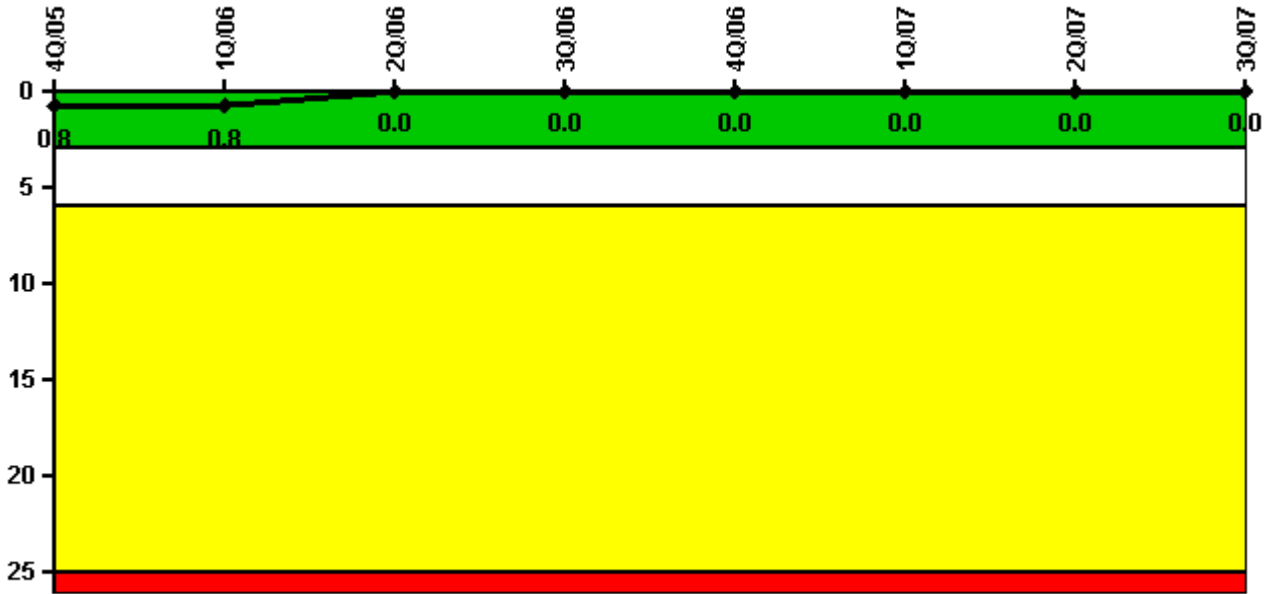


# Sequoyah 1

## 3Q/2007 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



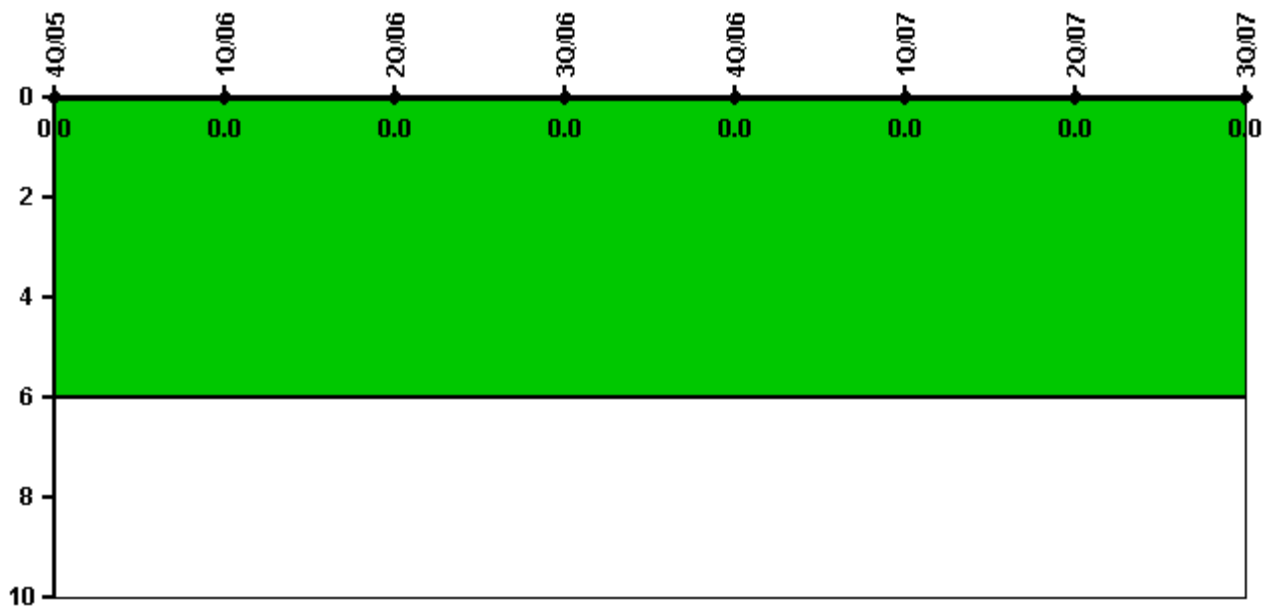
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/05  | 1Q/06  | 2Q/06  | 3Q/06  | 4Q/06  | 1Q/07  | 2Q/07  | 3Q/07  |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Critical hours                         | 2209.0 | 2160.0 | 1362.5 | 2208.0 | 2209.0 | 2159.0 | 2184.0 | 2208.0 |
| Indicator value                        | 0.8    | 0.8    | 0      | 0      | 0      | 0      | 0      | 0      |

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



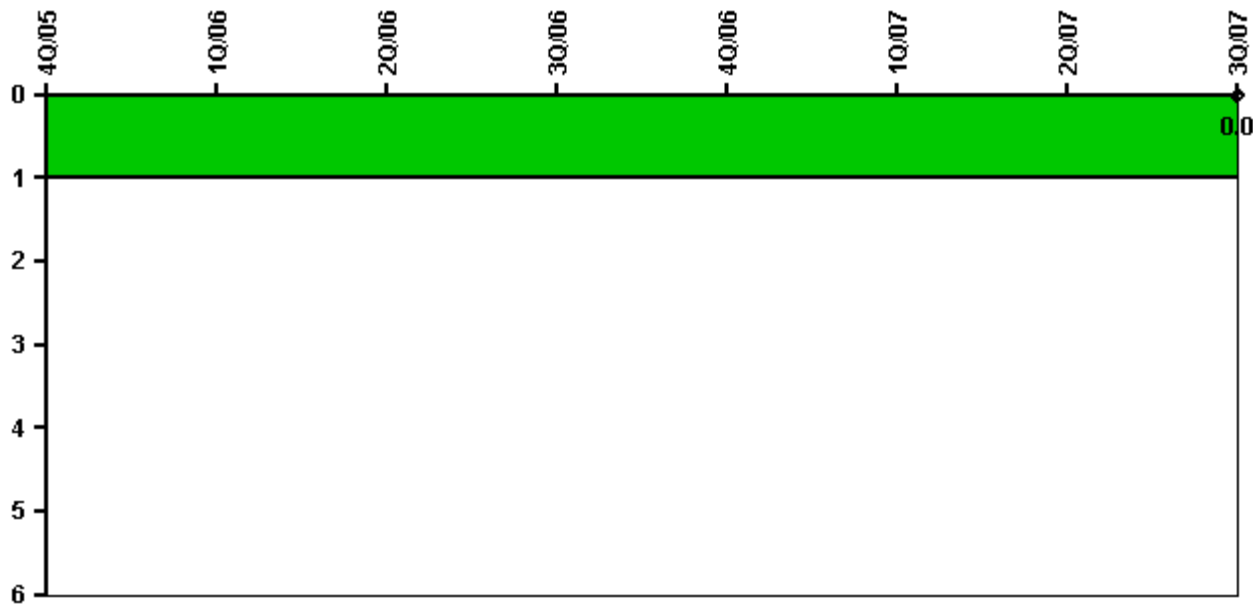
Thresholds: White > 6.0

### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/05  | 1Q/06  | 2Q/06  | 3Q/06  | 4Q/06  | 1Q/07  | 2Q/07  | 3Q/07  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Critical hours                                | 2209.0 | 2160.0 | 1362.5 | 2208.0 | 2209.0 | 2159.0 | 2184.0 | 2208.0 |
| Indicator value                               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |

Licensee Comments: none

# Unplanned Scrams with Complications



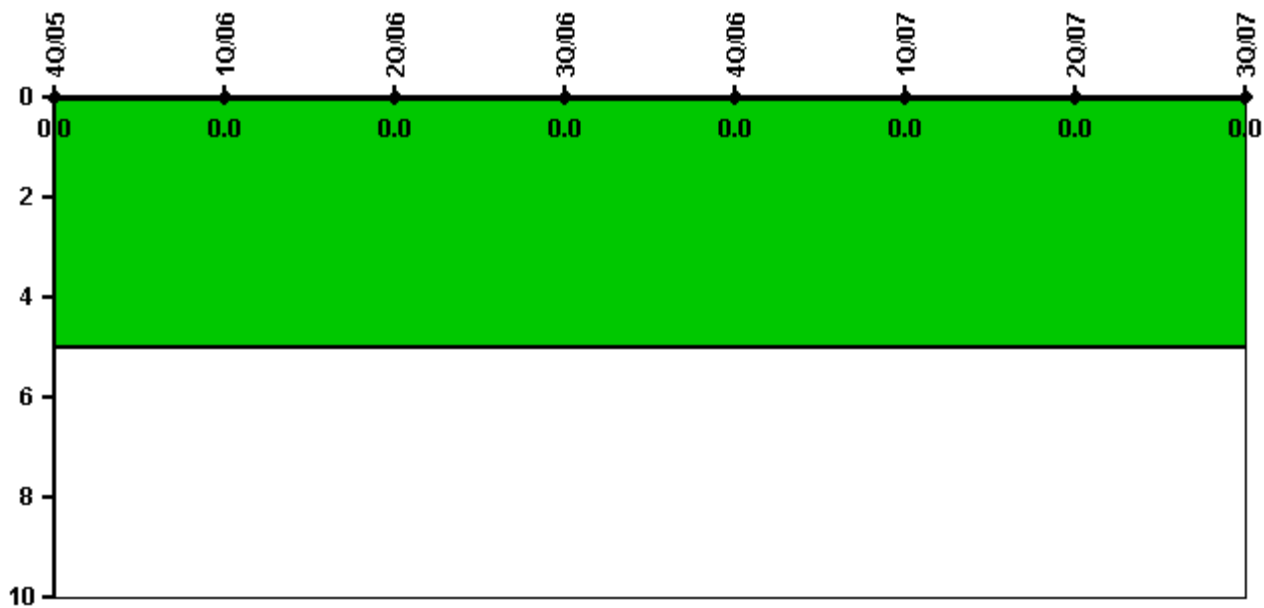
Thresholds: White > 1.0

## Notes

| Unplanned Scrams with Complications | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Scrams with complications           |       |       |       |       | 0     | 0     | 0     | 0     |
|                                     |       |       |       |       |       |       |       |       |
|                                     |       |       |       |       |       |       |       |       |
| Indicator value                     |       |       |       |       |       |       |       | 0.0   |

Licensee Comments: none

# Safety System Functional Failures (PWR)



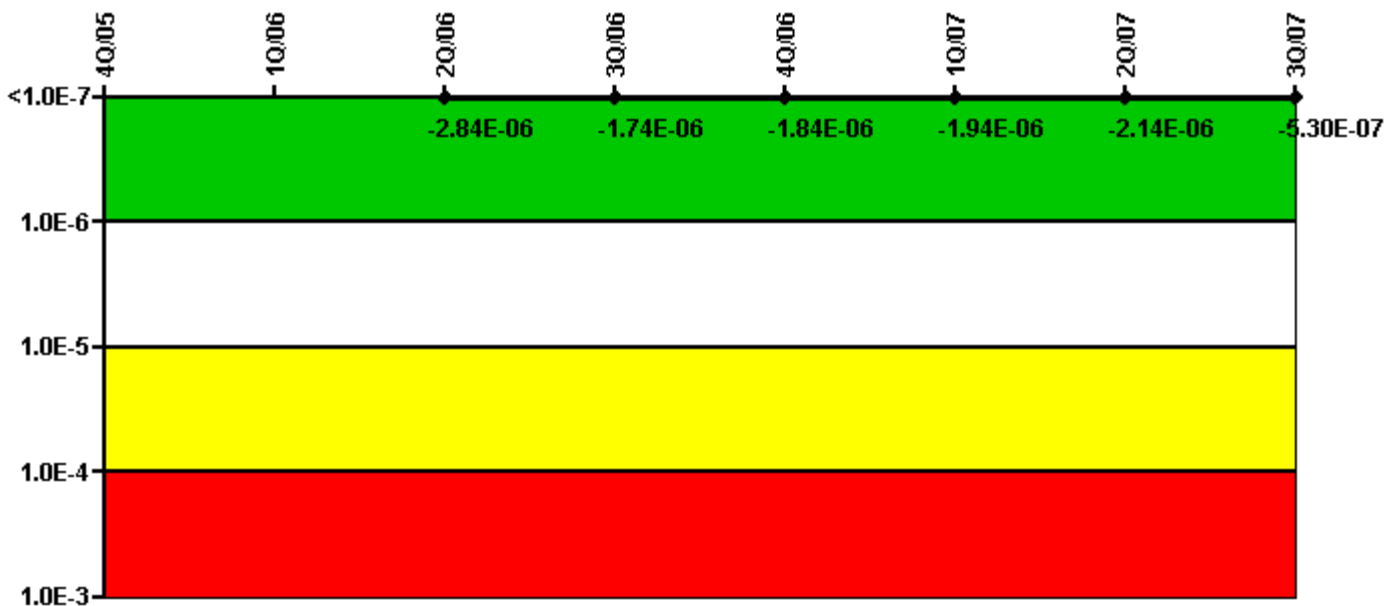
Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 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/05 | 1Q/06 | 2Q/06     | 3Q/06     | 4Q/06     | 1Q/07     | 2Q/07     | 3Q/07     |
|---|-------|-------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)   |       |       | -4.40E-07 | -4.40E-07 | -4.40E-07 | -4.40E-07 | -4.40E-07 | -4.30E-07 |
| URI ( $\Delta$ CDF)   |       |       | -2.40E-06 | -1.30E-06 | -1.40E-06 | -1.50E-06 | -1.70E-06 | -1.00E-07 |
| PLE   |       |       | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   |       |       | -2.84E-06 | -1.74E-06 | -1.84E-06 | -1.94E-06 | -2.14E-06 | -5.30E-07 |

Licensee Comments:

3Q/07: Risk Cap Invoked. Changed PRA Parameter(s).

2Q/07: Changed PRA Parameter(s).

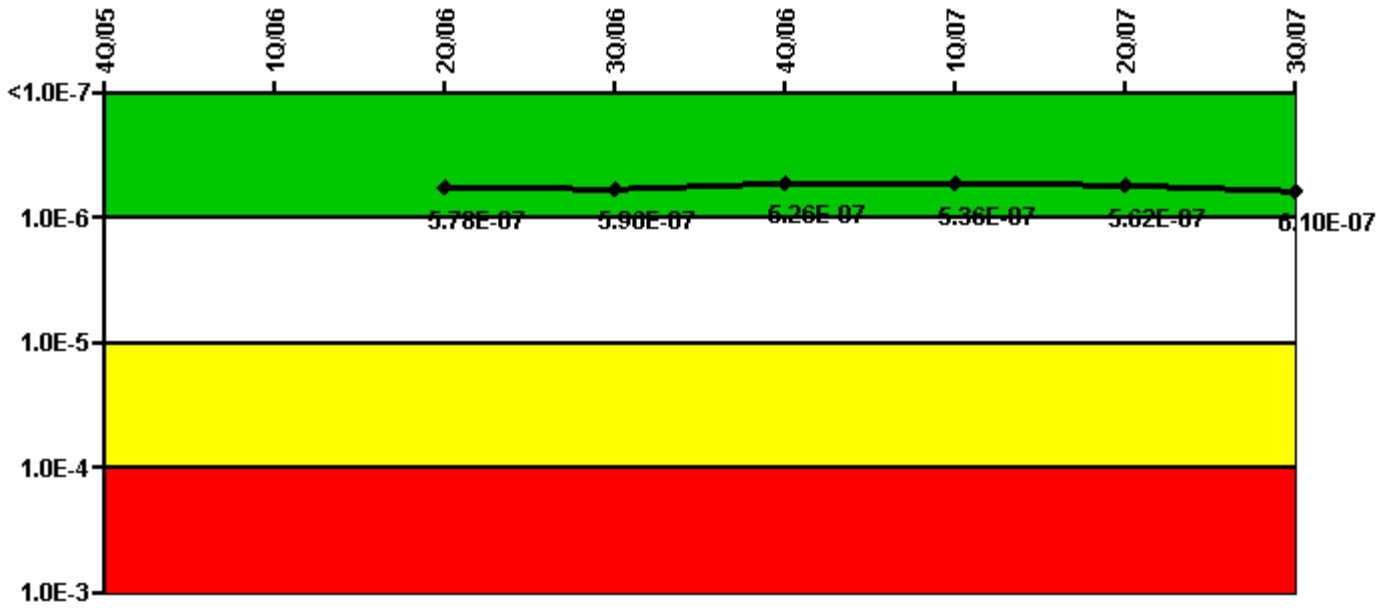
1Q/07: Changed PRA Parameter(s).

4Q/06: Changed PRA Parameter(s).

3Q/06: Changed PRA Parameter(s).

2Q/06: Changed PRA Parameter(s).

# Mitigating Systems Performance Index, High Pressure Injection System



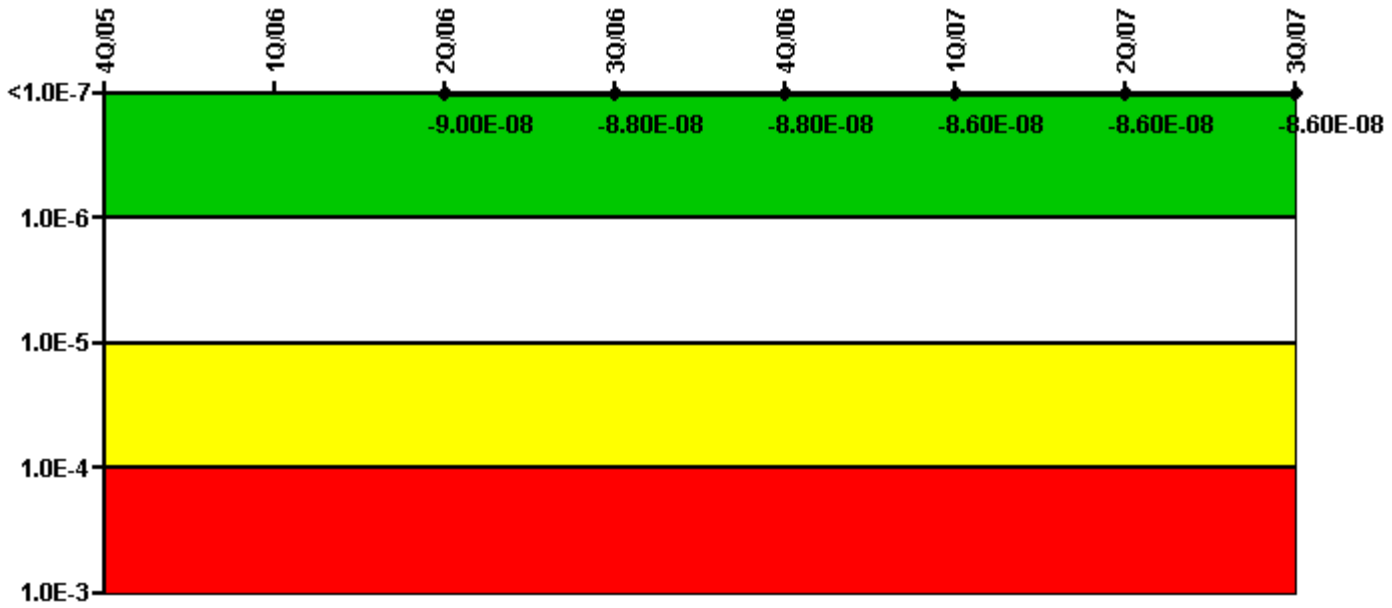
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 4Q/05 | 1Q/06 | 2Q/06    | 3Q/06    | 4Q/06    | 1Q/07    | 2Q/07    | 3Q/07    |
|--|-------|-------|----------|----------|----------|----------|----------|----------|
| UAI ( $\Delta$ CDF)  |       |       | 4.80E-08 | 6.60E-08 | 2.60E-08 | 3.60E-08 | 6.20E-08 | 1.10E-07 |
| URI ( $\Delta$ CDF)  |       |       | 5.30E-07 | 5.30E-07 | 5.00E-07 | 5.00E-07 | 5.00E-07 | 5.00E-07 |
| PLE  |       |       | NO       | NO       | NO       | NO       | NO       | NO       |
| Indicator value  |       |       | 5.78E-07 | 5.96E-07 | 5.26E-07 | 5.36E-07 | 5.62E-07 | 6.10E-07 |

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



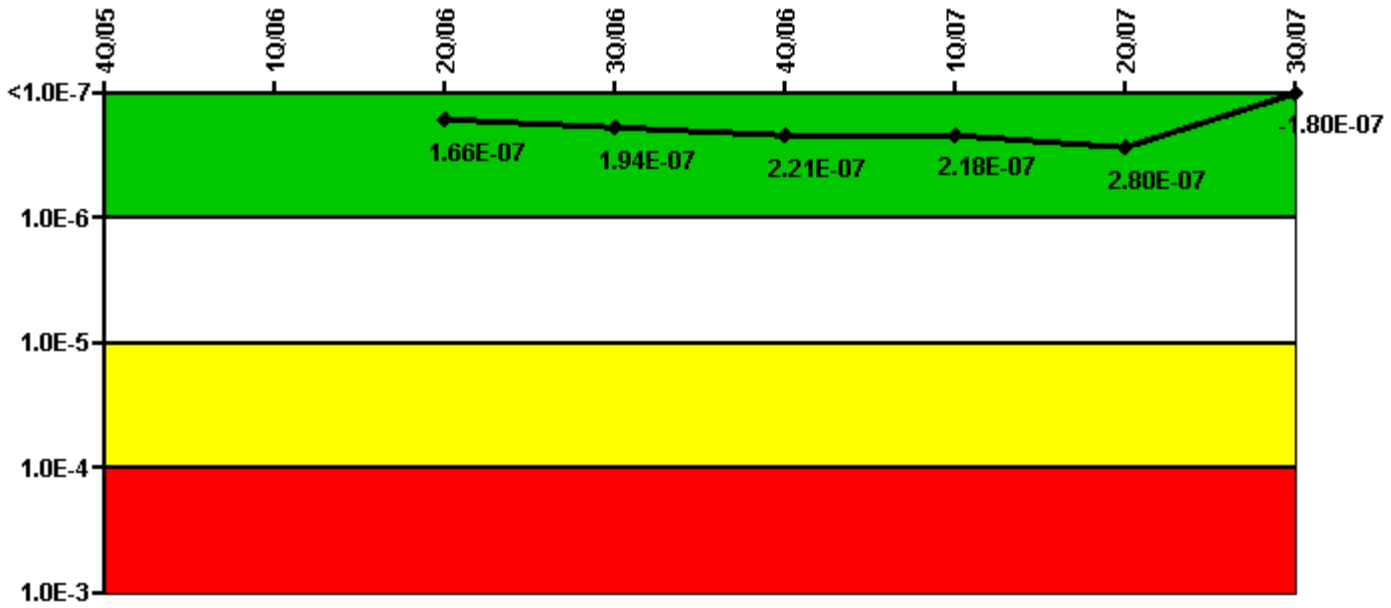
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Heat Removal System | 4Q/05 | 1Q/06 | 2Q/06     | 3Q/06     | 4Q/06     | 1Q/07     | 2Q/07     | 3Q/07     |
|---|-------|-------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)                                       |       |       | -2.20E-08 | -2.20E-08 | -2.20E-08 | -2.20E-08 | -2.20E-08 | -2.20E-08 |
| URI ( $\Delta$ CDF)                                       |       |       | -6.80E-08 | -6.60E-08 | -6.60E-08 | -6.40E-08 | -6.40E-08 | -6.40E-08 |
| PLE   |       |       | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   |       |       | -9.00E-08 | -8.80E-08 | -8.80E-08 | -8.60E-08 | -8.60E-08 | -8.60E-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

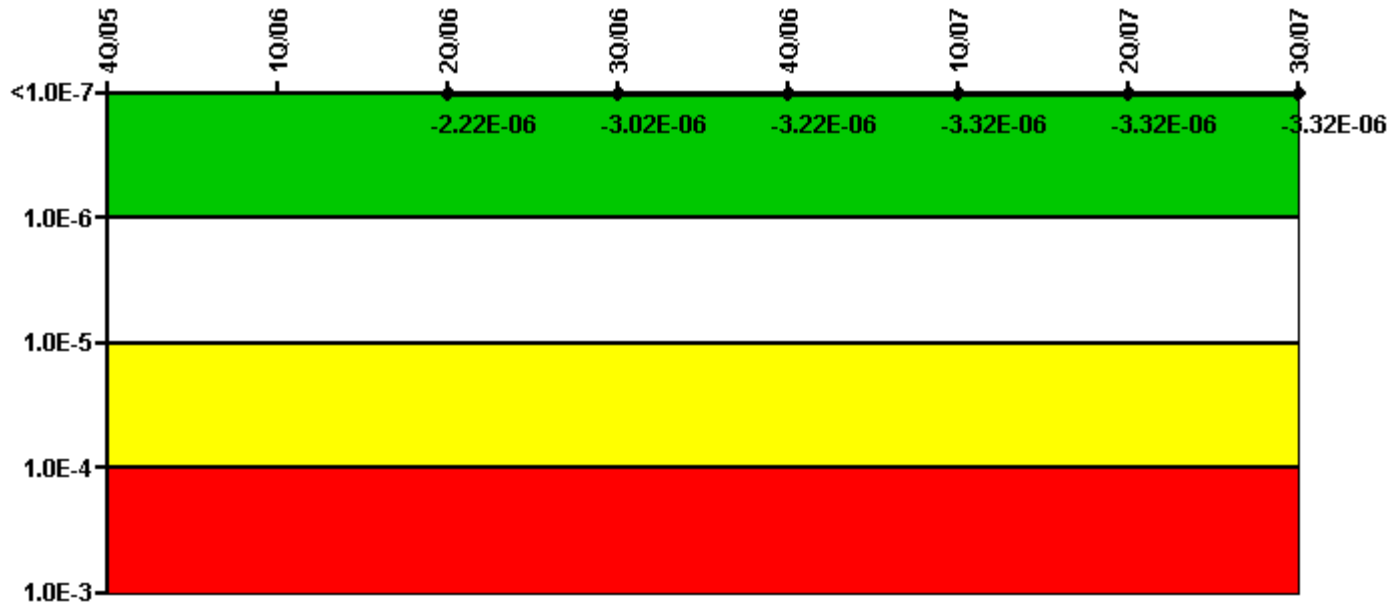
## Notes

| Mitigating Systems Performance Index, Residual Heat Removal System | 4Q/05 | 1Q/06 | 2Q/06    | 3Q/06    | 4Q/06    | 1Q/07    | 2Q/07    | 3Q/07     |
|--|-------|-------|----------|----------|----------|----------|----------|-----------|
| UAI ( $\Delta$ CDF)  |       |       | 3.60E-08 | 6.40E-08 | 9.10E-08 | 8.80E-08 | 1.50E-07 | 1.90E-07  |
| URI ( $\Delta$ CDF)  |       |       | 1.30E-07 | 1.30E-07 | 1.30E-07 | 1.30E-07 | 1.30E-07 | -3.70E-07 |
| PLE  |       |       | NO       | NO       | NO       | NO       | NO       | NO        |
| Indicator value  |       |       | 1.66E-07 | 1.94E-07 | 2.21E-07 | 2.18E-07 | 2.80E-07 | -1.80E-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 | 4Q/05 | 1Q/06 | 2Q/06     | 3Q/06     | 4Q/06     | 1Q/07     | 2Q/07     | 3Q/07     |
|---|-------|-------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)   |       |       | -2.00E-06 | -2.80E-06 | -3.00E-06 | -3.10E-06 | -3.10E-06 | -3.10E-06 |
| URI ( $\Delta$ CDF)   |       |       | -2.20E-07 | -2.20E-07 | -2.20E-07 | -2.20E-07 | -2.20E-07 | -2.20E-07 |
| PLE   |       |       | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   |       |       | -2.22E-06 | -3.02E-06 | -3.22E-06 | -3.32E-06 | -3.32E-06 | -3.32E-06 |

Licensee Comments:

3Q/07: Changed PRA Parameter(s).

2Q/07: Changed PRA Parameter(s).

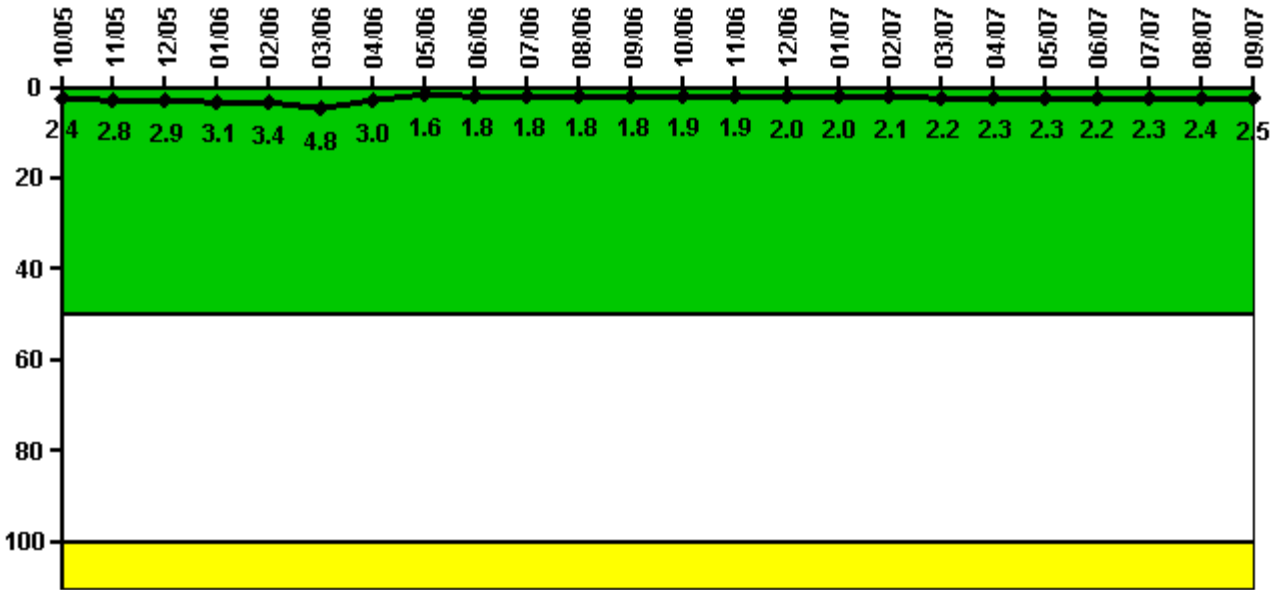
1Q/07: Changed PRA Parameter(s). Updated the Planned Unavailability baselines for non-routine planned Maint.

4Q/06: Changed PRA Parameter(s). Corrected Planned Unavailability Baseline.

3Q/06: Changed PRA Parameter(s). Corrected Planned Unavailability Baseline.

2Q/06: Changed PRA Parameter(s). Corrected Planned Unavailability Baseline.

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

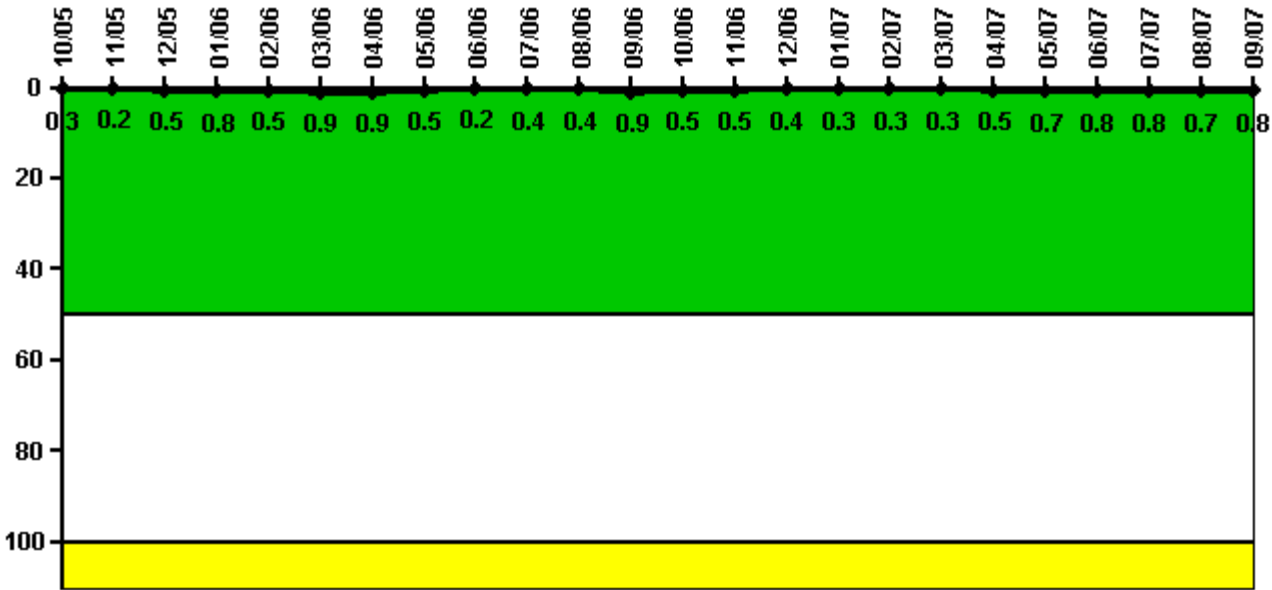
| Reactor Coolant System Activity | 10/05    | 11/05    | 12/05    | 1/06     | 2/06     | 3/06     | 4/06     | 5/06     | 6/06     | 7/06     | 8/06     | 9/06     |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.008549 | 0.009713 | 0.010110 | 0.010880 | 0.011990 | 0.016730 | 0.010510 | 0.005567 | 0.006252 | 0.006234 | 0.006255 | 0.006244 |
| Technical specification limit   | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      |
| Indicator value                 | 2.4      | 2.8      | 2.9      | 3.1      | 3.4      | 4.8      | 3.0      | 1.6      | 1.8      | 1.8      | 1.8      | 1.8      |

| 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                | 0.006689 | 0.006602 | 0.007064 | 0.007125 | 0.007427 | 0.007719 | 0.007894 | 0.007921 | 0.007870 | 0.007976 | 0.008524 | 0.008710 |
| Technical specification limit   | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      |
| Indicator value                 | 1.9      | 1.9      | 2.0      | 2.0      | 2.1      | 2.2      | 2.3      | 2.3      | 2.2      | 2.3      | 2.4      | 2.5      |

Licensee Comments: none

# Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

## Notes

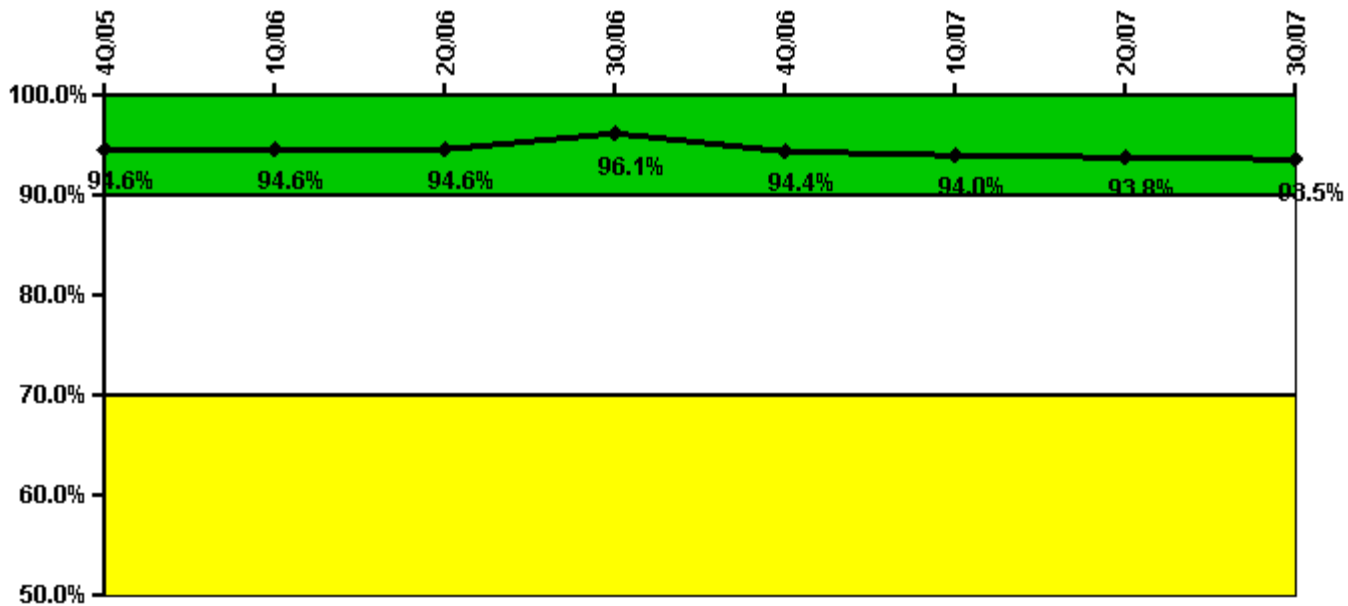
| Reactor Coolant System Leakage | 10/05 | 11/05 | 12/05 | 1/06  | 2/06  | 3/06  | 4/06  | 5/06  | 6/06  | 7/06  | 8/06  | 9/06  |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage                | 0.030 | 0.020 | 0.050 | 0.080 | 0.050 | 0.090 | 0.090 | 0.050 | 0.020 | 0.040 | 0.040 | 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                | 0.3   | 0.2   | 0.5   | 0.8   | 0.5   | 0.9   | 0.9   | 0.5   | 0.2   | 0.4   | 0.4   | 0.9   |

| 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                | 0.050 | 0.050 | 0.040 | 0.030 | 0.030 | 0.030 | 0.050 | 0.070 | 0.080 | 0.080 | 0.070 | 0.080 |
| 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                | 0.5   | 0.5   | 0.4   | 0.3   | 0.3   | 0.3   | 0.5   | 0.7   | 0.8   | 0.8   | 0.7   | 0.8   |

Licensee Comments: none

## Drill/Exercise Performance



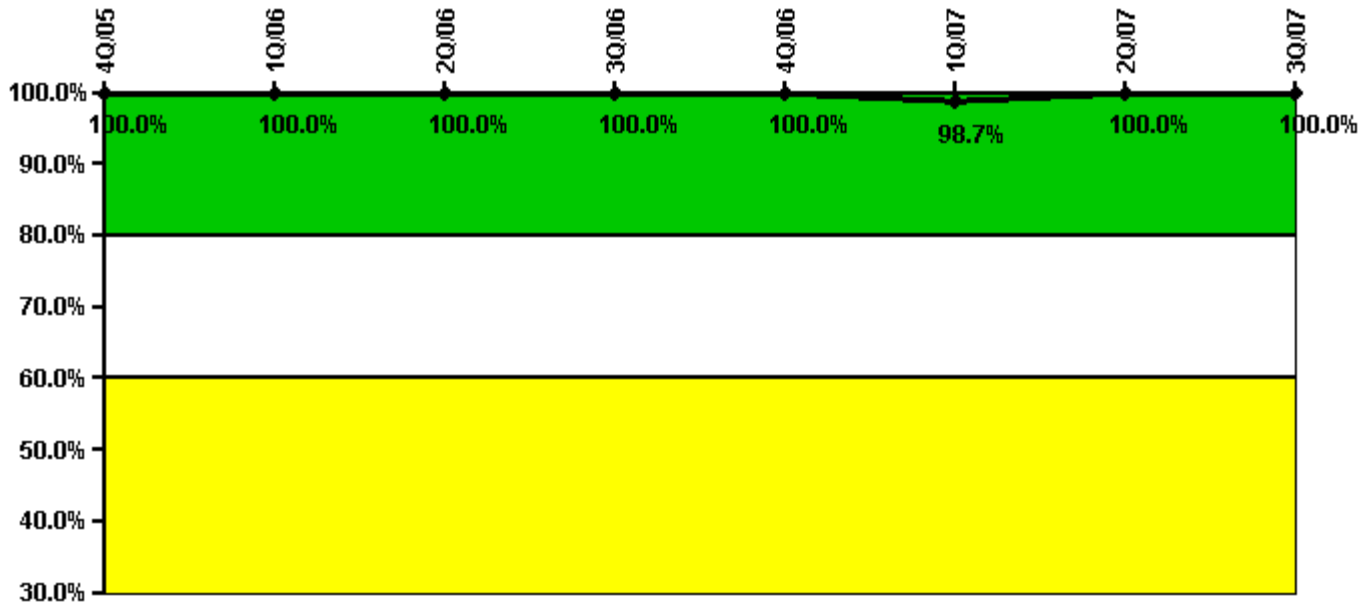
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

| Drill/Exercise Performance | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 37.0  | 6.0   | 0     | 38.0  | 44.0  | 0     | 24.0  | 10.0  |
| Total opportunities        | 42.0  | 6.0   | 0     | 38.0  | 48.0  | 0     | 26.0  | 10.0  |
|                            |       |       |       |       |       |       |       |       |
| Indicator value            | 94.6% | 94.6% | 94.6% | 96.1% | 94.4% | 94.0% | 93.8% | 93.5% |

Licensee Comments: none

# ERO Drill Participation



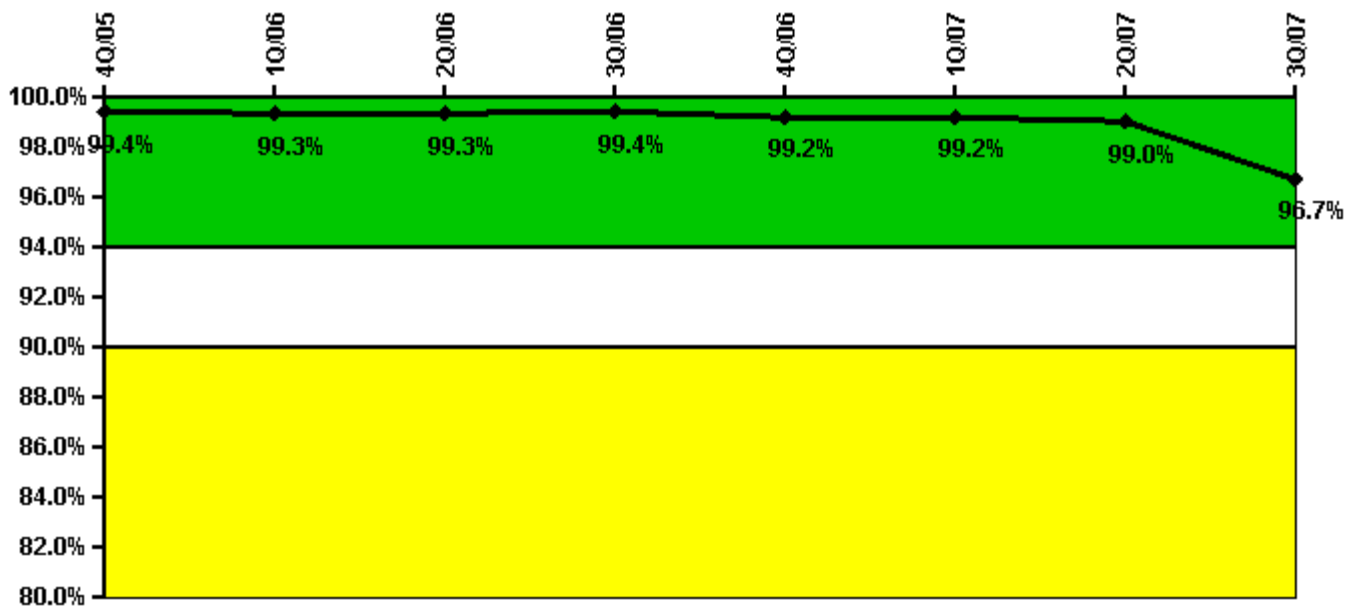
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation     | 4Q/05  | 1Q/06  | 2Q/06  | 3Q/06  | 4Q/06  | 1Q/07 | 2Q/07  | 3Q/07  |
|-----------------------------|--------|--------|--------|--------|--------|-------|--------|--------|
| Participating Key personnel | 87.0   | 87.0   | 88.0   | 82.0   | 81.0   | 75.0  | 82.0   | 93.0   |
| Total Key personnel         | 87.0   | 87.0   | 88.0   | 82.0   | 81.0   | 76.0  | 82.0   | 93.0   |
| Indicator value             | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 98.7% | 100.0% | 100.0% |

Licensee Comments: none

# Alert & Notification System



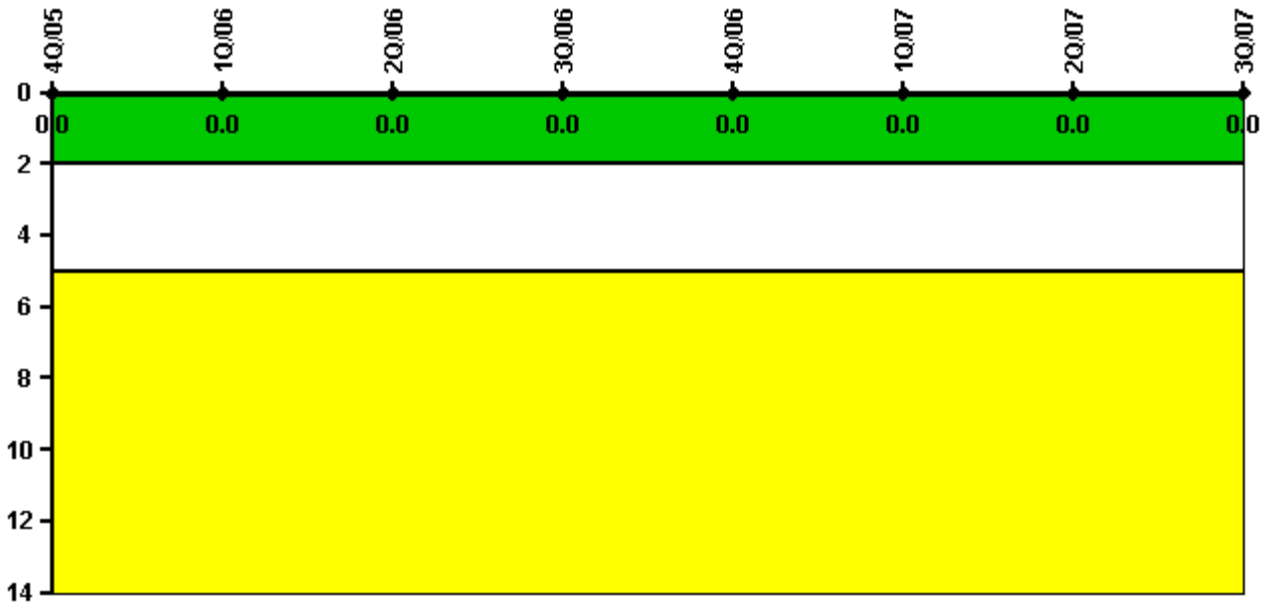
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

| Alert & Notification System | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests      | 861   | 752   | 858   | 854   | 855   | 750   | 854   | 779   |
| Total sirens-tests          | 864   | 756   | 864   | 861   | 864   | 756   | 864   | 864   |
|                             |       |       |       |       |       |       |       |       |
| Indicator value             | 99.4% | 99.3% | 99.3% | 99.4% | 99.2% | 99.2% | 99.0% | 96.7% |

Licensee Comments: none

# Occupational Exposure Control Effectiveness



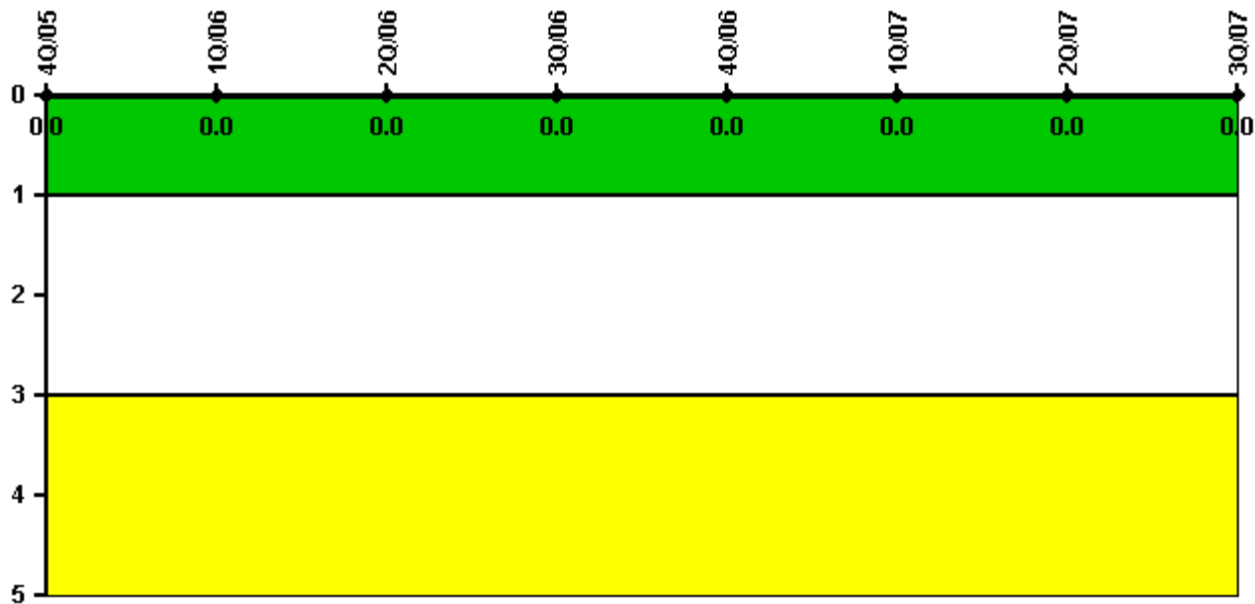
Thresholds: White > 2.0 Yellow > 5.0

## Notes

| Occupational Exposure Control Effectiveness | 4Q/05    | 1Q/06    | 2Q/06    | 3Q/06    | 4Q/06    | 1Q/07    | 2Q/07    | 3Q/07    |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| 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/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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.