

## Prairie Island 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**

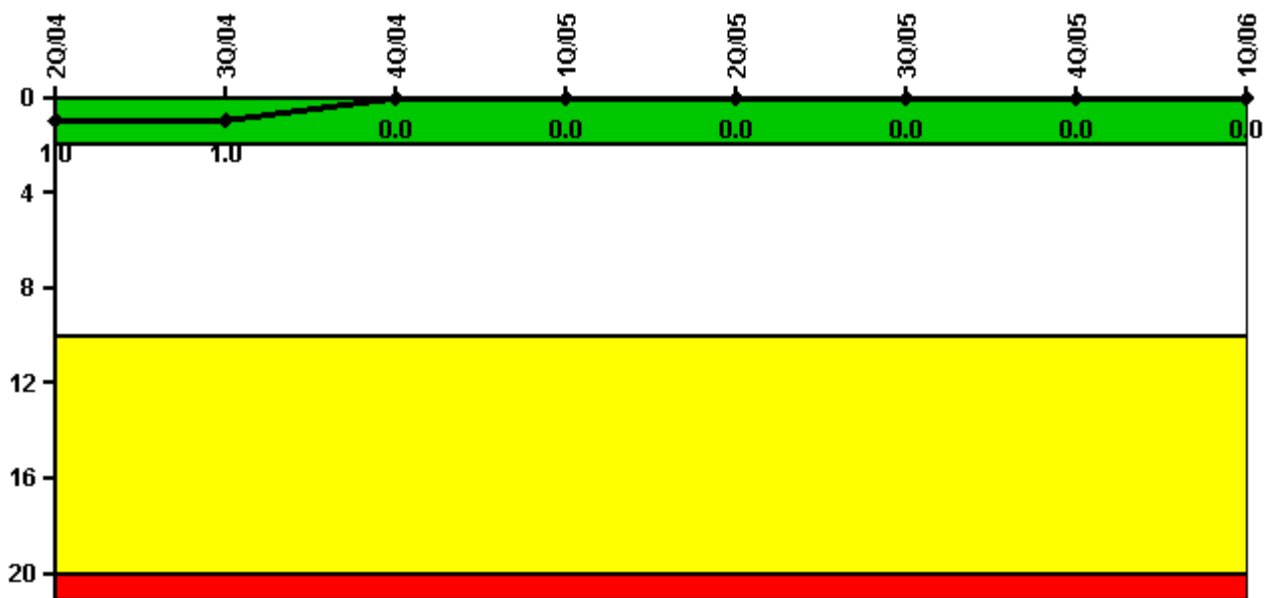
#### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/04  | 3Q/04  | 4Q/04  | 1Q/05  | 2Q/05 | 3Q/05  | 4Q/05  | 1Q/06  |
|--|--------|--------|--------|--------|-------|--------|--------|--------|
| Unplanned scrams                       | 0      | 0      | 0      | 0      | 0     | 0      | 0      | 0      |
| Critical hours                         | 2183.0 | 2208.0 | 2171.8 | 2122.6 | 800.6 | 2208.0 | 2209.0 | 1806.1 |
| Indicator value                        | 0      | 0      | 0      | 0      | 0     | 0      | 0      | 0      |

Licensee Comments: none

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### Scrams with Loss of Normal Heat Removal



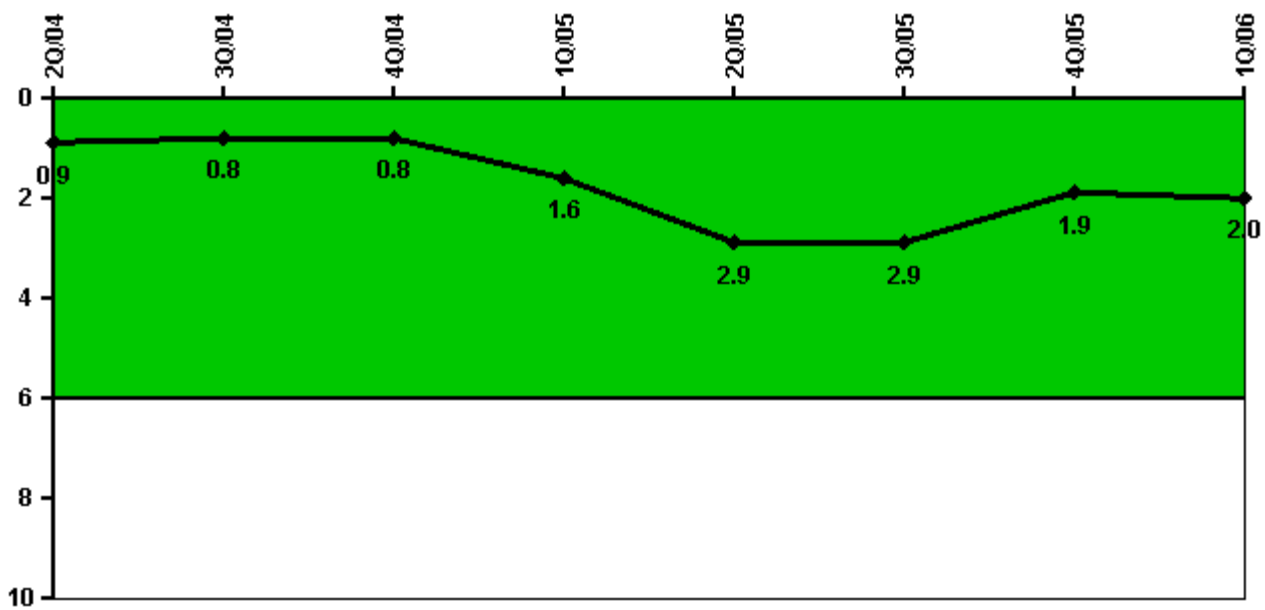
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### 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                                  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Indicator value                         | 1.0   | 1.0   | 0     | 0     | 0     | 0     | 0     | 0     |

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



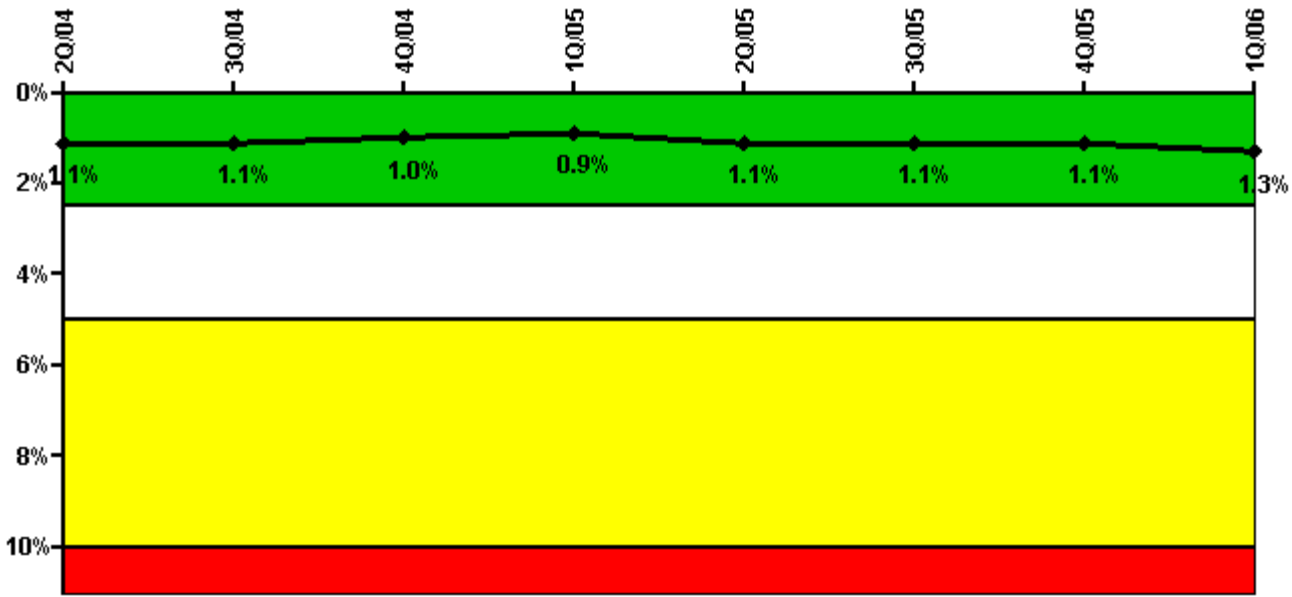
Thresholds: White > 6.0

#### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/04  | 3Q/04  | 4Q/04  | 1Q/05  | 2Q/05 | 3Q/05  | 4Q/05  | 1Q/06  |
|---|--------|--------|--------|--------|-------|--------|--------|--------|
| Unplanned power changes                       | 0      | 0      | 1.0    | 1.0    | 1.0   | 0      | 0      | 1.0    |
| Critical hours                                | 2183.0 | 2208.0 | 2171.8 | 2122.6 | 800.6 | 2208.0 | 2209.0 | 1806.1 |
| Indicator value                               | 0.9    | 0.8    | 0.8    | 1.6    | 2.9   | 2.9    | 1.9    | 2.0    |

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power



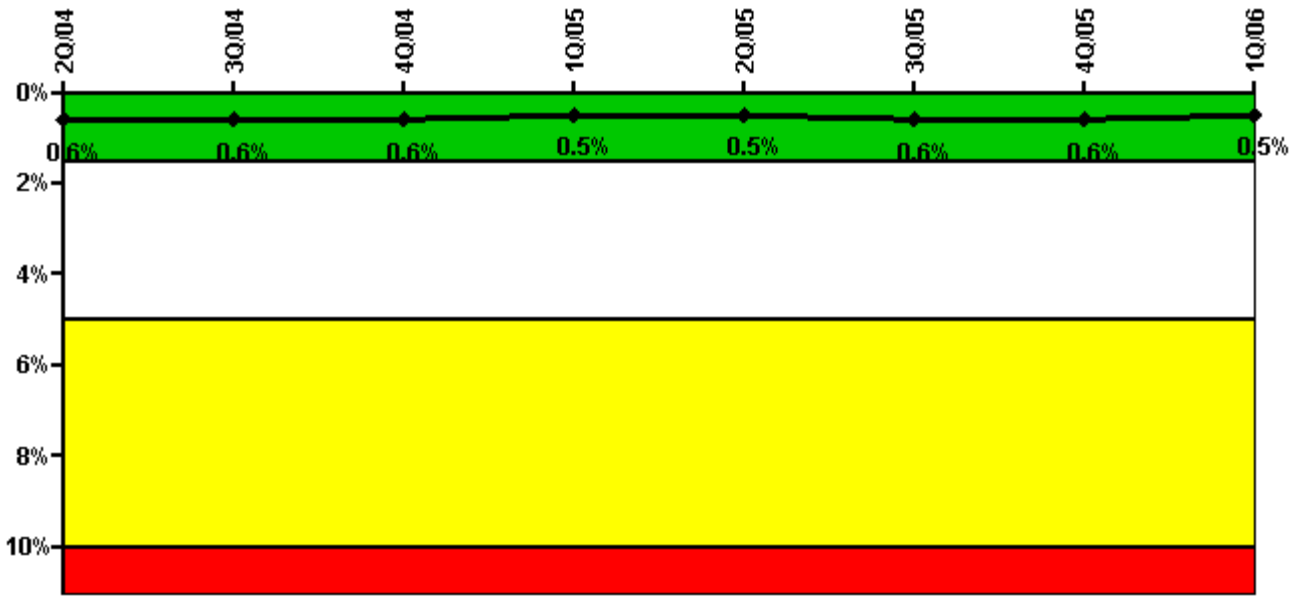
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

#### 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                        | 13.52       | 1.77        | 1.98        | 114.57      | 0           | 13.28       | 0           | 0           |
| Unplanned unavailable hours                      | 111.28      | 0           | 0           | 0           | 140.62      | 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>Train 2</b>                                   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                        | 0           | 14.75       | 13.17       | 0           | 0           | 0           | 0           | 96.56       |
| Unplanned unavailable hours                      | 0           | 29.05       | 7.63        | 0           | 0           | 0           | 0           | 72.03       |
| 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>1.1%</b> | <b>1.1%</b> | <b>1.0%</b> | <b>0.9%</b> | <b>1.1%</b> | <b>1.1%</b> | <b>1.1%</b> | <b>1.3%</b> |

Licensee Comments: none

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



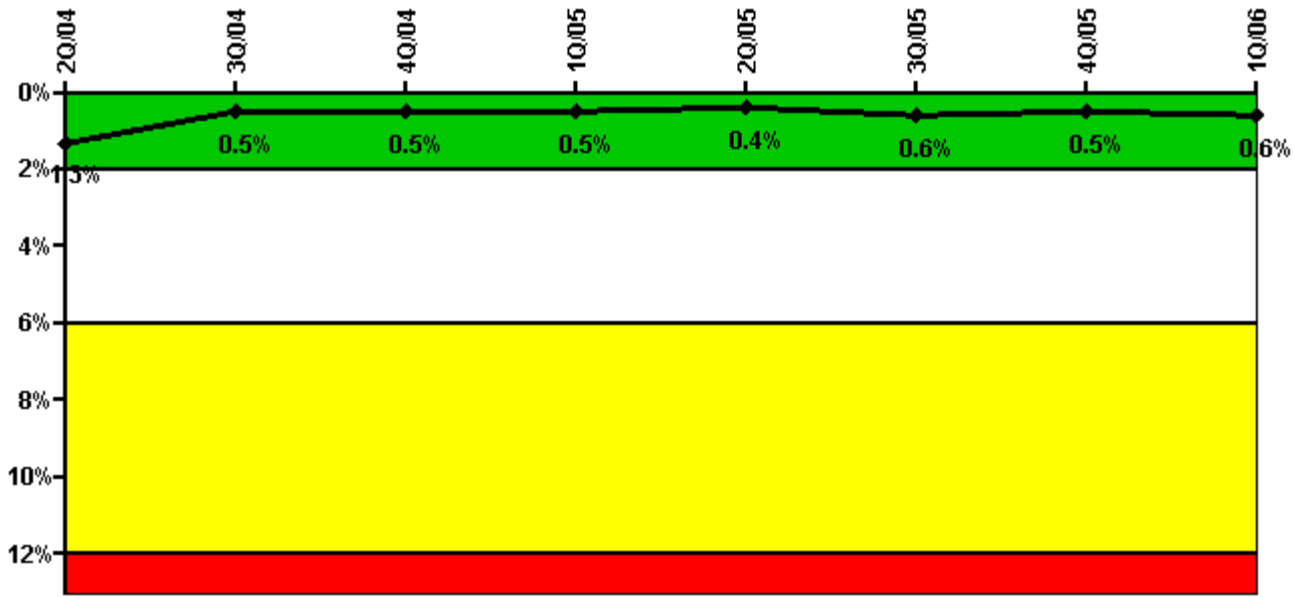
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### 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   | 9.72        | 21.65       | 0.30        | 11.22       | 3.65        | 2.49        | 2.83        | 19.22       |
| Unplanned unavailable hours   | 0           | 0           | 0           | 0           | 0           | 22.18       | 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     | 2171.80     | 2122.60     | 800.59      | 2208.00     | 2209.00     | 1806.10     |
| <b>Train 2</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours   | 4.55        | 20.71       | 4.28        | 8.19        | 1.69        | 16.92       | 21.54       | 1.15        |
| Unplanned unavailable hours   | 0           | 0           | 2.22        | 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  | 2183.00     | 2208.00     | 2171.80     | 2122.60     | 800.59      | 2208.00     | 2209.00     | 1806.10     |
| <b>Indicator value</b>  | <b>0.6%</b> | <b>0.6%</b> | <b>0.6%</b> | <b>0.5%</b> | <b>0.5%</b> | <b>0.6%</b> | <b>0.6%</b> | <b>0.5%</b> |

Licensee Comments: none

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



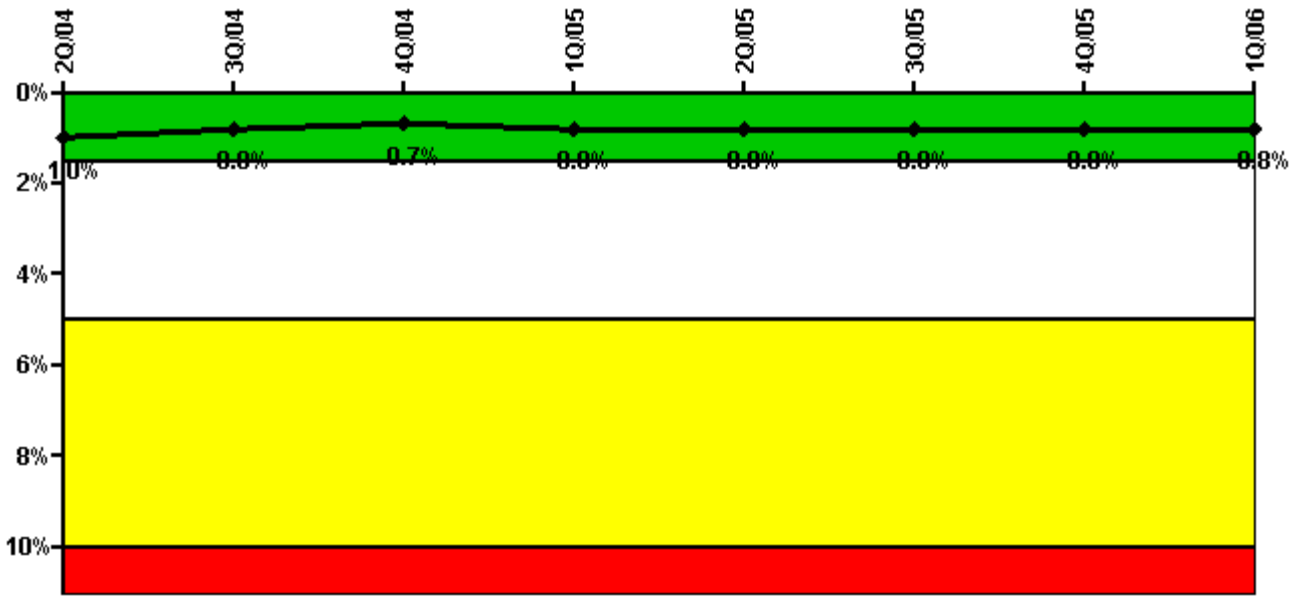
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

#### 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                               | 6.32        | 13.08       | 1.05        | 18.35       | 3.80        | 22.22       | 2.50        | 9.20        |
| Unplanned unavailable hours                             | 0           | 0           | 7.22        | 7.58        | 0           | 22.18       | 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     | 2171.80     | 2122.60     | 800.59      | 2208.00     | 2209.00     | 1806.10     |
| <b>Train 2</b>  |             |             |             |             |             |             |             |             |
| Planned unavailable hours                               | 7.58        | 8.27        | 4.85        | 2.75        | 0.82        | 18.47       | 11.72       | 2.65        |
| 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  | 2183.00     | 2208.00     | 2171.80     | 2122.60     | 800.59      | 2208.00     | 2209.00     | 1806.10     |
| <b>Indicator value</b>                                  | <b>1.3%</b> | <b>0.5%</b> | <b>0.5%</b> | <b>0.5%</b> | <b>0.4%</b> | <b>0.6%</b> | <b>0.5%</b> | <b>0.6%</b> |

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



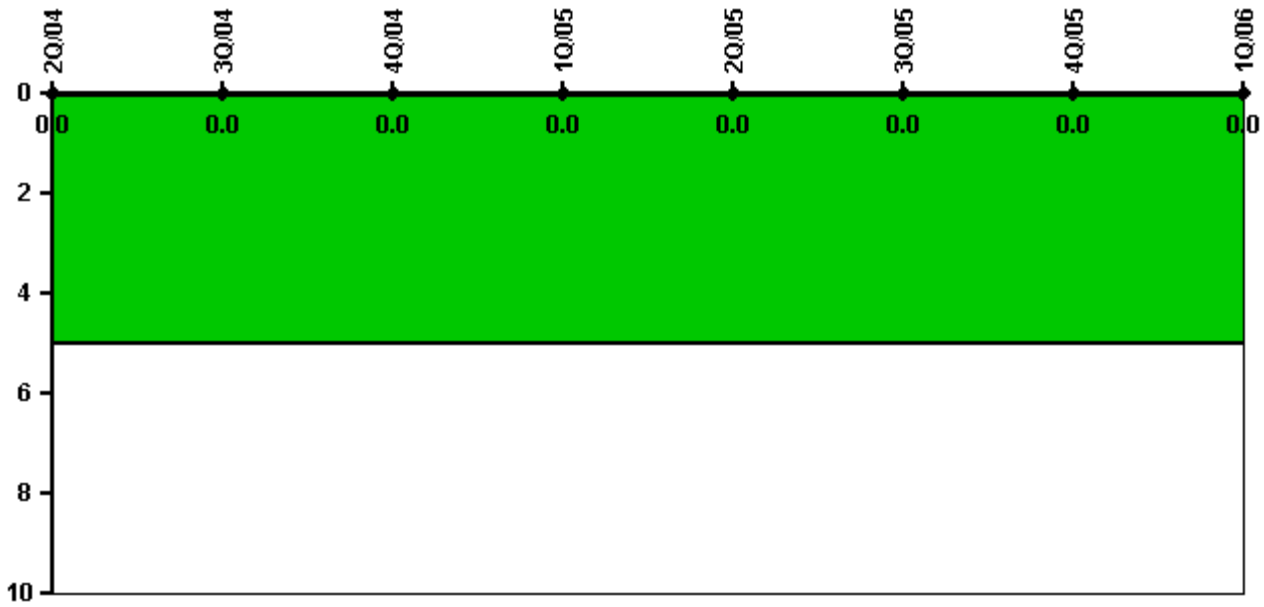
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### 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                                  | 12.69       | 18.32       | 3.18        | 16.51       | 4.90        | 5.66        | 6.43        | 19.22       |
| Unplanned unavailable hours                                | 0           | 0           | 0           | 0           | 4.26        | 22.18       | 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>Train 2</b>   |             |             |             |             |             |             |             |             |
| Planned unavailable hours                                  | 6.80        | 22.34       | 8.10        | 14.03       | 7.27        | 19.47       | 21.54       | 0.87        |
| Unplanned unavailable hours                                | 0           | 0           | 2.22        | 0           | 43.36       | 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>1.0%</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> | <b>0.8%</b> |

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

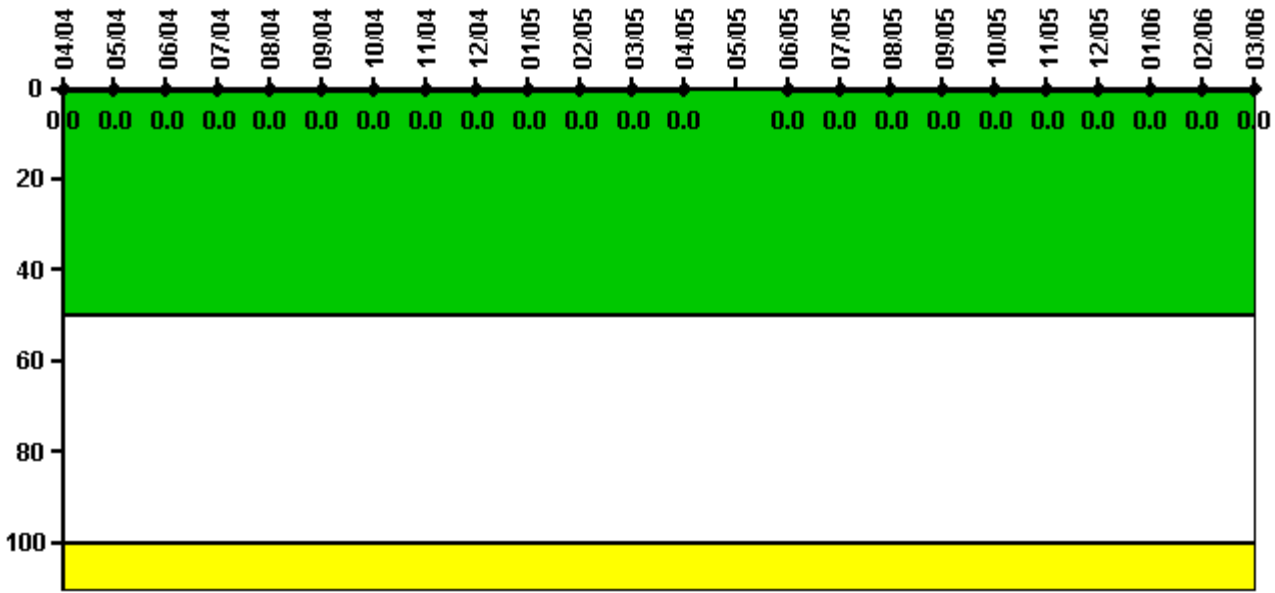
#### Notes

| 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     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Indicator value                         | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |

Licensee Comments: none



### Reactor Coolant System Activity



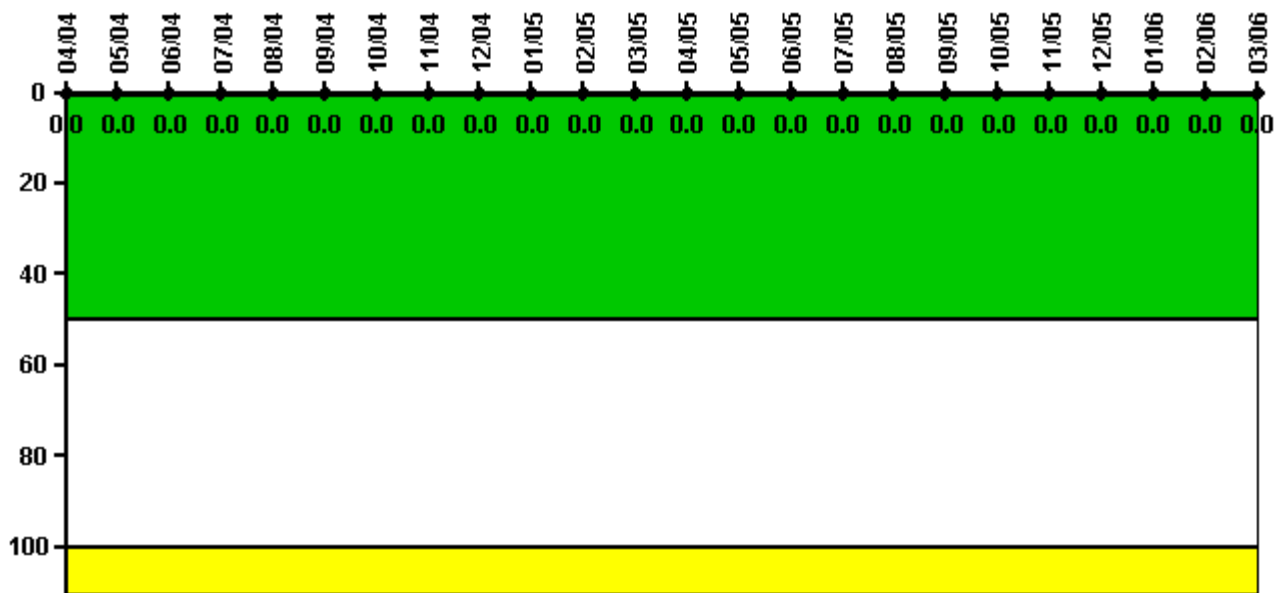
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

| Reactor Coolant System Activity | 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                | 0.000220 | 0.000230 | 0.000250 | 0.000260 | 0.000250 | 0.000270 | 0.000290 | 0.000290 | 0.000280 | 0.000310 | 0.000290 | 0.000270 |
| 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        |
| 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                | 0.000430 | N/A      | 0.000310 | 0.000210 | 0.000270 | 0.000210 | 0.000210 | 0.000250 | 0.000250 | 0.000270 | 0.000250 | 0.000260 |
| 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        | N/A      | 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

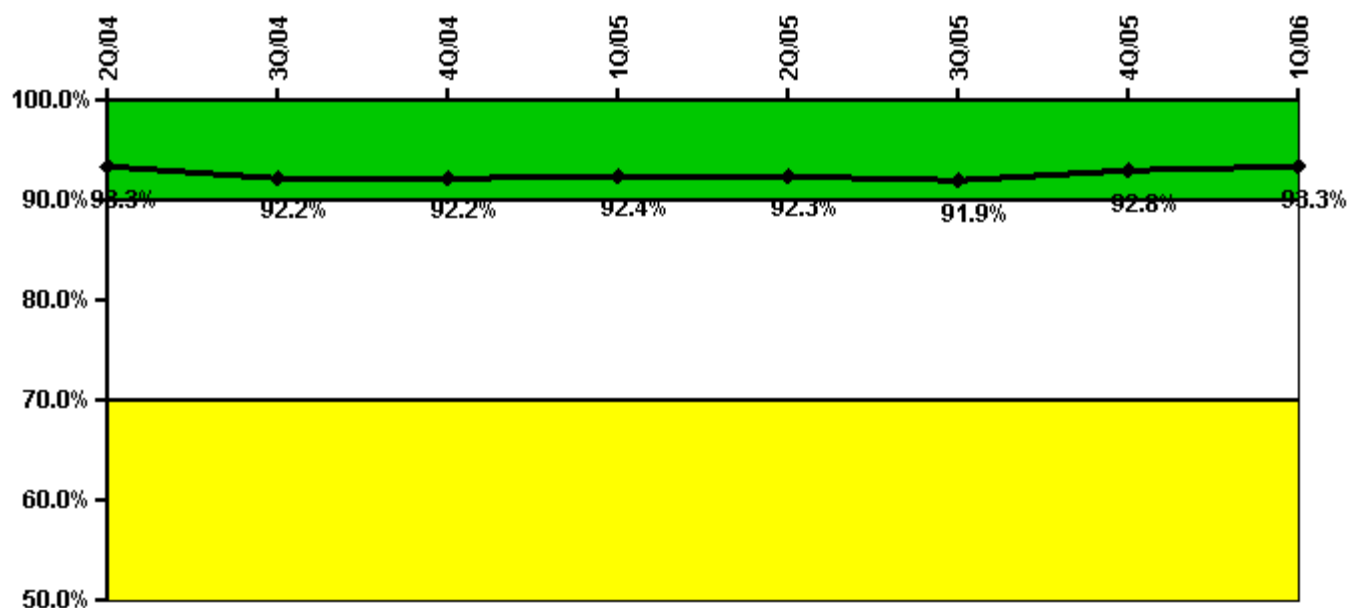
| Reactor Coolant System Leakage | 4/04 | 5/04 | 6/04 | 7/04 | 8/04 | 9/04 | 10/04 | 11/04 | 12/04 | 1/05 | 2/05 | 3/05 |
|--------------------------------|------|------|------|------|------|------|-------|-------|-------|------|------|------|
| Maximum leakage                | 0    | 0    | 0    | 0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

| 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    | 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



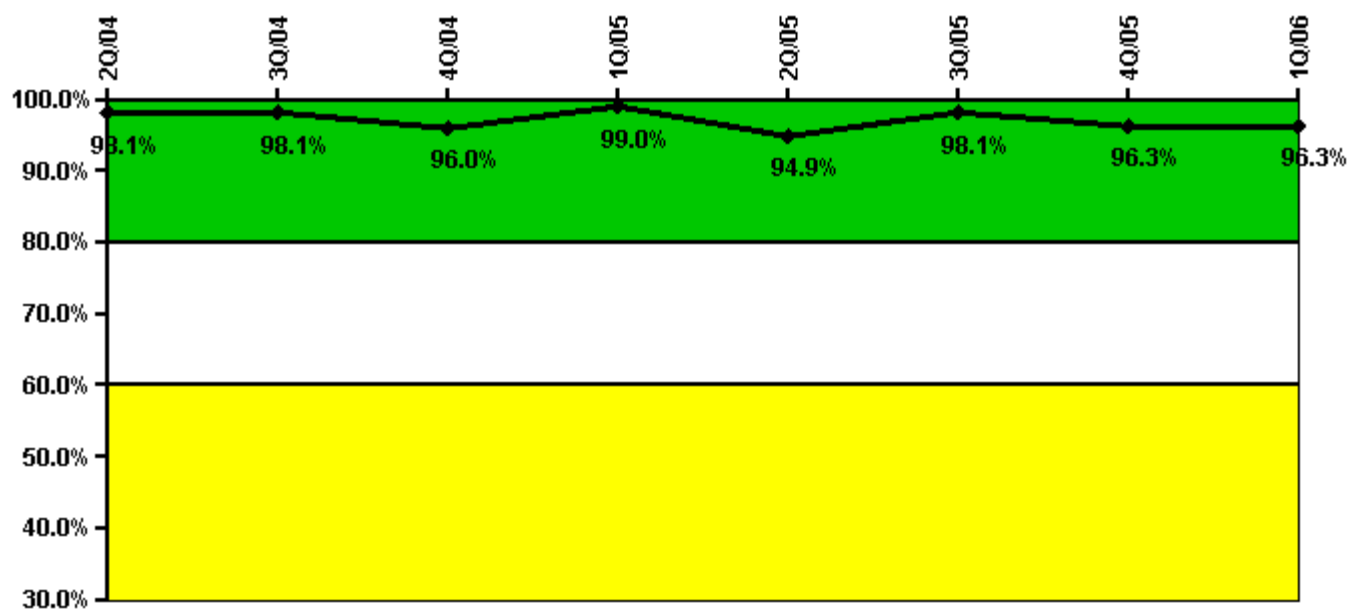
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

| Drill/Exercise Performance | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 27.0  | 30.0  | 10.0  | 33.0  | 10.0  | 26.0  | 40.0  | 20.0  |
| Total opportunities        | 33.0  | 32.0  | 10.0  | 34.0  | 10.0  | 30.0  | 41.0  | 20.0  |
| Indicator value            | 93.3% | 92.2% | 92.2% | 92.4% | 92.3% | 91.9% | 92.8% | 93.3% |

Licensee Comments: none

### ERO Drill Participation



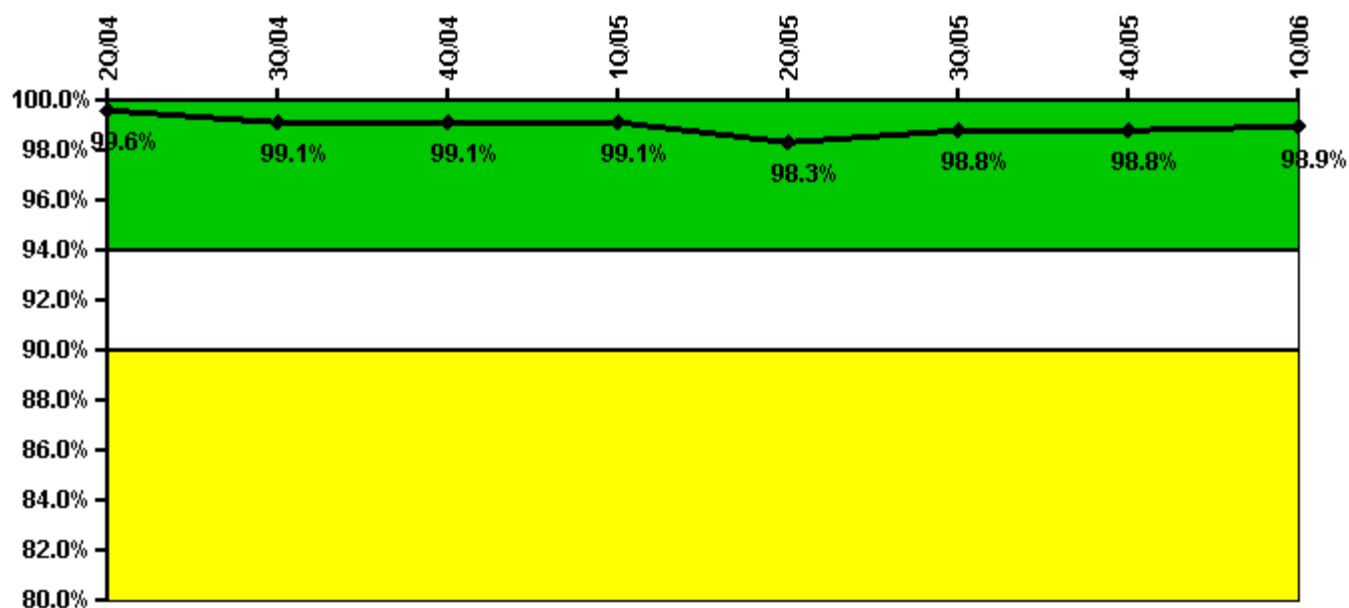
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

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

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      | 1363  | 1332  | 1361  | 1356  | 1357  | 1397  | 1437  | 1439  |
| Total sirens-tests          | 1365  | 1365  | 1365  | 1365  | 1404  | 1404  | 1443  | 1443  |
| Indicator value             | 99.6% | 99.1% | 99.1% | 99.1% | 98.3% | 98.8% | 98.8% | 98.9% |

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>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 | 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](#)

Last Modified: May 5, 2006