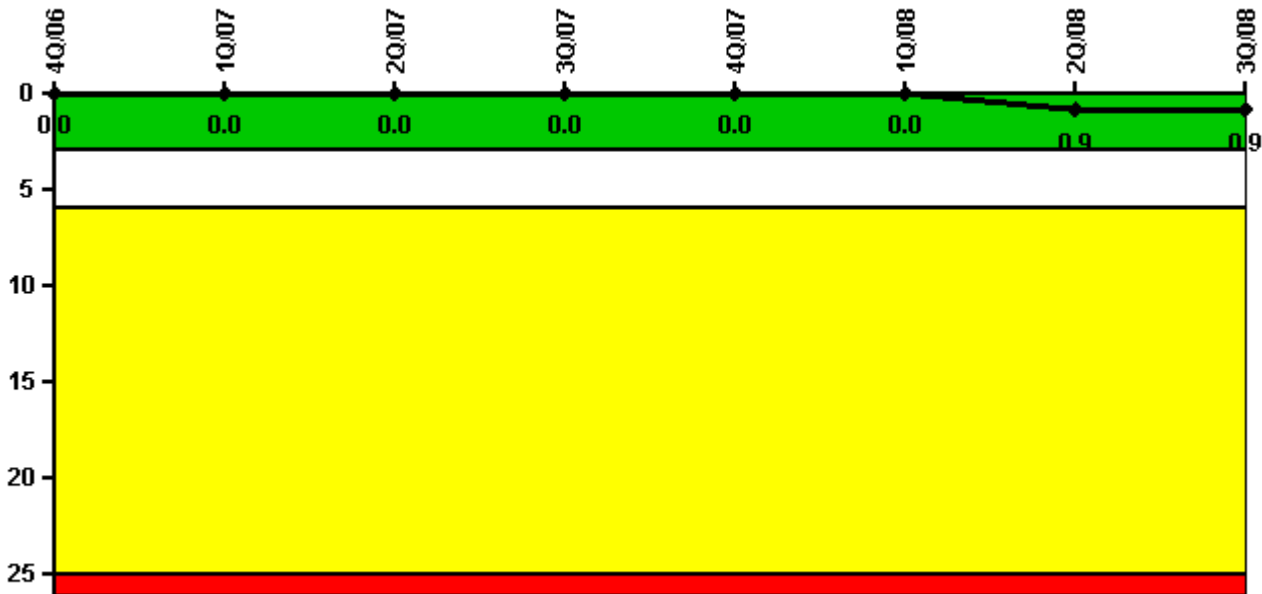


# Surry 1

## 3Q/2008 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



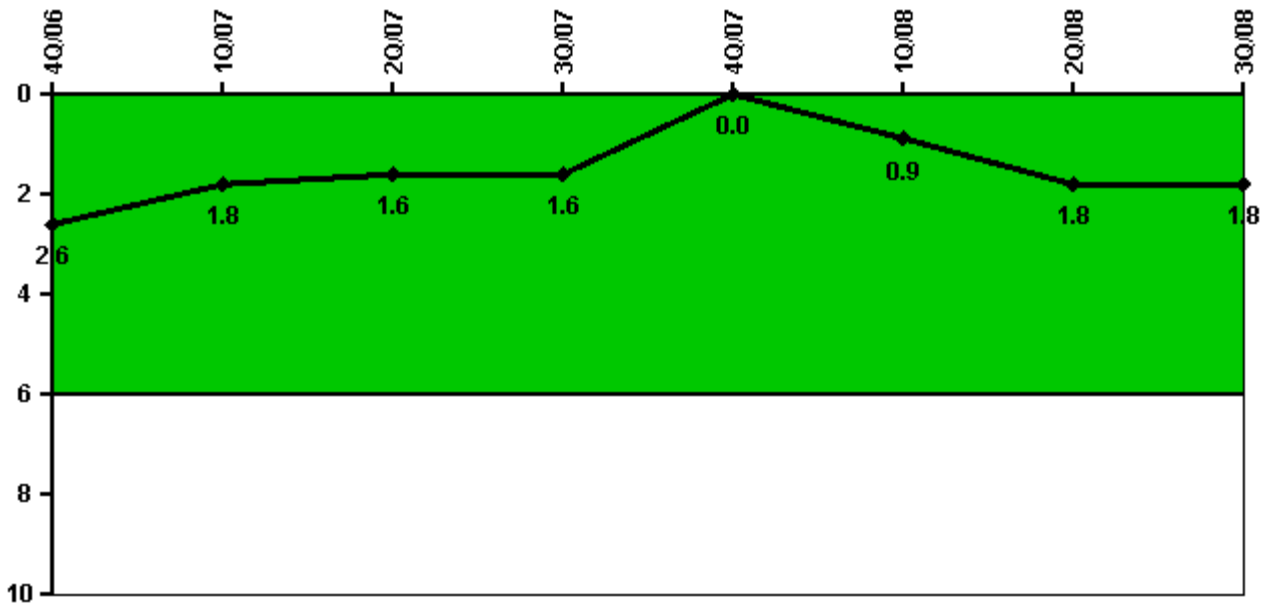
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/06  | 1Q/07  | 2Q/07  | 3Q/07  | 4Q/07  | 1Q/08  | 2Q/08  | 3Q/08  |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams                       | 0      | 0      | 0      | 0      | 0      | 0      | 1.0    | 0      |
| Critical hours                         | 2209.0 | 2133.5 | 2184.0 | 2208.0 | 1236.0 | 2183.0 | 2081.1 | 2208.0 |
| Indicator value                        | 0      | 0      | 0      | 0      | 0      | 0      | 0.9    | 0.9    |

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



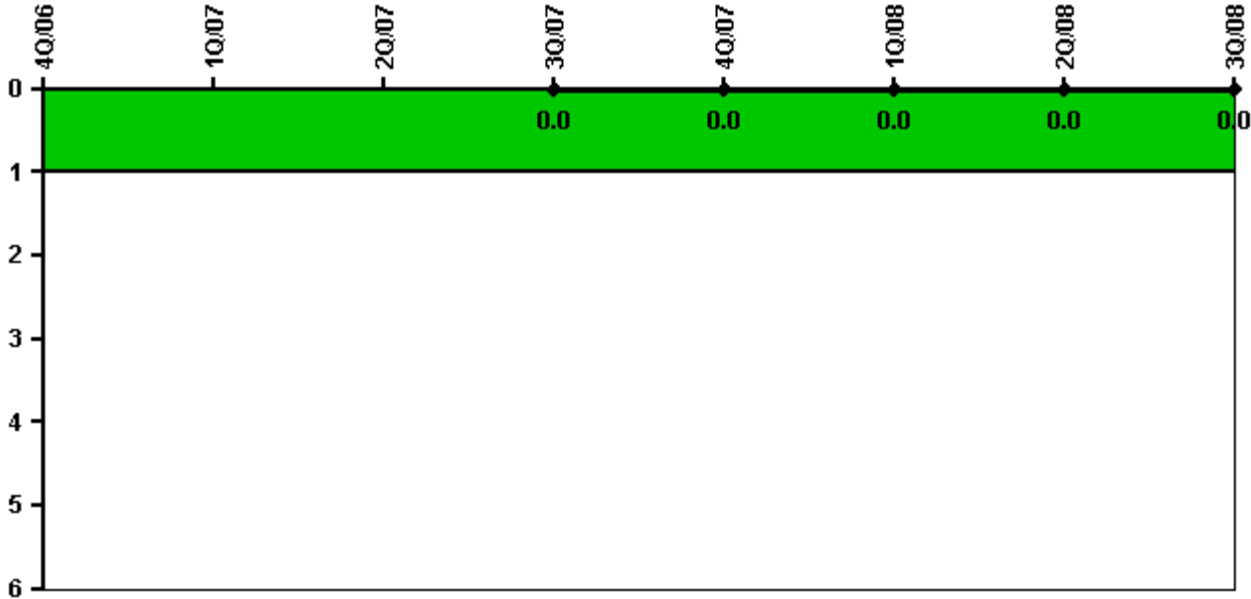
Thresholds: White > 6.0

### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/06  | 1Q/07  | 2Q/07  | 3Q/07  | 4Q/07  | 1Q/08  | 2Q/08  | 3Q/08  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes                       | 2.0    | 0      | 0      | 0      | 0      | 1.0    | 1.0    | 0      |
| Critical hours                                | 2209.0 | 2133.5 | 2184.0 | 2208.0 | 1236.0 | 2183.0 | 2081.1 | 2208.0 |
| Indicator value                               | 2.6    | 1.8    | 1.6    | 1.6    | 0      | 0.9    | 1.8    | 1.8    |

Licensee Comments: none

# Unplanned Scrams with Complications



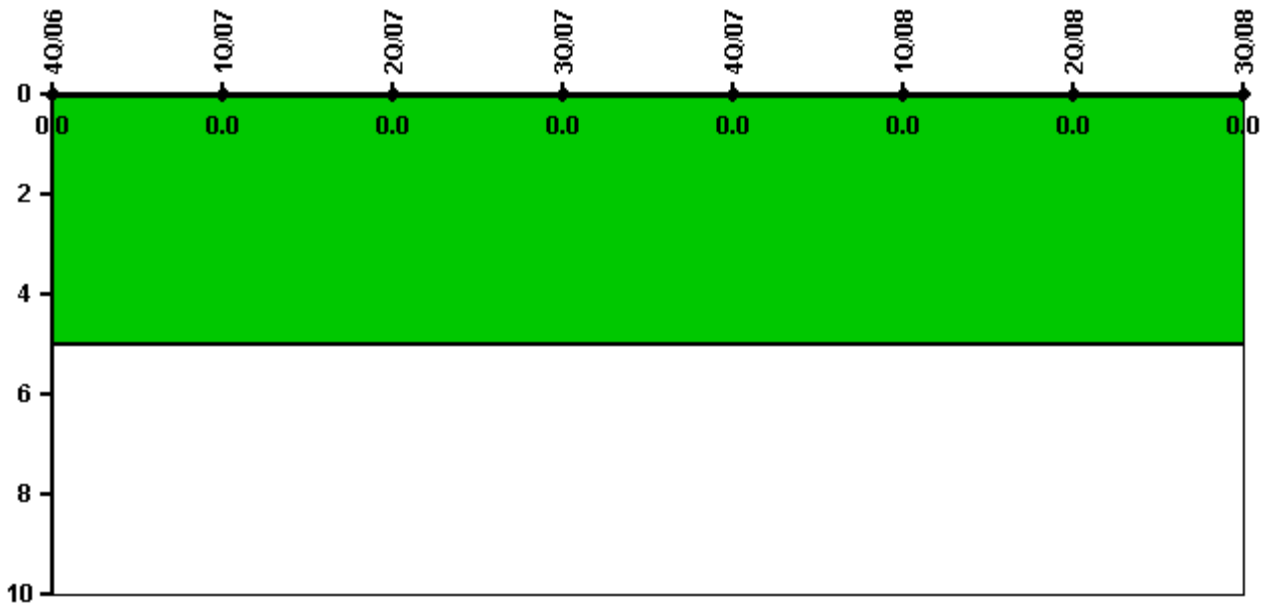
Thresholds: White > 1.0

**Notes**

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

Licensee Comments: none

# Safety System Functional Failures (PWR)



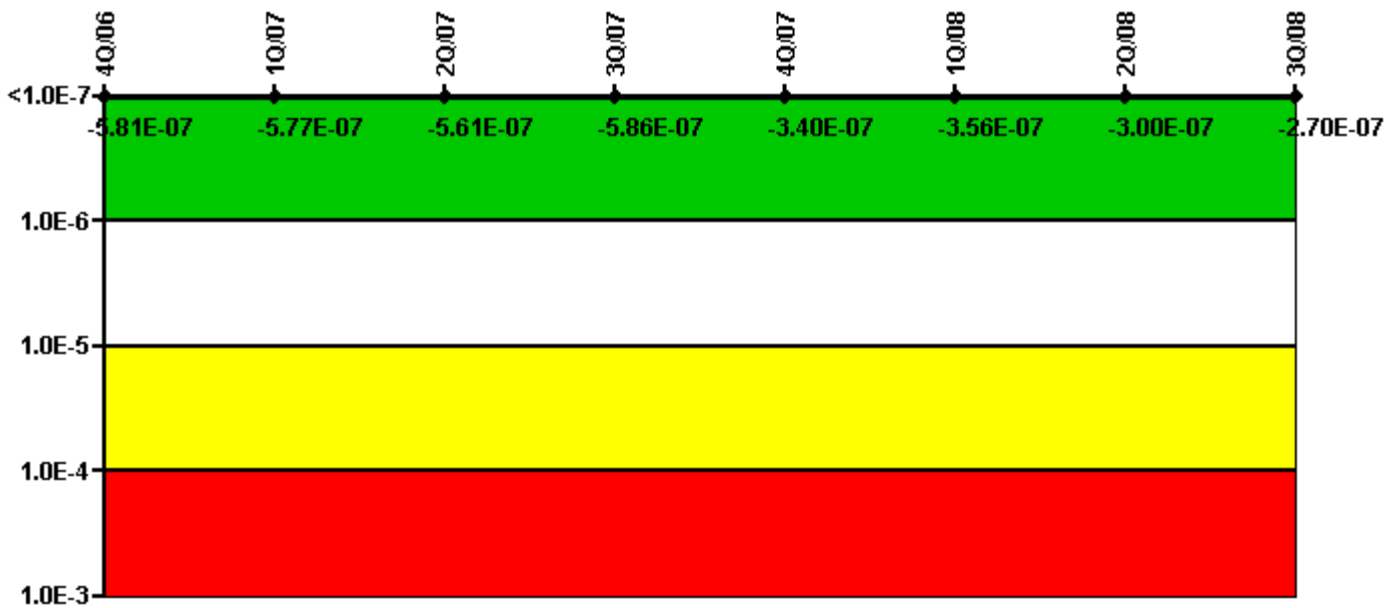
Thresholds: White > 5.0

## Notes

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

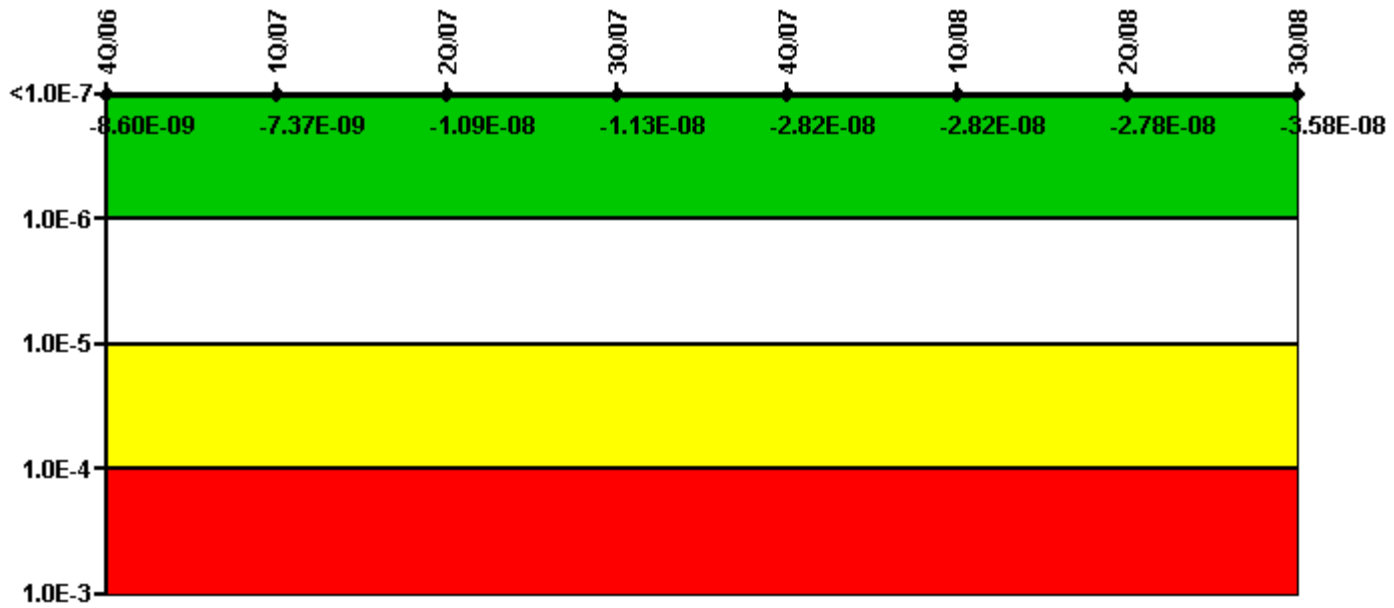
## Notes

| Mitigating Systems Performance Index, Emergency AC Power System | 4Q/06     | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     | 2Q/08     | 3Q/08     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)   | 5.90E-08  | 5.30E-08  | 5.90E-08  | 1.40E-08  | 1.00E-07  | 8.40E-08  | 1.50E-07  | 1.80E-07  |
| URI ( $\Delta$ CDF)   | -6.40E-07 | -6.30E-07 | -6.20E-07 | -6.00E-07 | -4.40E-07 | -4.40E-07 | -4.50E-07 | -4.50E-07 |
| PLE   | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | -5.81E-07 | -5.77E-07 | -5.61E-07 | -5.86E-07 | -3.40E-07 | -3.56E-07 | -3.00E-07 | -2.70E-07 |

Licensee Comments:

3Q/08: A self assessment revealed missing data for a diesel surveillance test in March 2008. Also corrected was a PRA parameter for 1st quarter 2008. Historical data was corrected with no change in color.

# Mitigating Systems Performance Index, High Pressure Injection System



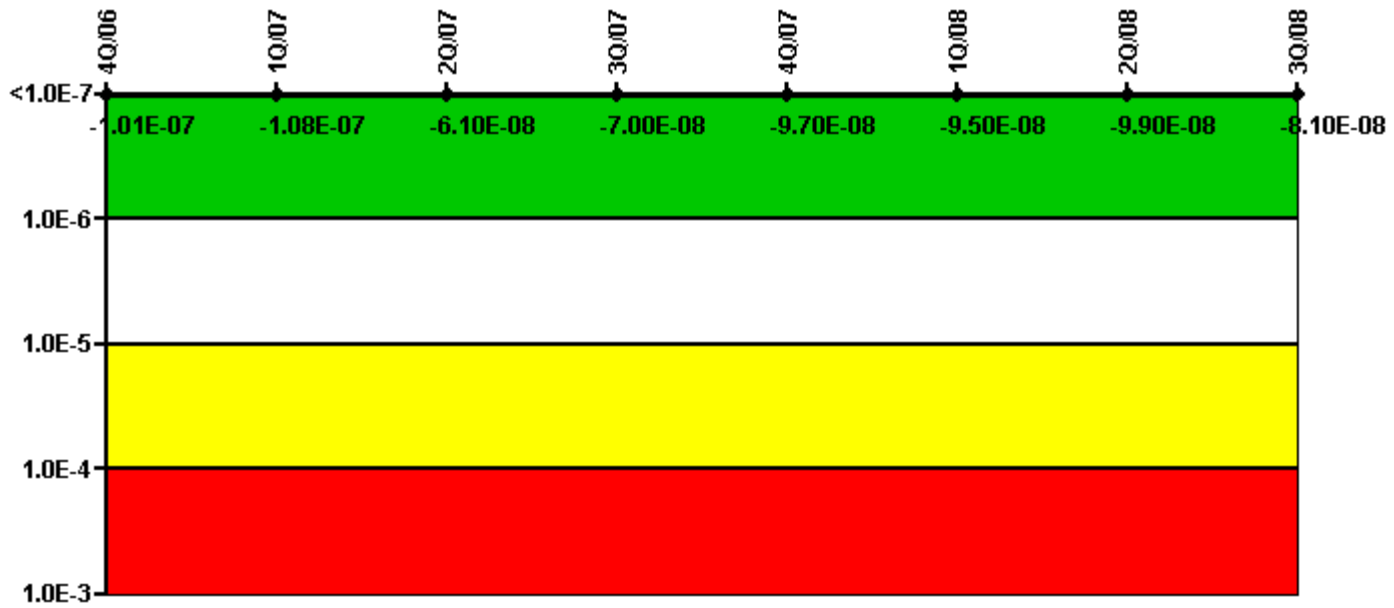
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 4Q/06     | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     | 2Q/08     | 3Q/08     |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)  | -2.30E-09 | -7.70E-10 | -9.20E-10 | -1.30E-09 | -2.20E-09 | -2.20E-09 | -1.80E-09 | -1.80E-09 |
| URI ( $\Delta$ CDF)  | -6.30E-09 | -6.60E-09 | -1.00E-08 | -1.00E-08 | -2.60E-08 | -2.60E-08 | -2.60E-08 | -3.40E-08 |
| PLE  | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value  | -8.60E-09 | -7.37E-09 | -1.09E-08 | -1.13E-08 | -2.82E-08 | -2.82E-08 | -2.78E-08 | -3.58E-08 |

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



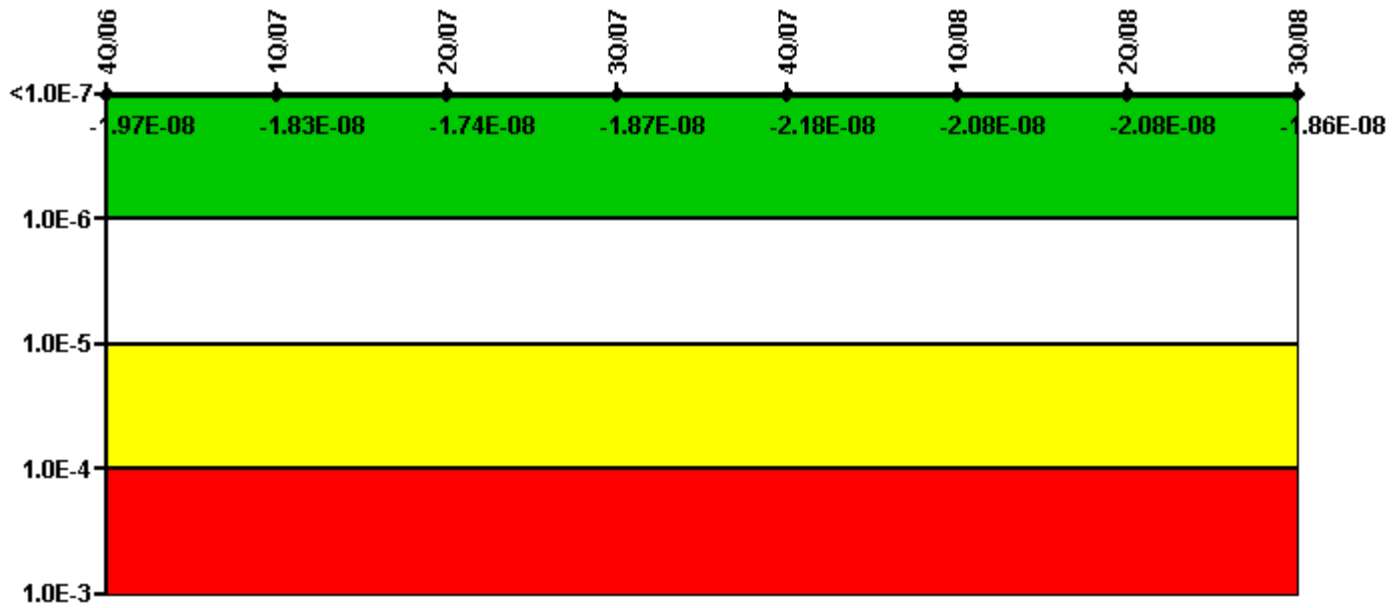
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Heat Removal System | 4Q/06     | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     | 2Q/08     | 3Q/08     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)                                       | -6.30E-10 | -8.10E-09 | 3.90E-08  | 4.00E-08  | 2.30E-08  | 2.50E-08  | 2.10E-08  | 3.90E-08  |
| URI ( $\Delta$ CDF)                                       | -1.00E-07 | -1.00E-07 | -1.00E-07 | -1.10E-07 | -1.20E-07 | -1.20E-07 | -1.20E-07 | -1.20E-07 |
| PLE   | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | -1.01E-07 | -1.08E-07 | -6.10E-08 | -7.00E-08 | -9.70E-08 | -9.50E-08 | -9.90E-08 | -8.10E-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

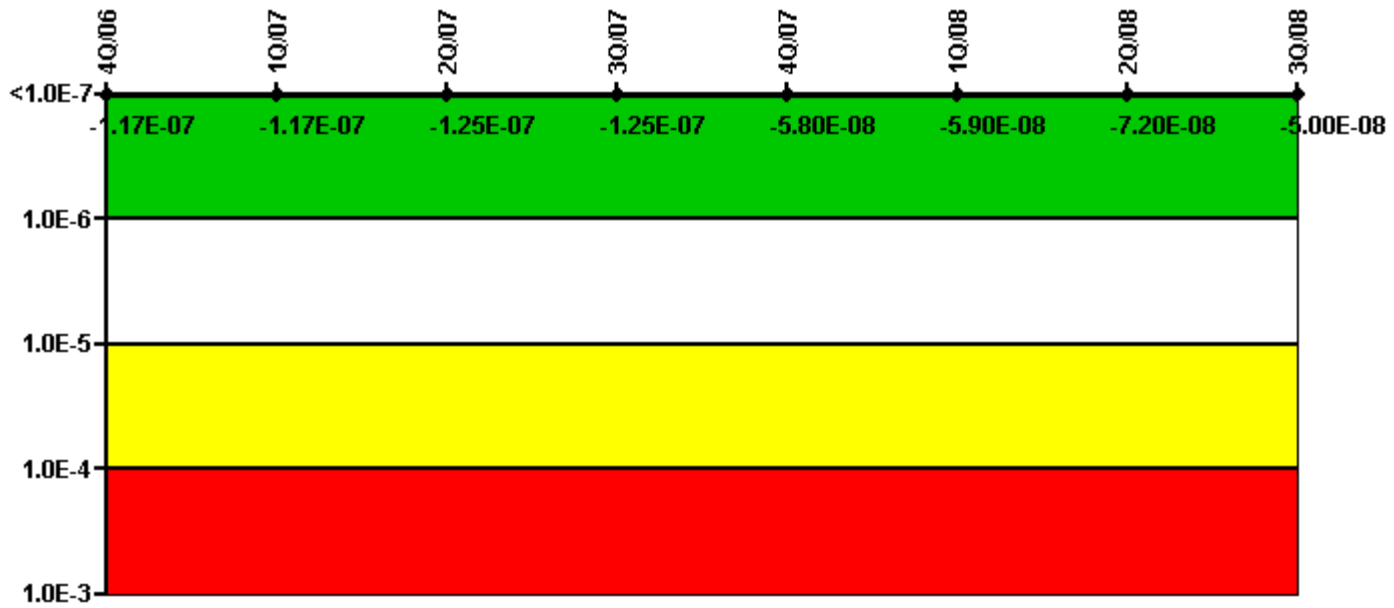
## Notes

| Mitigating Systems Performance Index, Residual Heat Removal System | 4Q/06     | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     | 2Q/08     | 3Q/08     |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)  | -4.70E-09 | -3.30E-09 | -3.40E-09 | -4.70E-09 | -4.80E-09 | -4.80E-09 | -4.80E-09 | -2.60E-09 |
| URI ( $\Delta$ CDF)  | -1.50E-08 | -1.50E-08 | -1.40E-08 | -1.40E-08 | -1.70E-08 | -1.60E-08 | -1.60E-08 | -1.60E-08 |
| PLE  | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value  | -1.97E-08 | -1.83E-08 | -1.74E-08 | -1.87E-08 | -2.18E-08 | -2.08E-08 | -2.08E-08 | -1.86E-08 |

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



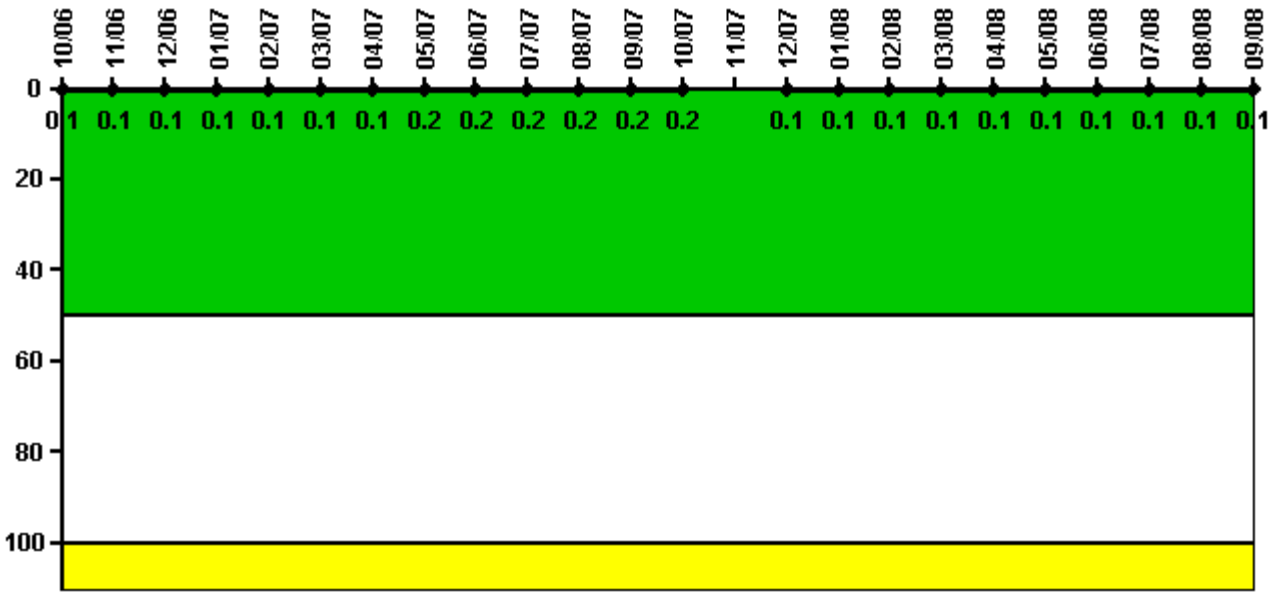
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Cooling Water Systems | 4Q/06     | 1Q/07     | 2Q/07     | 3Q/07     | 4Q/07     | 1Q/08     | 2Q/08     | 3Q/08     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)   | 2.70E-09  | 2.70E-09  | 4.80E-09  | 5.00E-09  | 9.20E-08  | 9.10E-08  | 7.80E-08  | 1.00E-07  |
| URI ( $\Delta$ CDF)   | -1.20E-07 | -1.20E-07 | -1.30E-07 | -1.30E-07 | -1.50E-07 | -1.50E-07 | -1.50E-07 | -1.50E-07 |
| PLE   | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | -1.17E-07 | -1.17E-07 | -1.25E-07 | -1.25E-07 | -5.80E-08 | -5.90E-08 | -7.20E-08 | -5.00E-08 |

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

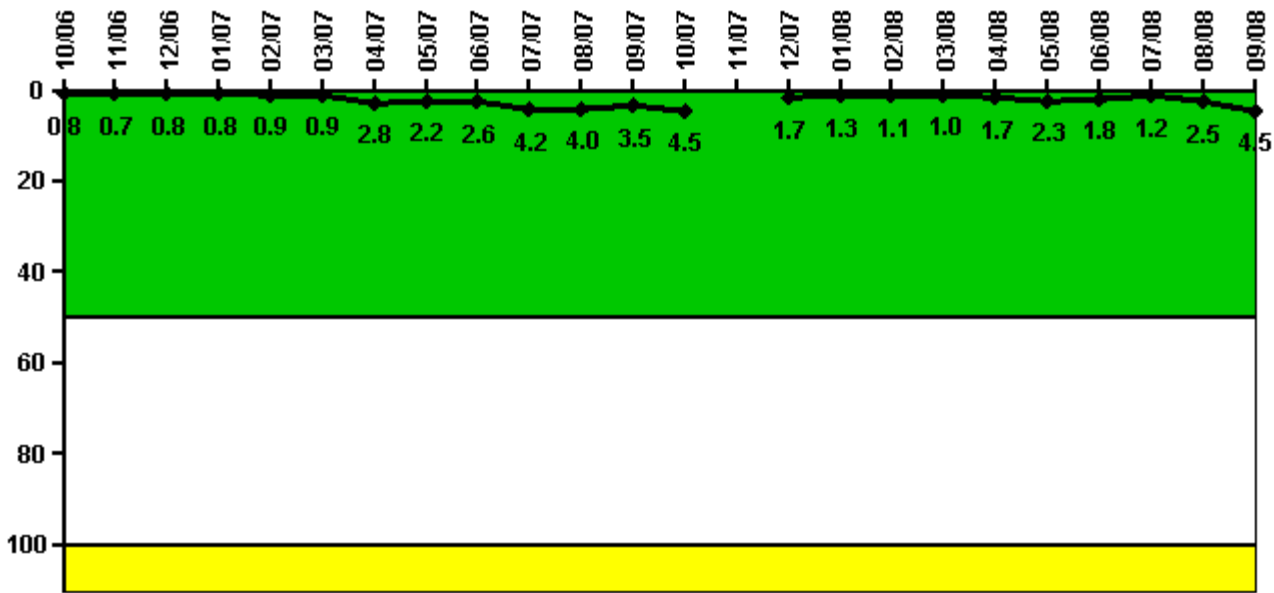
| Reactor Coolant System Activity | 10/06    | 11/06    | 12/06    | 1/07     | 2/07     | 3/07     | 4/07     | 5/07     | 6/07     | 7/07     | 8/07     | 9/07     |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.001060 | 0.001120 | 0.001180 | 0.001220 | 0.001300 | 0.001420 | 0.001430 | 0.001560 | 0.001520 | 0.001620 | 0.002360 | 0.001630 |
| 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      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      |

| Reactor Coolant System Activity | 10/07    | 11/07 | 12/07    | 1/08     | 2/08     | 3/08     | 4/08     | 5/08     | 6/08     | 7/08     | 8/08     | 9/08     |
|---------------------------------|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.001750 | N/A   | 0.001060 | 0.001250 | 0.001120 | 0.000964 | 0.000905 | 0.001270 | 0.001210 | 0.001070 | 0.001030 | 0.001100 |
| 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      | N/A   | 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



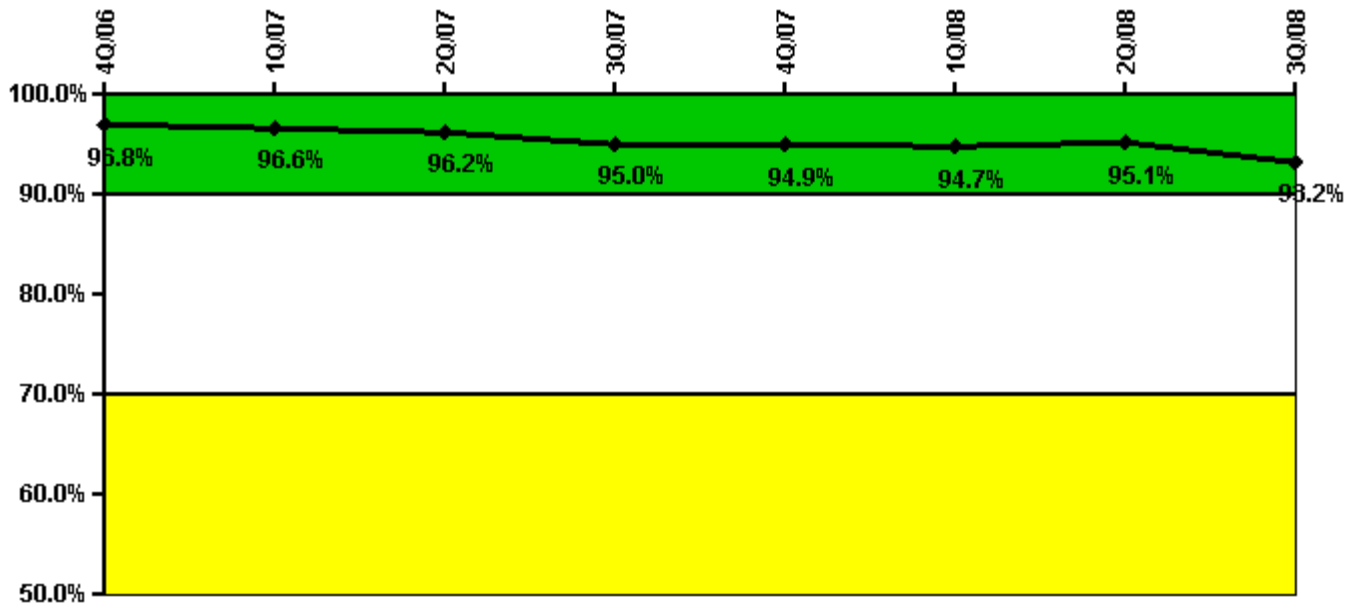
Thresholds: White > 50.0 Yellow > 100.0

### Notes

| Reactor Coolant System Leakage | 10/06 | 11/06 | 12/06 | 1/07  | 2/07  | 3/07  | 4/07  | 5/07  | 6/07  | 7/07  | 8/07  | 9/07  |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage                | 0.080 | 0.070 | 0.080 | 0.080 | 0.090 | 0.090 | 0.280 | 0.220 | 0.260 | 0.420 | 0.400 | 0.350 |
| 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                | 0.8   | 0.7   | 0.8   | 0.8   | 0.9   | 0.9   | 2.8   | 2.2   | 2.6   | 4.2   | 4.0   | 3.5   |
| Reactor Coolant System Leakage | 10/07 | 11/07 | 12/07 | 1/08  | 2/08  | 3/08  | 4/08  | 5/08  | 6/08  | 7/08  | 8/08  | 9/08  |
| Maximum leakage                | 0.450 | N/A   | 0.170 | 0.130 | 0.110 | 0.100 | 0.170 | 0.230 | 0.180 | 0.120 | 0.250 | 0.450 |
| 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                | 4.5   | N/A   | 1.7   | 1.3   | 1.1   | 1.0   | 1.7   | 2.3   | 1.8   | 1.2   | 2.5   | 4.5   |

Licensee Comments: none

## Drill/Exercise Performance



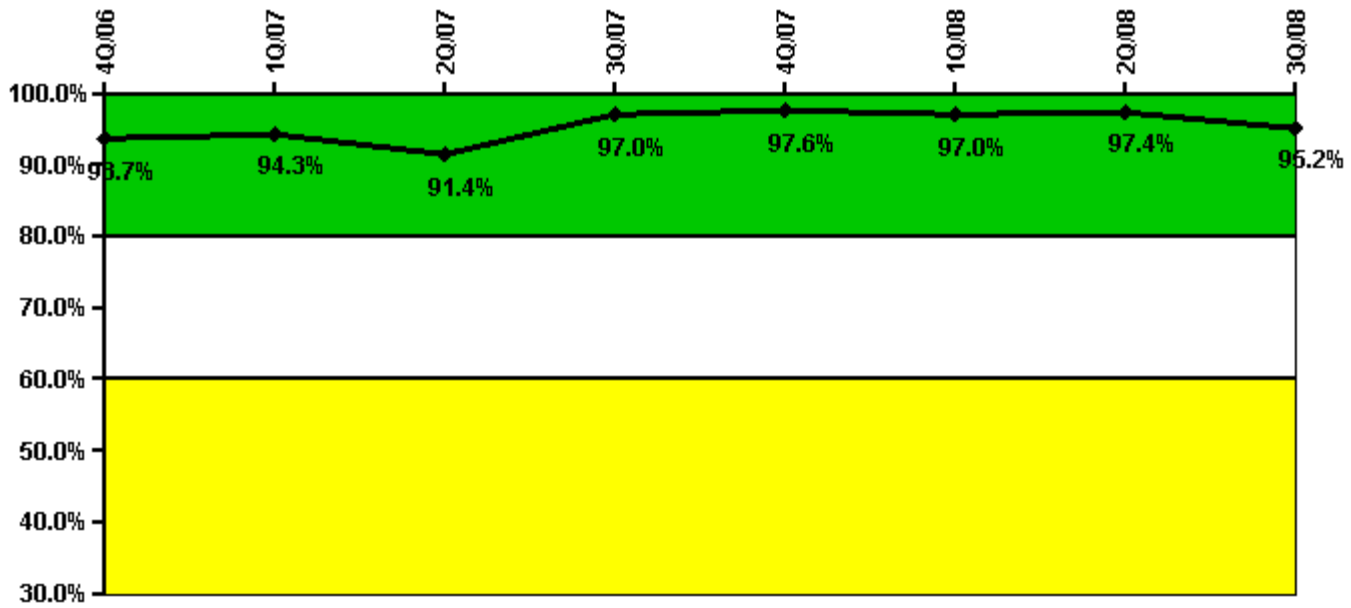
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

| Drill/Exercise Performance | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 1.0   | 32.0  | 25.0  | 18.0  | 24.0  | 43.0  | 41.0  | 37.0  |
| Total opportunities        | 3.0   | 34.0  | 26.0  | 20.0  | 24.0  | 45.0  | 42.0  | 43.0  |
| Indicator value            | 96.8% | 96.6% | 96.2% | 95.0% | 94.9% | 94.7% | 95.1% | 93.2% |

Licensee Comments: none

## ERO Drill Participation



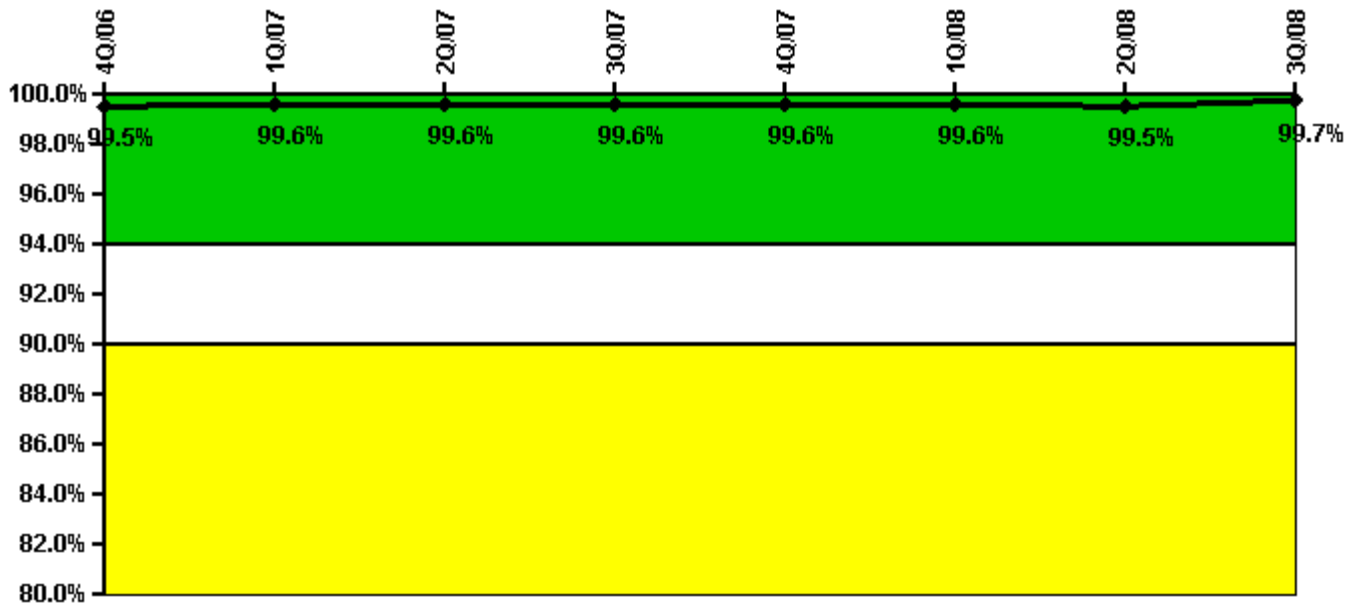
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

| ERO Drill Participation     | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Participating Key personnel | 149.0 | 164.0 | 159.0 | 164.0 | 160.0 | 128.0 | 149.0 | 138.0 |
| Total Key personnel         | 159.0 | 174.0 | 174.0 | 169.0 | 164.0 | 132.0 | 153.0 | 145.0 |
| Indicator value             | 93.7% | 94.3% | 91.4% | 97.0% | 97.6% | 97.0% | 97.4% | 95.2% |

Licensee Comments: none

## Alert & Notification System



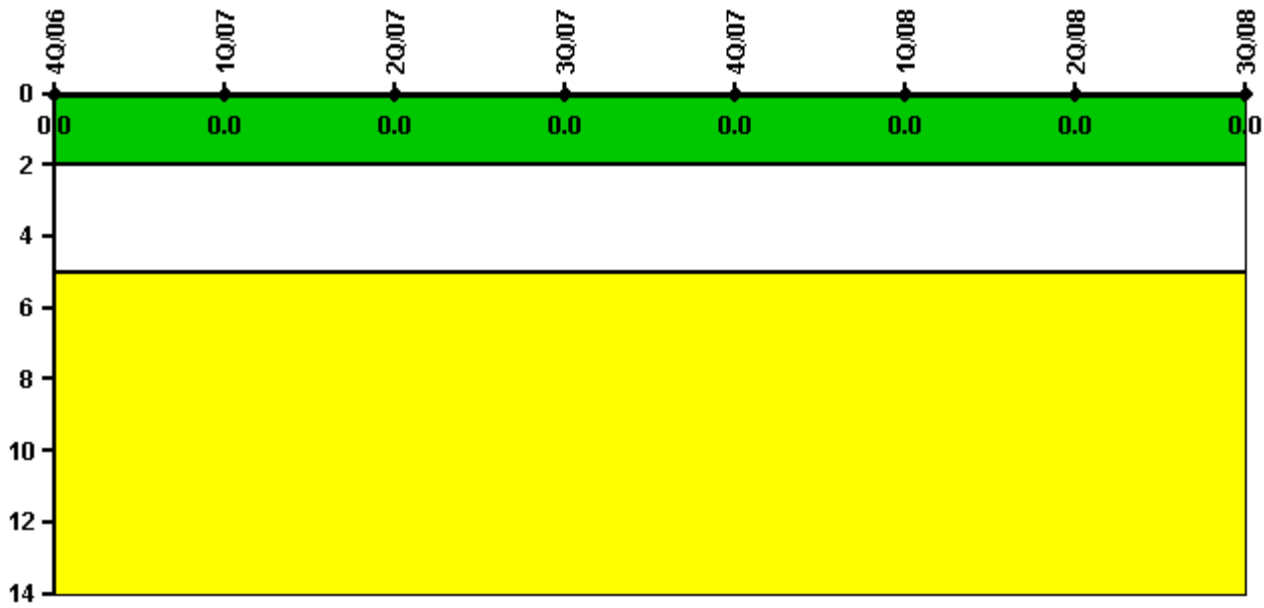
**Thresholds:** White < 94.0% Yellow < 90.0%

### Notes

| Alert & Notification System | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests      | 476   | 543   | 474   | 539   | 476   | 543   | 472   | 475   |
| Total sirens-tests          | 476   | 544   | 476   | 544   | 476   | 544   | 476   | 476   |
| Indicator value             | 99.5% | 99.6% | 99.6% | 99.6% | 99.6% | 99.6% | 99.5% | 99.7% |

Licensee Comments: none

## Occupational Exposure Control Effectiveness



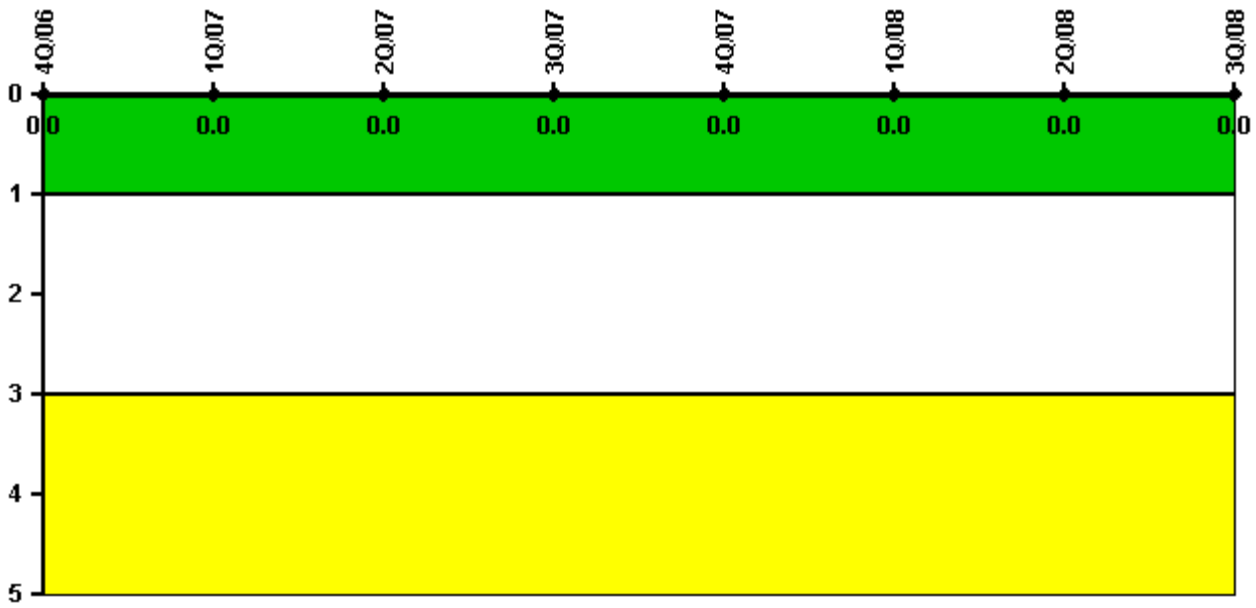
Thresholds: White > 2.0 Yellow > 5.0

### Notes

| Occupational Exposure Control Effectiveness | 4Q/06    | 1Q/07    | 2Q/07    | 3Q/07    | 4Q/07    | 1Q/08    | 2Q/08    | 3Q/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        |
| <b>Indicator value</b>                      | <b>0</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 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/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.