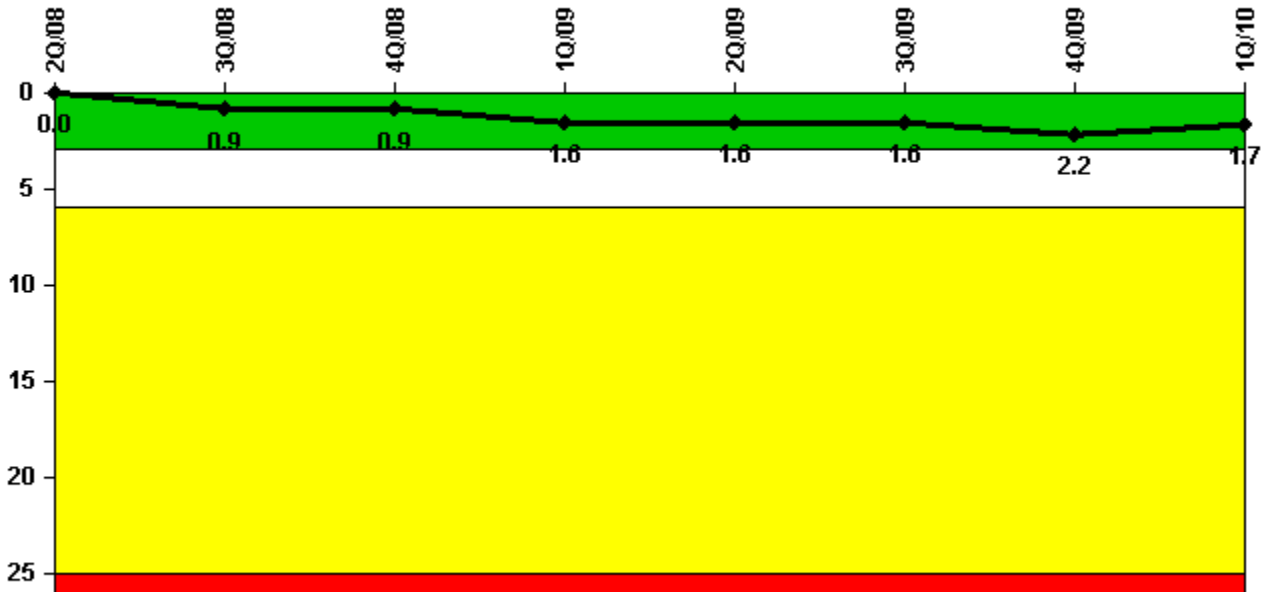


# Crystal River 3

## 1Q/2010 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



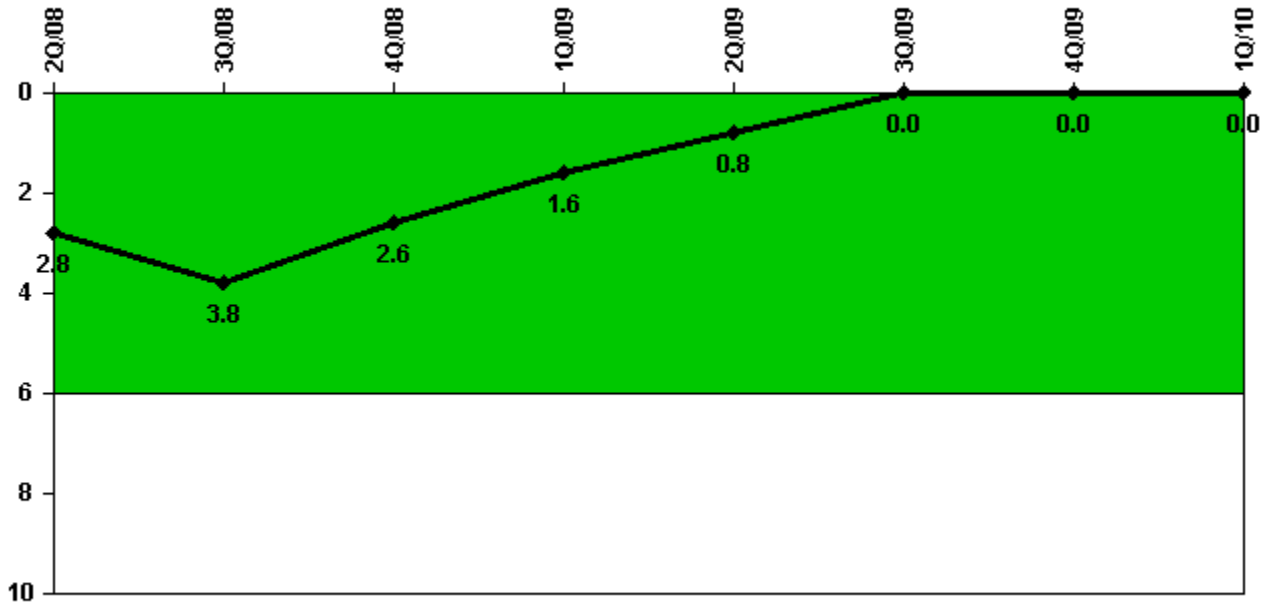
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/08  | 3Q/08  | 4Q/08  | 1Q/09  | 2Q/09  | 3Q/09  | 4Q/09 | 1Q/10 |
|--|--------|--------|--------|--------|--------|--------|-------|-------|
| Unplanned scrams                       | 0      | 1.0    | 0      | 1.0    | 0      | 1.0    | 0     | 0     |
| Critical hours                         | 2184.0 | 2122.6 | 2209.0 | 2106.0 | 2184.0 | 2056.7 | 0     | 0     |
| Indicator value                        | 0      | 0.9    | 0.9    | 1.6    | 1.6    | 1.6    | 2.2   | 1.7   |

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/08  | 3Q/08  | 4Q/08  | 1Q/09  | 2Q/09  | 3Q/09  | 4Q/09 | 1Q/10 |
|---|--------|--------|--------|--------|--------|--------|-------|-------|
| Unplanned power changes                       | 1.0    | 1.0    | 0      | 0      | 0      | 0      | 0     | 0     |
| Critical hours                                | 2184.0 | 2122.6 | 2209.0 | 2106.0 | 2184.0 | 2056.7 | 0     | 0     |
| Indicator value                               | 2.8    | 3.8    | 2.6    | 1.6    | 0.8    | 0      | 0     | 0     |

Licensee Comments: none

## Unplanned Scrams with Complications



Thresholds: White > 1.0

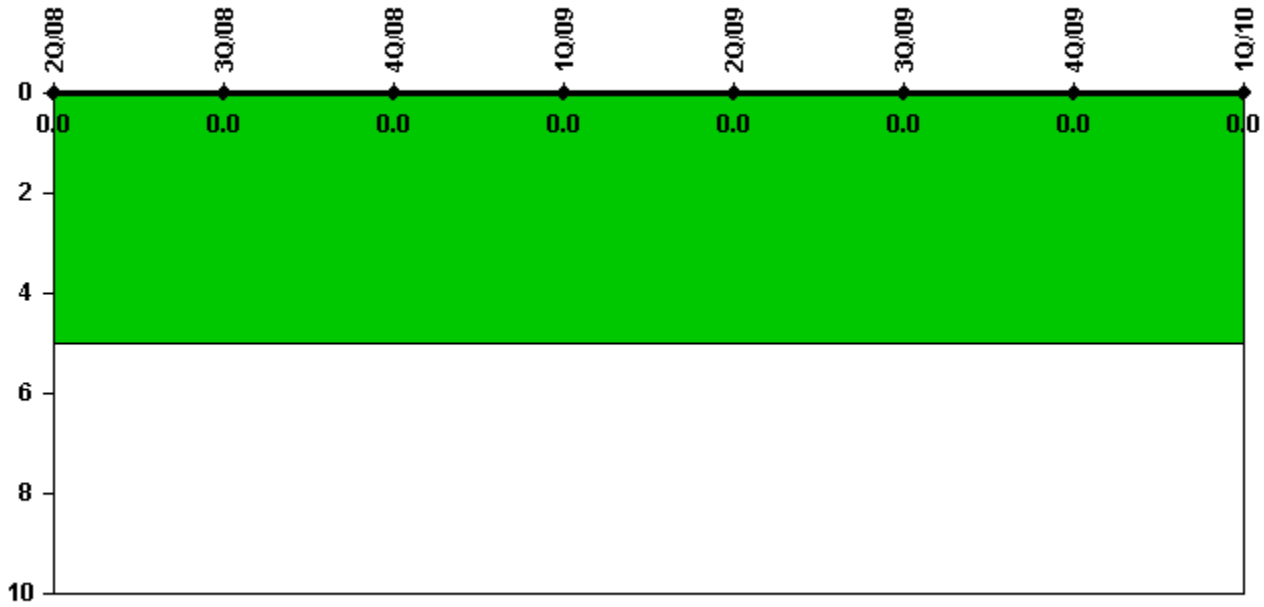
### Notes

| Unplanned Scrams with Complications | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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   | 0.0   | 0.0   |

Licensee Comments: none

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## Safety System Functional Failures (PWR)



Thresholds: White > 5.0

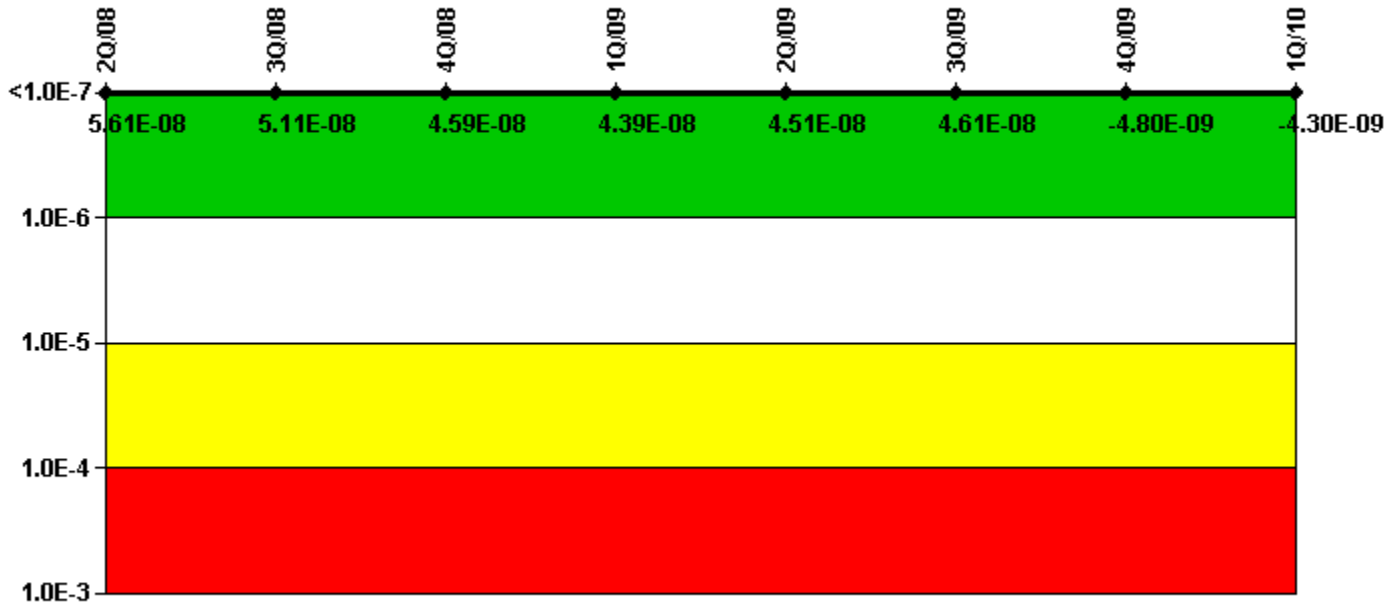
### Notes

| Safety System Functional Failures (PWR) | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 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

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# Mitigating Systems Performance Index, Emergency AC Power System



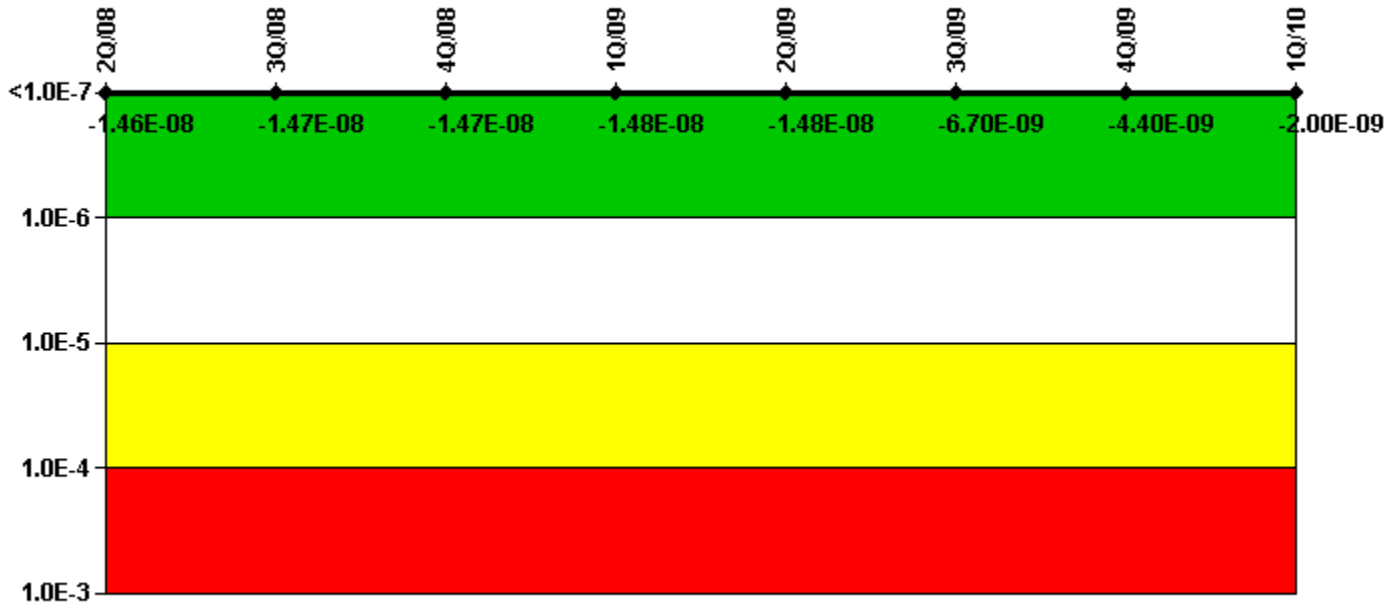
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Emergency AC Power System | 2Q/08    | 3Q/08    | 4Q/08     | 1Q/09     | 2Q/09     | 3Q/09     | 4Q/09     | 1Q/10     |
|---|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)   | 8.10E-09 | 3.10E-09 | -3.10E-09 | -5.10E-09 | -3.90E-09 | -3.90E-09 | -3.50E-09 | -3.03E-09 |
| URI ( $\Delta$ CDF)   | 4.80E-08 | 4.80E-08 | 4.90E-08  | 4.90E-08  | 4.90E-08  | 5.00E-08  | -1.30E-09 | -1.31E-09 |
| PLE   | NO       | NO       | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | 5.61E-08 | 5.11E-08 | 4.59E-08  | 4.39E-08  | 4.51E-08  | 4.61E-08  | 4.80E-09  | 4.30E-09  |

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



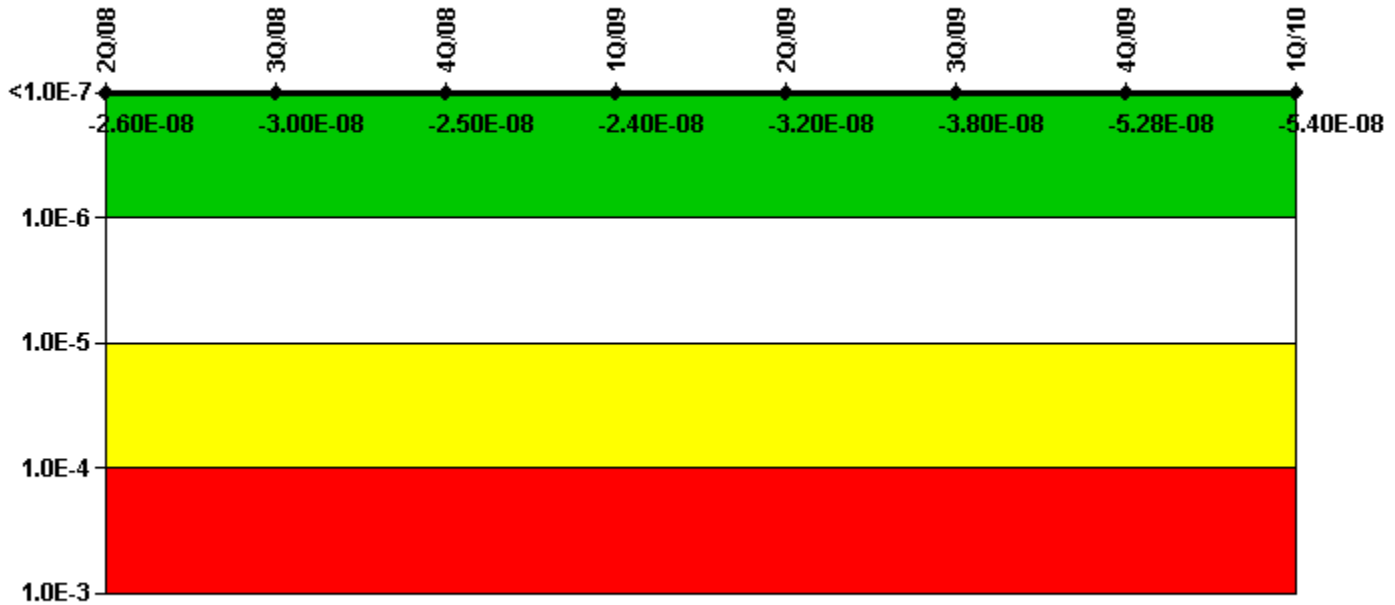
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 2Q/08     | 3Q/08     | 4Q/08     | 1Q/09     | 2Q/09     | 3Q/09     | 4Q/09     | 1Q/10     |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)  | -4.90E-09 | -4.90E-09 | -4.90E-09 | -4.90E-09 | -4.90E-09 | 3.30E-09  | 5.60E-09  | 8.05E-09  |
| URI ( $\Delta$ CDF)  | -9.70E-09 | -9.80E-09 | -9.80E-09 | -9.90E-09 | -9.90E-09 | -1.00E-08 | -1.00E-08 | -1.01E-08 |
| PLE  | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value  | -1.46E-08 | -1.47E-08 | -1.47E-08 | -1.48E-08 | -1.48E-08 | -6.70E-09 | -4.40E-09 | -2.00E-09 |

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



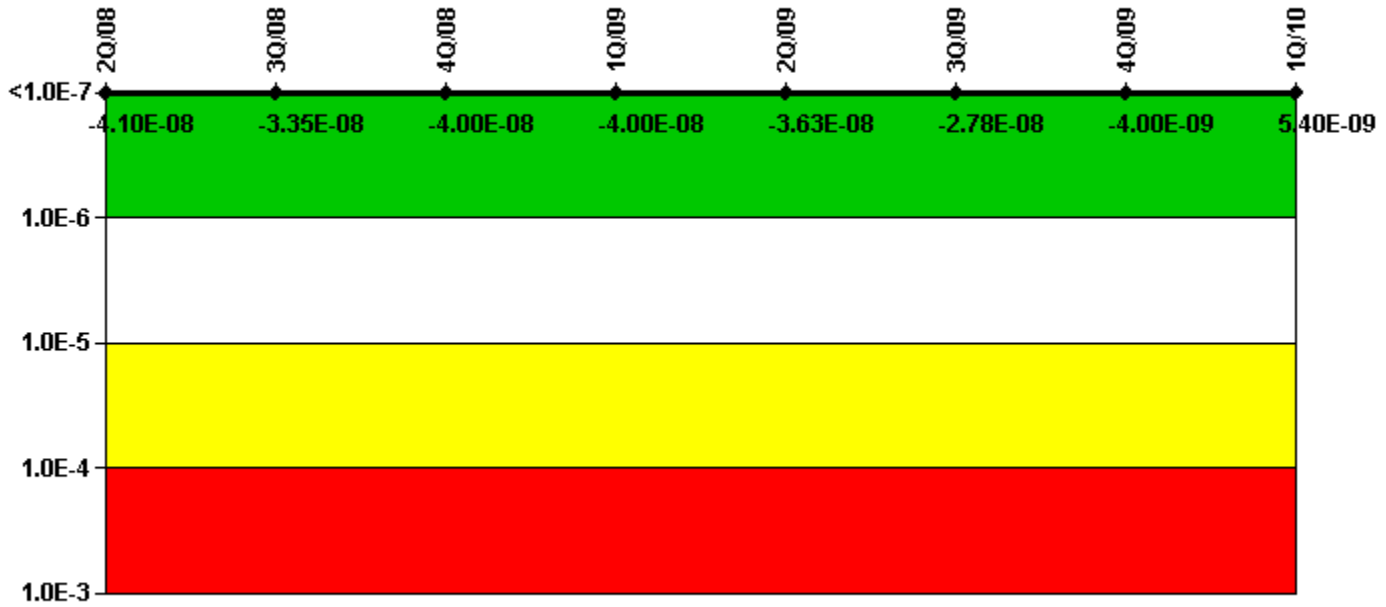
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Heat Removal System | 2Q/08     | 3Q/08     | 4Q/08     | 1Q/09     | 2Q/09     | 3Q/09     | 4Q/09     | 1Q/10     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)                                       | 2.40E-08  | 2.00E-08  | 2.40E-08  | 2.50E-08  | 1.70E-08  | 1.10E-08  | -3.80E-09 | -6.82E-09 |
| URI ( $\Delta$ CDF)                                       | -5.00E-08 | -5.00E-08 | -4.90E-08 | -4.90E-08 | -4.90E-08 | -4.90E-08 | -4.90E-08 | -4.76E-08 |
| PLE   | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | -2.60E-08 | -3.00E-08 | -2.50E-08 | -2.40E-08 | -3.20E-08 | -3.80E-08 | -5.28E-08 | -5.40E-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

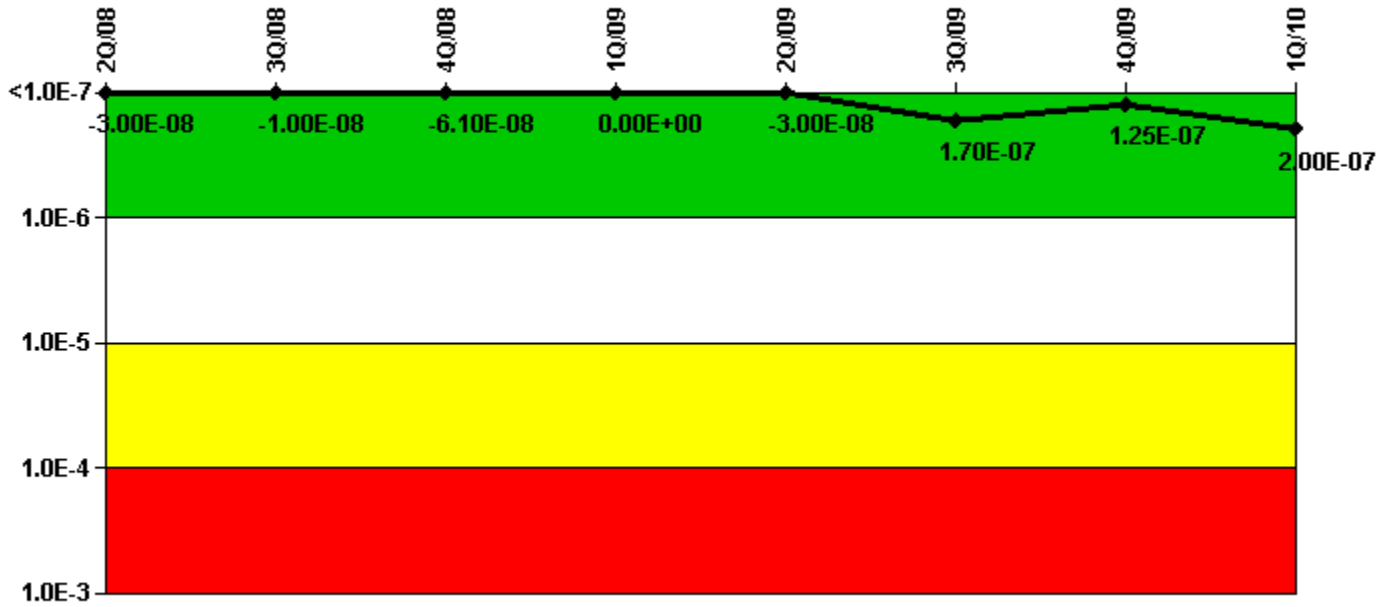
## Notes

| Mitigating Systems Performance Index, Residual Heat Removal System | 2Q/08     | 3Q/08     | 4Q/08     | 1Q/09     | 2Q/09     | 3Q/09     | 4Q/09     | 1Q/10     |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)  | -1.40E-08 | -6.50E-09 | -1.20E-08 | -1.20E-08 | -7.30E-09 | 1.20E-09  | 2.60E-08  | 3.50E-08  |
| URI ( $\Delta$ CDF)  | -2.70E-08 | -2.70E-08 | -2.80E-08 | -2.80E-08 | -2.90E-08 | -2.90E-08 | -3.00E-08 | -2.95E-08 |
| PLE  | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value  | -4.10E-08 | -3.35E-08 | -4.00E-08 | -4.00E-08 | -3.63E-08 | -2.78E-08 | -4.00E-09 | 5.40E-09  |

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



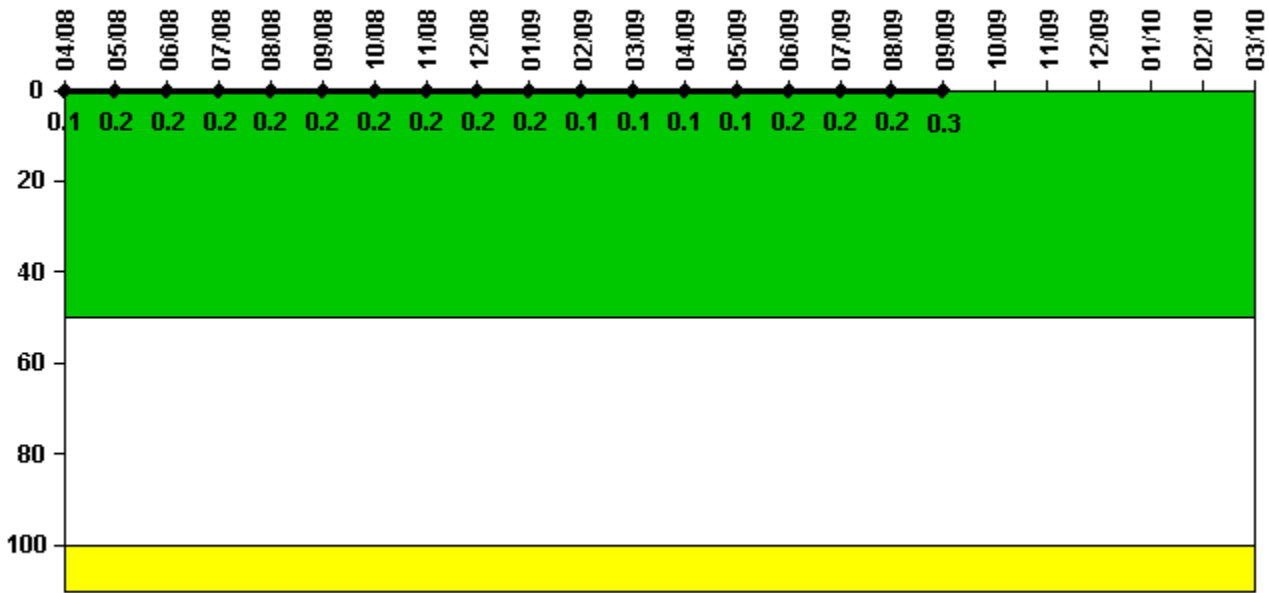
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Cooling Water Systems | 2Q/08     | 3Q/08     | 4Q/08     | 1Q/09     | 2Q/09     | 3Q/09     | 4Q/09     | 1Q/10     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)   | 1.10E-07  | 1.30E-07  | 7.90E-08  | 1.40E-07  | 1.10E-07  | 2.00E-07  | 1.90E-07  | 2.11E-07  |
| URI ( $\Delta$ CDF)   | -1.40E-07 | -1.40E-07 | -1.40E-07 | -1.40E-07 | -1.40E-07 | -3.00E-08 | -6.50E-08 | -1.21E-08 |
| PLE   | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | -3.00E-08 | -1.00E-08 | -6.10E-08 | 0.00E+00  | -3.00E-08 | 1.70E-07  | 1.25E-07  | 2.00E-07  |

Licensee Comments: none

# Reactor Coolant System Activity



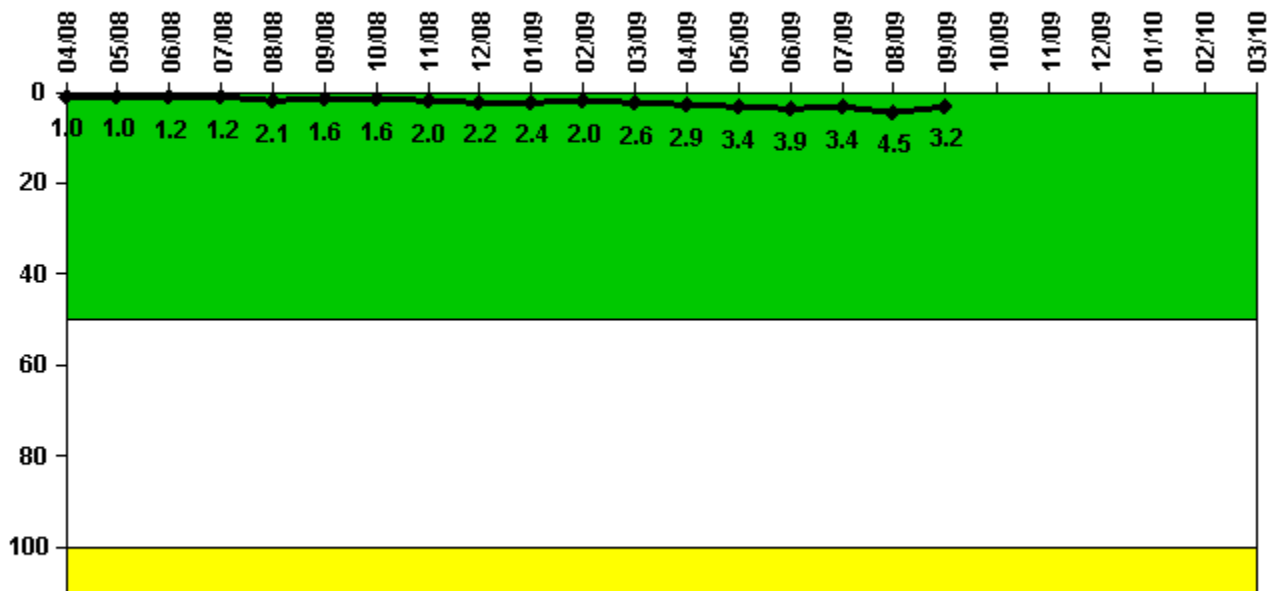
Thresholds: White > 50.0 Yellow > 100.0

## Notes

| Reactor Coolant System Activity | 4/08     | 5/08     | 6/08     | 7/08     | 8/08     | 9/08     | 10/08    | 11/08    | 12/08    | 1/09     | 2/09     | 3/09     |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.001342 | 0.001835 | 0.001571 | 0.001635 | 0.001660 | 0.001675 | 0.001920 | 0.001690 | 0.001510 | 0.001720 | 0.000982 | 0.001030 |
| 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      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.1      | 0.1      |
| Reactor Coolant System Activity | 4/09     | 5/09     | 6/09     | 7/09     | 8/09     | 9/09     | 10/09    | 11/09    | 12/09    | 1/10     | 2/10     | 3/10     |
| Maximum activity                | 0.000745 | 0.001050 | 0.001530 | 0.001630 | 0.001540 | 0.002510 | N/A      | N/A      | N/A      | N/A      | N/A      | N/A      |
| 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      | 0.2      | 0.2      | 0.2      | 0.3      | N/A      | N/A      | N/A      | N/A      | N/A      | N/A      |

Licensee Comments: none

# Reactor Coolant System Leakage



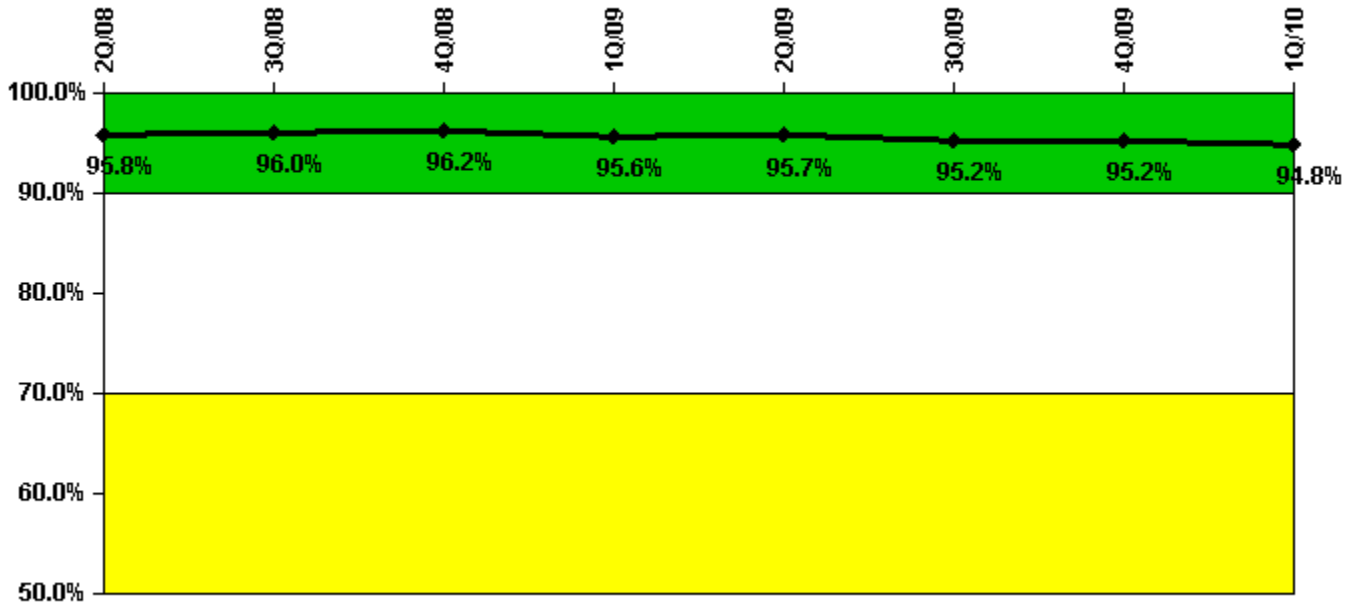
Thresholds: White > 50.0 Yellow > 100.0

## Notes

| Reactor Coolant System Leakage | 4/08  | 5/08  | 6/08  | 7/08  | 8/08  | 9/08  | 10/08 | 11/08 | 12/08 | 1/09  | 2/09  | 3/09  |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage                | 0.100 | 0.100 | 0.120 | 0.120 | 0.210 | 0.160 | 0.160 | 0.200 | 0.220 | 0.240 | 0.200 | 0.260 |
| 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   | 1.0   | 1.2   | 1.2   | 2.1   | 1.6   | 1.6   | 2.0   | 2.2   | 2.4   | 2.0   | 2.6   |
| Reactor Coolant System Leakage | 4/09  | 5/09  | 6/09  | 7/09  | 8/09  | 9/09  | 10/09 | 11/09 | 12/09 | 1/10  | 2/10  | 3/10  |
| Maximum leakage                | 0.290 | 0.340 | 0.390 | 0.340 | 0.450 | 0.320 | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   |
| 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                | 2.9   | 3.4   | 3.9   | 3.4   | 4.5   | 3.2   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   |

Licensee Comments: none

## Drill/Exercise Performance



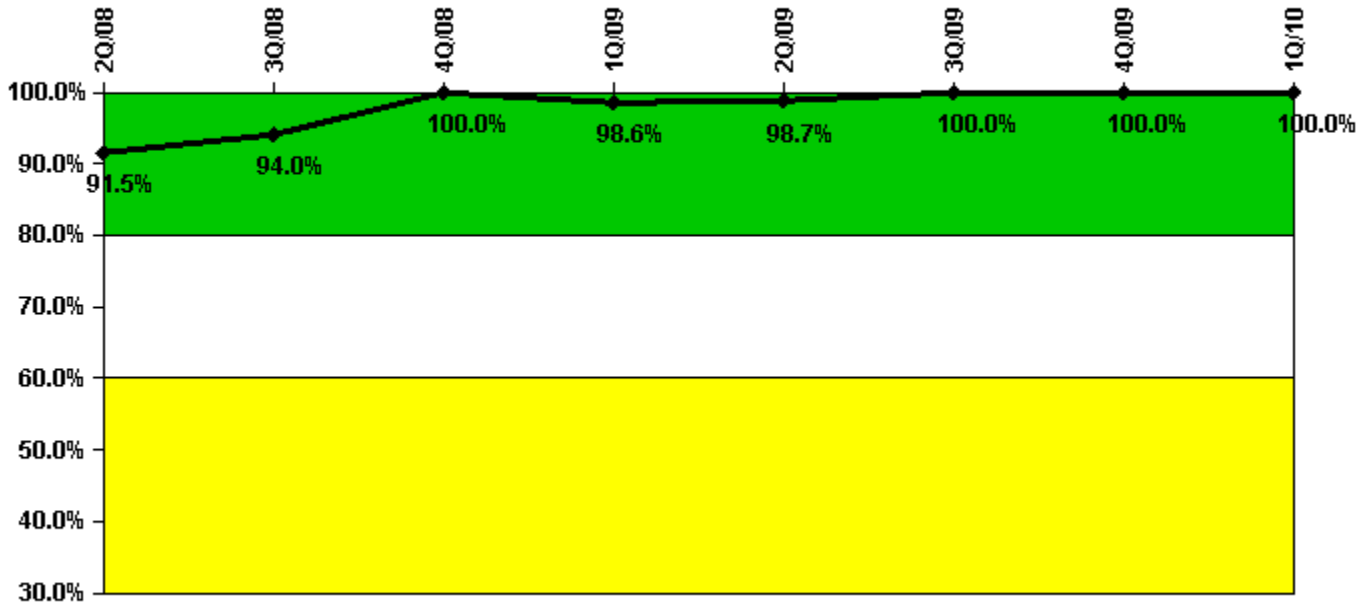
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

| Drill/Exercise Performance | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 52.0  | 30.0  | 15.0  | 33.0  | 19.0  | 20.0  | 0     | 32.0  |
| Total opportunities        | 59.0  | 30.0  | 15.0  | 34.0  | 19.0  | 21.0  | 0     | 34.0  |
|                            |       |       |       |       |       |       |       |       |
| Indicator value            | 95.8% | 96.0% | 96.2% | 95.6% | 95.7% | 95.2% | 95.2% | 94.8% |

Licensee Comments: none

## ERO Drill Participation



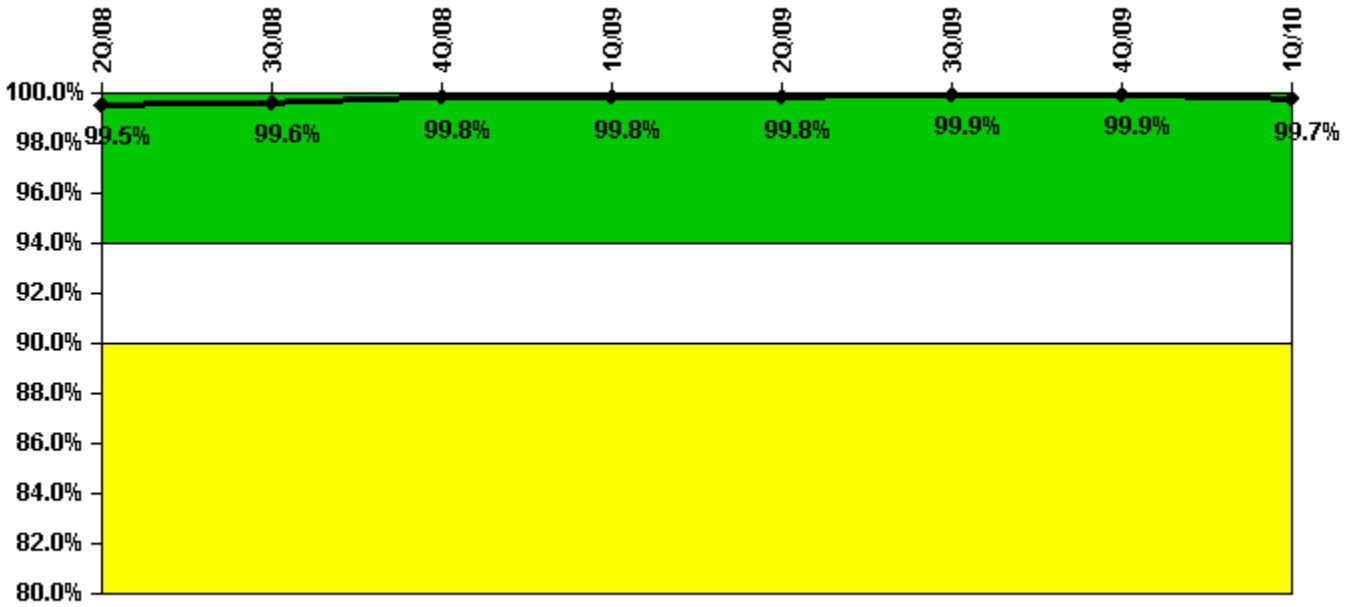
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

| ERO Drill Participation     | 2Q/08 | 3Q/08 | 4Q/08  | 1Q/09 | 2Q/09 | 3Q/09  | 4Q/09  | 1Q/10  |
|-----------------------------|-------|-------|--------|-------|-------|--------|--------|--------|
| Participating Key personnel | 75.0  | 78.0  | 82.0   | 73.0  | 76.0  | 82.0   | 80.0   | 79.0   |
| Total Key personnel         | 82.0  | 83.0  | 82.0   | 74.0  | 77.0  | 82.0   | 80.0   | 79.0   |
|                             |       |       |        |       |       |        |        |        |
| Indicator value             | 91.5% | 94.0% | 100.0% | 98.6% | 98.7% | 100.0% | 100.0% | 100.0% |

Licensee Comments: none

# Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

## Notes

| Alert & Notification System | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests      | 1038  | 1036  | 1079  | 1000  | 1038  | 1078  | 998   | 992   |
| Total sirens-tests          | 1040  | 1040  | 1080  | 1000  | 1040  | 1080  | 1000  | 1000  |
|                             |       |       |       |       |       |       |       |       |
| Indicator value             | 99.5% | 99.6% | 99.8% | 99.8% | 99.8% | 99.9% | 99.9% | 99.7% |

Licensee Comments: none

## Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

### Notes

| Occupational Exposure Control Effectiveness | 2Q/08    | 3Q/08    | 4Q/08    | 1Q/09    | 2Q/09    | 3Q/09    | 4Q/09    | 1Q/10    |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| 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 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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.