | 8/03  | 9/03  |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage                | 0.372 | 0.252 | 0.151 | 0.252 | 0.253 | 0.181 | 0.245 | 0.252 | 0.151 | 0.171 | 0.153 | 0.230 |
| 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                | 3.7   | 2.5   | 1.5   | 2.5   | 2.5   | 1.8   | 2.5   | 2.5   | 1.5   | 1.7   | 1.5   | 2.3   |

Licensee Comments: none

### Drill/Exercise Performance



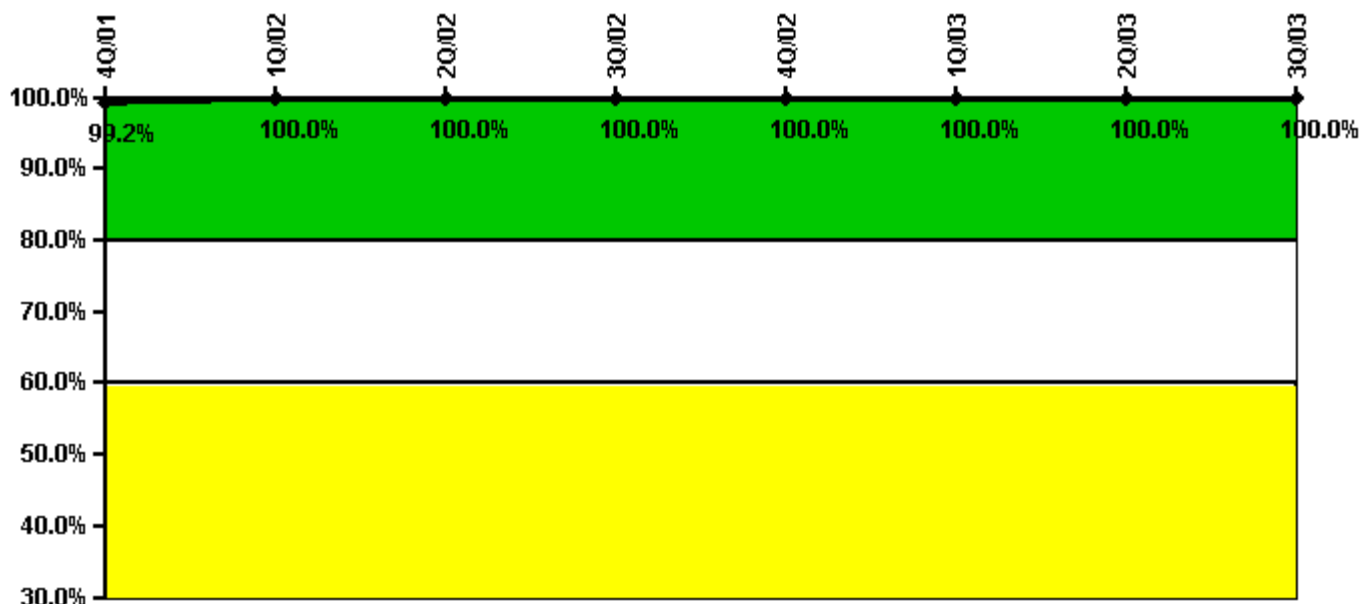
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

| Drill/Exercise Performance | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 60.0  | 71.0  | 60.0  | 69.0  | 38.0  | 45.0  | 78.0  | 43.0  |
| Total opportunities        | 64.0  | 73.0  | 61.0  | 69.0  | 39.0  | 46.0  | 79.0  | 45.0  |
|                            |       |       |       |       |       |       |       |       |
| Indicator value            | 97.0% | 96.5% | 96.7% | 97.0% | 96.9% | 97.3% | 97.7% | 97.5% |

Licensee Comments: none

### ERO Drill Participation



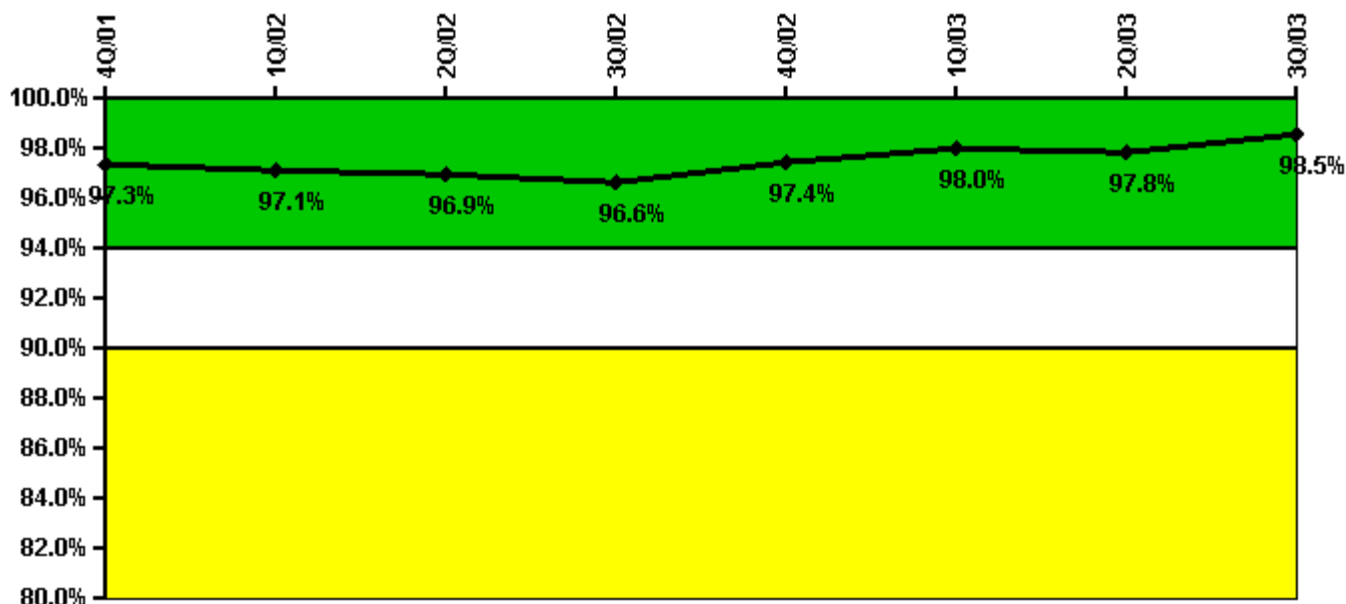
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

| ERO Drill Participation     | 4Q/01 | 1Q/02  | 2Q/02  | 3Q/02  | 4Q/02  | 1Q/03  | 2Q/03  | 3Q/03  |
|-----------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| Participating Key personnel | 120.0 | 123.0  | 123.0  | 129.0  | 126.0  | 117.0  | 123.0  | 126.0  |
| Total Key personnel         | 121.0 | 123.0  | 123.0  | 129.0  | 126.0  | 117.0  | 123.0  | 126.0  |
|                             |       |        |        |        |        |        |        |        |
| Indicator value             | 99.2% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

Licensee Comments: none

### Alert & Notification System



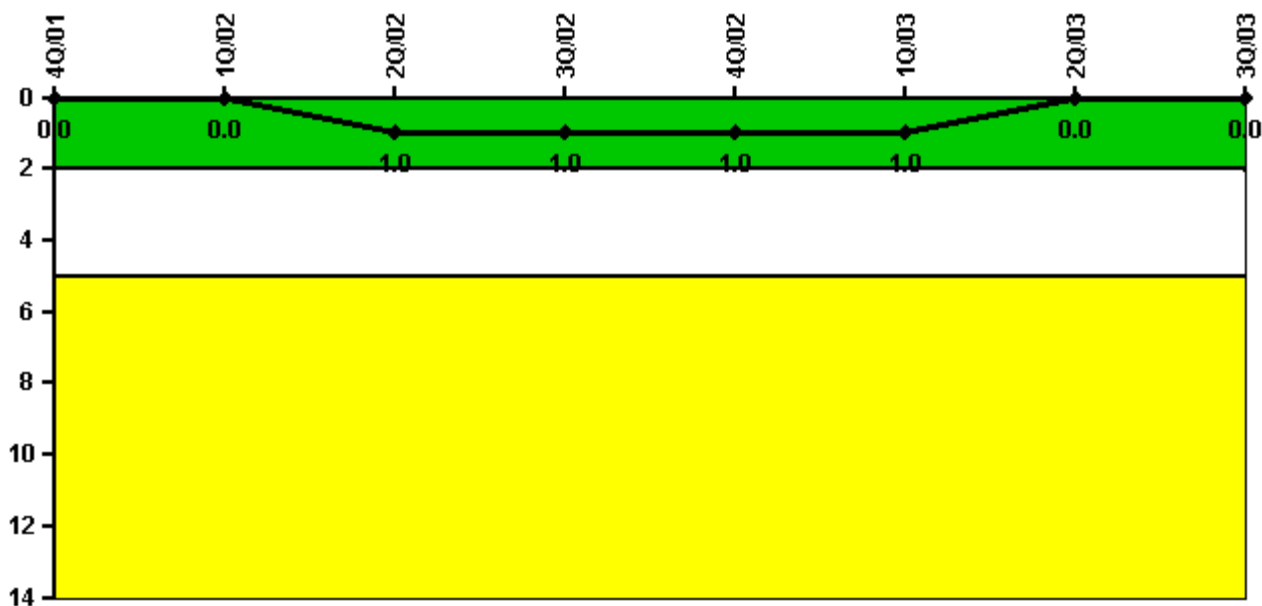
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

| Alert & Notification System | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests      | 139   | 143   | 144   | 142   | 144   | 146   | 143   | 146   |
| Total sirens-tests          | 147   | 147   | 147   | 147   | 147   | 147   | 147   | 147   |
|                             |       |       |       |       |       |       |       |       |
| Indicator value             | 97.3% | 97.1% | 96.9% | 96.6% | 97.4% | 98.0% | 97.8% | 98.5% |

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

| Occupational Exposure Control Effectiveness | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 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



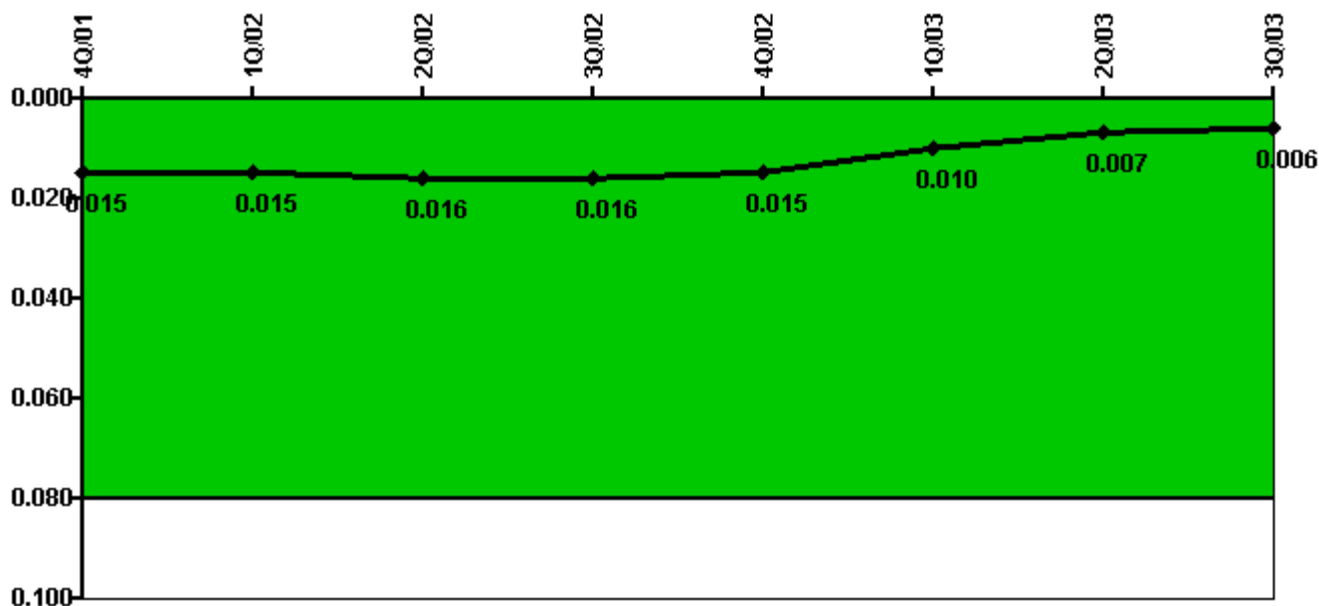
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

| RETS/ODCM Radiological Effluent | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/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

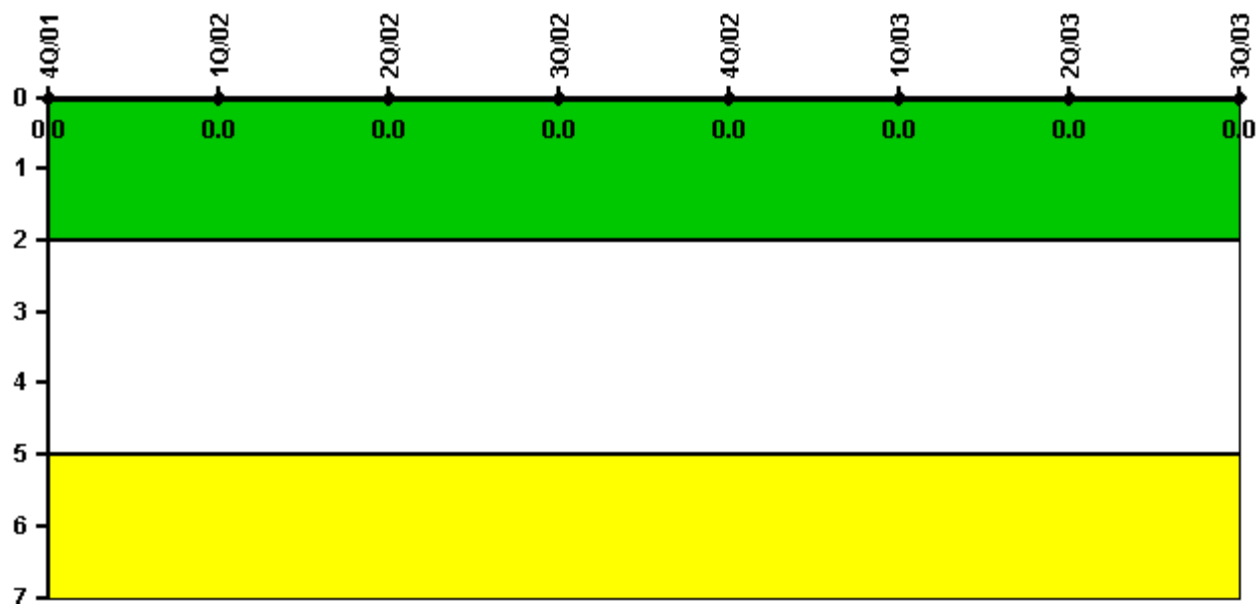
#### Notes

| Protected Area Security Performance Index | 4Q/01 | 1Q/02  | 2Q/02 | 3Q/02  | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|-------|--------|-------|--------|-------|-------|-------|-------|
| IDS compensatory hours                    | 29.40 | 213.10 | 91.20 | 107.20 | 20.30 | 47.40 | 25.90 | 15.10 |
| CCTV compensatory hours                   | 1.5   | 0      | 2.6   | 14.1   | 0     | 0     | 0     | 54.4  |
| IDS normalization factor                  | 1.70  | 1.70   | 1.70  | 1.70   | 1.70  | 1.70  | 1.70  | 1.70  |
| CCTV normalization factor                 | 1.1   | 1.1    | 1.1   | 1.1    | 1.1   | 1.1   | 1.1   | 1.1   |
| Index Value                               | 0.015 | 0.015  | 0.016 | 0.016  | 0.015 | 0.010 | 0.007 | 0.006 |

Licensee Comments: none



### Personnel Screening Program



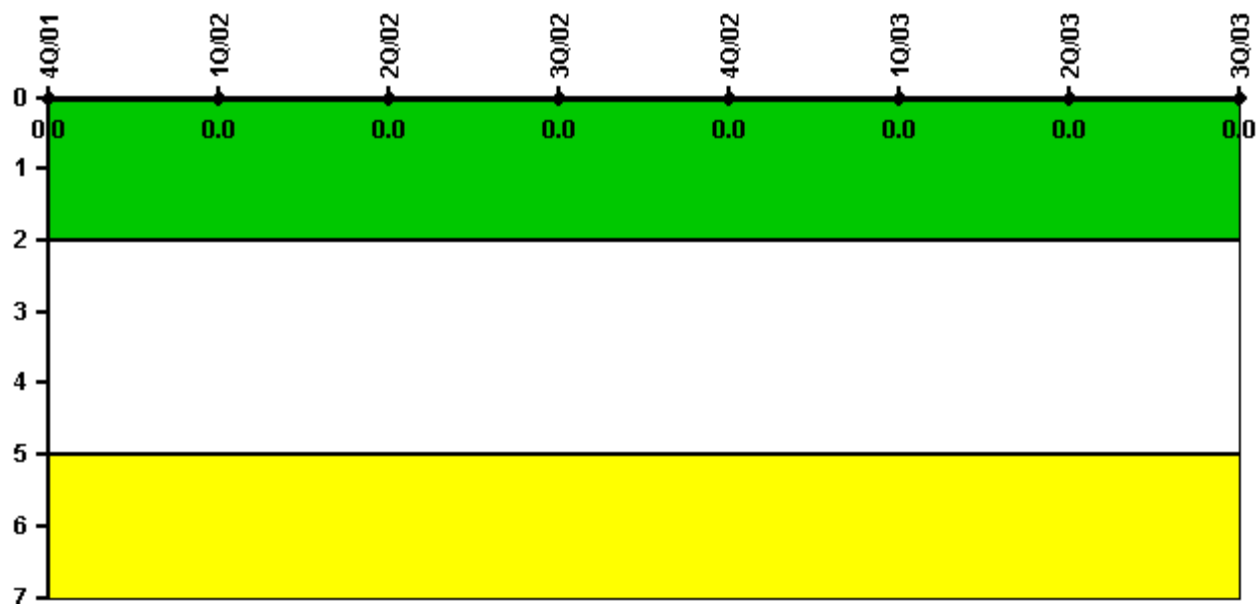
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

| Personnel Screening Program | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/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 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/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: October 22, 2003