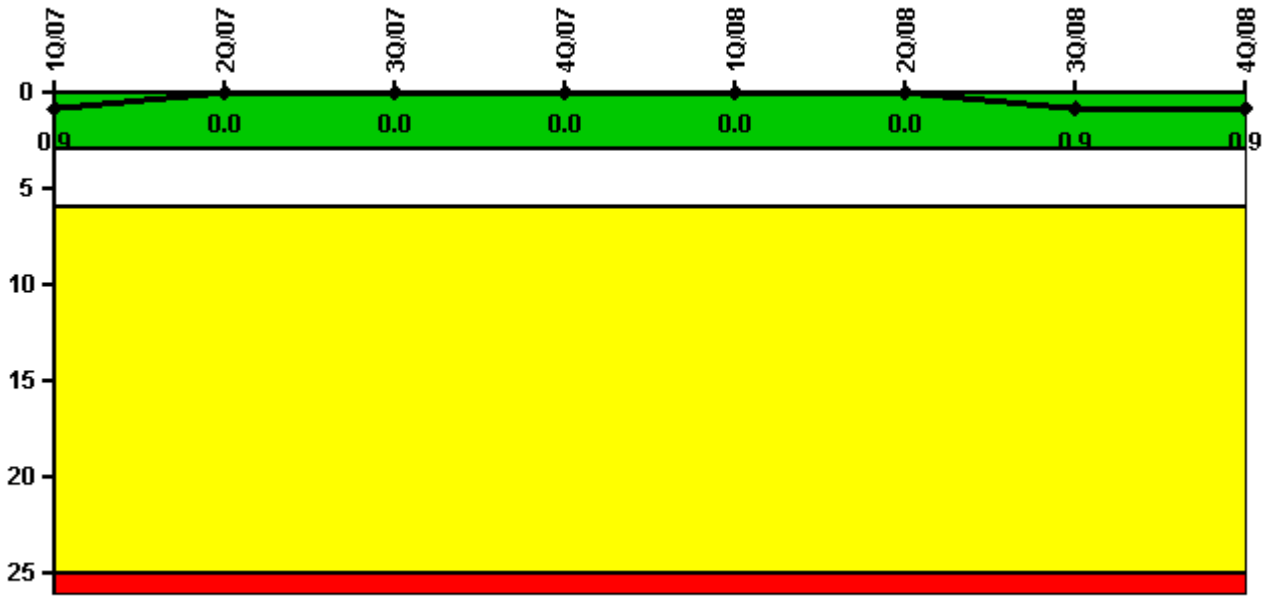


# Prairie Island 1

## 4Q/2008 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



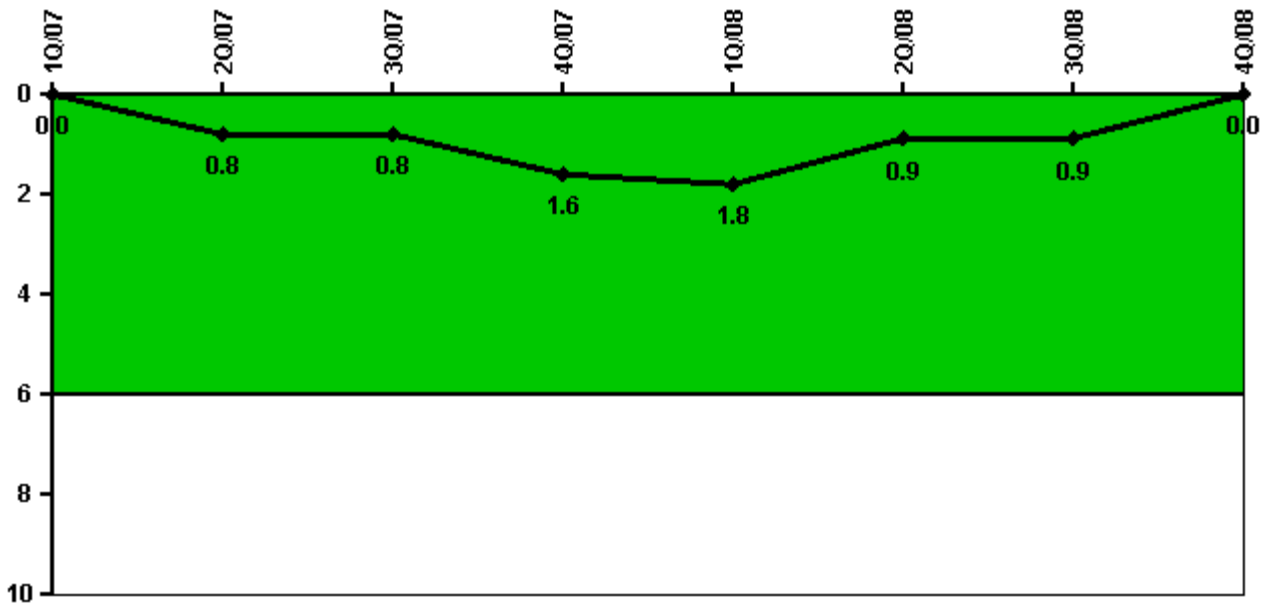
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/07  | 2Q/07  | 3Q/07  | 4Q/07  | 1Q/08  | 2Q/08  | 3Q/08  | 4Q/08  |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams                       | 0      | 0      | 0      | 0      | 0      | 0      | 1.0    | 0      |
| Critical hours                         | 2159.0 | 2064.8 | 2208.0 | 2129.2 | 1292.3 | 2184.0 | 2150.7 | 2209.0 |
| Indicator value                        | 0.9    | 0      | 0      | 0      | 0      | 0      | 0.9    | 0.9    |

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/07  | 2Q/07  | 3Q/07  | 4Q/07  | 1Q/08  | 2Q/08  | 3Q/08  | 4Q/08  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes                       | 0      | 1.0    | 0      | 1.0    | 0      | 0      | 0      | 0      |
| Critical hours                                | 2159.0 | 2064.8 | 2208.0 | 2129.2 | 1292.3 | 2184.0 | 2150.7 | 2209.0 |
| Indicator value                               | 0      | 0.8    | 0.8    | 1.6    | 1.8    | 0.9    | 0.9    | 0      |

Licensee Comments: none

# Unplanned Scrams with Complications



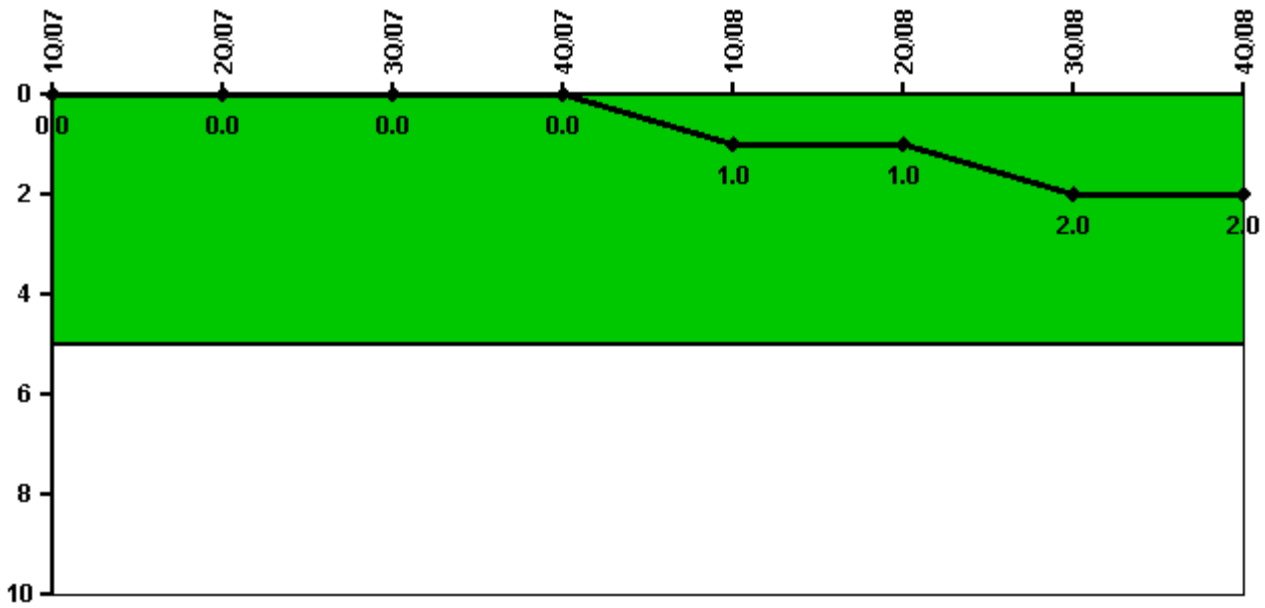
Thresholds: White > 1.0

**Notes**

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

Licensee Comments: none

## Safety System Functional Failures (PWR)



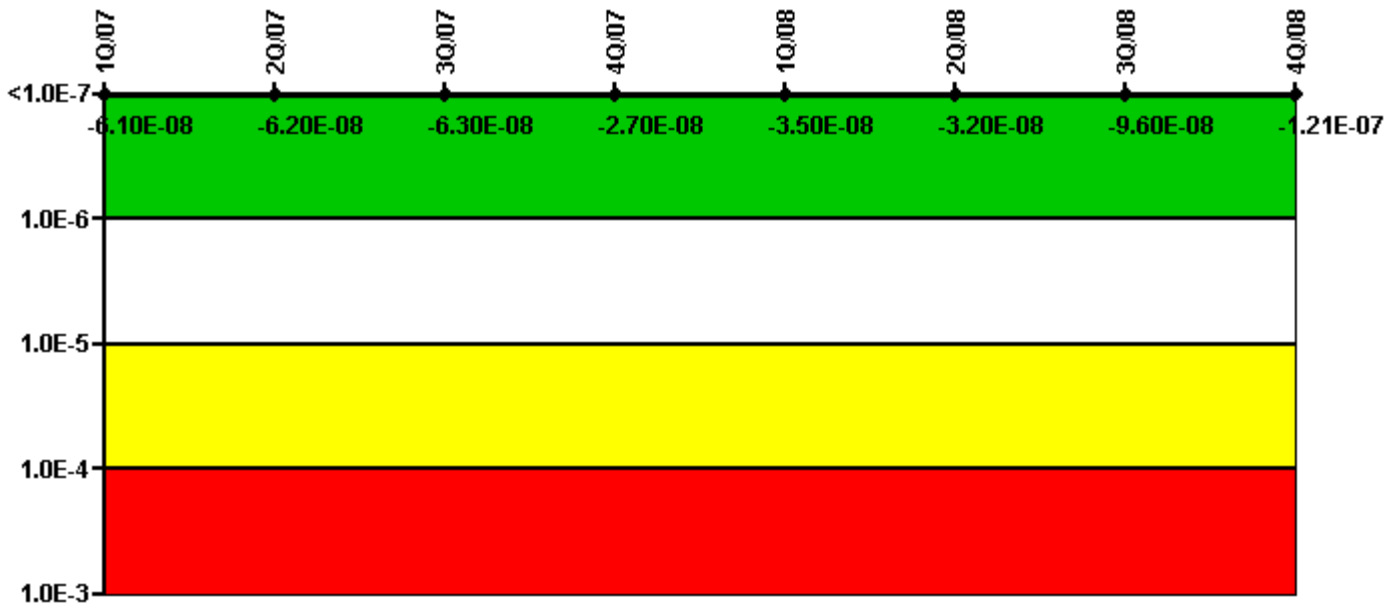
Thresholds: White > 5.0

### Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



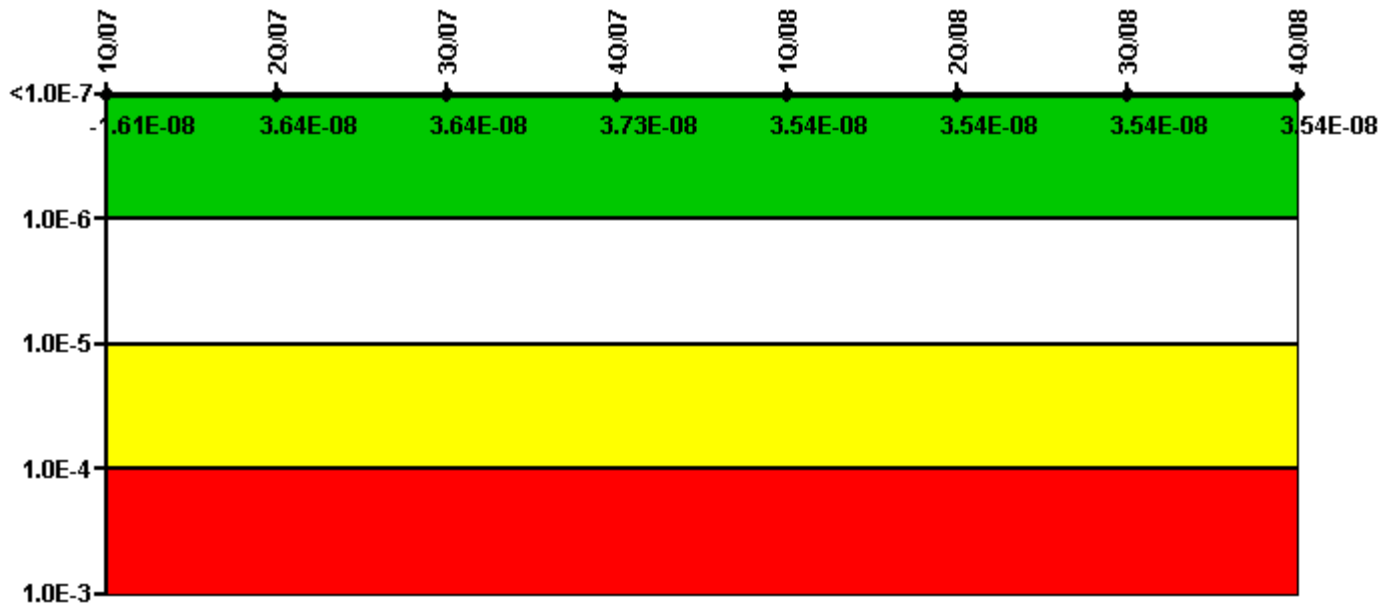
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Emergency AC Power System | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     | 2Q/08     | 3Q/08     | 4Q/08     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)   | 1.40E-08  | 1.30E-08  | 1.10E-08  | 4.60E-08  | 3.80E-08  | 4.00E-08  | 3.40E-08  | 8.80E-09  |
| URI ( $\Delta$ CDF)   | -7.50E-08 | -7.50E-08 | -7.40E-08 | -7.30E-08 | -7.30E-08 | -7.20E-08 | -1.30E-07 | -1.30E-07 |
| PLE   | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | -6.10E-08 | -6.20E-08 | -6.30E-08 | -2.70E-08 | -3.50E-08 | -3.20E-08 | -9.60E-08 | -1.21E-07 |

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



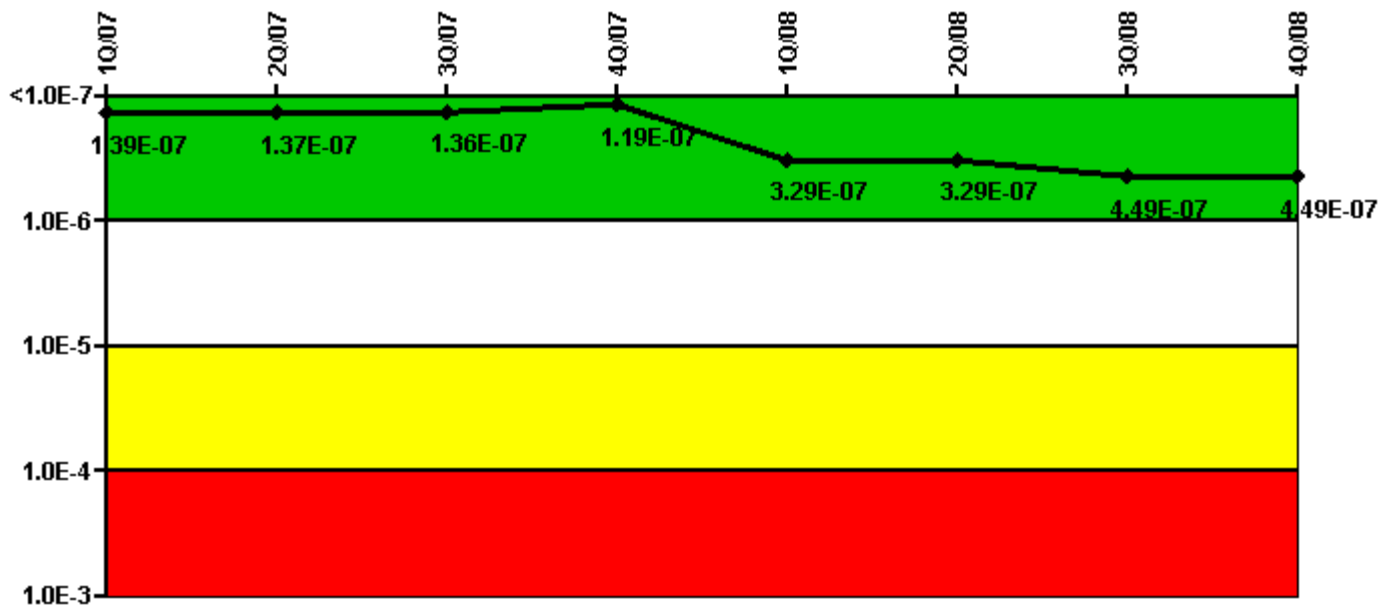
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     | 2Q/08     | 3Q/08     | 4Q/08     |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)  | -5.10E-09 | -3.60E-09 | -3.60E-09 | -3.70E-09 | -3.60E-09 | -3.60E-09 | -3.60E-09 | -3.60E-09 |
| URI ( $\Delta$ CDF)  | -1.10E-08 | 4.00E-08  | 4.00E-08  | 4.10E-08  | 3.90E-08  | 3.90E-08  | 3.90E-08  | 3.90E-08  |
| PLE  | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value  | -1.61E-08 | 3.64E-08  | 3.64E-08  | 3.73E-08  | 3.54E-08  | 3.54E-08  | 3.54E-08  | 3.54E-08  |

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



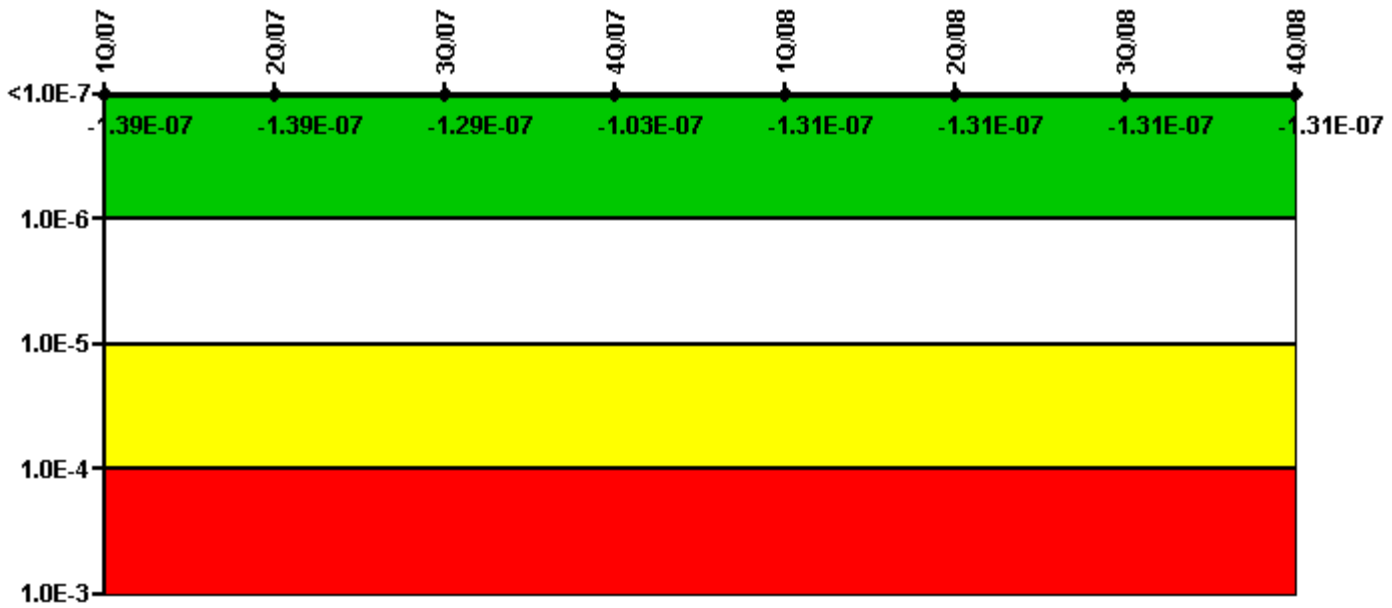
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Heat Removal System | 1Q/07    | 2Q/07    | 3Q/07    | 4Q/07     | 1Q/08     | 2Q/08     | 3Q/08    | 4Q/08    |
|---|----------|----------|----------|-----------|-----------|-----------|----------|----------|
| UAI ( $\Delta$ CDF)                                       | 9.00E-09 | 6.50E-09 | 5.80E-09 | -1.10E-08 | -1.40E-09 | -1.40E-09 | 9.10E-09 | 9.10E-09 |
| URI ( $\Delta$ CDF)                                       | 1.30E-07 | 1.30E-07 | 1.30E-07 | 1.30E-07  | 3.30E-07  | 3.30E-07  | 4.40E-07 | 4.40E-07 |
| PLE   | NO       | NO       | NO       | NO        | NO        | NO        | NO       | NO       |
| Indicator value   | 1.39E-07 | 1.37E-07 | 1.36E-07 | 1.19E-07  | 3.29E-07  | 3.29E-07  | 4.49E-07 | 4.49E-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

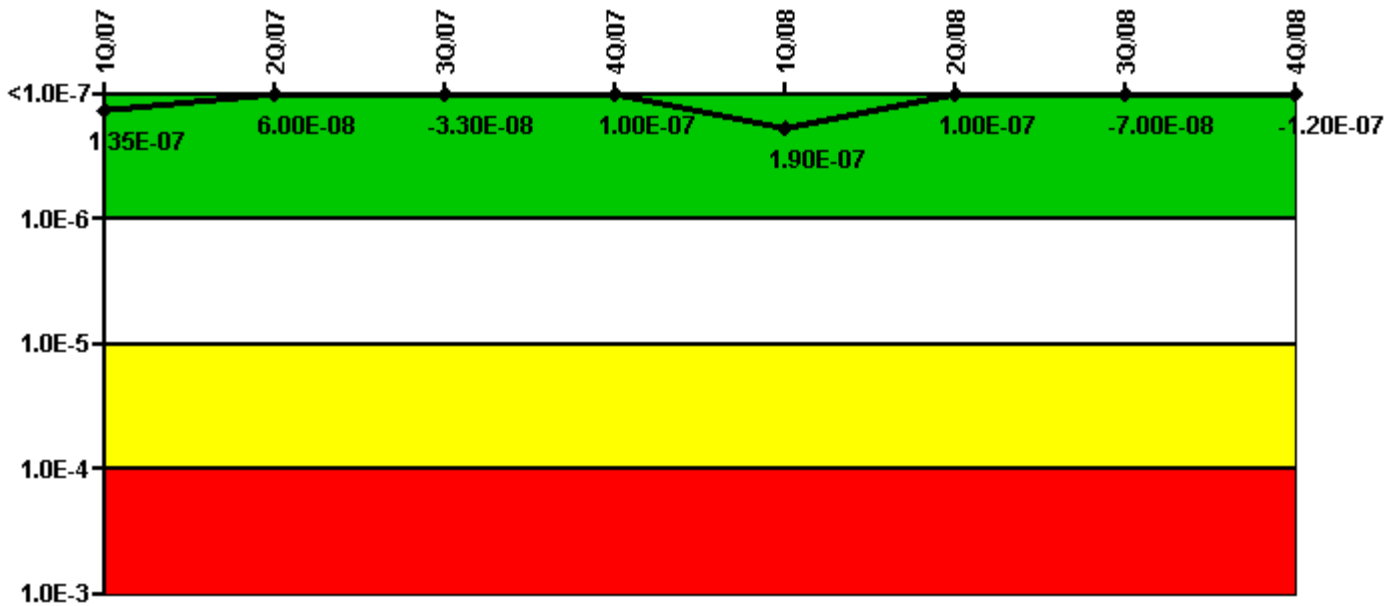
## Notes

| Mitigating Systems Performance Index, Residual Heat Removal System | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     | 2Q/08     | 3Q/08     | 4Q/08     |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (ΔCDF)   | -1.90E-08 | -1.90E-08 | -1.90E-08 | -2.00E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 |
| URI (ΔCDF)   | -1.20E-07 | -1.20E-07 | -1.10E-07 | -8.30E-08 | -1.10E-07 | -1.10E-07 | -1.10E-07 | -1.10E-07 |
| PLE  | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value  | -1.39E-07 | -1.39E-07 | -1.29E-07 | -1.03E-07 | -1.31E-07 | -1.31E-07 | -1.31E-07 | -1.31E-07 |

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



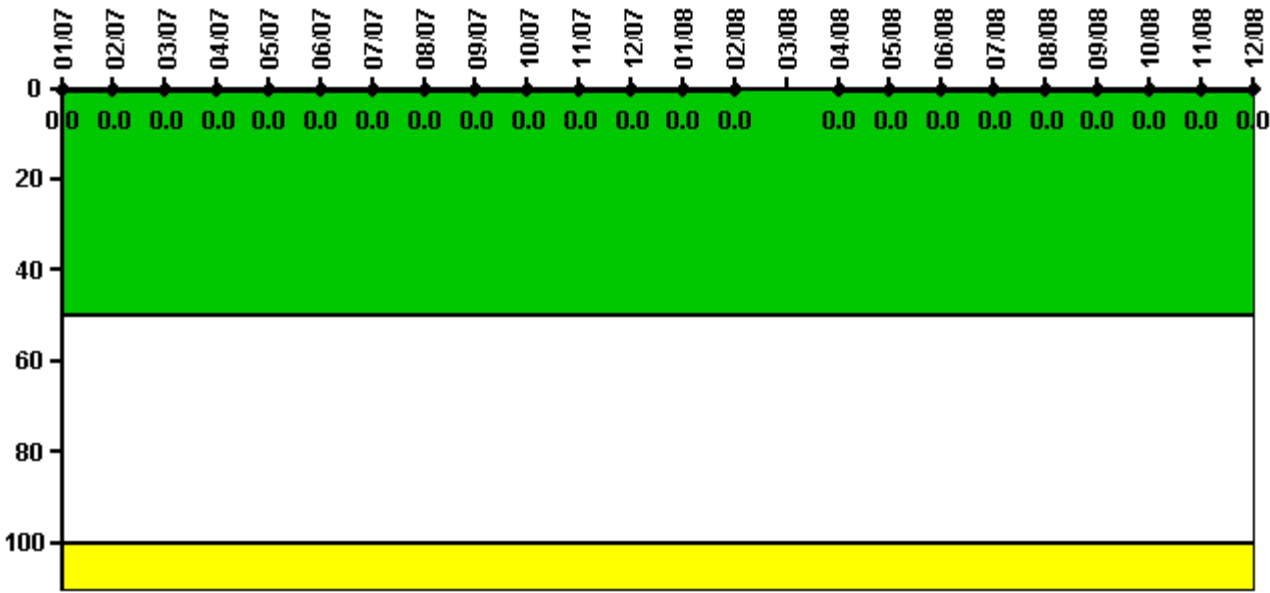
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Cooling Water Systems | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     | 2Q/08     | 3Q/08     | 4Q/08     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (ΔCDF)  | 2.20E-07  | 1.60E-07  | 6.70E-08  | 2.00E-07  | 3.00E-07  | 2.10E-07  | 3.70E-07  | 3.20E-07  |
| URI (ΔCDF)  | -8.50E-08 | -1.00E-07 | -1.00E-07 | -1.00E-07 | -1.10E-07 | -1.10E-07 | -4.40E-07 | -4.40E-07 |
| PLE   | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | 1.35E-07  | 6.00E-08  | -3.30E-08 | 1.00E-07  | 1.90E-07  | 1.00E-07  | -7.00E-08 | -1.20E-07 |

Licensee Comments: none

## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

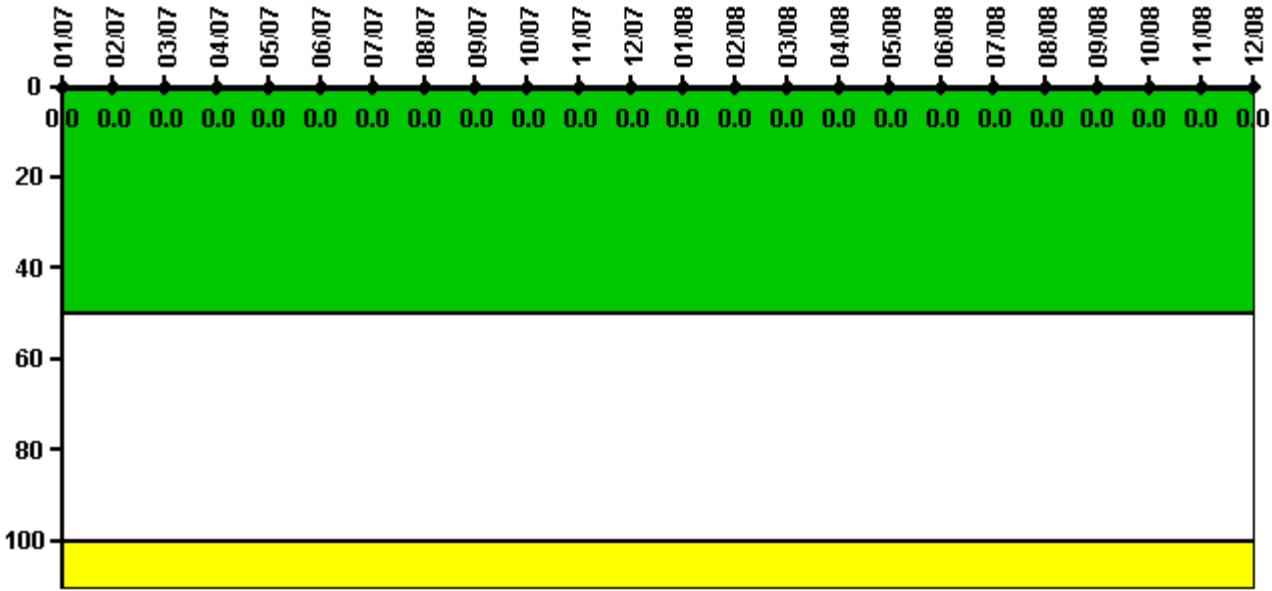
| Reactor Coolant System Activity | 1/07     | 2/07     | 3/07     | 4/07     | 5/07     | 6/07     | 7/07     | 8/07     | 9/07     | 10/07    | 11/07    | 12/07    |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.000150 | 0.000140 | 0.000150 | 0.000150 | 0.000150 | 0.000160 | 0.000160 | 0.000160 | 0.000160 | 0.000180 | 0.000180 | 0.000170 |
| 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 | 1/08     | 2/08     | 3/08 | 4/08     | 5/08     | 6/08     | 7/08     | 8/08     | 9/08     | 10/08    | 11/08    | 12/08    |
|---------------------------------|----------|----------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.000180 | 0.000170 | N/A  | 0.000120 | 0.000093 | 0.000110 | 0.000190 | 0.000110 | 0.000120 | 0.000110 | 0.000120 | 0.000120 |
| 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        | N/A  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

Licensee Comments: none

# Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

## Notes

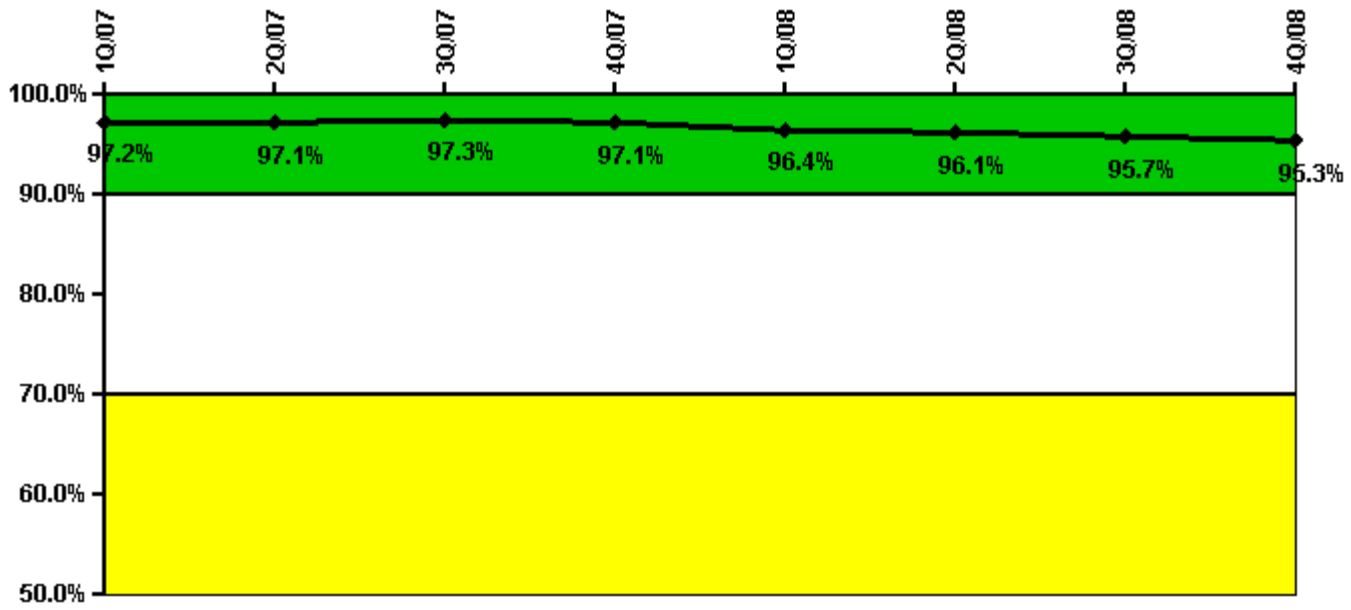
| Reactor Coolant System Leakage | 1/07 | 2/07 | 3/07 | 4/07 | 5/07 | 6/07 | 7/07 | 8/07 | 9/07 | 10/07 | 11/07 | 12/07 |
|--------------------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| Maximum leakage                | 0    | 0    | 0    | 0    | 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 | 1/08 | 2/08 | 3/08 | 4/08 | 5/08 | 6/08 | 7/08 | 8/08 | 9/08 | 10/08 | 11/08 | 12/08 |
|--------------------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 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



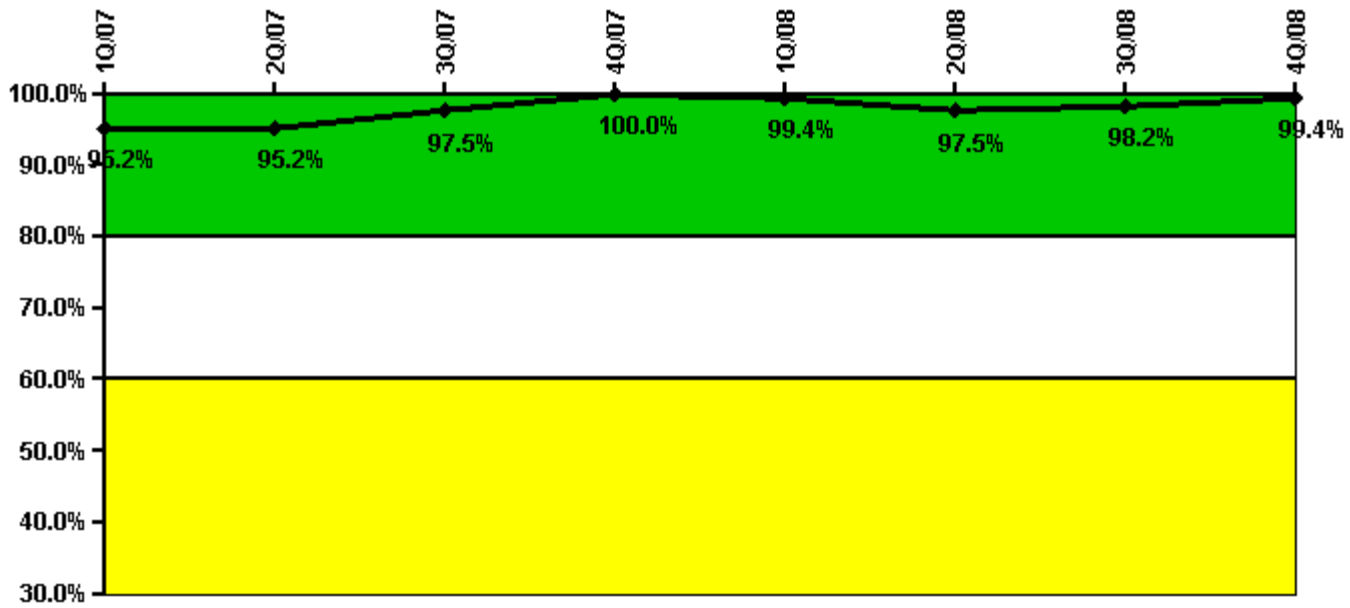
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

| Drill/Exercise Performance | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 58.0  | 33.0  | 47.0  | 49.0  | 47.0  | 51.0  | 41.0  | 16.0  |
| Total opportunities        | 58.0  | 34.0  | 51.0  | 51.0  | 51.0  | 52.0  | 44.0  | 18.0  |
|                            |       |       |       |       |       |       |       |       |
| Indicator value            | 97.2% | 97.1% | 97.3% | 97.1% | 96.4% | 96.1% | 95.7% | 95.3% |

Licensee Comments: none

## ERO Drill Participation



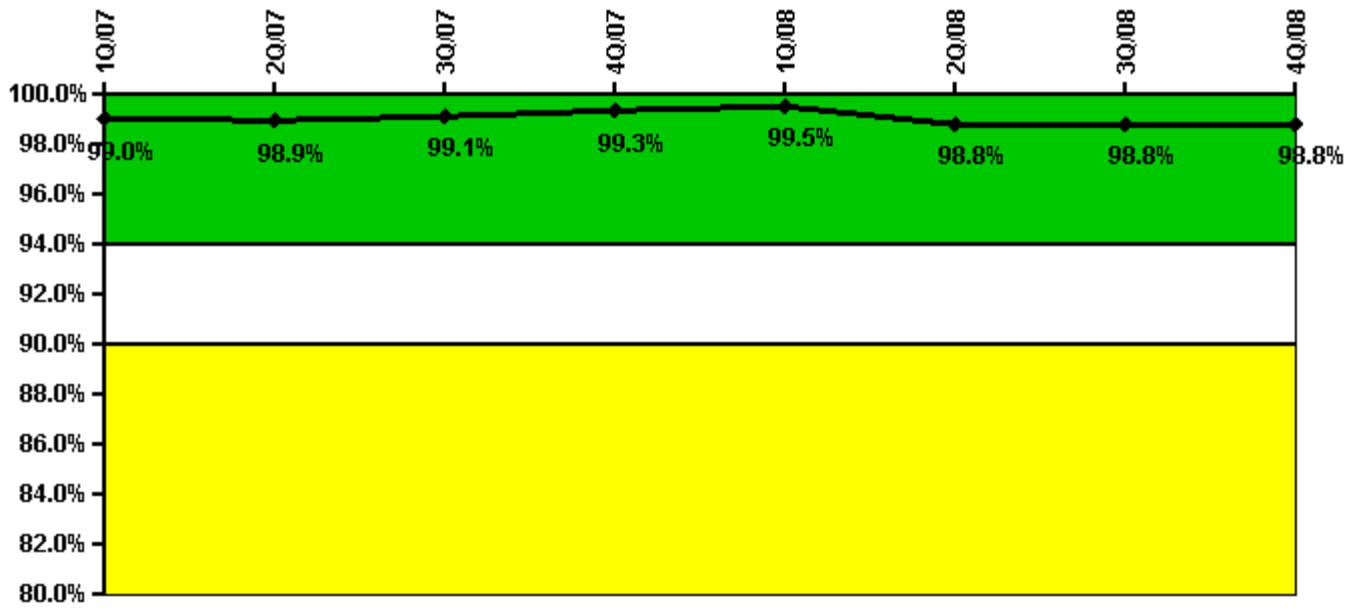
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

| ERO Drill Participation     | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07  | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|-----------------------------|-------|-------|-------|--------|-------|-------|-------|-------|
| Participating Key personnel | 159.0 | 157.0 | 159.0 | 169.0  | 166.0 | 154.0 | 160.0 | 158.0 |
| Total Key personnel         | 167.0 | 165.0 | 163.0 | 169.0  | 167.0 | 158.0 | 163.0 | 159.0 |
| Indicator value             | 95.2% | 95.2% | 97.5% | 100.0% | 99.4% | 97.5% | 98.2% | 99.4% |

Licensee Comments: none

## Alert & Notification System



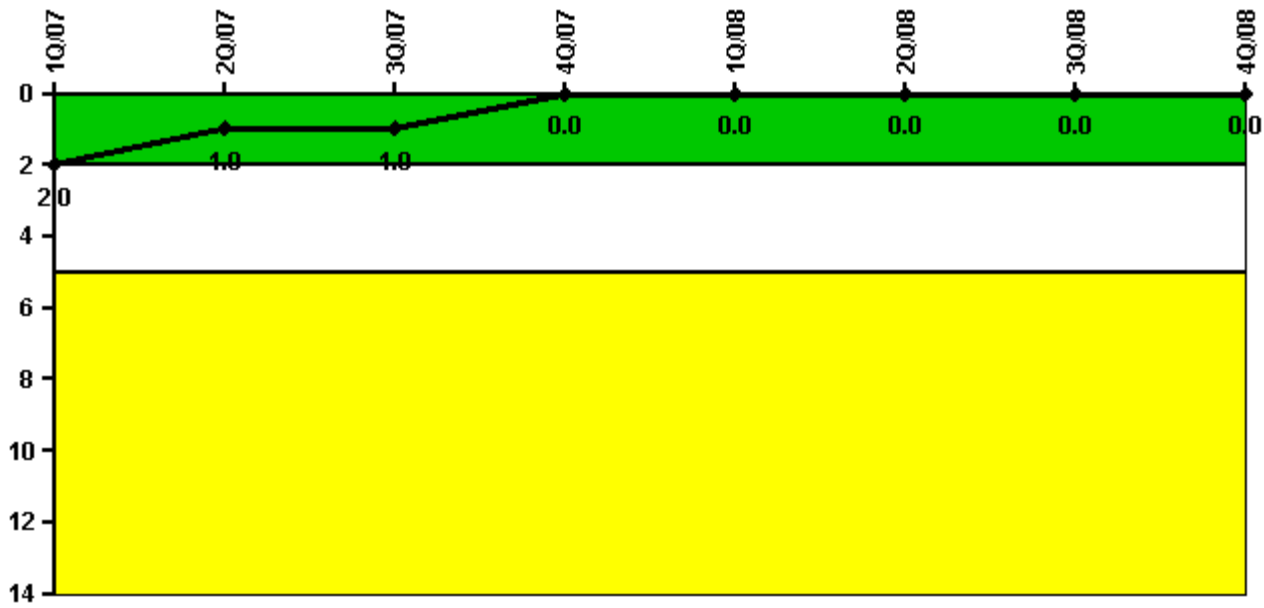
Thresholds: White < 94.0% Yellow < 90.0%

### Notes

| Alert & Notification System | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests      | 1464  | 1465  | 1514  | 1520  | 1513  | 1466  | 1515  | 1517  |
| Total sirens-tests          | 1482  | 1482  | 1521  | 1521  | 1521  | 1521  | 1521  | 1521  |
|                             |       |       |       |       |       |       |       |       |
| Indicator value             | 99.0% | 98.9% | 99.1% | 99.3% | 99.5% | 98.8% | 98.8% | 98.8% |

Licensee Comments: none

## Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

### Notes

| Occupational Exposure Control Effectiveness | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/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                             | 2     | 1     | 1     | 0     | 0     | 0     | 0     | 0     |

Licensee Comments: none

## RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

### Notes

| RETS/ODCM Radiological Effluent | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/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

[Security](#) information not publicly available.