

# Dresden 2

## 3Q/2010 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

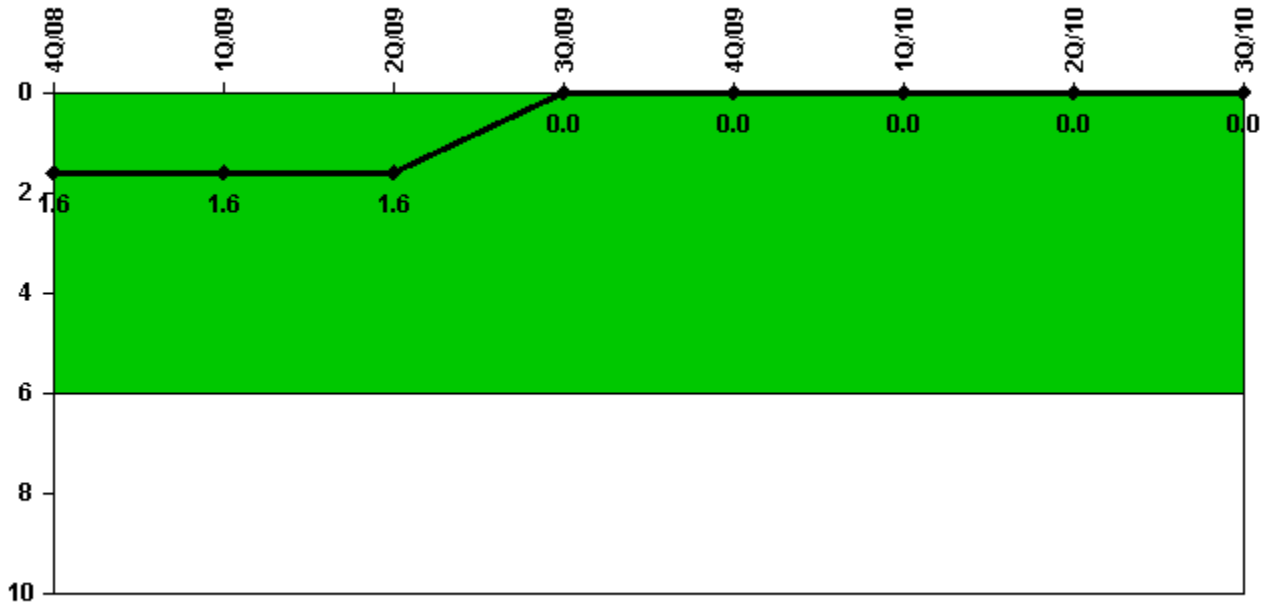
### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/08  | 1Q/09  | 2Q/09  | 3Q/09  | 4Q/09  | 1Q/10  | 2Q/10  | 3Q/10  |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Critical hours                         | 2209.0 | 2159.0 | 2184.0 | 2208.0 | 1508.4 | 2159.0 | 2184.0 | 2208.0 |
| Indicator value                        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |

Licensee Comments: none

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## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/08  | 1Q/09  | 2Q/09  | 3Q/09  | 4Q/09  | 1Q/10  | 2Q/10  | 3Q/10  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Critical hours                                | 2209.0 | 2159.0 | 2184.0 | 2208.0 | 1508.4 | 2159.0 | 2184.0 | 2208.0 |
| Indicator value                               | 1.6    | 1.6    | 1.6    | 0      | 0      | 0      | 0      | 0      |

Licensee Comments: none

## Unplanned Scrams with Complications



Thresholds: White > 1.0

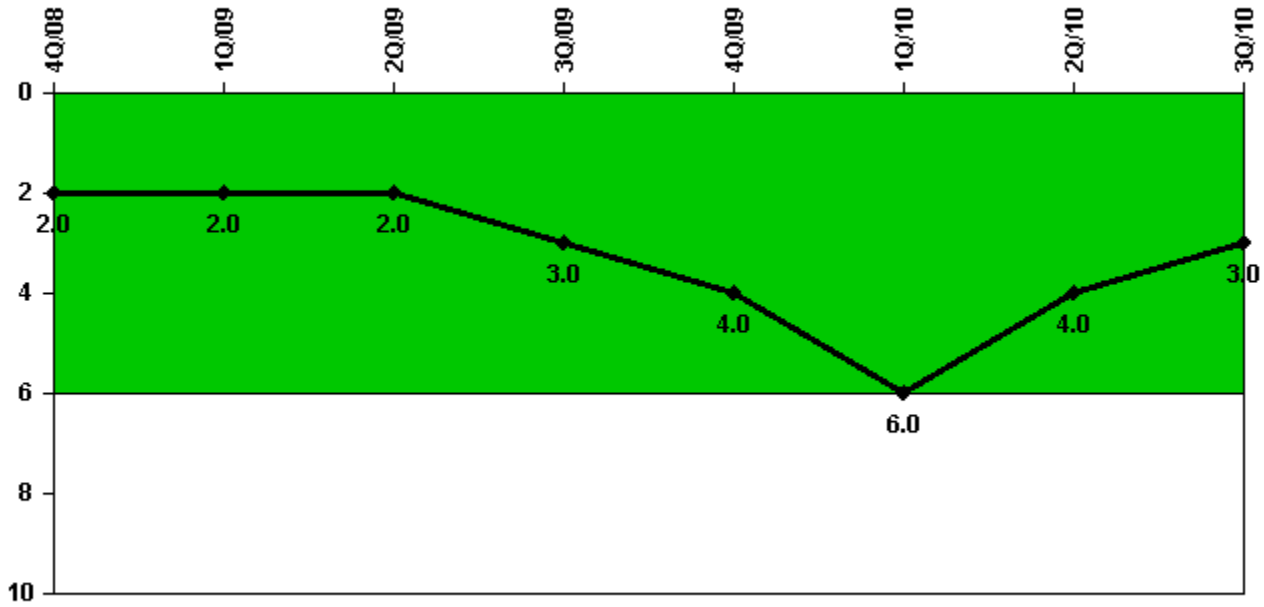
### Notes

| Unplanned Scrams with Complications | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/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 (BWR)



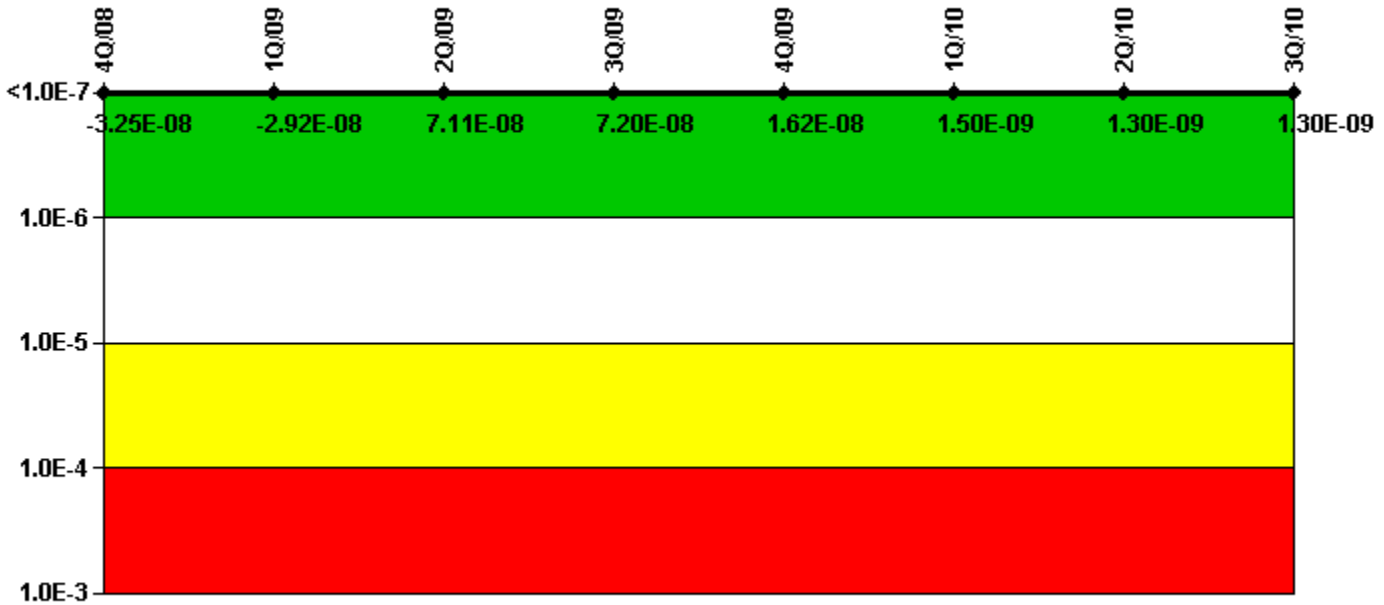
Thresholds: White > 6.0

### Notes

| Safety System Functional Failures (BWR) | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Safety System Functional Failures       | 0     | 0     | 2     | 1     | 1     | 2     | 0     | 0     |
| Indicator value                         | 2     | 2     | 2     | 3     | 4     | 6     | 4     | 3     |

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



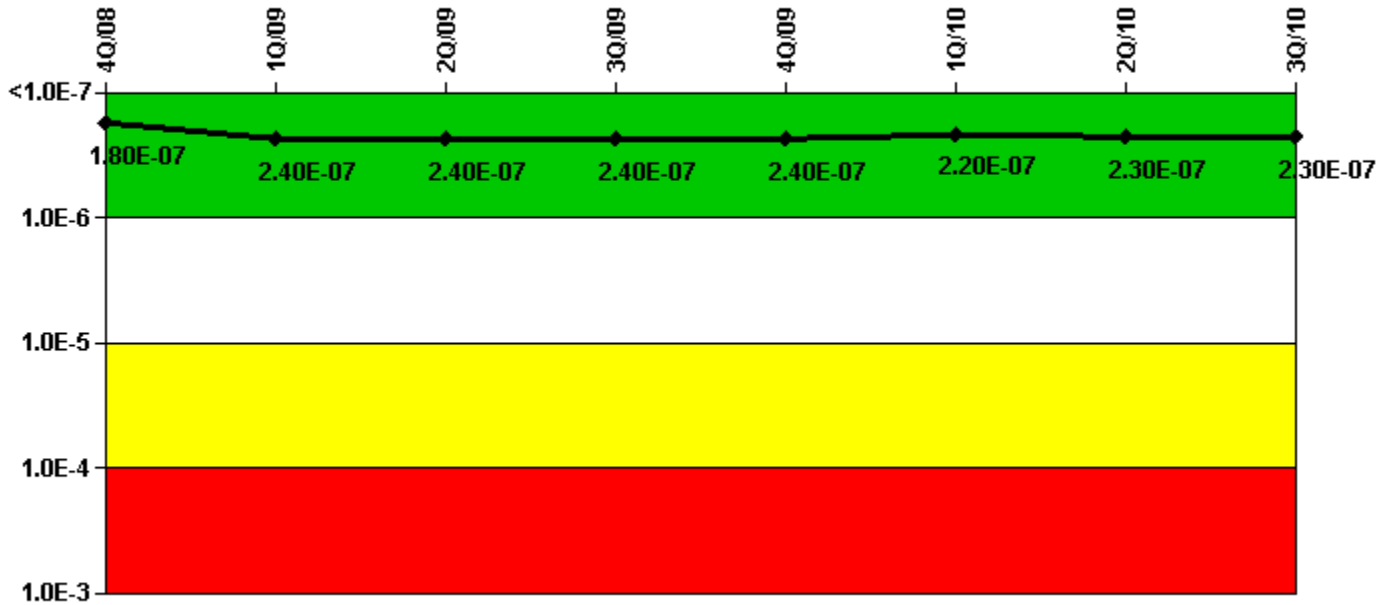
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Emergency AC Power System | 4Q/08     | 1Q/09     | 2Q/09    | 3Q/09    | 4Q/09    | 1Q/10    | 2Q/10    | 3Q/10    |
|---|-----------|-----------|----------|----------|----------|----------|----------|----------|
| UAI ( $\Delta$ CDF)   | 5.20E-10  | 5.80E-09  | 8.10E-09 | 9.00E-09 | 1.40E-08 | 8.87E-10 | 4.83E-10 | 5.52E-10 |
| URI ( $\Delta$ CDF)   | -3.30E-08 | -3.50E-08 | 6.30E-08 | 6.30E-08 | 2.20E-09 | 5.99E-10 | 7.94E-10 | 7.88E-10 |
| PLE   | NO        | NO        | NO       | NO       | NO       | NO       | NO       | NO       |
| Indicator value   | -3.25E-08 | -2.92E-08 | 7.11E-08 | 7.20E-08 | 1.62E-08 | 1.50E-09 | 1.30E-09 | 1.30E-09 |

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



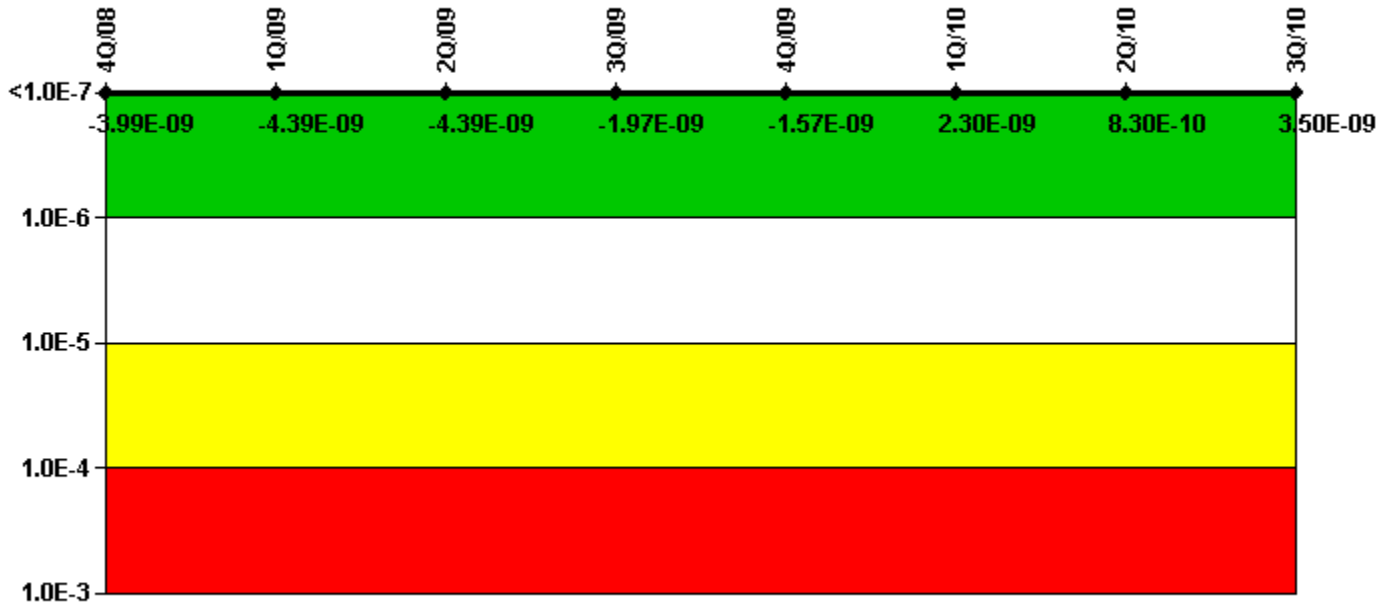
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 4Q/08     | 1Q/09     | 2Q/09     | 3Q/09     | 4Q/09     | 1Q/10     | 2Q/10     | 3Q/10     |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)  | -4.00E-08 | -4.00E-08 | -4.00E-08 | -4.00E-08 | -4.00E-08 | -3.63E-08 | -3.63E-08 | -3.63E-08 |
| URI ( $\Delta$ CDF)  | 2.20E-07  | 2.80E-07  | 2.80E-07  | 2.80E-07  | 2.80E-07  | 2.54E-07  | 2.61E-07  | 2.61E-07  |
| PLE  | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value  | 1.80E-07  | 2.40E-07  | 2.40E-07  | 2.40E-07  | 2.40E-07  | 2.20E-07  | 2.30E-07  | 2.30E-07  |

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



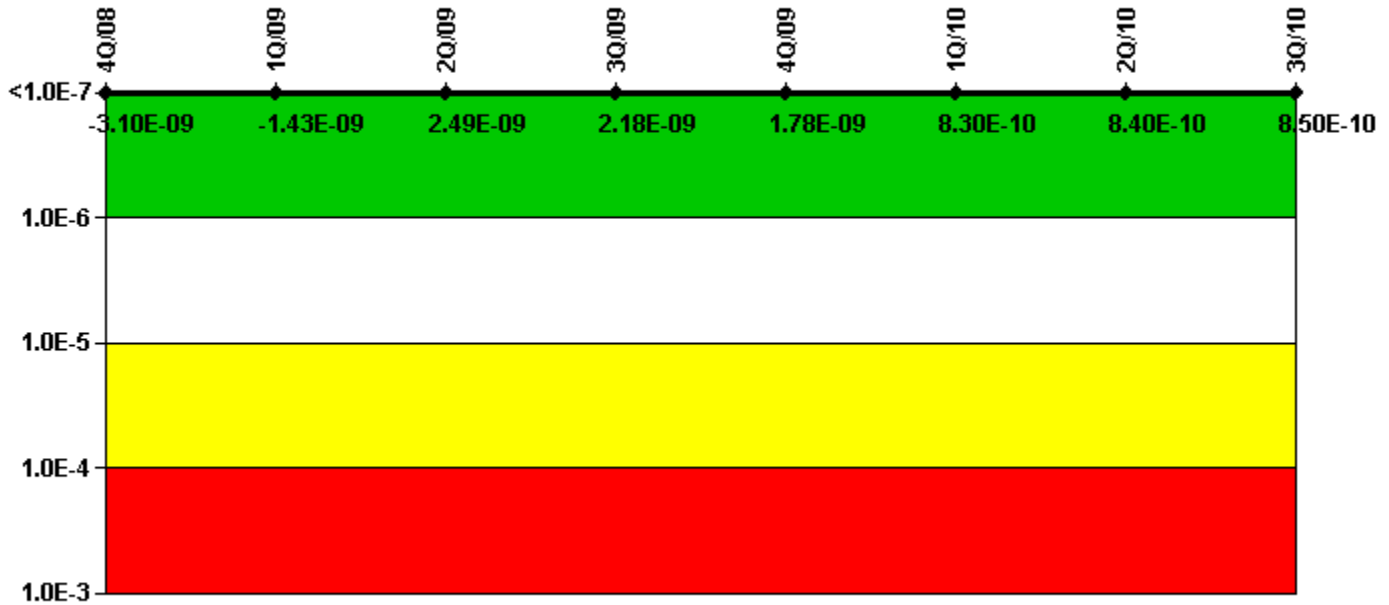
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Heat Removal System | 4Q/08     | 1Q/09     | 2Q/09     | 3Q/09     | 4Q/09     | 1Q/10     | 2Q/10     | 3Q/10     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (ΔCDF)  | -3.90E-09 | -4.30E-09 | -4.30E-09 | -1.90E-09 | -1.50E-09 | 2.40E-09  | 9.29E-10  | 3.64E-09  |
| URI (ΔCDF)  | -8.80E-11 | -8.80E-11 | -8.80E-11 | -7.10E-11 | -7.10E-11 | -1.18E-10 | -9.92E-11 | -9.92E-11 |
| PLE   | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | -3.99E-09 | -4.39E-09 | -4.39E-09 | -1.97E-09 | -1.57E-09 | 2.30E-09  | 8.30E-10  | 3.50E-09  |

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



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

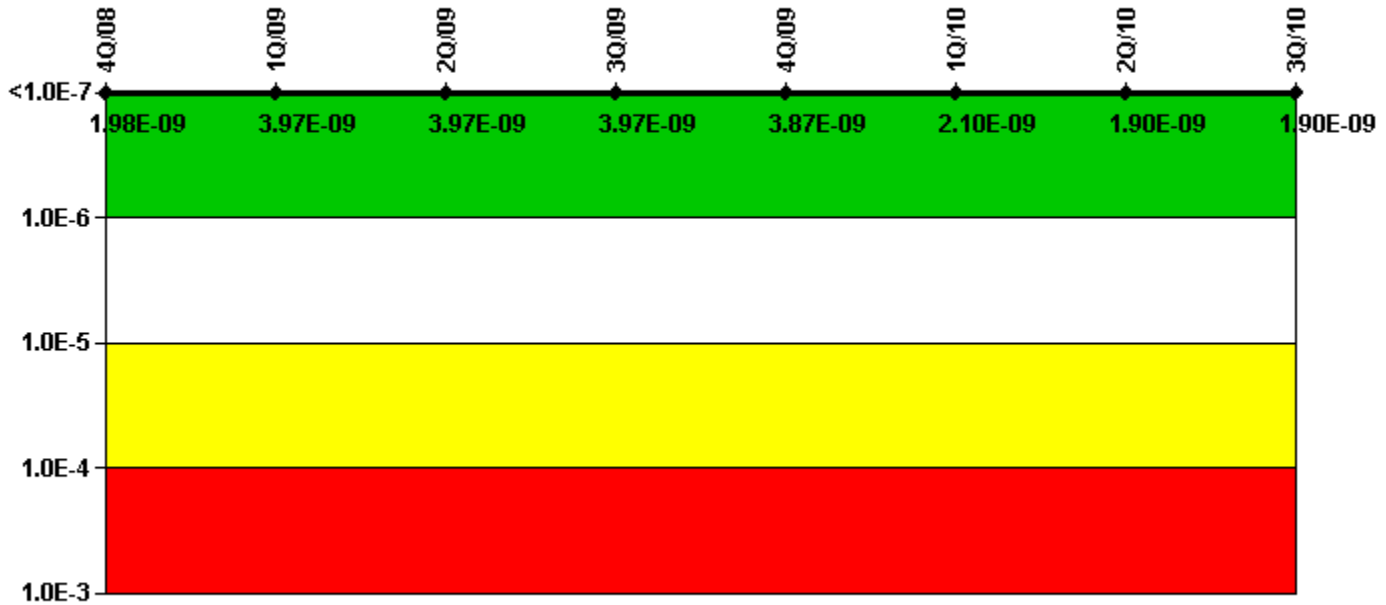
## Notes

| Mitigating Systems Performance Index, Residual Heat Removal System | 4Q/08       | 1Q/09       | 2Q/09      | 3Q/09      | 4Q/09      | 1Q/10       | 2Q/10       | 3Q/10       |
|--|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|
| UAI ( $\Delta$ CDF)  | $-1.20E-09$ | $5.70E-10$  | $8.90E-10$ | $8.80E-10$ | $6.80E-10$ | $-3.39E-10$ | $-3.39E-10$ | $-3.39E-10$ |
| URI ( $\Delta$ CDF)  | $-1.90E-09$ | $-2.00E-09$ | $1.60E-09$ | $1.30E-09$ | $1.10E-09$ | $1.17E-09$  | $1.18E-09$  | $1.19E-09$  |
| PLE  | NO          | NO          | NO         | NO         | NO         | NO          | NO          | NO          |
| Indicator value  | $-3.10E-09$ | $-1.43E-09$ | $2.49E-09$ | $2.18E-09$ | $1.78E-09$ | $8.30E-10$  | $8.40E-10$  | $8.50E-10$  |

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



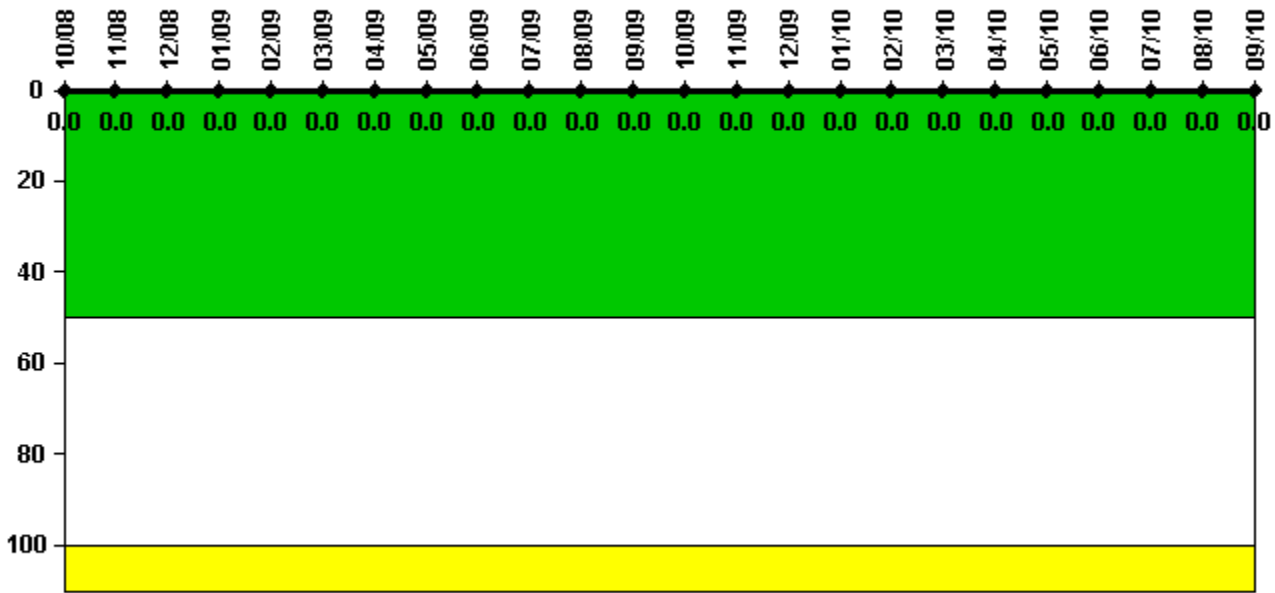
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Cooling Water Systems | 4Q/08     | 1Q/09     | 2Q/09     | 3Q/09     | 4Q/09     | 1Q/10     | 2Q/10     | 3Q/10     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)   | 2.00E-09  | 4.00E-09  | 4.00E-09  | 4.00E-09  | 3.90E-09  | 2.09E-09  | 1.90E-09  | 1.90E-09  |
| URI ( $\Delta$ CDF)   | -2.50E-11 | -2.60E-11 | -2.70E-11 | -2.90E-11 | -3.00E-11 | -1.56E-11 | -1.56E-11 | -1.57E-11 |
| PLE   | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | 1.98E-09  | 3.97E-09  | 3.97E-09  | 3.97E-09  | 3.87E-09  | 2.10E-09  | 1.90E-09  | 1.90E-09  |

Licensee Comments: none

# Reactor Coolant System Activity



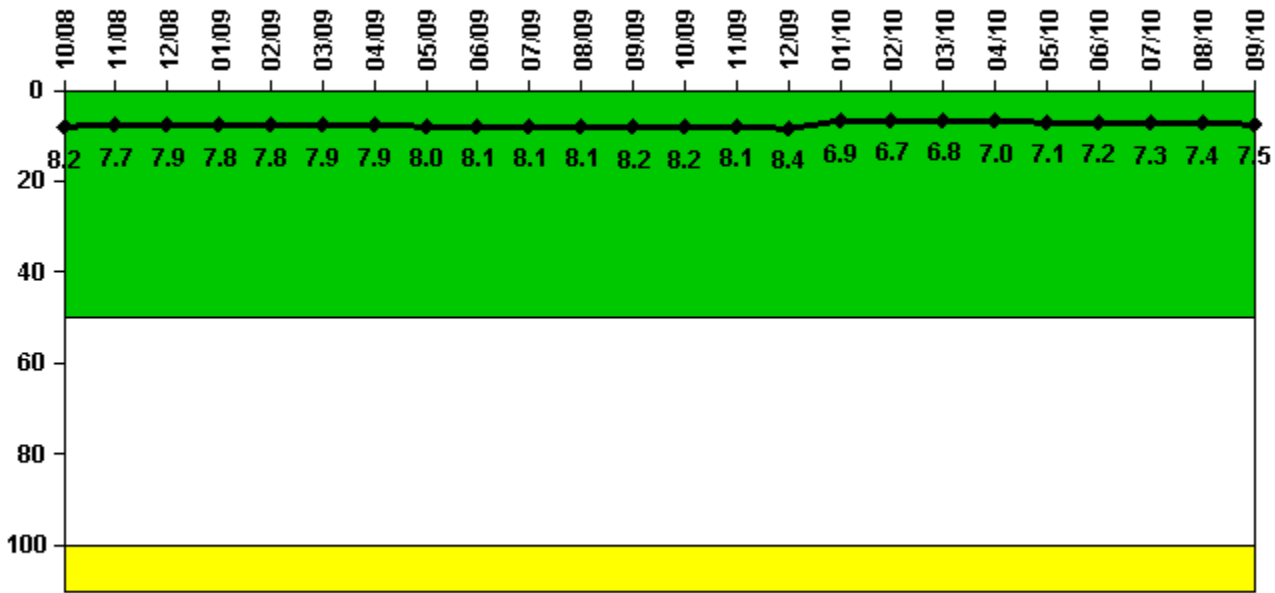
Thresholds: White > 50.0 Yellow > 100.0

## Notes

| Reactor Coolant System Activity | 10/08    | 11/08    | 12/08    | 1/09     | 2/09     | 3/09     | 4/09     | 5/09     | 6/09     | 7/09     | 8/09     | 9/09     |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.000003 | 0.000003 | 0.000003 | 0.000002 | 0.000002 | 0.000003 | 0.000003 | 0.000003 | 0.000003 | 0.000003 | 0.000003 | 0.000003 |
| Technical specification limit   | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      |
| Indicator value                 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| Reactor Coolant System Activity | 10/09    | 11/09    | 12/09    | 1/10     | 2/10     | 3/10     | 4/10     | 5/10     | 6/10     | 7/10     | 8/10     | 9/10     |
| Maximum activity                | 0.000003 | 0.000009 | 0.000003 | 0.000003 | 0.000002 | 0.000003 | 0.000002 | 0.000003 | 0.000003 | 0.000003 | 0.000003 | 0.000003 |
| Technical specification limit   | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      |
| Indicator value                 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

Licensee Comments: none

## Reactor Coolant System Leakage



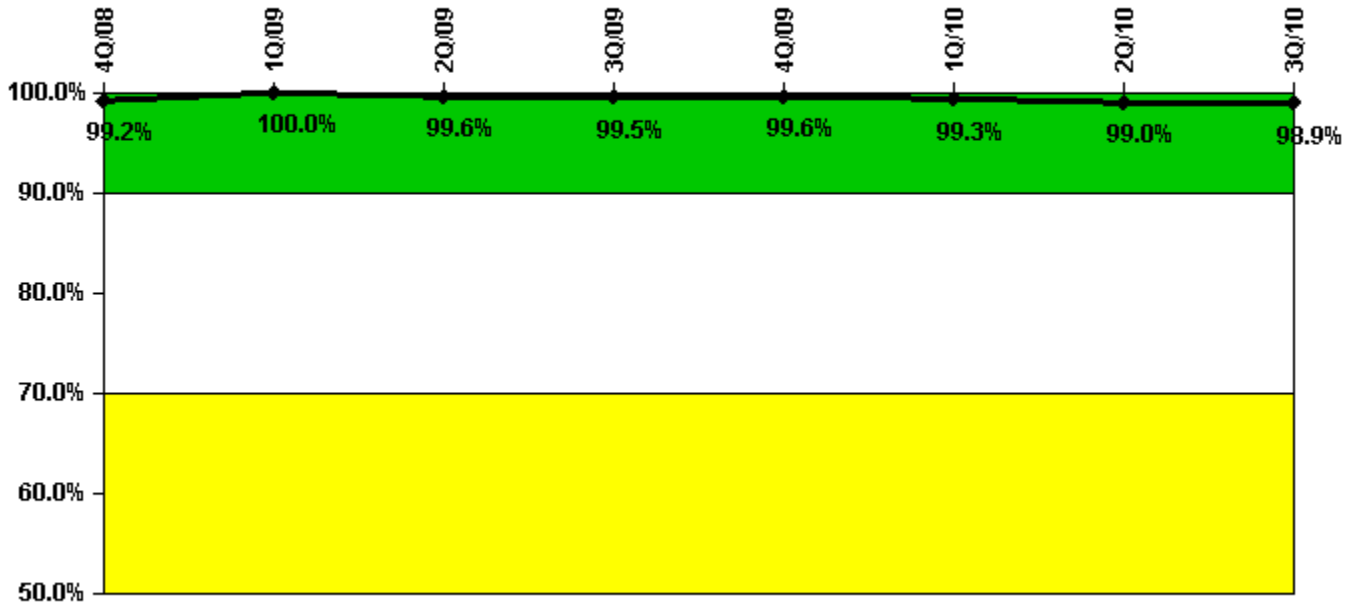
Thresholds: White > 50.0 Yellow > 100.0

### Notes

|                                |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Reactor Coolant System Leakage | 10/08 | 11/08 | 12/08 | 1/09  | 2/09  | 3/09  | 4/09  | 5/09  | 6/09  | 7/09  | 8/09  | 9/09  |
| Maximum leakage                | 2.045 | 1.928 | 1.973 | 1.942 | 1.950 | 1.980 | 1.975 | 1.992 | 2.015 | 2.017 | 2.023 | 2.042 |
| Technical specification limit  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  |
| Indicator value                | 8.2   | 7.7   | 7.9   | 7.8   | 7.8   | 7.9   | 7.9   | 8.0   | 8.1   | 8.1   | 8.1   | 8.2   |
| Reactor Coolant System Leakage | 10/09 | 11/09 | 12/09 | 1/10  | 2/10  | 3/10  | 4/10  | 5/10  | 6/10  | 7/10  | 8/10  | 9/10  |
| Maximum leakage                | 2.040 | 2.018 | 2.100 | 1.718 | 1.685 | 1.707 | 1.745 | 1.778 | 1.800 | 1.825 | 1.852 | 1.878 |
| Technical specification limit  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  |
| Indicator value                | 8.2   | 8.1   | 8.4   | 6.9   | 6.7   | 6.8   | 7.0   | 7.1   | 7.2   | 7.3   | 7.4   | 7.5   |

Licensee Comments: none

## Drill/Exercise Performance



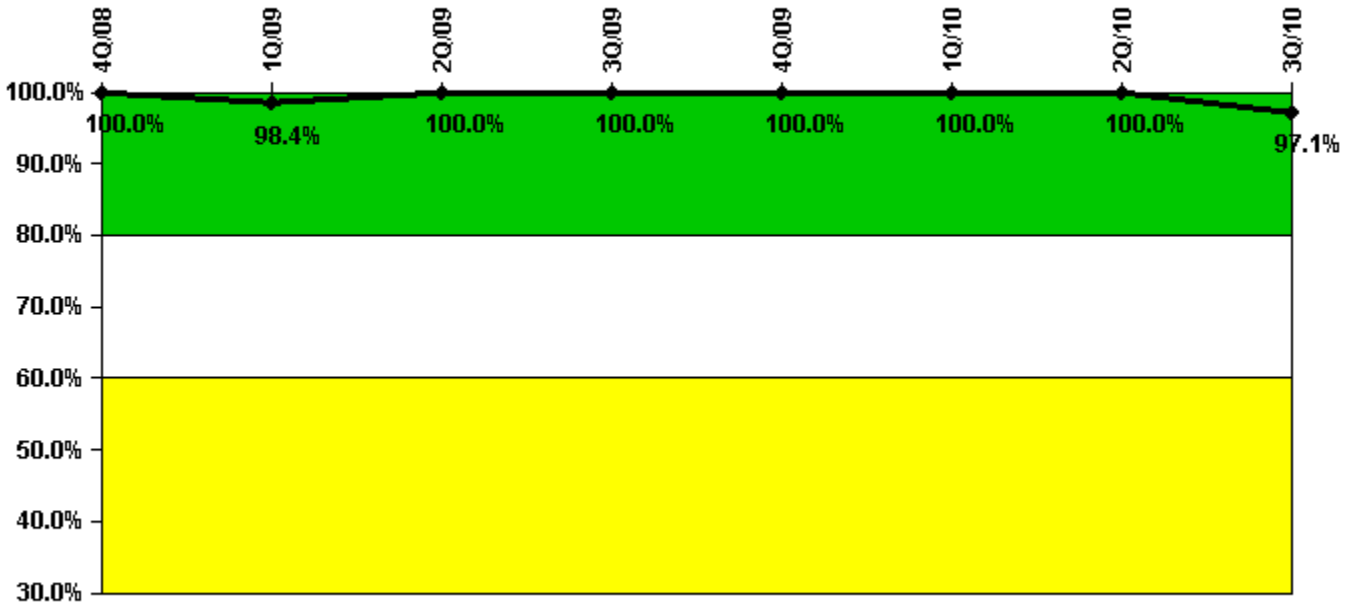
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

| Drill/Exercise Performance | 4Q/08 | 1Q/09  | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|----------------------------|-------|--------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 24.0  | 46.0   | 33.0  | 36.0  | 34.0  | 41.0  | 39.0  | 6.0   |
| Total opportunities        | 24.0  | 46.0   | 34.0  | 36.0  | 34.0  | 42.0  | 40.0  | 6.0   |
|                            |       |        |       |       |       |       |       |       |
| Indicator value            | 99.2% | 100.0% | 99.6% | 99.5% | 99.6% | 99.3% | 99.0% | 98.9% |

Licensee Comments: none

## ERO Drill Participation



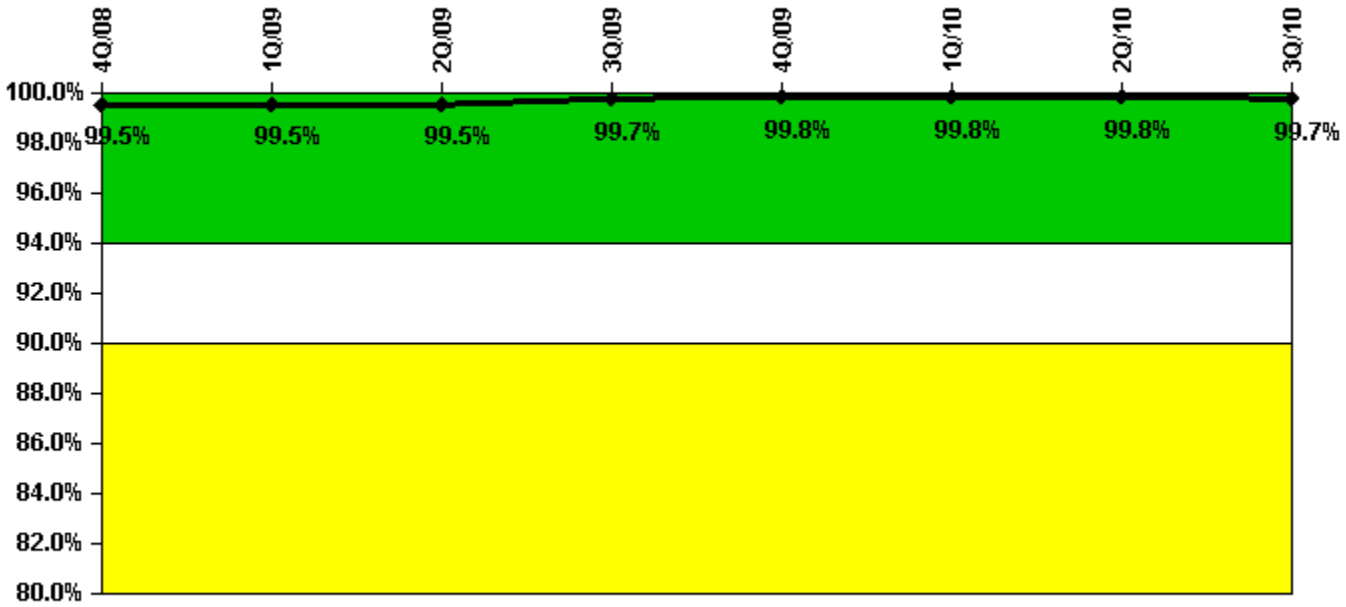
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

| ERO Drill Participation     | 4Q/08  | 1Q/09 | 2Q/09  | 3Q/09  | 4Q/09  | 1Q/10  | 2Q/10  | 3Q/10 |
|-----------------------------|--------|-------|--------|--------|--------|--------|--------|-------|
| Participating Key personnel | 64.0   | 63.0  | 65.0   | 65.0   | 71.0   | 72.0   | 71.0   | 66.0  |
| Total Key personnel         | 64.0   | 64.0  | 65.0   | 65.0   | 71.0   | 72.0   | 71.0   | 68.0  |
| Indicator value             | 100.0% | 98.4% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 97.1% |

Licensee Comments: none

# Alert & Notification System



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

## Notes

| Alert & Notification System | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests      | 4963  | 4900  | 4978  | 5064  | 4983  | 2893  | 2929  | 2979  |
| Total sirens-tests          | 4992  | 4914  | 4992  | 5070  | 4992  | 2898  | 2944  | 2989  |
|                             |       |       |       |       |       |       |       |       |
| Indicator value             | 99.5% | 99.5% | 99.5% | 99.7% | 99.8% | 99.8% | 99.8% | 99.7% |

Licensee Comments: none

# Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

## Notes

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