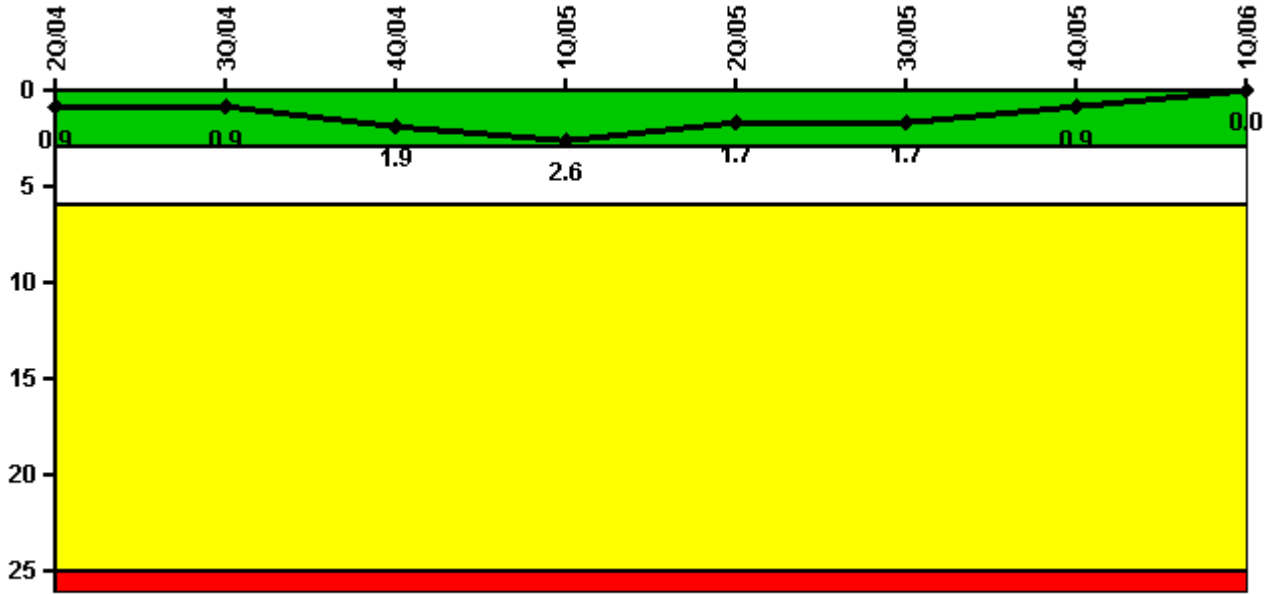


## San Onofre 2

### 1Q/2006 Performance Indicators

Licensee's General Comments: none

#### Unplanned Scrams per 7000 Critical Hrs



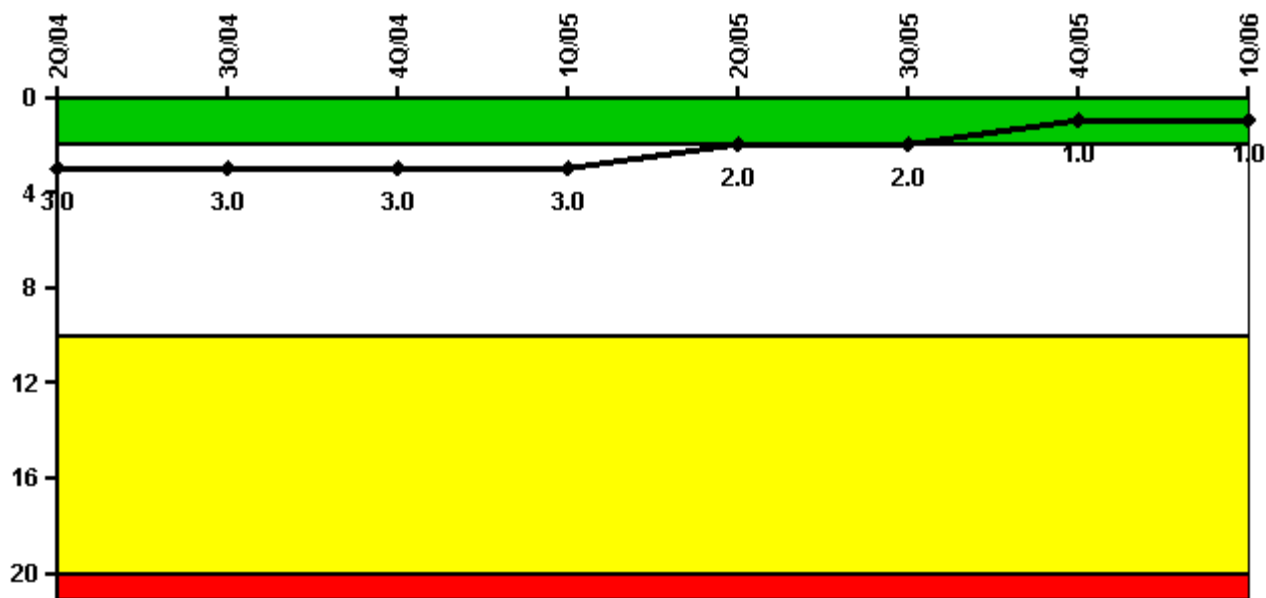
**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

#### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/04  | 3Q/04  | 4Q/04  | 1Q/05  | 2Q/05  | 3Q/05  | 4Q/05  | 1Q/06 |
|--|--------|--------|--------|--------|--------|--------|--------|-------|
| Unplanned scrams                       | 1.0    | 0      | 1.0    | 1.0    | 0      | 0      | 0      | 0     |
| Critical hours                         | 2091.9 | 2208.0 | 2180.4 | 1592.5 | 2158.0 | 2208.0 | 2209.0 | 59.3  |
| Indicator value                        | 0.9    | 0.9    | 1.9    | 2.6    | 1.7    | 1.7    | 0.9    | 0     |

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



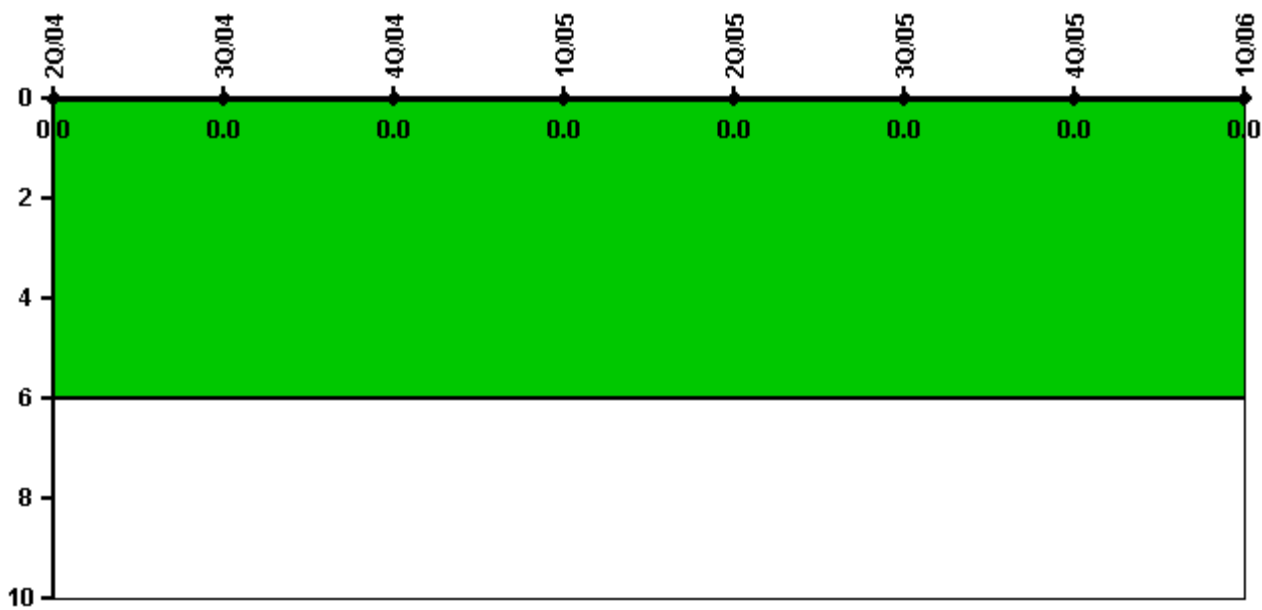
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

| Scrams with Loss of Normal Heat Removal | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Scrams                                  | 1.0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Indicator value                         | 3.0   | 3.0   | 3.0   | 3.0   | 2.0   | 2.0   | 1.0   | 1.0   |

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



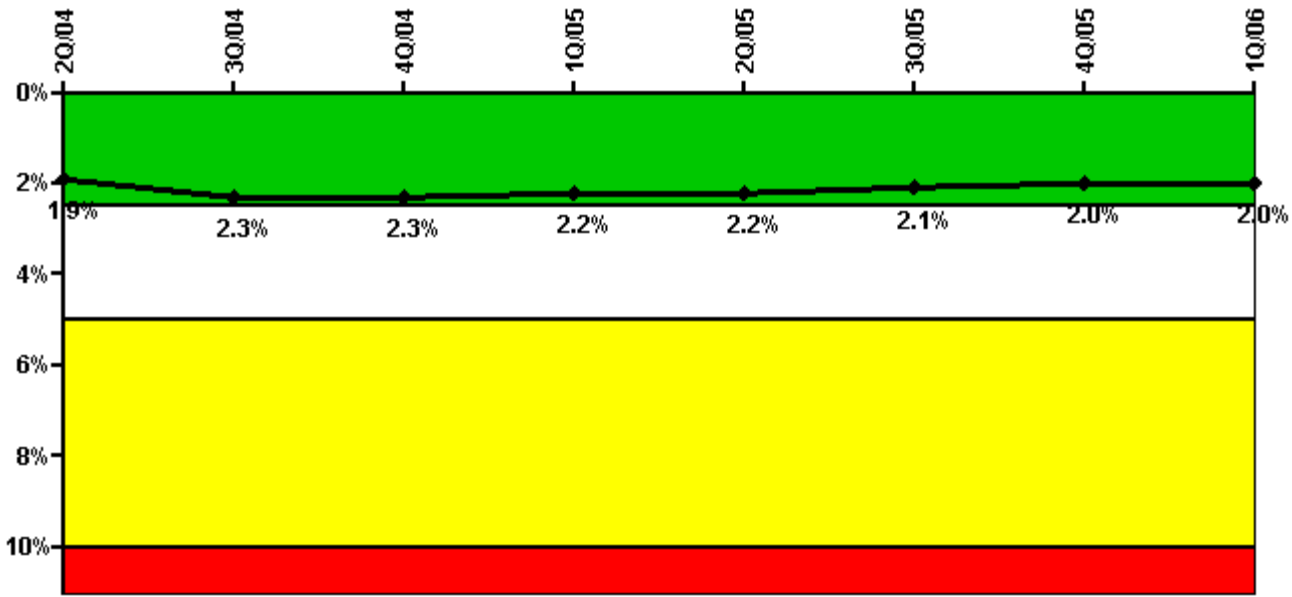
Thresholds: White > 6.0

#### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/04  | 3Q/04  | 4Q/04  | 1Q/05  | 2Q/05  | 3Q/05  | 4Q/05  | 1Q/06 |
|---|--------|--------|--------|--------|--------|--------|--------|-------|
| Unplanned power changes                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     |
| Critical hours                                | 2091.9 | 2208.0 | 2180.4 | 1592.5 | 2158.0 | 2208.0 | 2209.0 | 59.3  |
| Indicator value                               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     |

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power



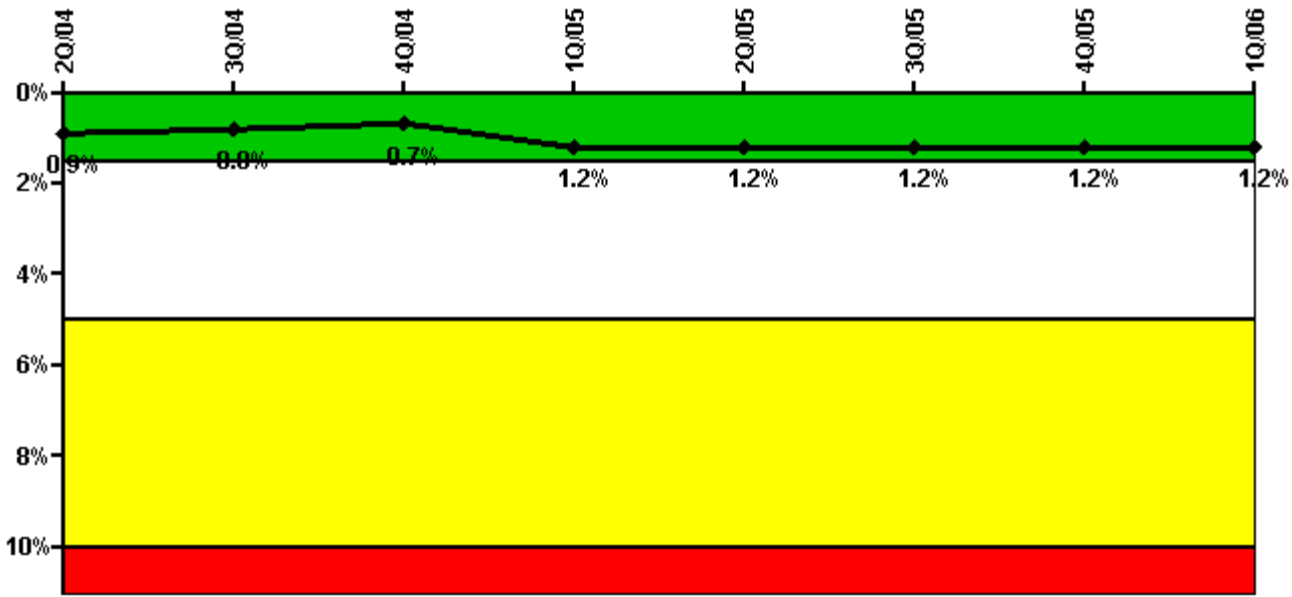
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

#### Notes

| Safety System Unavailability, Emergency AC Power | 2Q/04       | 3Q/04       | 4Q/04       | 1Q/05       | 2Q/05       | 3Q/05       | 4Q/05       | 1Q/06       |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>                                   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                        | 1.85        | 74.40       | 1.56        | 1.25        | 37.91       | 2.43        | 2.71        | 4.15        |
| Unplanned unavailable hours                      | 39.33       | 2.20        | 0           | 0           | 6.50        | 0           | 0.17        | 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                                   | 2183.00     | 2208.00     | 2209.00     | 2160.00     | 2183.00     | 2208.00     | 2209.00     | 2160.00     |
| <b>Train 2</b>                                   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                        | 3.13        | 172.55      | 1.85        | 1.90        | 29.47       | 2.24        | 52.88       | 2.15        |
| Unplanned unavailable hours                      | 0           | 0           | 0           | 0           | 3.00        | 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     | 2160.00     | 2183.00     | 2208.00     | 2209.00     | 2160.00     |
| <b>Indicator value</b>                           | <b>1.9%</b> | <b>2.3%</b> | <b>2.3%</b> | <b>2.2%</b> | <b>2.2%</b> | <b>2.1%</b> | <b>2.0%</b> | <b>2.0%</b> |

Licensee Comments: none

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



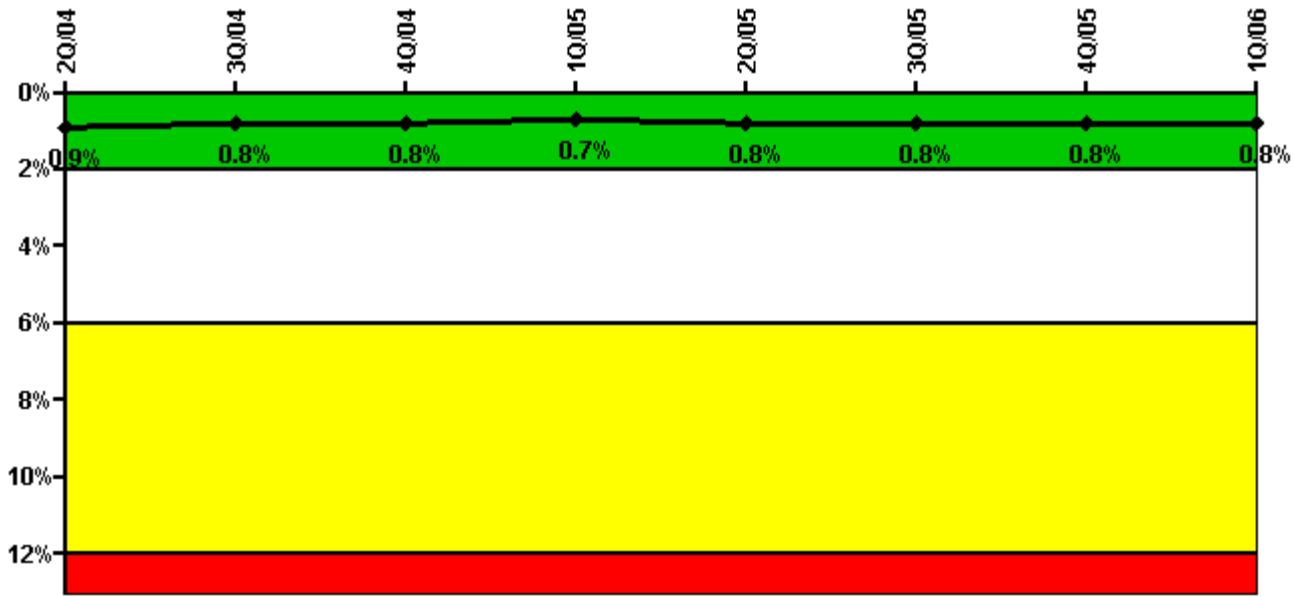
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

| Safety System Unavailability, High Pressure Injection System (HPSI) | 2Q/04       | 3Q/04       | 4Q/04       | 1Q/05       | 2Q/05       | 3Q/05       | 4Q/05       | 1Q/06       |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours   | 2.69        | 36.90       | 2.47        | 67.03       | 2.03        | 2.14        | 2.60        | 0           |
| Unplanned unavailable hours   | 1.57        | 17.80       | 0.07        | 0           | 0           | 3.42        | 0.47        | 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  | 2091.88     | 2208.00     | 2180.42     | 1592.48     | 2157.98     | 2208.00     | 2209.00     | 59.28       |
| <b>Train 2</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours   | 2.32        | 4.20        | 0.18        | 53.44       | 13.32       | 0.17        | 2.54        | 0           |
| Unplanned unavailable hours   | 0           | 13.65       | 0.22        | 180.65      | 0           | 41.13       | 1.03        | 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  | 2091.88     | 2208.00     | 2180.42     | 1592.48     | 2157.98     | 2208.00     | 2209.00     | 59.28       |
| <b>Indicator value</b>  | <b>0.9%</b> | <b>0.8%</b> | <b>0.7%</b> | <b>1.2%</b> | <b>1.2%</b> | <b>1.2%</b> | <b>1.2%</b> | <b>1.2%</b> |

Licensee Comments: none

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



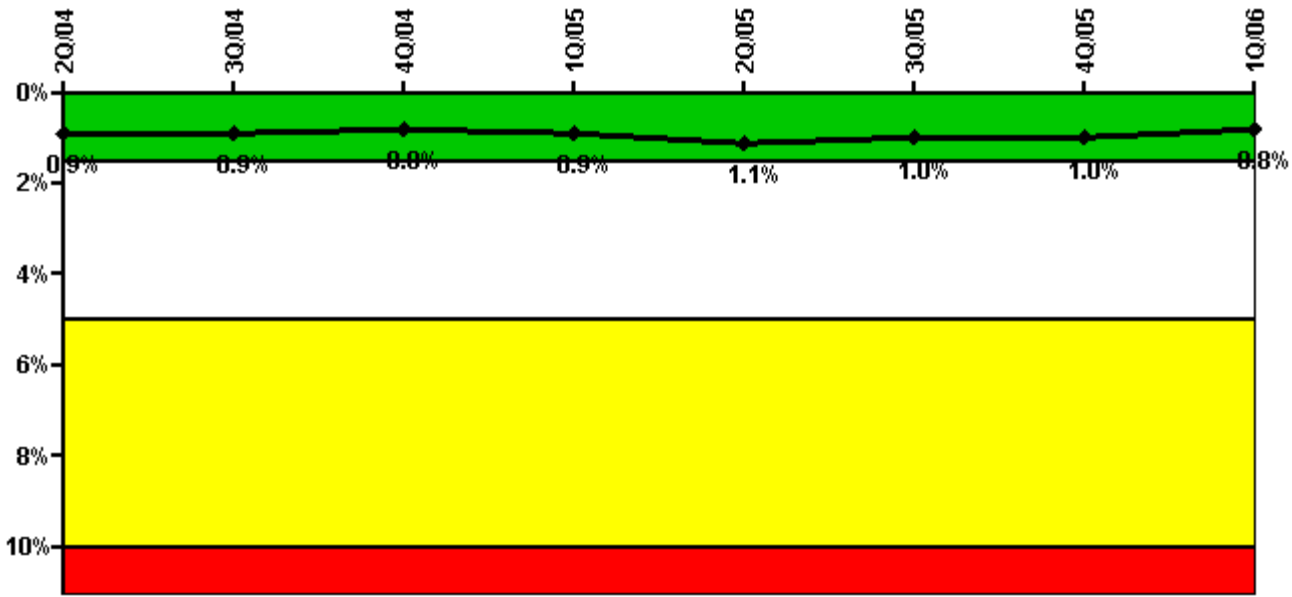
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

#### Notes

| Safety System Unavailability, Heat Removal System (AFW) | 2Q/04       | 3Q/04       | 4Q/04       | 1Q/05       | 2Q/05       | 3Q/05       | 4Q/05       | 1Q/06       |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours                               | 17.33       | 50.06       | 0           | 0           | 54.34       | 7.92        | 0.60        | 0           |
| Unplanned unavailable hours                             | 39.02       | 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  | 2091.88     | 2208.00     | 2180.42     | 1592.48     | 2157.98     | 2208.00     | 2209.00     | 59.28       |
| <b>Train 2</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours                               | 0.42        | 9.09        | 0           | 0           | 45.59       | 37.27       | 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  | 2091.88     | 2208.00     | 2180.42     | 1592.48     | 2157.98     | 2208.00     | 2209.00     | 59.28       |
| <b>Train 3</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours                               | 43.35       | 0.62        | 0           | 0           | 19.58       | 2.25        | 0           | 0           |
| Unplanned unavailable hours                             | 14.58       | 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  | 2091.88     | 2208.00     | 2180.42     | 1592.48     | 2157.98     | 2208.00     | 2209.00     | 59.28       |
| <b>Indicator value</b>                                  | <b>0.9%</b> | <b>0.8%</b> | <b>0.8%</b> | <b>0.7%</b> | <b>0.8%</b> | <b>0.8%</b> | <b>0.8%</b> | <b>0.8%</b> |

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



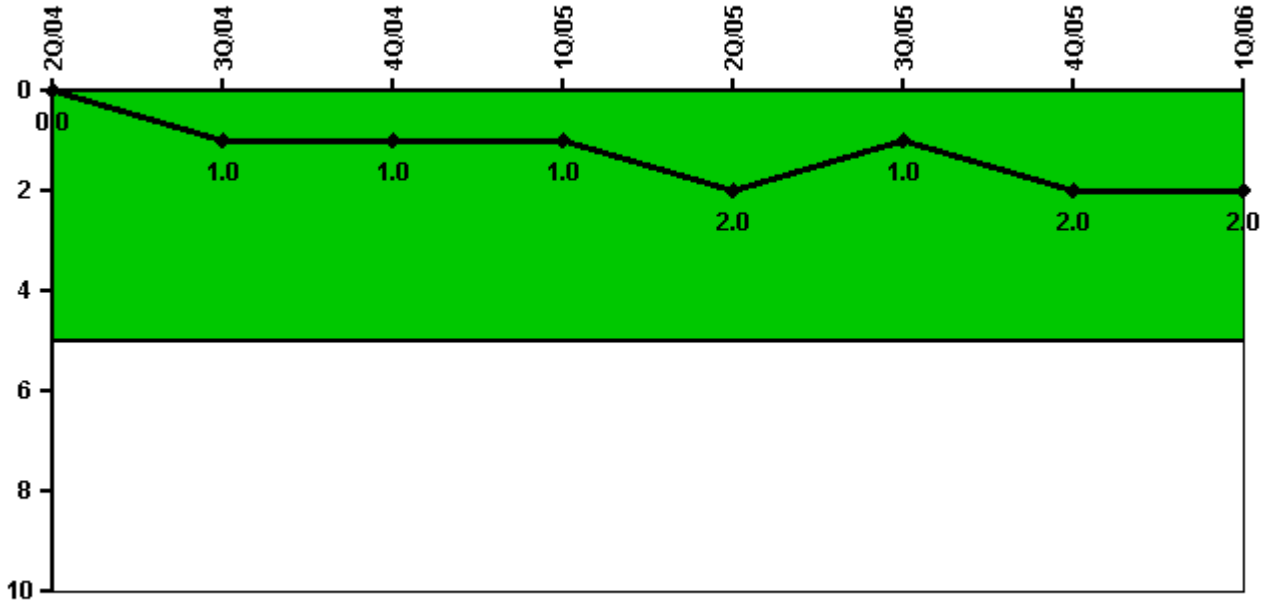
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

| Safety System Unavailability, Residual Heat Removal System | 2Q/04       | 3Q/04       | 4Q/04       | 1Q/05       | 2Q/05       | 3Q/05       | 4Q/05       | 1Q/06       |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                                  | 12.39       | 58.75       | 1.67        | 74.25       | 67.70       | 13.86       | 2.15        | 0           |
| Unplanned unavailable hours                                | 1.57        | 17.80       | 0.07        | 0           | 0           | 3.42        | 0.47        | 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   | 2144.47     | 2208.00     | 2209.00     | 1712.36     | 2183.00     | 2208.00     | 2209.00     | 71.96       |
| <b>Train 2</b>   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                                  | 2.62        | 13.22       | 1.30        | 53.14       | 11.85       | 1.17        | 2.45        | 0           |
| Unplanned unavailable hours                                | 0           | 0           | 0.22        | 81.22       | 0           | 41.13       | 1.03        | 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   | 2144.47     | 2208.00     | 2209.00     | 1712.36     | 2183.00     | 2208.00     | 2209.00     | 71.96       |
| <b>Train 3</b>   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                                  | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 1.23        |
| 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   | 38.53       | 0           | 0           | 447.64      | 0           | 0           | 0           | 2088.04     |
| <b>Train 4</b>   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                                  | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| Unplanned unavailable hours                                | 0.67        | 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   | 38.53       | 0           | 0           | 447.64      | 0           | 0           | 0           | 2088.04     |
| <b>Indicator value</b>                                     | <b>0.9%</b> | <b>0.9%</b> | <b>0.8%</b> | <b>0.9%</b> | <b>1.1%</b> | <b>1.0%</b> | <b>1.0%</b> | <b>0.8%</b> |

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

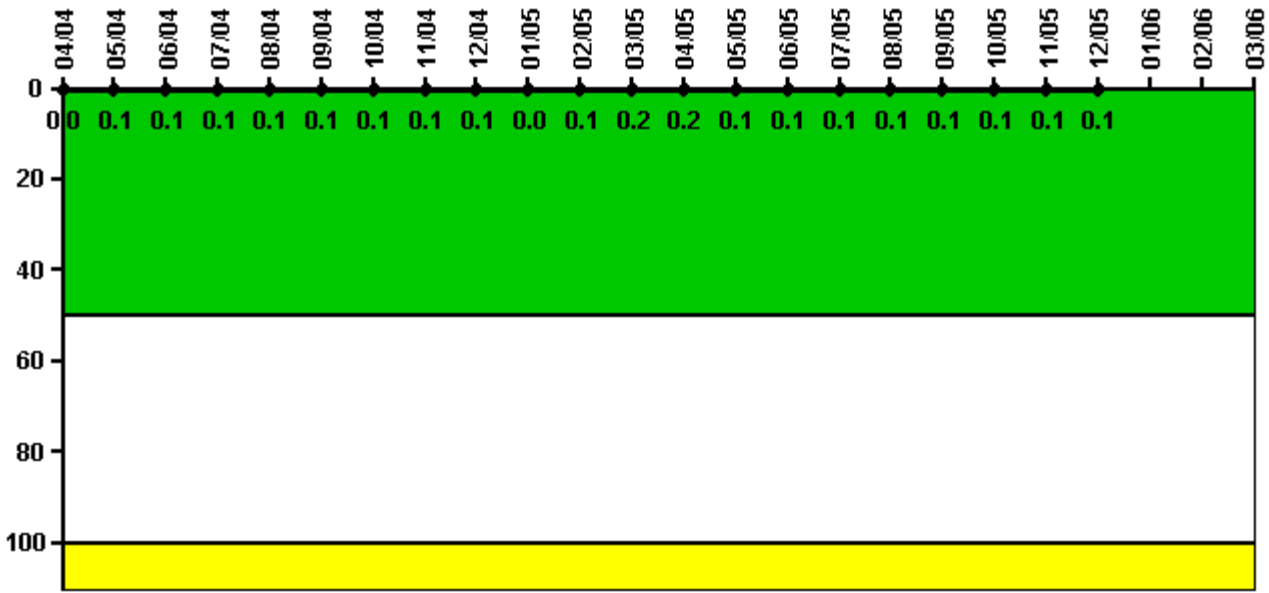
### Notes

| Safety System Functional Failures (PWR) | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Safety System Functional Failures       | 0     | 1     | 0     | 0     | 1     | 0     | 1     | 0     |
| Indicator value                         | 0     | 1     | 1     | 1     | 2     | 1     | 2     | 2     |

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

| 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      |

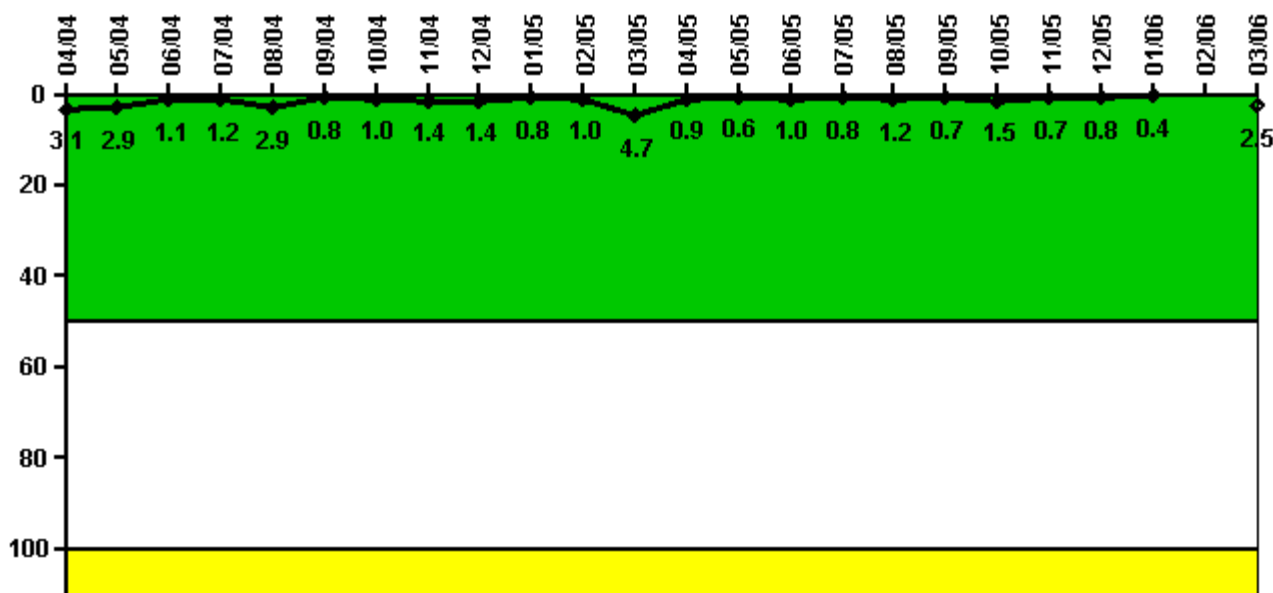
  

| Reactor Coolant System Activity | 4/05     | 5/05     | 6/05     | 7/05     | 8/05     | 9/05     | 10/05    | 11/05    | 12/05    | 1/06 | 2/06 | 3/06 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|------|------|
| Maximum activity                | 0.001610 | 0.000918 | 0.000919 | 0.000862 | 0.001120 | 0.001090 | 0.001060 | 0.001220 | 0.001270 | N/A  | N/A  | N/A  |
| 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                 | 0.2      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | N/A  | N/A  | N/A  |

Licensee Comments:

3/06: SONGS Unit 2 was in its refueling outage from January through March. Plant conditions did not require RCS activity to be calculated, therefore the value of N/A is being reported.

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

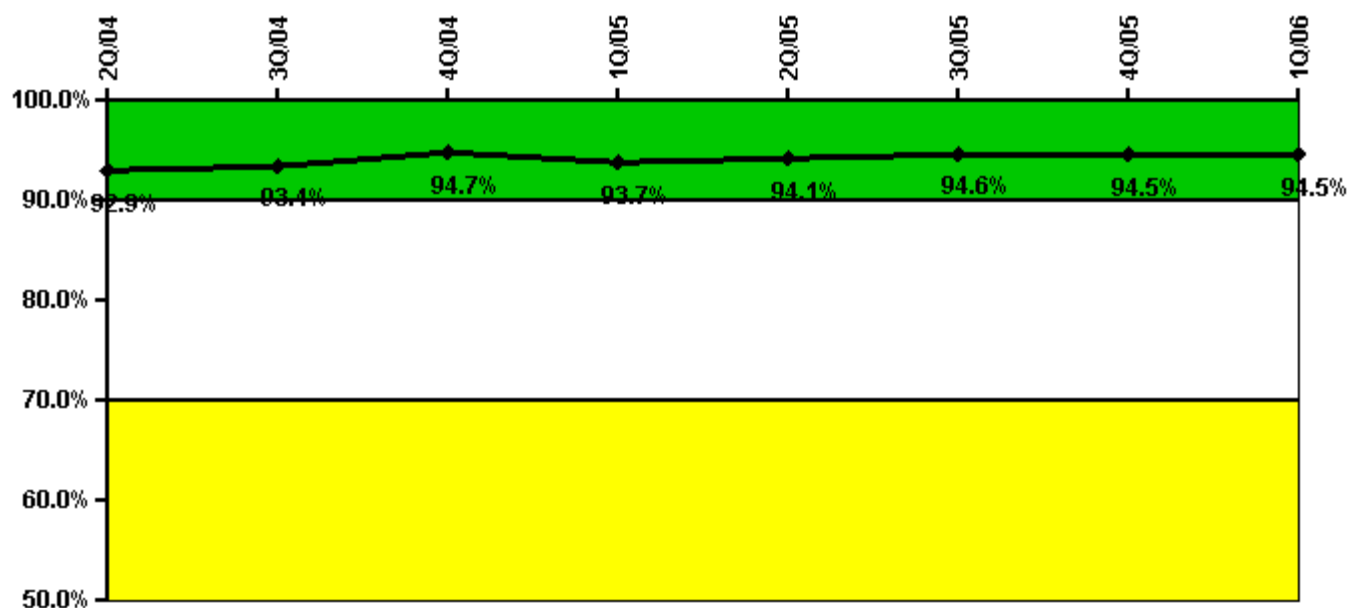
#### Notes

| 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   |
| Reactor Coolant System Leakage | 4/05  | 5/05  | 6/05  | 7/05  | 8/05  | 9/05  | 10/05 | 11/05 | 12/05 | 1/06  | 2/06  | 3/06  |
| Maximum leakage                | 0.090 | 0.060 | 0.100 | 0.080 | 0.120 | 0.070 | 0.150 | 0.070 | 0.080 | 0.040 | N/A   | 0.250 |
| 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   | 0.6   | 1.0   | 0.8   | 1.2   | 0.7   | 1.5   | 0.7   | 0.8   | 0.4   | N/A   | 2.5   |

Licensee Comments:

3/06: 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. Method approved by FAQ 381. SONGS Unit 2 was in its refueling outage from January through March. Plant conditions in February did not require RCS leakage to be calculated, therefore the value of N/A is being reported.

### Drill/Exercise Performance



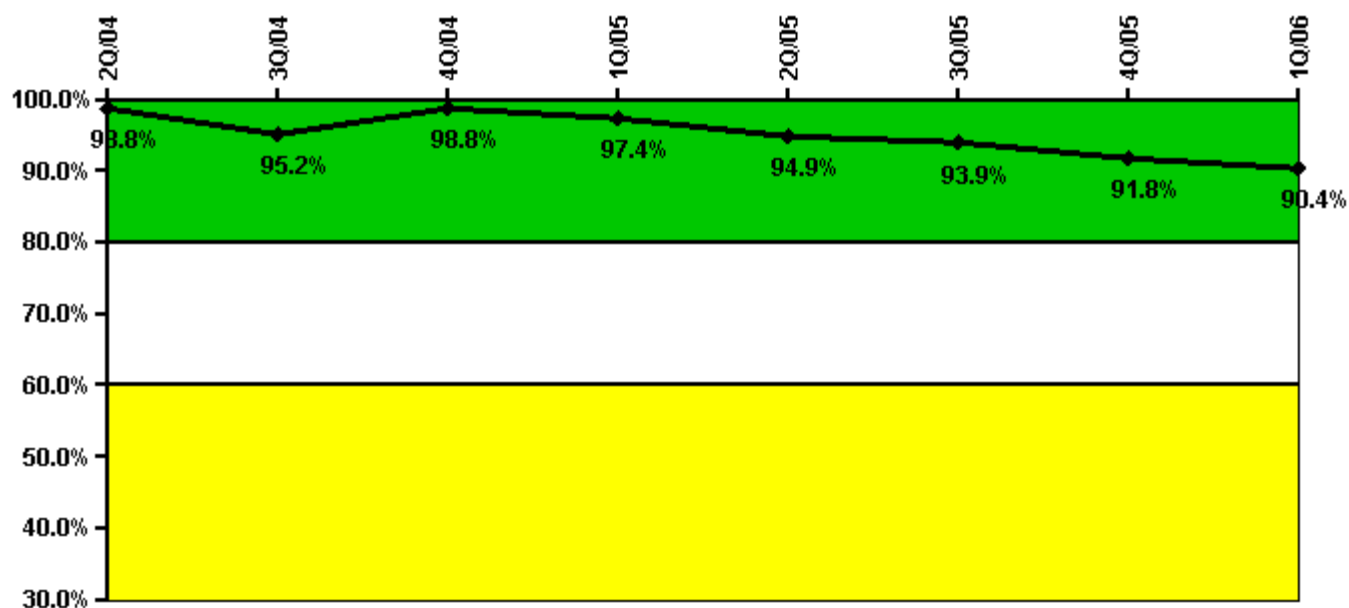
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

| Drill/Exercise Performance | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 40.0  | 0     | 39.0  | 9.0   | 28.0  | 32.0  | 8.0   | 0     |
| Total opportunities        | 44.0  | 0     | 41.0  | 10.0  | 29.0  | 33.0  | 8.0   | 0     |
| Indicator value            | 92.9% | 93.4% | 94.7% | 93.7% | 94.1% | 94.6% | 94.5% | 94.5% |

Licensee Comments: none

### ERO Drill Participation



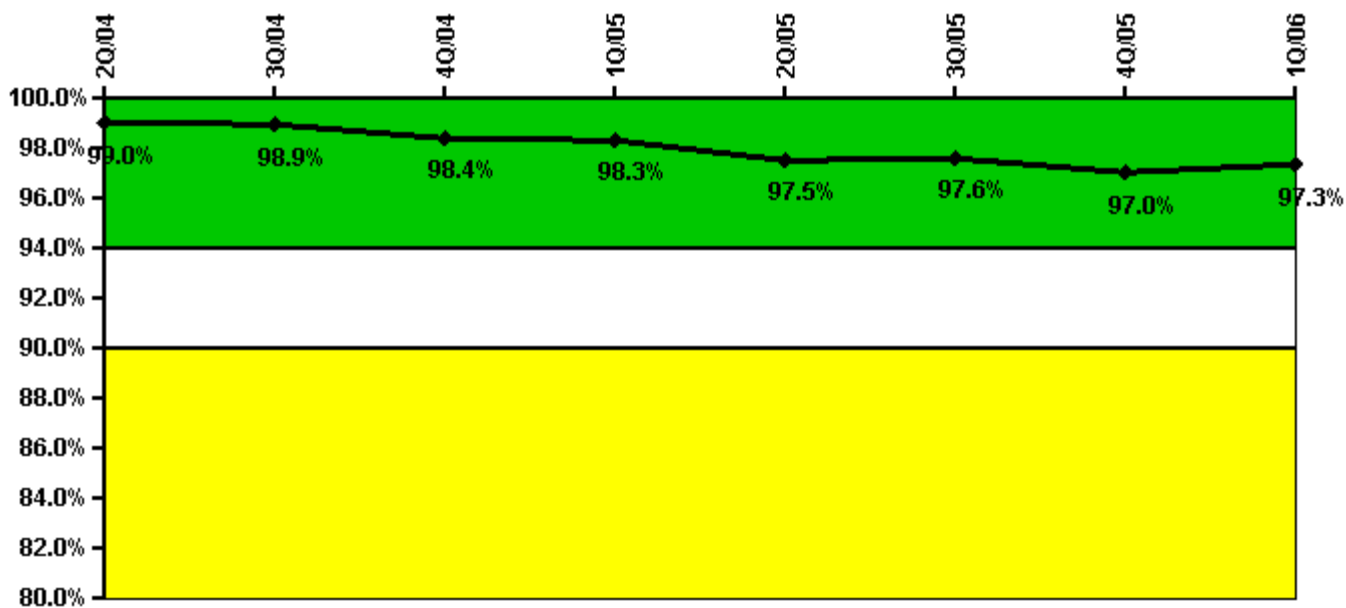
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

| ERO Drill Participation     | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Participating Key personnel | 82.0  | 79.0  | 80.0  | 76.0  | 75.0  | 77.0  | 78.0  | 75.0  |
| Total Key personnel         | 83.0  | 83.0  | 81.0  | 78.0  | 79.0  | 82.0  | 85.0  | 83.0  |
| Indicator value             | 98.8% | 95.2% | 98.8% | 97.4% | 94.9% | 93.9% | 91.8% | 90.4% |

Licensee Comments: none

### Alert & Notification System



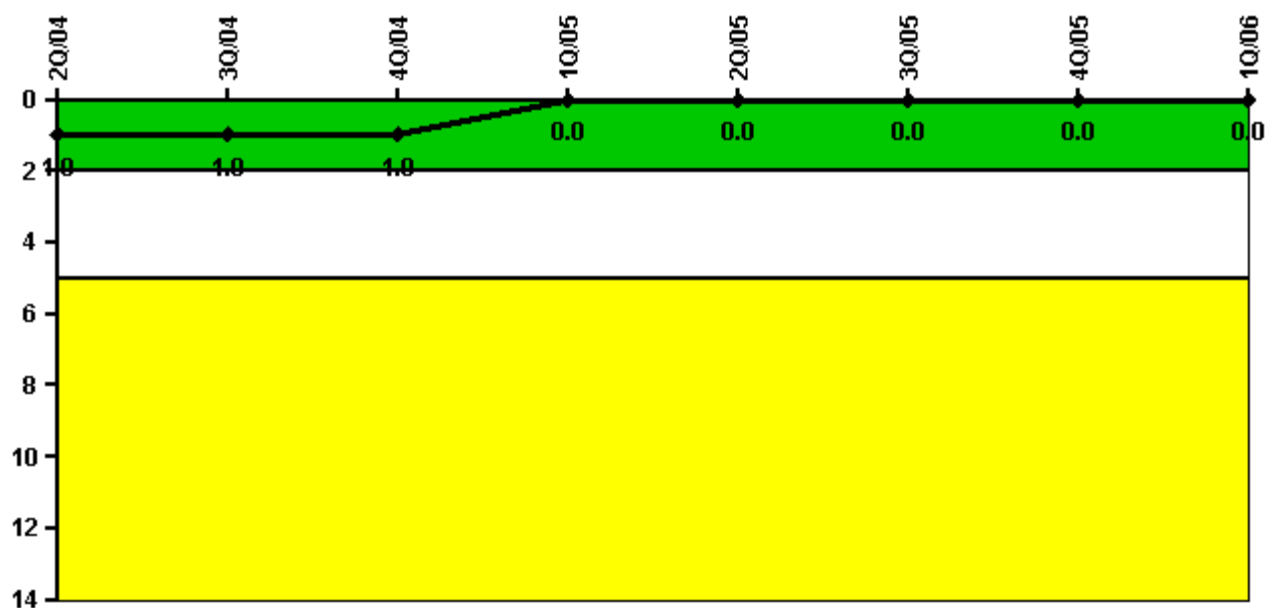
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

| Alert & Notification System | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests      | 342   | 385   | 430   | 385   | 370   | 333   | 417   | 387   |
| Total sirens-tests          | 343   | 392   | 441   | 392   | 386   | 336   | 437   | 390   |
| Indicator value             | 99.0% | 98.9% | 98.4% | 98.3% | 97.5% | 97.6% | 97.0% | 97.3% |

Licensee Comments: none

### Occupational Exposure Control Effectiveness



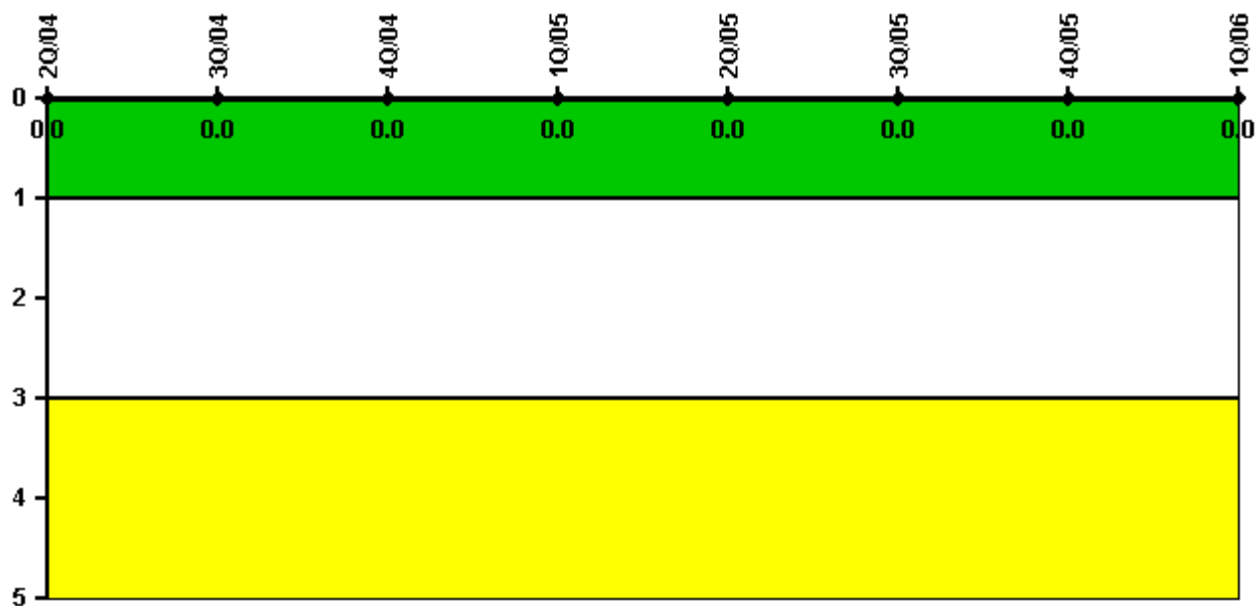
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

| Occupational Exposure Control Effectiveness | 2Q/04    | 3Q/04    | 4Q/04    | 1Q/05    | 2Q/05    | 3Q/05    | 4Q/05    | 1Q/06    |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| 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>1</b> | <b>1</b> | <b>1</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 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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](#)

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