

# Prairie Island 1

## 2Q/2006 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



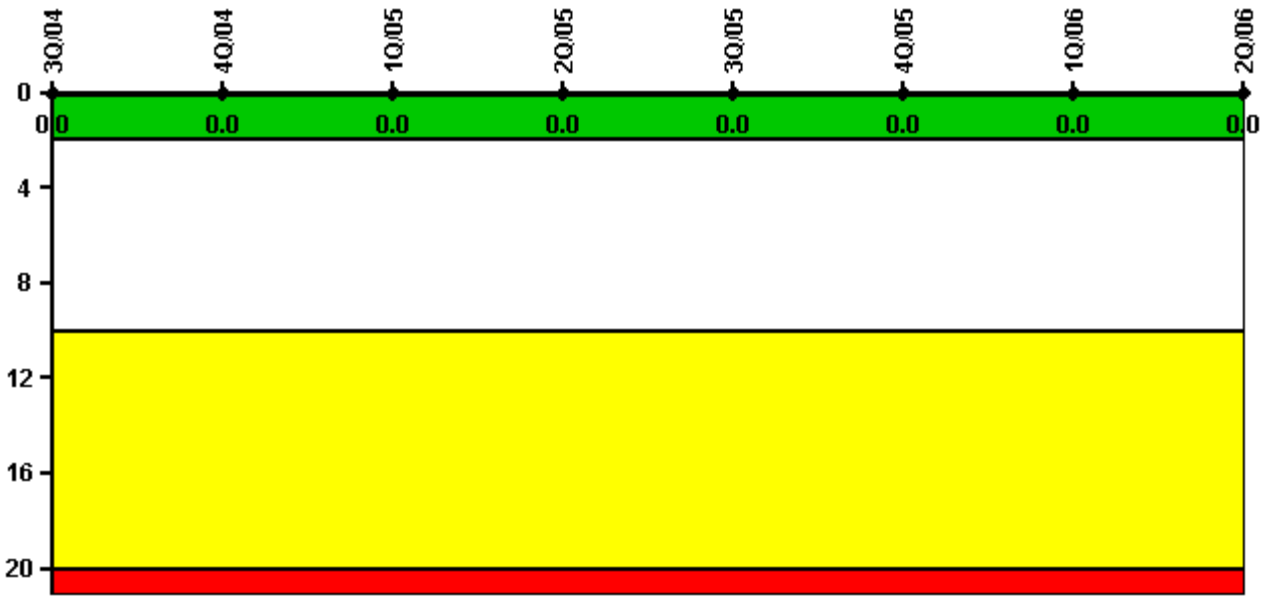
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/04  | 4Q/04 | 1Q/05  | 2Q/05  | 3Q/05  | 4Q/05  | 1Q/06  | 2Q/06  |
|--|--------|-------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams                       | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 1.0    |
| Critical hours                         | 1724.7 | 948.0 | 1962.8 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 1244.9 |
| Indicator value                        | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0.9    |

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



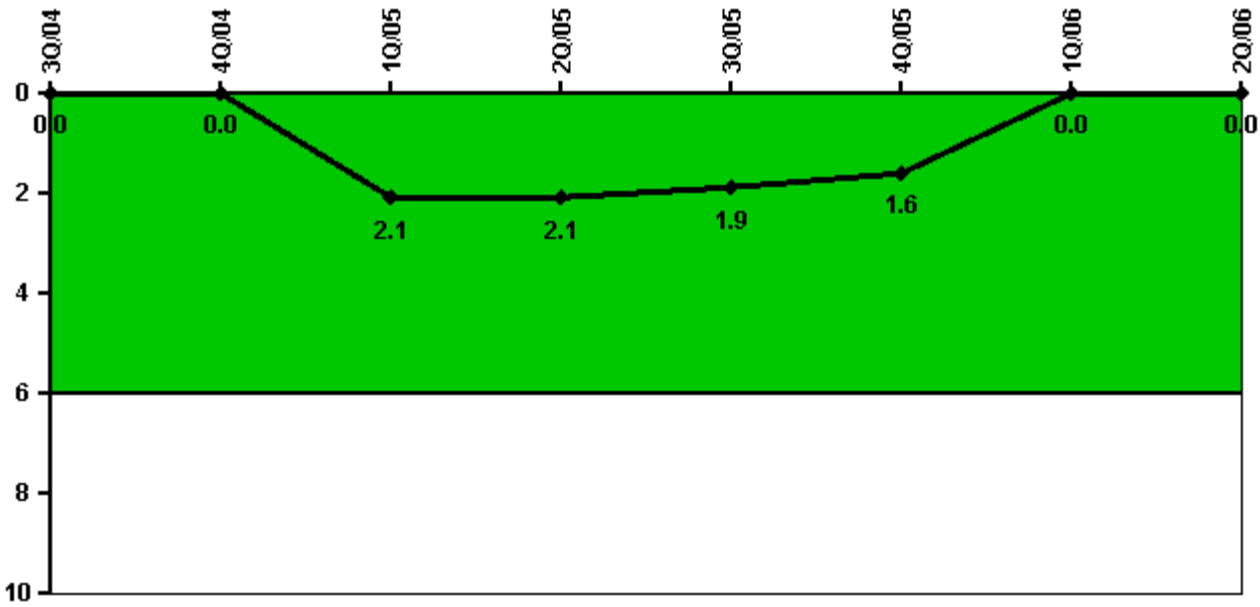
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

| Scrams with Loss of Normal Heat Removal | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 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



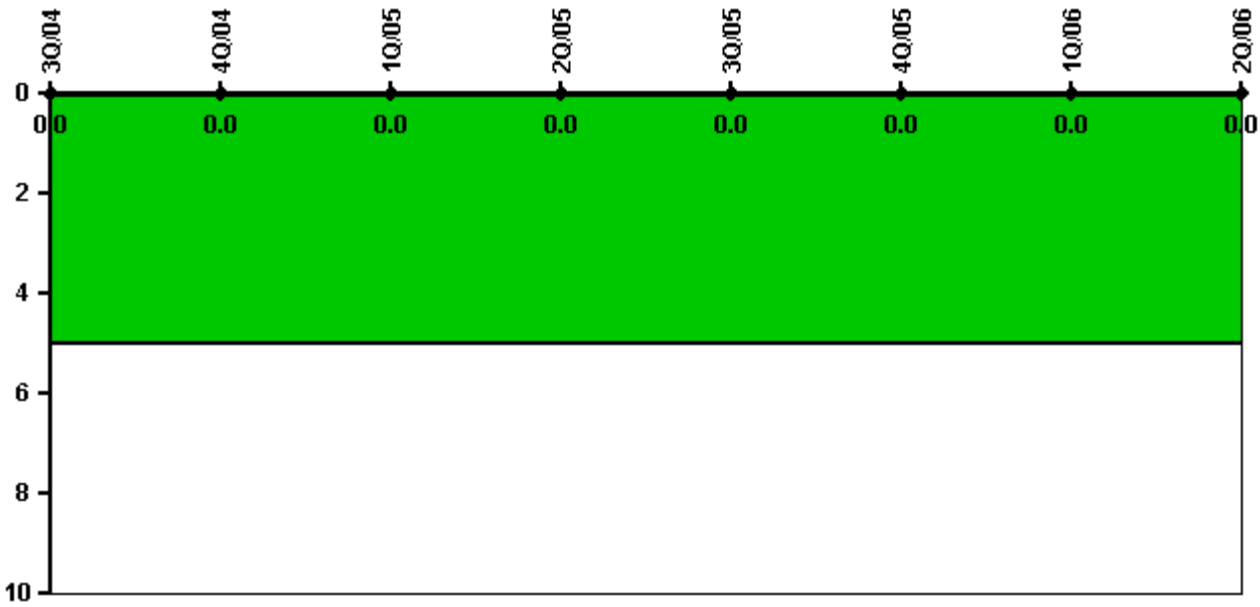
Thresholds: White > 6.0

#### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 3Q/04  | 4Q/04 | 1Q/05  | 2Q/05  | 3Q/05  | 4Q/05  | 1Q/06  | 2Q/06  |
|---|--------|-------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes                       | 0      | 0     | 2.0    | 0      | 0      | 0      | 0      | 0      |
| Critical hours                                | 1724.7 | 948.0 | 1962.8 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 1244.9 |
| Indicator value                               | 0      | 0     | 2.1    | 2.1    | 1.9    | 1.6    | 0      | 0      |

Licensee Comments: none

### Safety System Functional Failures (PWR)



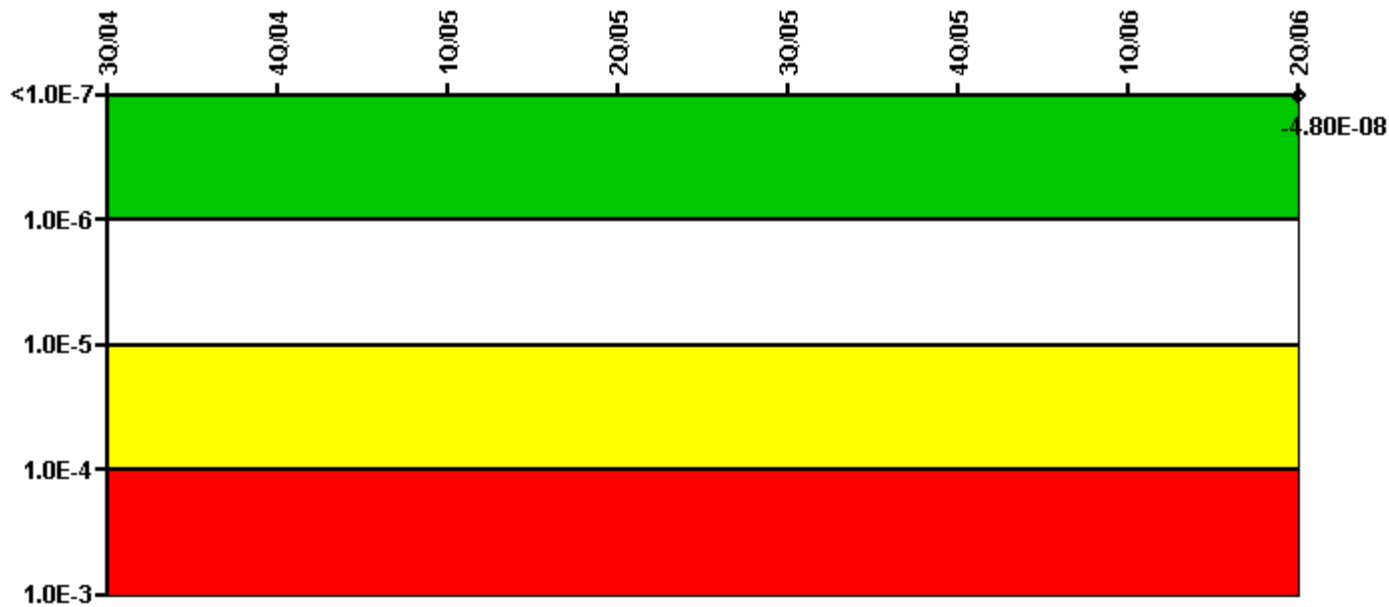
Thresholds: White > 5.0

#### Notes

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

### Mitigating Systems Performance Index, Emergency AC Power System



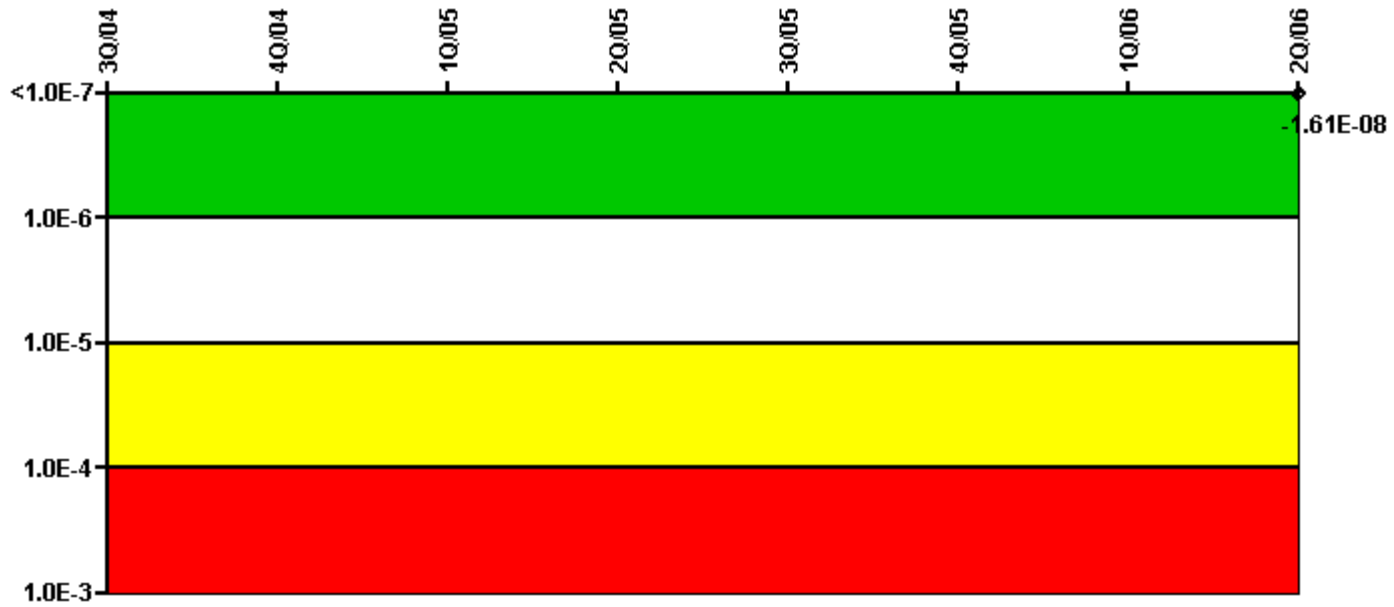
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

| Mitigating Systems Performance Index, Emergency AC Power System | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06     |
|---|-------|-------|-------|-------|-------|-------|-------|-----------|
| UAI (ΔCDF)  |       |       |       |       |       |       |       | 2.90E-08  |
| URI (ΔCDF)  |       |       |       |       |       |       |       | -7.70E-08 |
| PLE   |       |       |       |       |       |       |       | NO        |
| Indicator value   |       |       |       |       |       |       |       | -4.80E-08 |

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



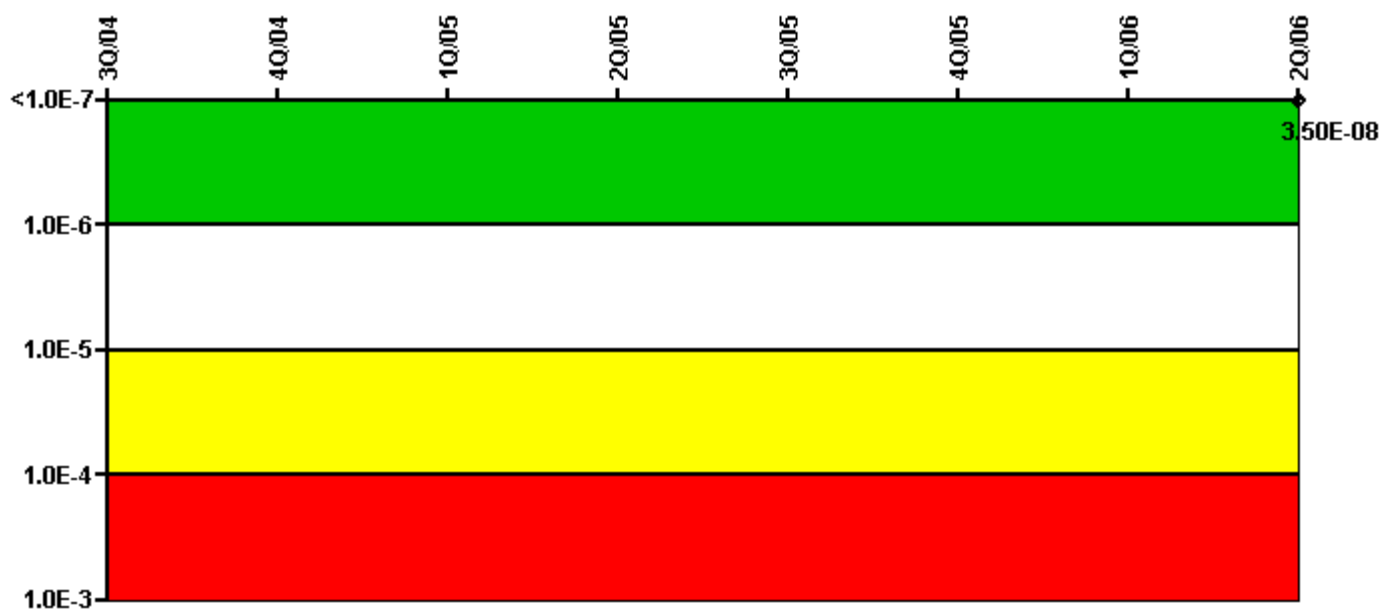
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06     |
|--|-------|-------|-------|-------|-------|-------|-------|-----------|
| UAI ( $\Delta$ CDF)  |       |       |       |       |       |       |       | -5.10E-09 |
| URI ( $\Delta$ CDF)  |       |       |       |       |       |       |       | -1.10E-08 |
| PLE  |       |       |       |       |       |       |       | NO        |
| Indicator value  |       |       |       |       |       |       |       | -1.61E-08 |

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



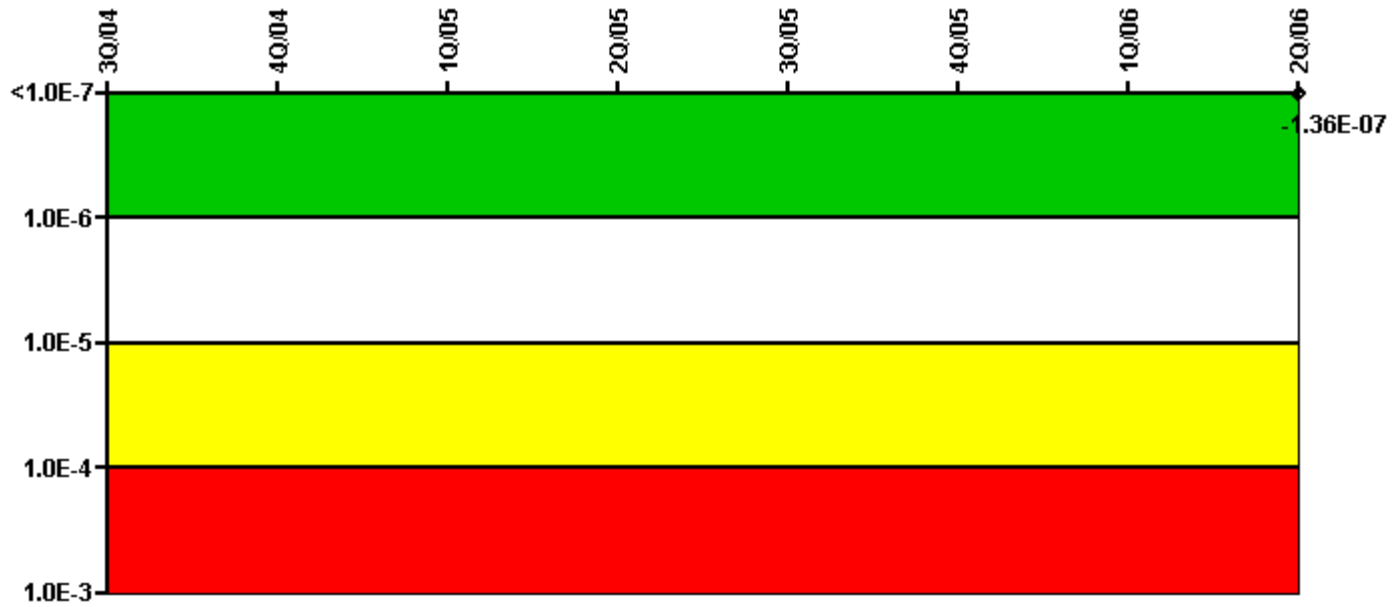
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

| Mitigating Systems Performance Index, Heat Removal System | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06    |
|---|-------|-------|-------|-------|-------|-------|-------|----------|
| UAI (ΔCDF)  |       |       |       |       |       |       |       | 1.40E-08 |
| URI (ΔCDF)  |       |       |       |       |       |       |       | 2.10E-08 |
| PLE   |       |       |       |       |       |       |       | NO       |
| Indicator value   |       |       |       |       |       |       |       | 3.50E-08 |

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White >  $1.00E-6$  Yellow >  $1.00E-5$  Red >  $1.00E-4$

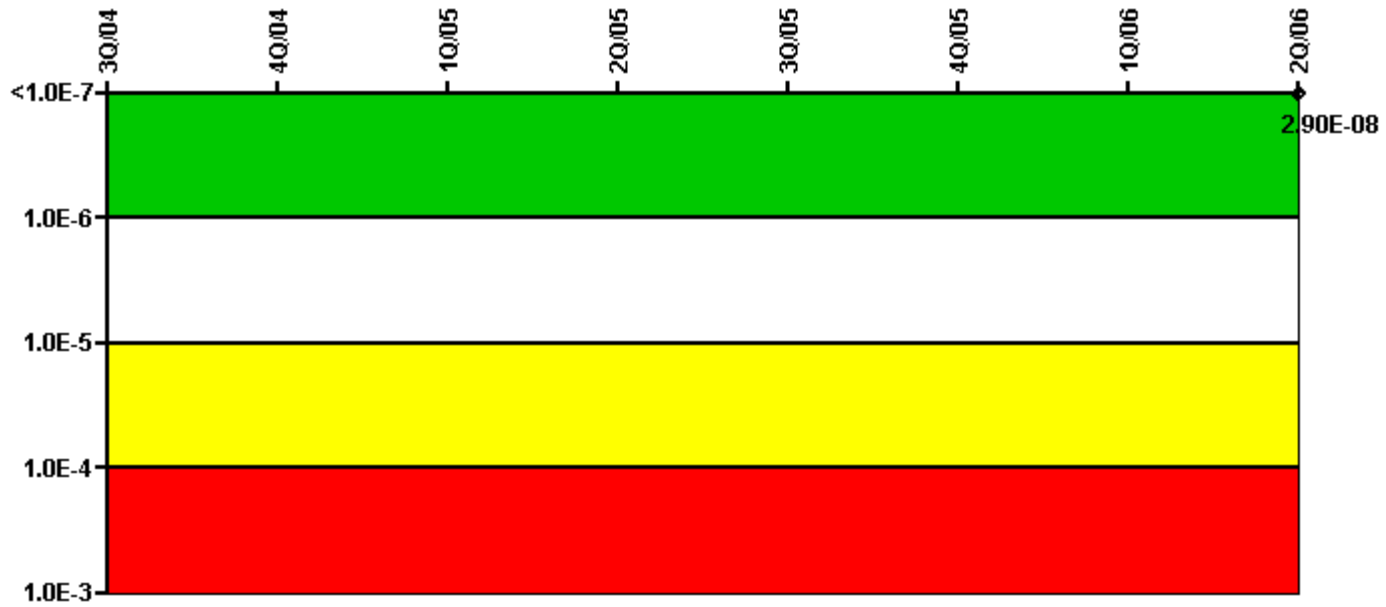
#### Notes

| Mitigating Systems Performance Index, Residual Heat Removal System | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06     |
|--|-------|-------|-------|-------|-------|-------|-------|-----------|
| UAI ( $\Delta$ CDF)  |       |       |       |       |       |       |       | -1.60E-08 |
| URI ( $\Delta$ CDF)  |       |       |       |       |       |       |       | -1.20E-07 |
| PLE  |       |       |       |       |       |       |       | NO        |
| Indicator value  |       |       |       |       |       |       |       | -1.36E-07 |

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



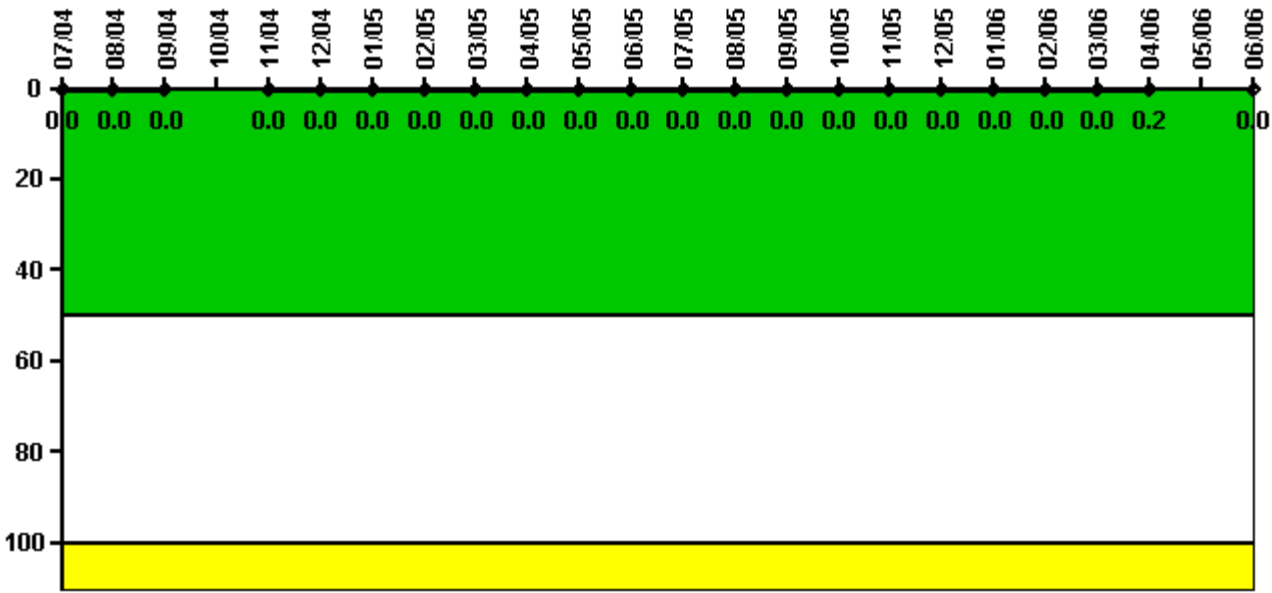
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

| Mitigating Systems Performance Index, Cooling Water Systems | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06     |
|---|-------|-------|-------|-------|-------|-------|-------|-----------|
| UAI (ΔCDF)  |       |       |       |       |       |       |       | 1.10E-07  |
| URI (ΔCDF)  |       |       |       |       |       |       |       | -8.10E-08 |
| PLE   |       |       |       |       |       |       |       | NO        |
| Indicator value   |       |       |       |       |       |       |       | 2.90E-08  |

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

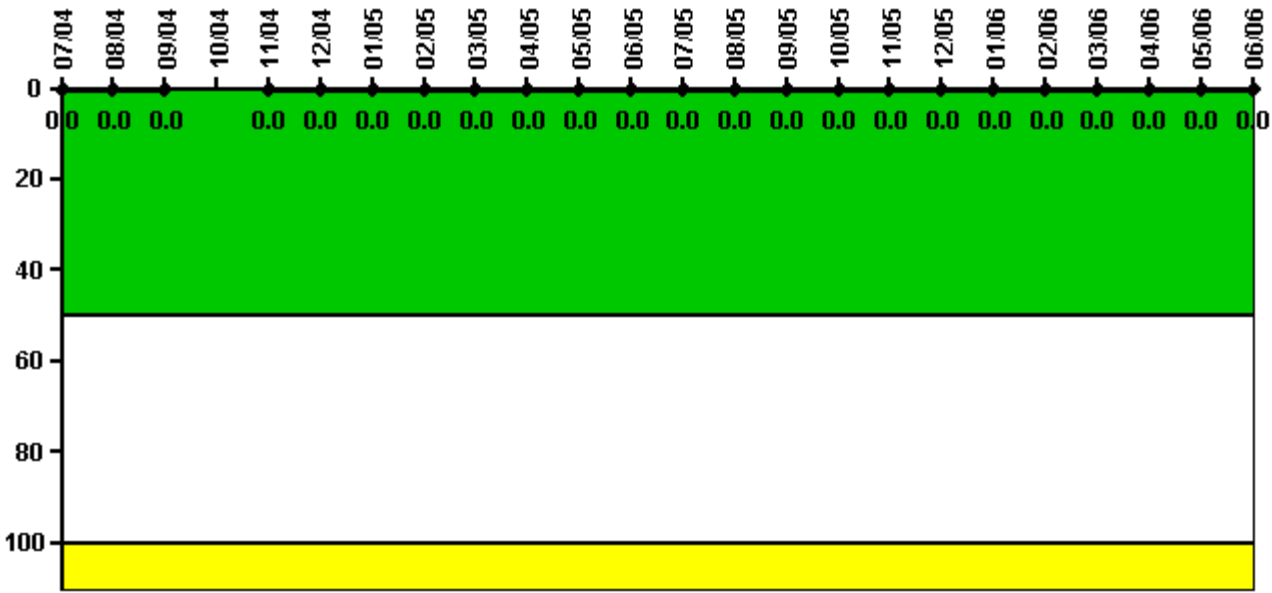
| Reactor Coolant System Activity | 7/04     | 8/04     | 9/04     | 10/04 | 11/04    | 12/04    | 1/05     | 2/05     | 3/05     | 4/05     | 5/05     | 6/05     |
|---------------------------------|----------|----------|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.000360 | 0.000370 | 0.000250 | N/A   | 0.000066 | 0.000150 | 0.000220 | 0.000170 | 0.000170 | 0.000180 | 0.000190 | 0.000210 |
| 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        | N/A   | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

| Reactor Coolant System Activity | 7/05     | 8/05     | 9/05     | 10/05    | 11/05    | 12/05    | 1/06     | 2/06     | 3/06     | 4/06     | 5/06 | 6/06     |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|----------|
| Maximum activity                | 0.000190 | 0.000230 | 0.000290 | 0.000220 | 0.000220 | 0.000220 | 0.000240 | 0.000220 | 0.000240 | 0.002100 | N/A  | 0.000100 |
| 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        | 0.2      | N/A  | 0        |

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

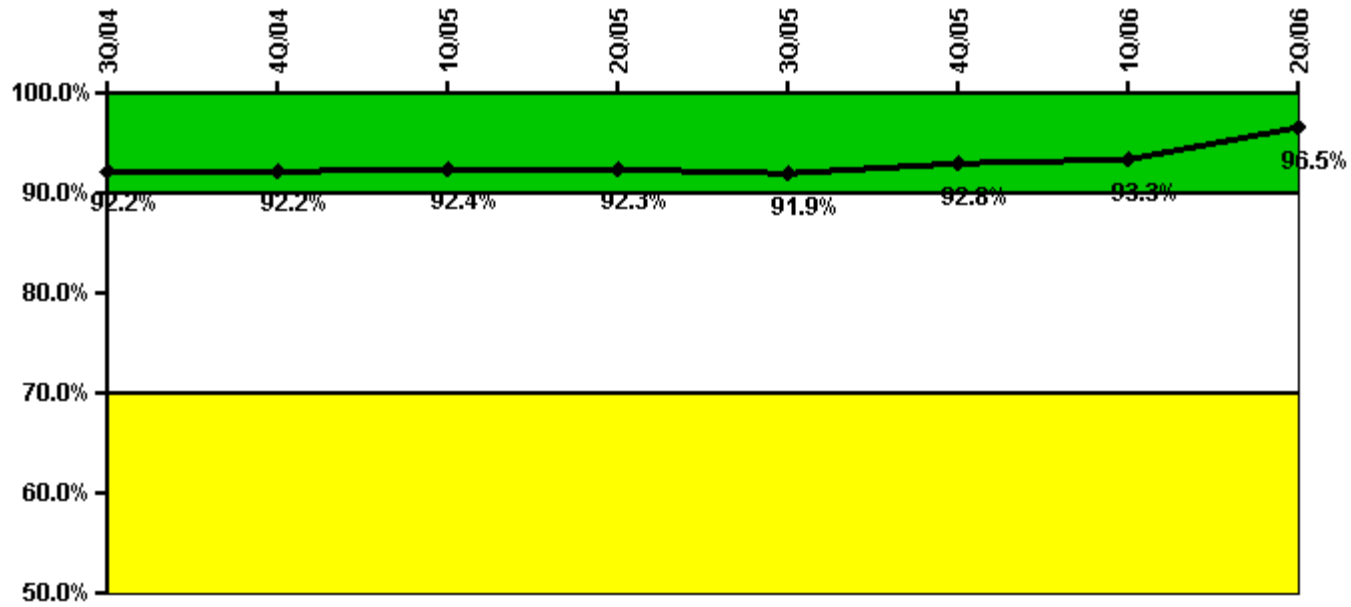
| Reactor Coolant System Leakage | 7/04 | 8/04 | 9/04 | 10/04 | 11/04 | 12/04 | 1/05 | 2/05 | 3/05 | 4/05 | 5/05 | 6/05 |
|--------------------------------|------|------|------|-------|-------|-------|------|------|------|------|------|------|
| Maximum leakage                | 0    | 0    | 0    | N/A   | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    |
| 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    | 0    | 0    | N/A   | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    |

| Reactor Coolant System Leakage | 7/05 | 8/05 | 9/05 | 10/05 | 11/05 | 12/05 | 1/06 | 2/06 | 3/06 | 4/06 | 5/06 | 6/06 |
|--------------------------------|------|------|------|-------|-------|-------|------|------|------|------|------|------|
| Maximum leakage                | 0    | 0    | 0    | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    |
| 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    | 0    | 0    | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    |

Licensee Comments: none

### Drill/Exercise Performance



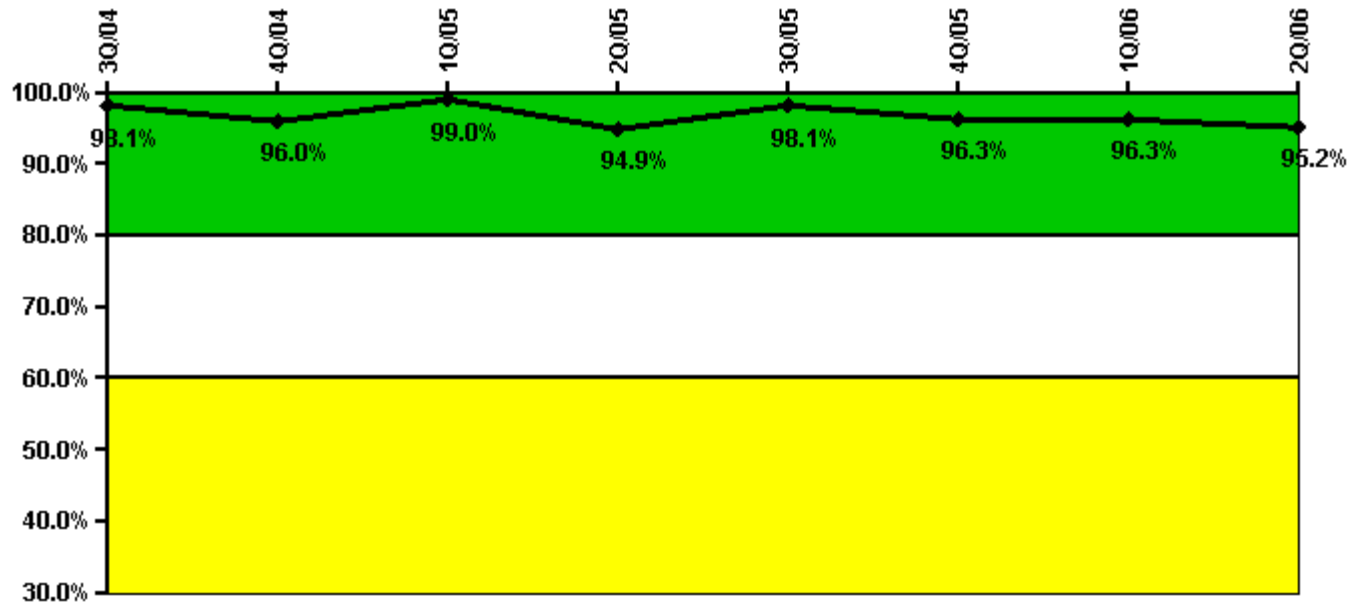
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

| Drill/Exercise Performance | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 30.0  | 10.0  | 33.0  | 10.0  | 26.0  | 40.0  | 20.0  | 133.0 |
| Total opportunities        | 32.0  | 10.0  | 34.0  | 10.0  | 30.0  | 41.0  | 20.0  | 136.0 |
| Indicator value            | 92.2% | 92.2% | 92.4% | 92.3% | 91.9% | 92.8% | 93.3% | 96.5% |

Licensee Comments: none

### ERO Drill Participation



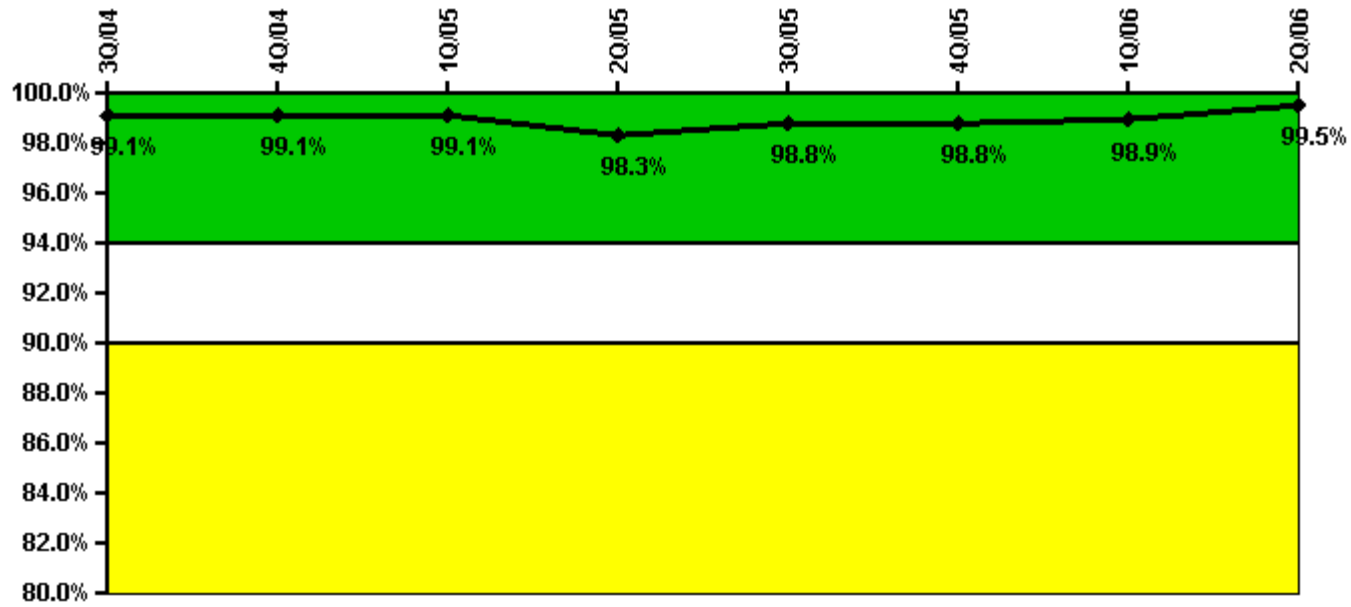
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

| ERO Drill Participation     | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Participating Key personnel | 101.0 | 96.0  | 100.0 | 150.0 | 157.0 | 156.0 | 155.0 | 160.0 |
| Total Key personnel         | 103.0 | 100.0 | 101.0 | 158.0 | 160.0 | 162.0 | 161.0 | 168.0 |
| Indicator value             | 98.1% | 96.0% | 99.0% | 94.9% | 98.1% | 96.3% | 96.3% | 95.2% |

Licensee Comments: none

### Alert & Notification System



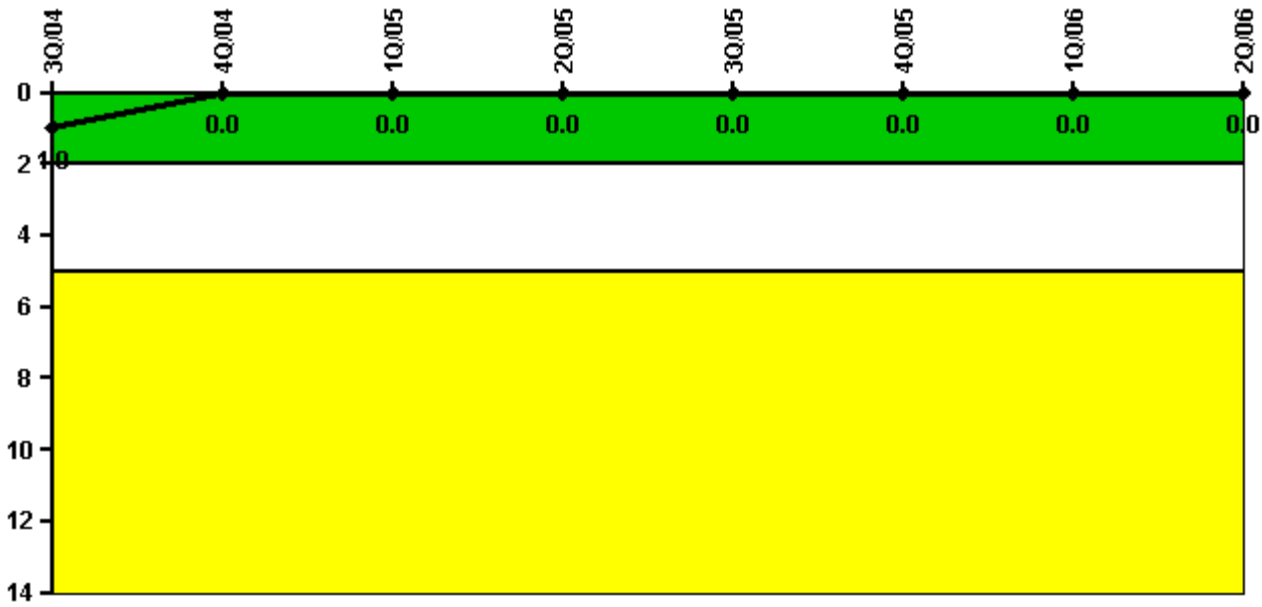
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

| Alert & Notification System | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests      | 1332  | 1361  | 1356  | 1357  | 1397  | 1437  | 1439  | 1434  |
| Total sirens-tests          | 1365  | 1365  | 1365  | 1404  | 1404  | 1443  | 1443  | 1443  |
| Indicator value             | 99.1% | 99.1% | 99.1% | 98.3% | 98.8% | 98.8% | 98.9% | 99.5% |

Licensee Comments: none

### Occupational Exposure Control Effectiveness



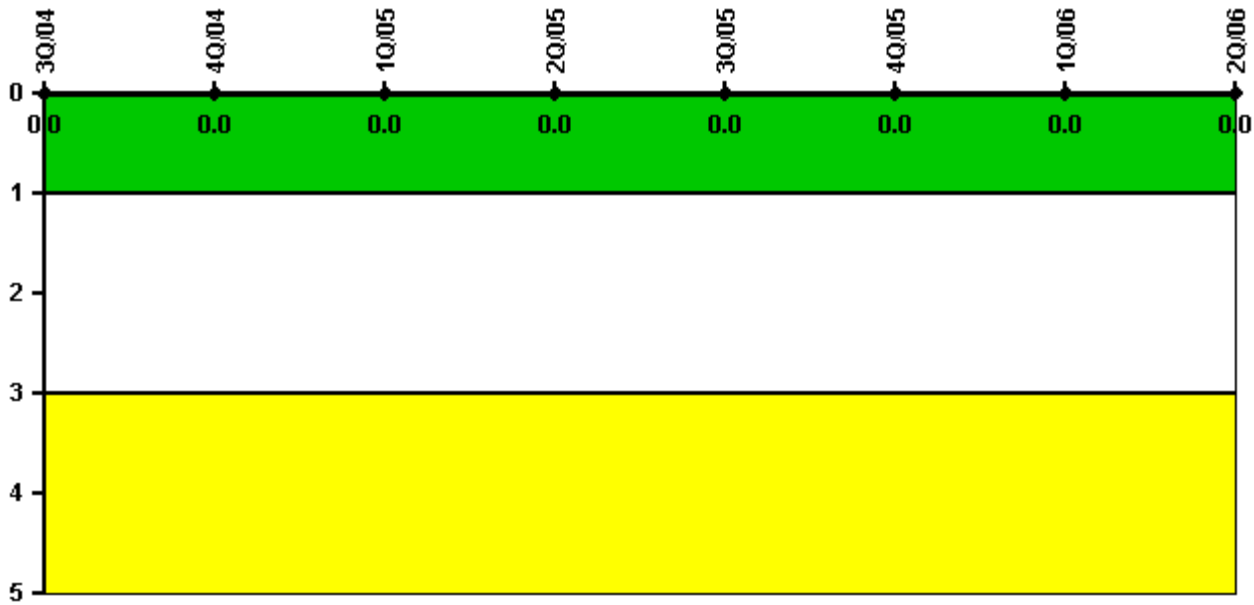
Thresholds: White > 2.0 Yellow > 5.0

**Notes**

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

Last Modified: August 2, 2006