

# Wolf Creek 1

## 1Q/2008 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



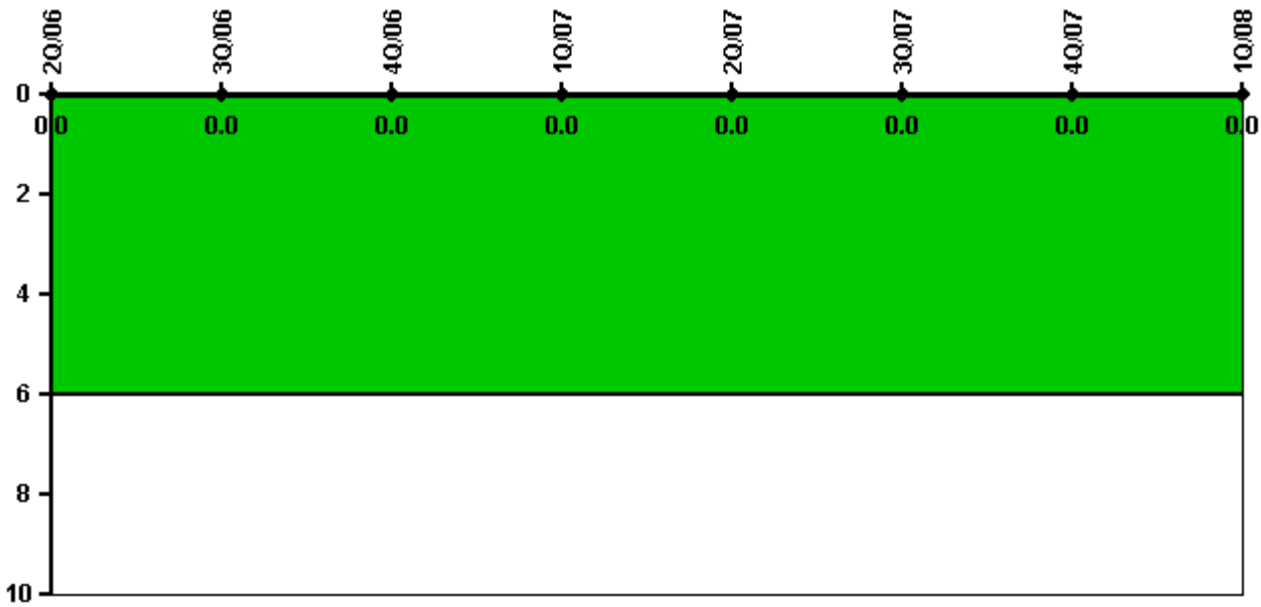
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/06  | 3Q/06  | 4Q/06  | 1Q/07  | 2Q/07  | 3Q/07  | 4Q/07  | 1Q/08  |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1.0    |
| Critical hours                         | 2183.0 | 2208.0 | 1405.1 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 1733.8 |
| Indicator value                        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0.8    |

Licensee Comments: none

# Unplanned Power Changes per 7000 Critical Hrs



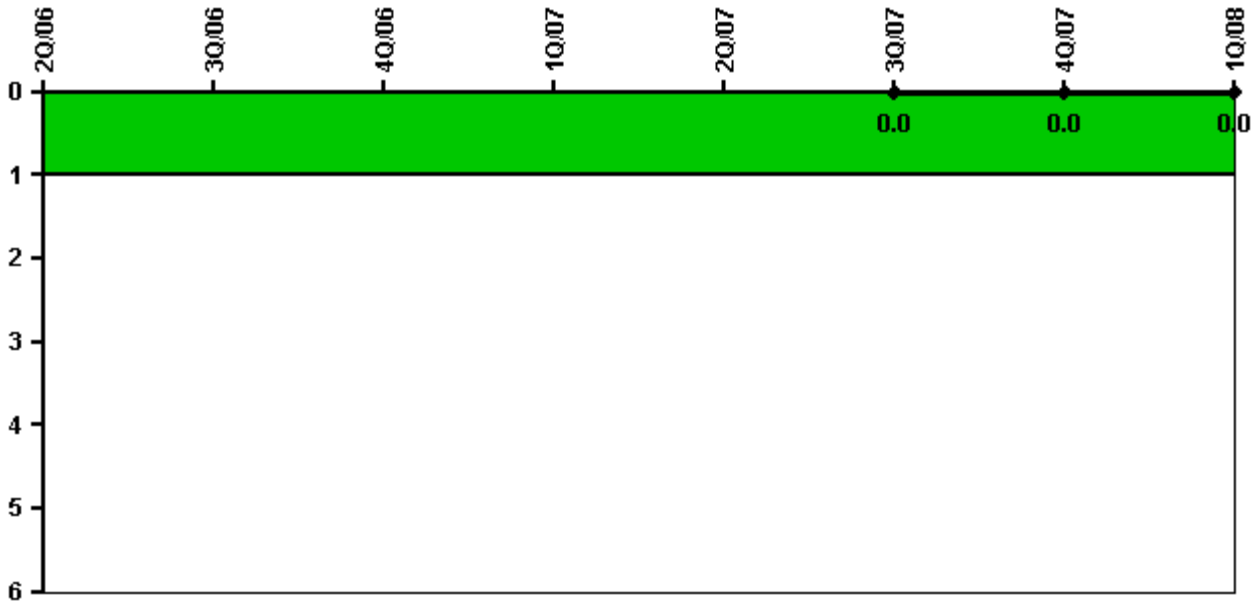
Thresholds: White > 6.0

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/06  | 3Q/06  | 4Q/06  | 1Q/07  | 2Q/07  | 3Q/07  | 4Q/07  | 1Q/08  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Critical hours                                | 2183.0 | 2208.0 | 1405.1 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 1733.8 |
| Indicator value                               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |

Licensee Comments: none

# Unplanned Scrams with Complications



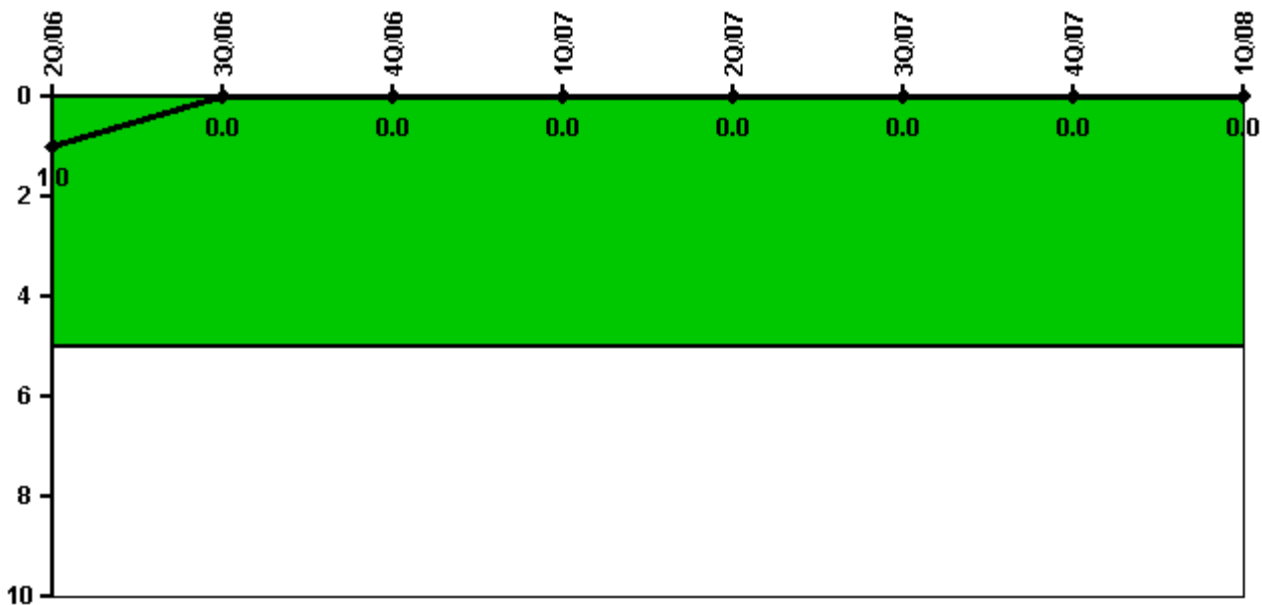
Thresholds: White > 1.0

## Notes

| Unplanned Scrams with Complications | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Scrams with complications           |       |       | 0     | 0     | 0     | 0     | 0     | 0     |
|                                     |       |       |       |       |       |       |       |       |
|                                     |       |       |       |       |       |       |       |       |
| Indicator value                     |       |       |       |       |       | 0.0   | 0.0   | 0.0   |

Licensee Comments: none

# Safety System Functional Failures (PWR)



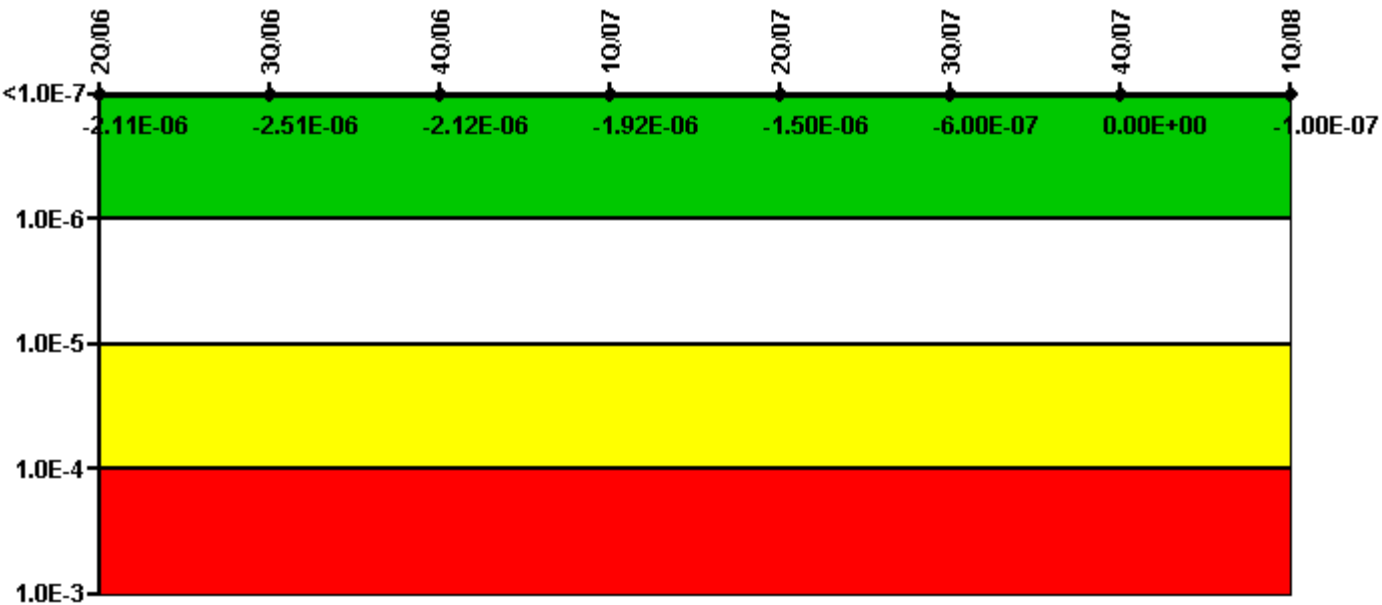
Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Safety System Functional Failures       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Indicator value                         | 1     | 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

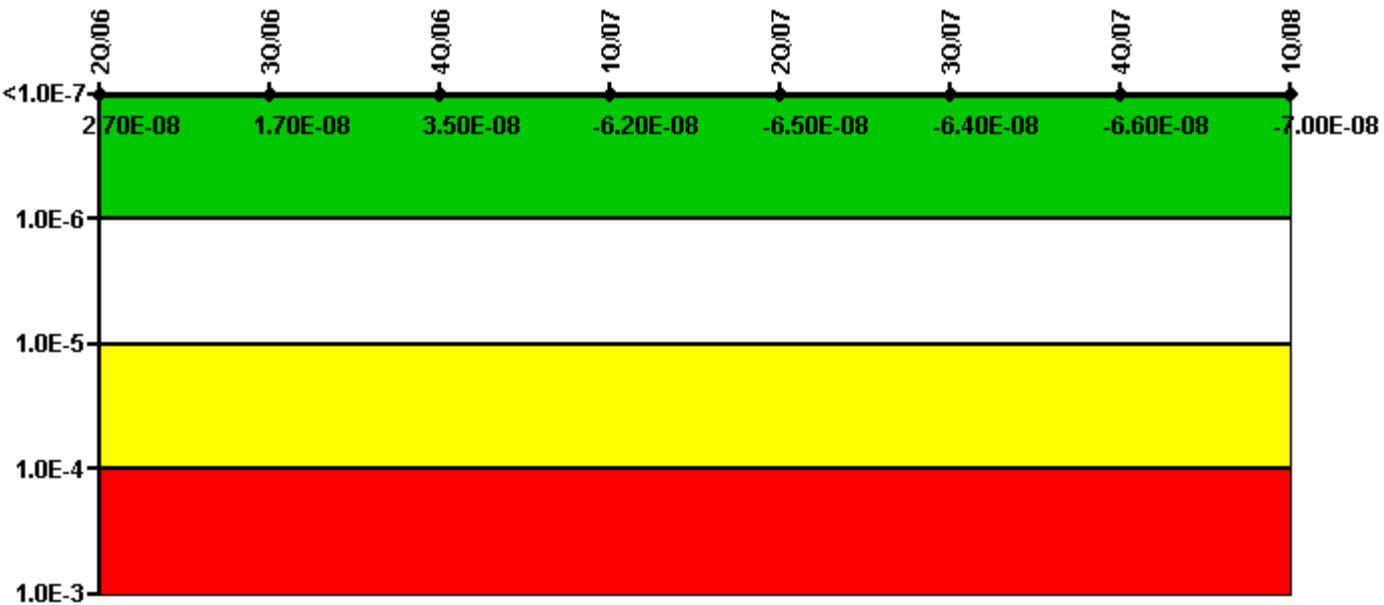
## Notes

| Mitigating Systems Performance Index, Emergency AC Power System | 2Q/06     | 3Q/06     | 4Q/06     | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (ΔCDF)  | 6.90E-07  | 3.90E-07  | 6.80E-07  | 6.80E-07  | 9.00E-07  | 1.60E-06  | 1.90E-06  | 1.40E-06  |
| URI (ΔCDF)  | -2.80E-06 | -2.90E-06 | -2.80E-06 | -2.60E-06 | -2.40E-06 | -2.20E-06 | -1.90E-06 | -1.50E-06 |
| PLE   | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | -2.11E-06 | -2.51E-06 | -2.12E-06 | -1.92E-06 | -1.50E-06 | -6.00E-07 | 0.00E+00  | -1.00E-07 |

Licensee Comments:

1Q/08: Risk Cap Invoked. Changed PRA Parameter(s).

# Mitigating Systems Performance Index, High Pressure Injection System



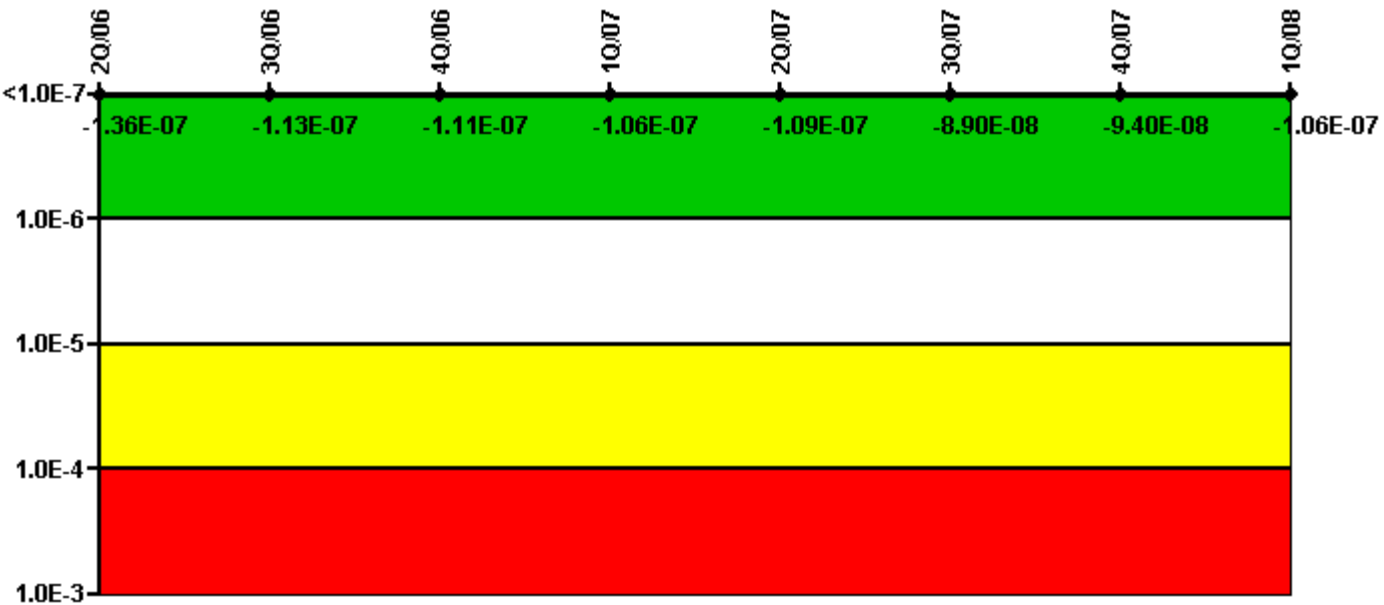
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 2Q/06     | 3Q/06     | 4Q/06     | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)  | 1.10E-07  | 1.00E-07  | 1.20E-07  | 1.70E-08  | 1.70E-08  | 1.70E-08  | 1.50E-08  | 1.50E-08  |
| URI ( $\Delta$ CDF)  | -8.30E-08 | -8.30E-08 | -8.50E-08 | -7.90E-08 | -8.20E-08 | -8.10E-08 | -8.10E-08 | -8.50E-08 |
| PLE  | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value  | 2.70E-08  | 1.70E-08  | 3.50E-08  | 6.20E-08  | 6.50E-08  | 6.40E-08  | 6.60E-08  | 7.00E-08  |

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



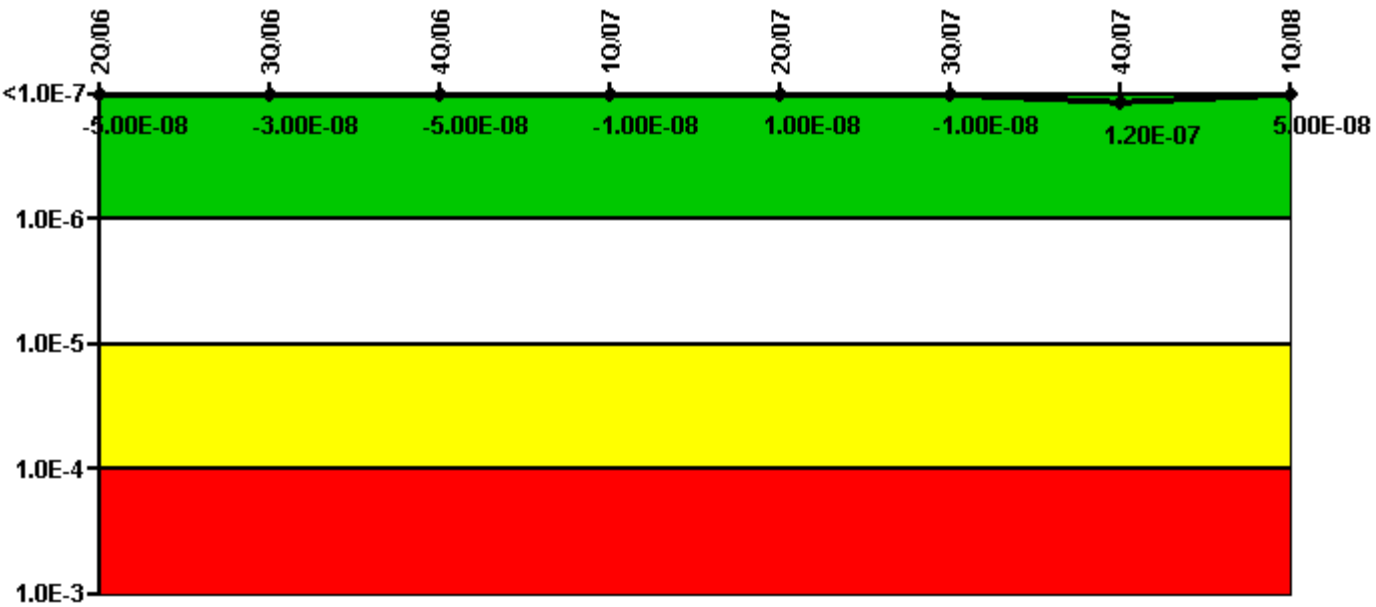
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Heat Removal System | 2Q/06     | 3Q/06     | 4Q/06     | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)                                       | 3.40E-08  | 5.70E-08  | 5.90E-08  | 6.40E-08  | 6.10E-08  | 8.10E-08  | 6.60E-08  | 5.40E-08  |
| URI ( $\Delta$ CDF)                                       | -1.70E-07 | -1.70E-07 | -1.70E-07 | -1.70E-07 | -1.70E-07 | -1.70E-07 | -1.60E-07 | -1.60E-07 |
| PLE   | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | -1.36E-07 | -1.13E-07 | -1.11E-07 | -1.06E-07 | -1.09E-07 | -8.90E-08 | -9.40E-08 | -1.06E-07 |

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



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

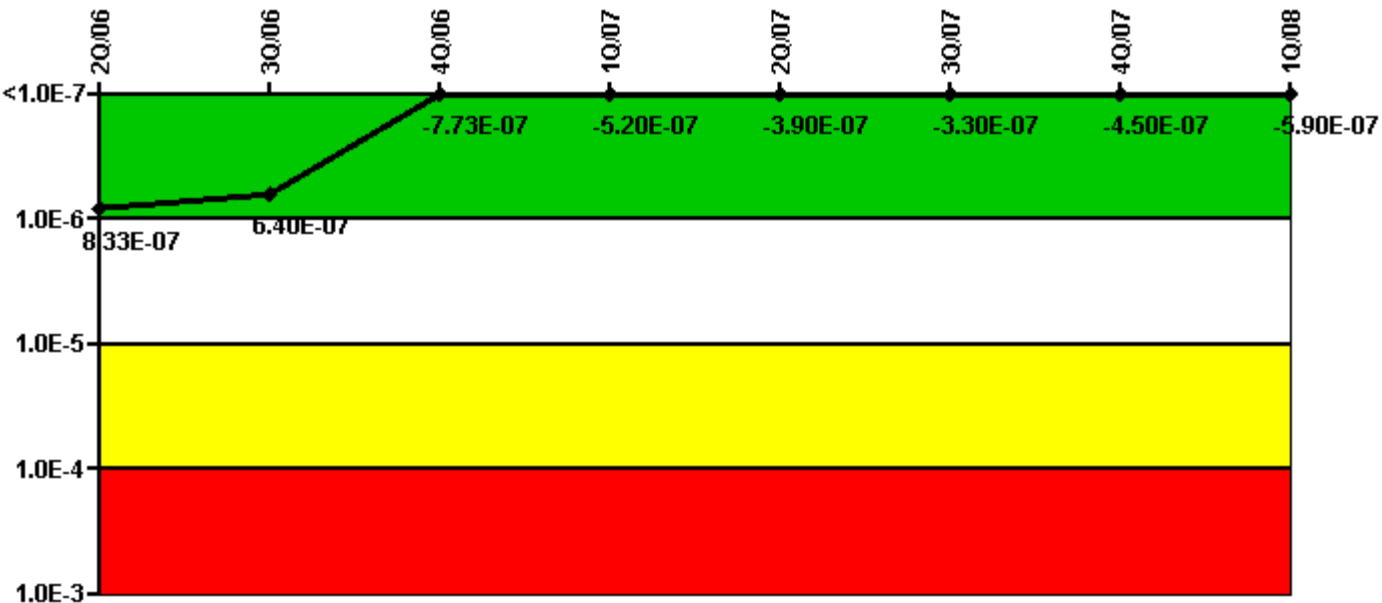
## Notes

| Mitigating Systems Performance Index, Residual Heat Removal System | 2Q/06     | 3Q/06     | 4Q/06     | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)  | 2.20E-07  | 2.40E-07  | 2.10E-07  | 2.60E-07  | 2.70E-07  | 2.60E-07  | 3.80E-07  | 3.50E-07  |
| URI ( $\Delta$ CDF)  | -2.70E-07 | -2.70E-07 | -2.60E-07 | -2.70E-07 | -2.60E-07 | -2.70E-07 | -2.60E-07 | -3.00E-07 |
| PLE  | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value  | -5.00E-08 | -3.00E-08 | -5.00E-08 | -1.00E-08 | 1.00E-08  | -1.00E-08 | 1.20E-07  | 5.00E-08  |

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



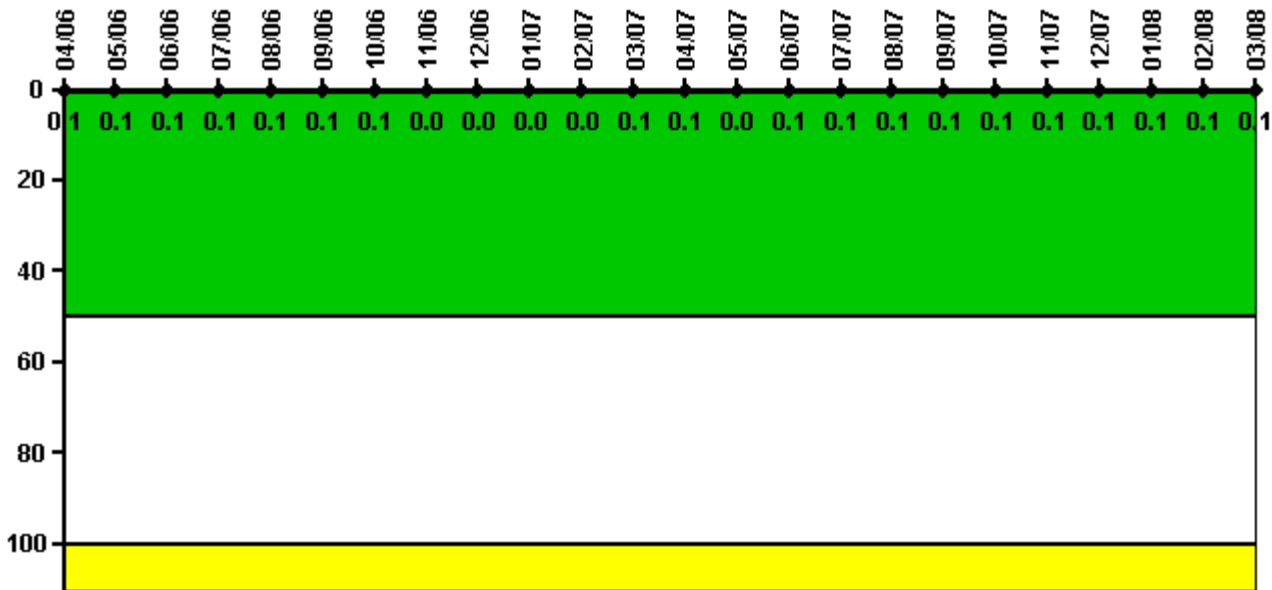
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Cooling Water Systems | 2Q/06    | 3Q/06     | 4Q/06     | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     |
|---|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (ΔCDF)  | 5.30E-08 | -1.30E-07 | -2.30E-08 | 2.10E-07  | 3.40E-07  | 4.00E-07  | 2.70E-07  | 1.50E-07  |
| URI (ΔCDF)  | 7.80E-07 | 7.70E-07  | -7.50E-07 | -7.30E-07 | -7.30E-07 | -7.30E-07 | -7.20E-07 | -7.40E-07 |
| PLE   | NO       | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | 8.33E-07 | 6.40E-07  | -7.73E-07 | -5.20E-07 | -3.90E-07 | -3.30E-07 | -4.50E-07 | -5.90E-07 |

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

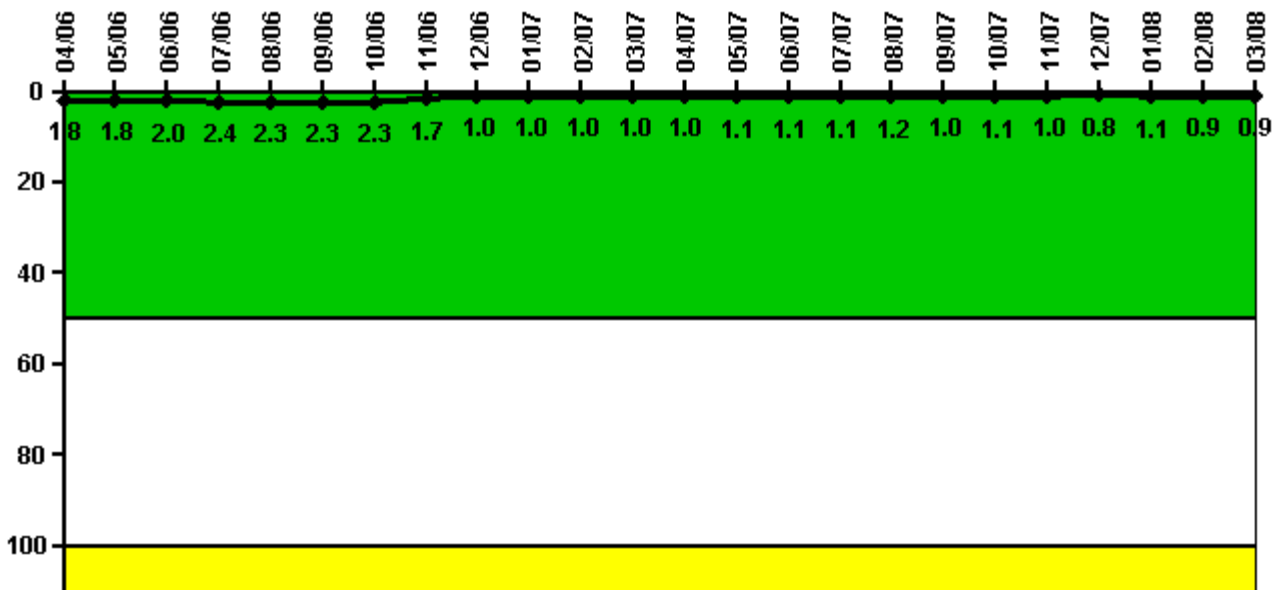
| Reactor Coolant System Activity | 4/06     | 5/06     | 6/06     | 7/06     | 8/06     | 9/06     | 10/06    | 11/06    | 12/06    | 1/07     | 2/07     | 3/07     |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.000500 | 0.000800 | 0.000800 | 0.000900 | 0.000900 | 0.000900 | 0.000800 | 0.000300 | 0.000300 | 0.000400 | 0.000400 | 0.000500 |
| 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                 | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0        | 0        | 0        | 0        | 0.1      |

| Reactor Coolant System Activity | 4/07     | 5/07     | 6/07     | 7/07     | 8/07     | 9/07     | 10/07    | 11/07    | 12/07    | 1/08     | 2/08     | 3/08     |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.000600 | 0.000400 | 0.000500 | 0.000600 | 0.000700 | 0.000600 | 0.000700 | 0.000800 | 0.000600 | 0.000700 | 0.000700 | 0.000800 |
| 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                 | 0.1      | 0        | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      |

Licensee Comments: none

# Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

## Notes

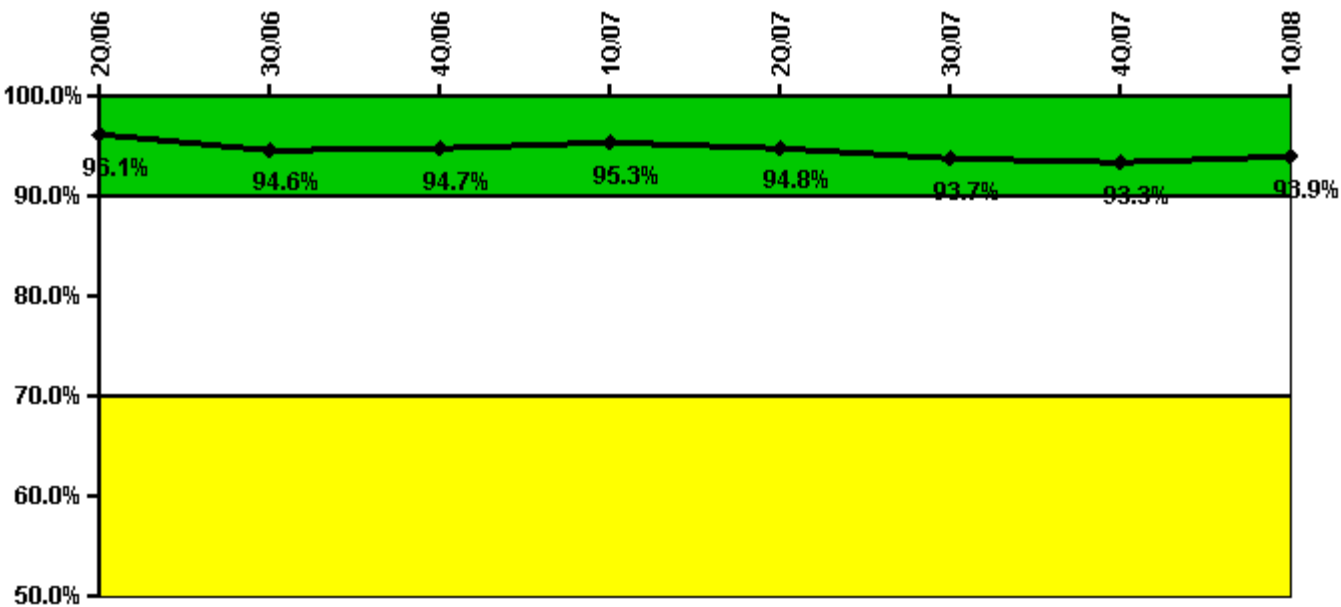
| Reactor Coolant System Leakage | 4/06  | 5/06  | 6/06  | 7/06  | 8/06  | 9/06  | 10/06 | 11/06 | 12/06 | 1/07  | 2/07  | 3/07  |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage                | 0.180 | 0.180 | 0.200 | 0.240 | 0.230 | 0.230 | 0.230 | 0.170 | 0.100 | 0.100 | 0.100 | 0.100 |
| 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                | 1.8   | 1.8   | 2.0   | 2.4   | 2.3   | 2.3   | 2.3   | 1.7   | 1.0   | 1.0   | 1.0   | 1.0   |

| Reactor Coolant System Leakage | 4/07  | 5/07  | 6/07  | 7/07  | 8/07  | 9/07  | 10/07 | 11/07 | 12/07 | 1/08  | 2/08  | 3/08  |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage                | 0.100 | 0.110 | 0.110 | 0.110 | 0.120 | 0.100 | 0.110 | 0.100 | 0.080 | 0.110 | 0.090 | 0.090 |
| 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                | 1.0   | 1.1   | 1.1   | 1.1   | 1.2   | 1.0   | 1.1   | 1.0   | 0.8   | 1.1   | 0.9   | 0.9   |

Licensee Comments: none

# Drill/Exercise Performance



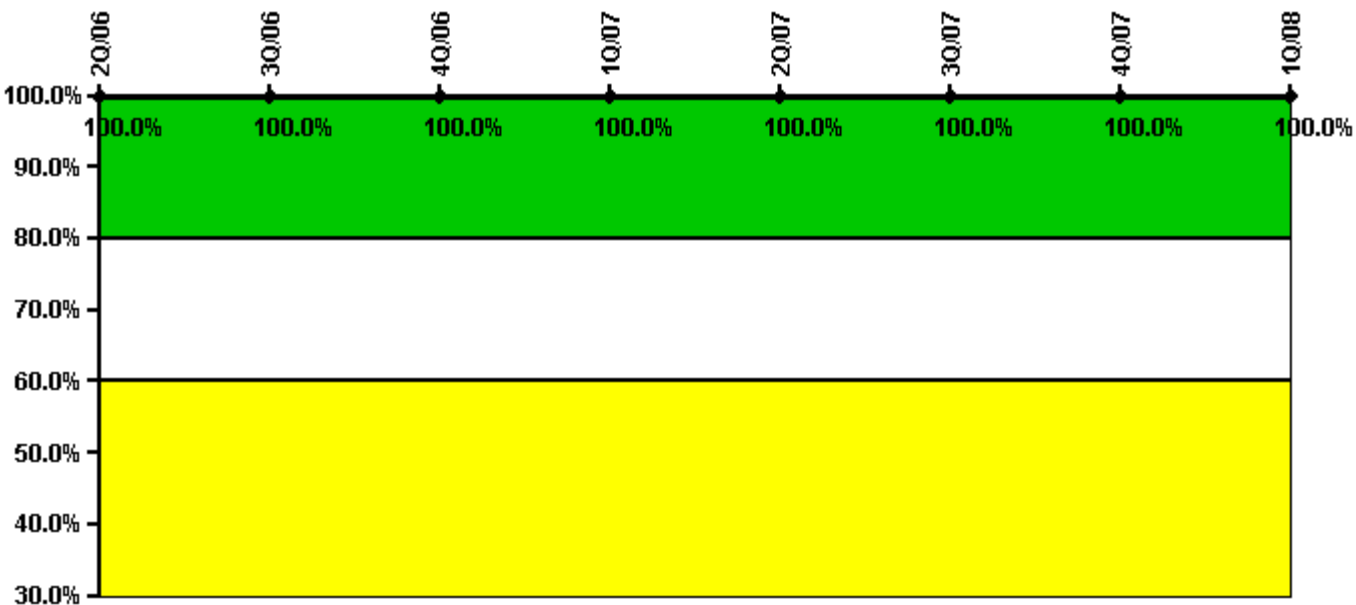
Thresholds: White < 90.0% Yellow < 70.0%

## Notes

| Drill/Exercise Performance | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 39.0  | 62.0  | 39.0  | 21.0  | 39.0  | 41.0  | 75.0  | 22.0  |
| Total opportunities        | 40.0  | 69.0  | 39.0  | 22.0  | 43.0  | 45.0  | 80.0  | 22.0  |
|                            |       |       |       |       |       |       |       |       |
| Indicator value            | 96.1% | 94.6% | 94.7% | 95.3% | 94.8% | 93.7% | 93.3% | 93.9% |

Licensee Comments: none

# ERO Drill Participation



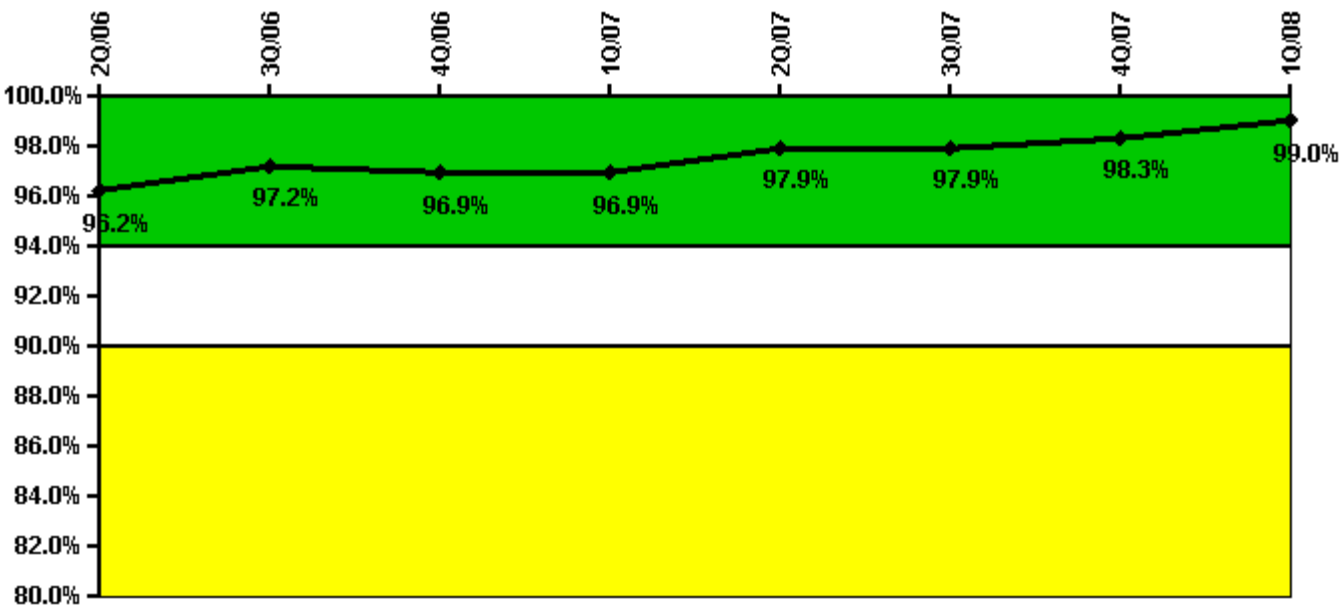
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation     | 2Q/06  | 3Q/06  | 4Q/06  | 1Q/07  | 2Q/07  | 3Q/07  | 4Q/07  | 1Q/08  |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Participating Key personnel | 69.0   | 70.0   | 70.0   | 69.0   | 68.0   | 68.0   | 67.0   | 68.0   |
| Total Key personnel         | 69.0   | 70.0   | 70.0   | 69.0   | 68.0   | 68.0   | 67.0   | 68.0   |
|                             |        |        |        |        |        |        |        |        |
| Indicator value             | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

Licensee Comments: none

# Alert & Notification System



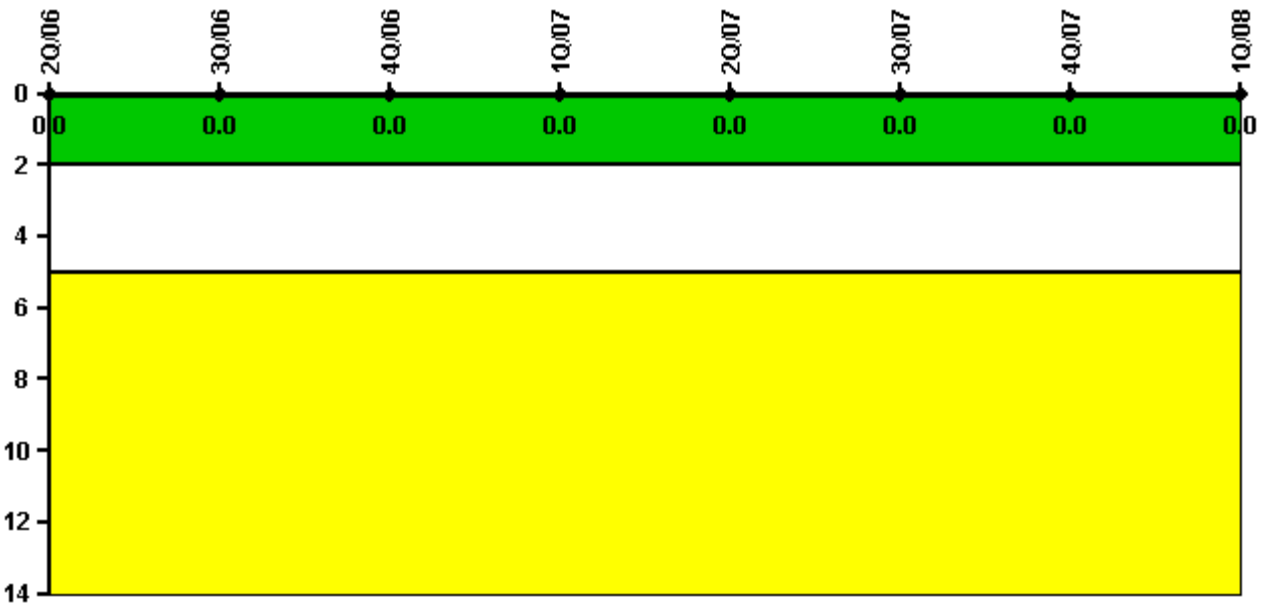
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

| Alert & Notification System | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests      | 63    | 76    | 64    | 74    | 66    | 76    | 65    | 76    |
| Total sirens-tests          | 66    | 77    | 66    | 77    | 66    | 77    | 66    | 77    |
| Indicator value             | 96.2% | 97.2% | 96.9% | 96.9% | 97.9% | 97.9% | 98.3% | 99.0% |

Licensee Comments: none

# Occupational Exposure Control Effectiveness



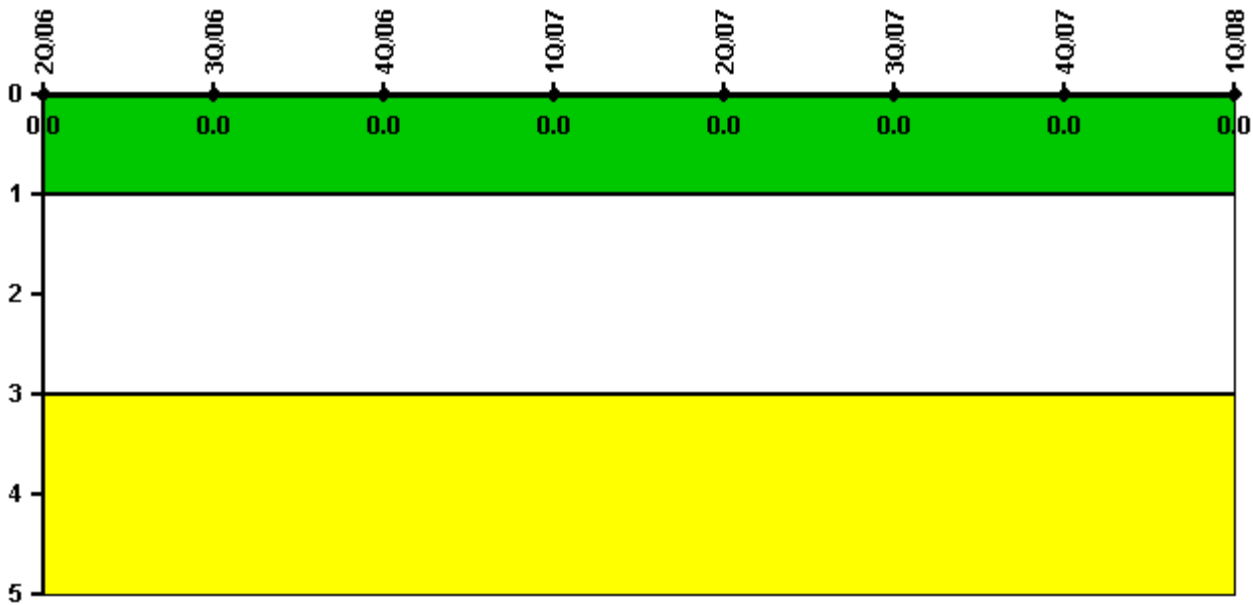
Thresholds: White > 2.0 Yellow > 5.0

## Notes

| Occupational Exposure Control Effectiveness | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 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     |
| Indicator value                             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |

Licensee Comments: none

# RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

## Notes

| RETS/ODCM Radiological Effluent | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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: April 30, 2008