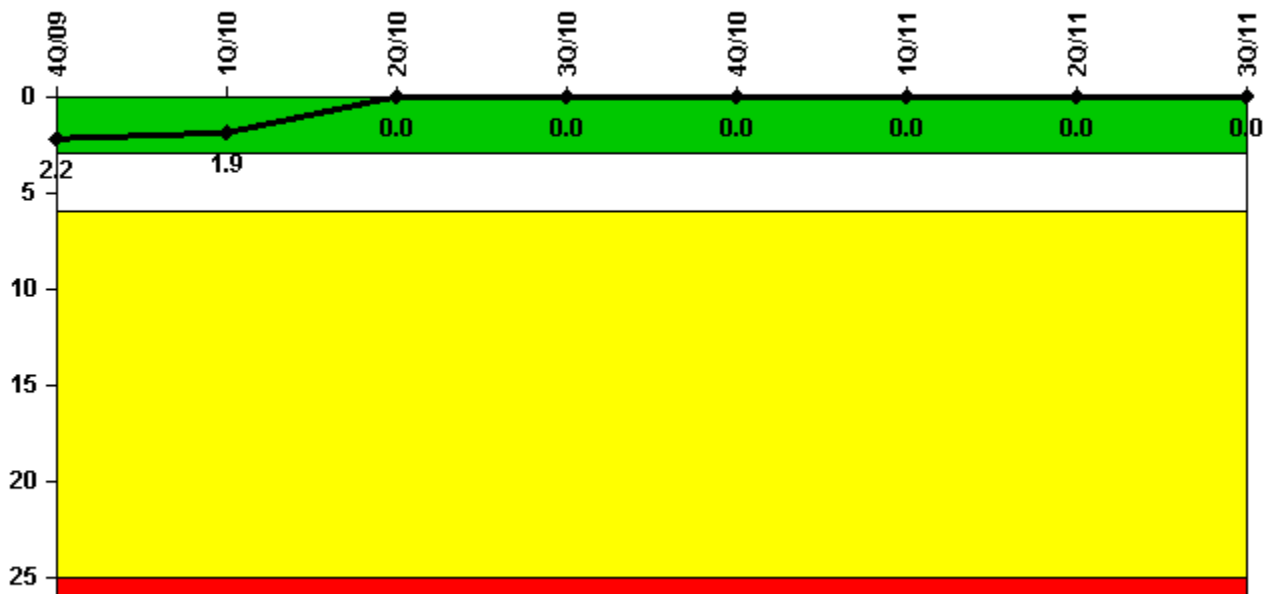


# Hatch 2

## 3Q/2011 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



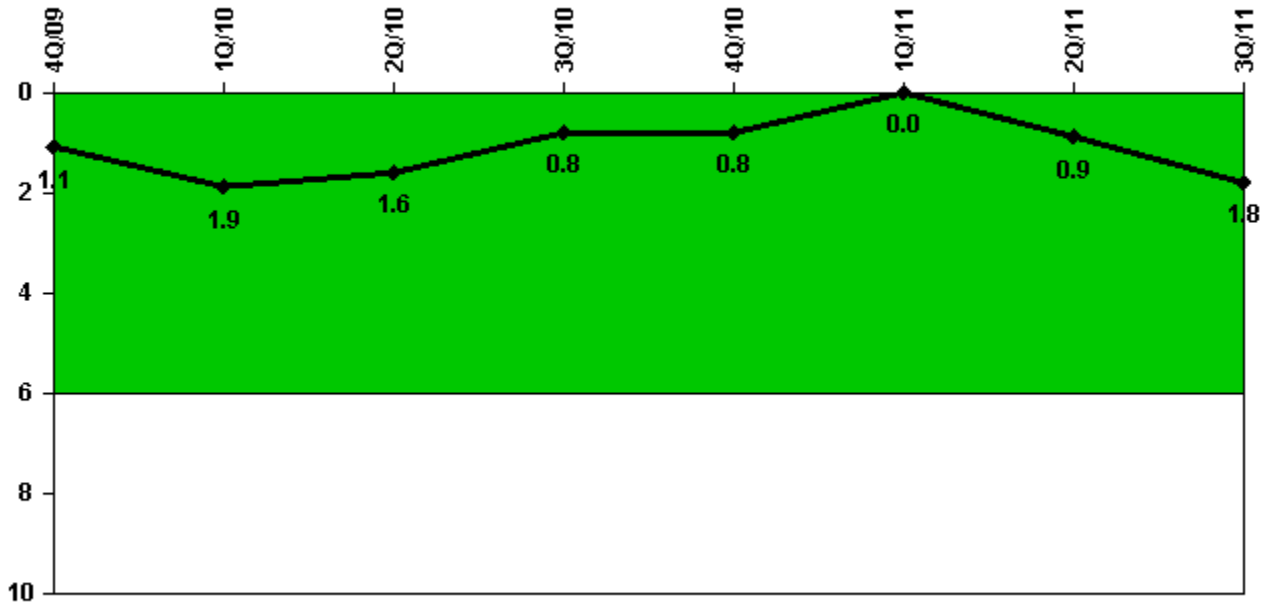
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/09  | 1Q/10  | 2Q/10  | 3Q/10  | 4Q/10  | 1Q/11  | 2Q/11  | 3Q/11  |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Critical hours                         | 2209.0 | 2159.0 | 1925.1 | 2208.0 | 2209.0 | 2065.1 | 1324.7 | 2208.0 |
| Indicator value                        | 2.2    | 1.9    | 0      | 0      | 0      | 0      | 0      | 0      |

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



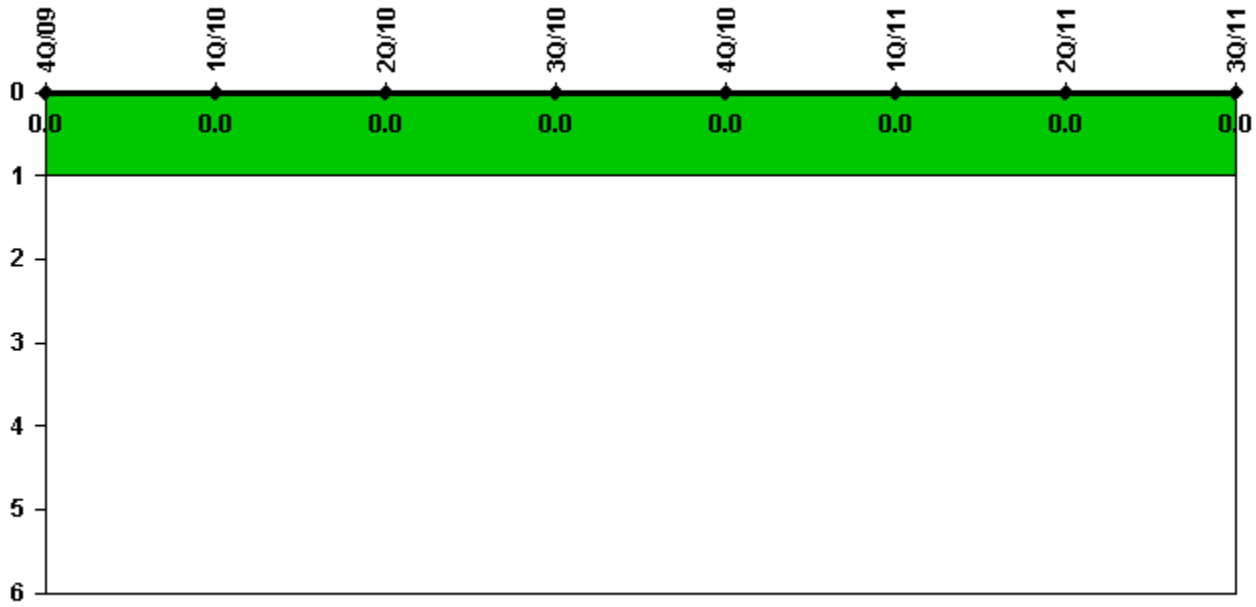
Thresholds: White > 6.0

### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/09  | 1Q/10  | 2Q/10  | 3Q/10  | 4Q/10  | 1Q/11  | 2Q/11  | 3Q/11  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes                       | 0      | 1.0    | 0      | 0      | 0      | 0      | 1.0    | 1.0    |
| Critical hours                                | 2209.0 | 2159.0 | 1925.1 | 2208.0 | 2209.0 | 2065.1 | 1324.7 | 2208.0 |
| Indicator value                               | 1.1    | 1.9    | 1.6    | 0.8    | 0.8    | 0      | 0.9    | 1.8    |

Licensee Comments: none

# Unplanned Scrams with Complications



Thresholds: White > 1.0

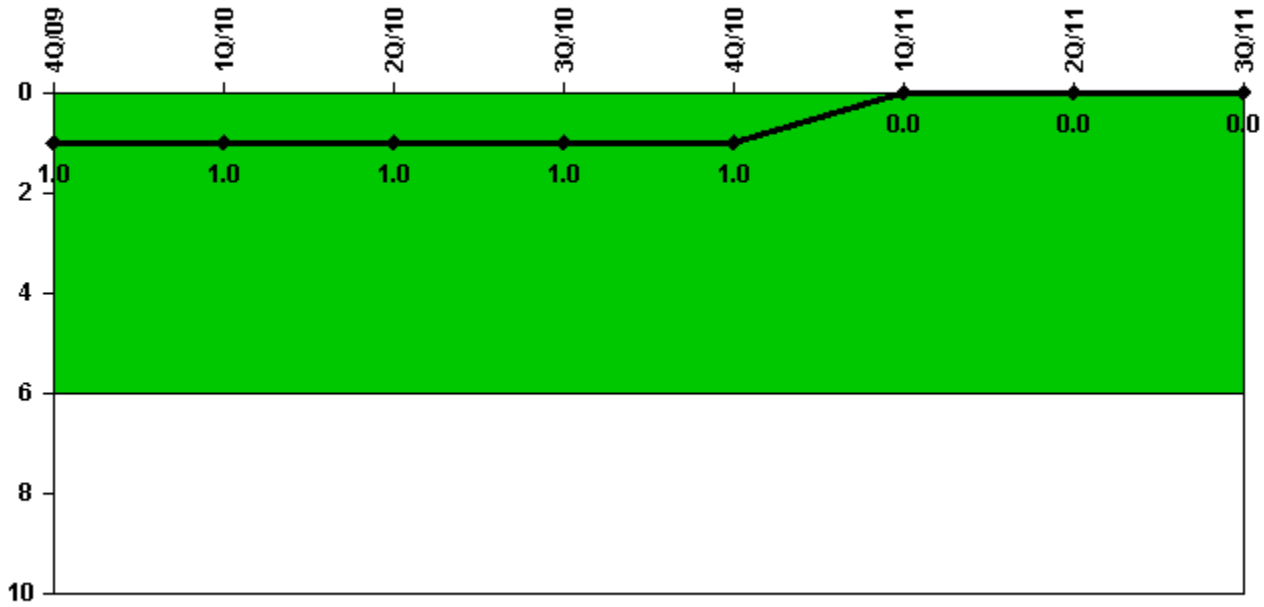
## Notes

| Unplanned Scrams with Complications | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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)



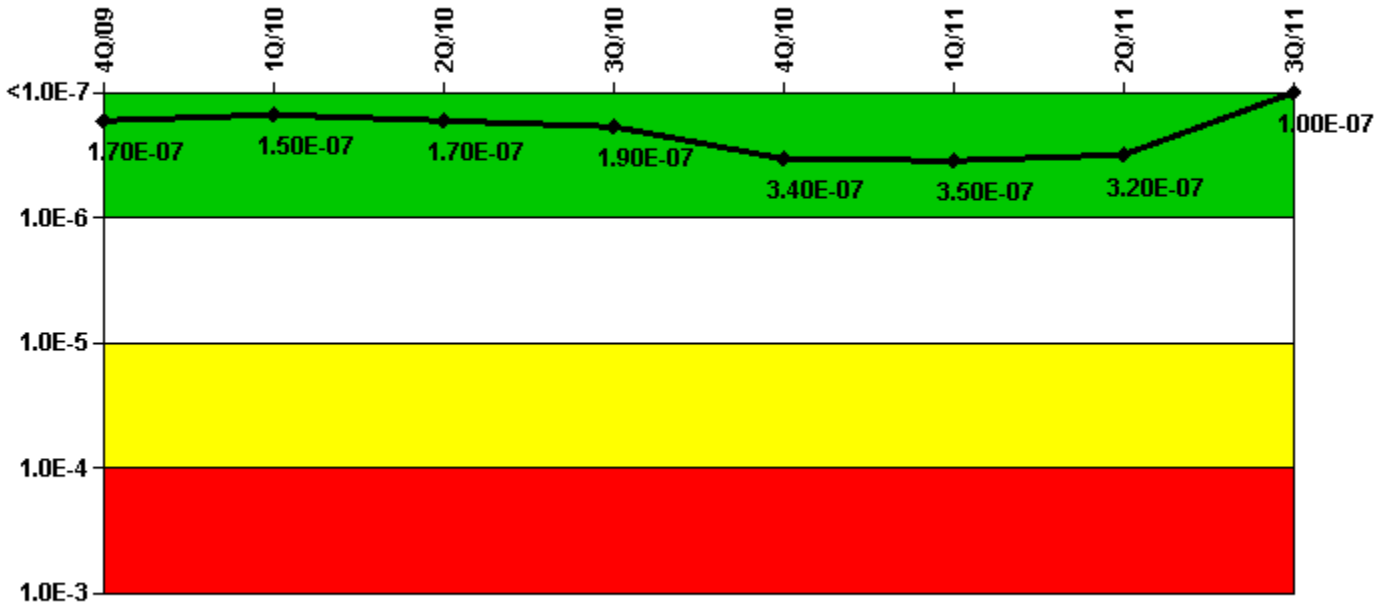
Thresholds: White > 6.0

### Notes

| Safety System Functional Failures (BWR) | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Safety System Functional Failures       | 0     | 1     | 0     | 0     | 0     | 0     | 0     | 0     |
| Indicator value                         | 1     | 1     | 1     | 1     | 1     | 0     | 0     | 0     |

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



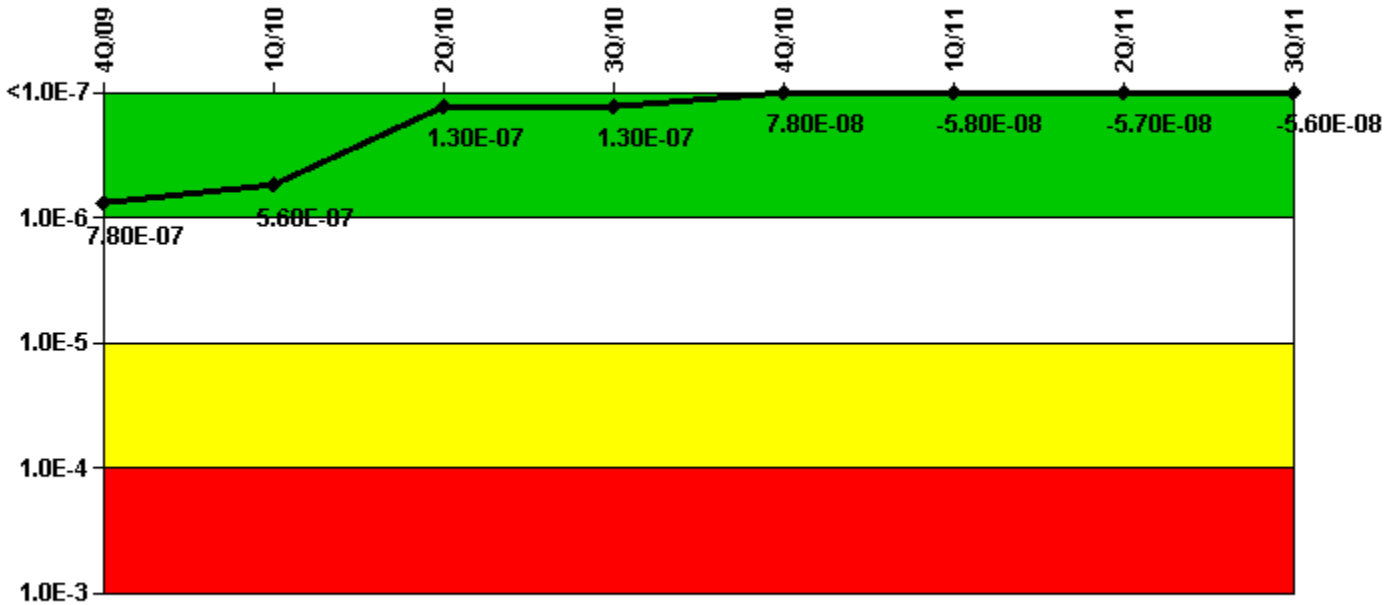
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Emergency AC Power System | 4Q/09    | 1Q/10    | 2Q/10    | 3Q/10    | 4Q/10    | 1Q/11    | 2Q/11    | 3Q/11     |
|---|----------|----------|----------|----------|----------|----------|----------|-----------|
| UAI (ΔCDF)  | 8.56E-08 | 8.26E-08 | 9.03E-08 | 1.32E-07 | 2.07E-07 | 2.22E-07 | 1.75E-07 | 1.61E-07  |
| URI (ΔCDF)  | 8.04E-08 | 7.13E-08 | 7.51E-08 | 5.79E-08 | 1.35E-07 | 1.30E-07 | 1.44E-07 | -5.97E-08 |
| PLE   | NO       | NO       | NO       | NO       | NO       | NO       | NO       | NO        |
| Indicator value   | 1.70E-07 | 1.50E-07 | 1.70E-07 | 1.90E-07 | 3.40E-07 | 3.50E-07 | 3.20E-07 | 1.00E-07  |

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



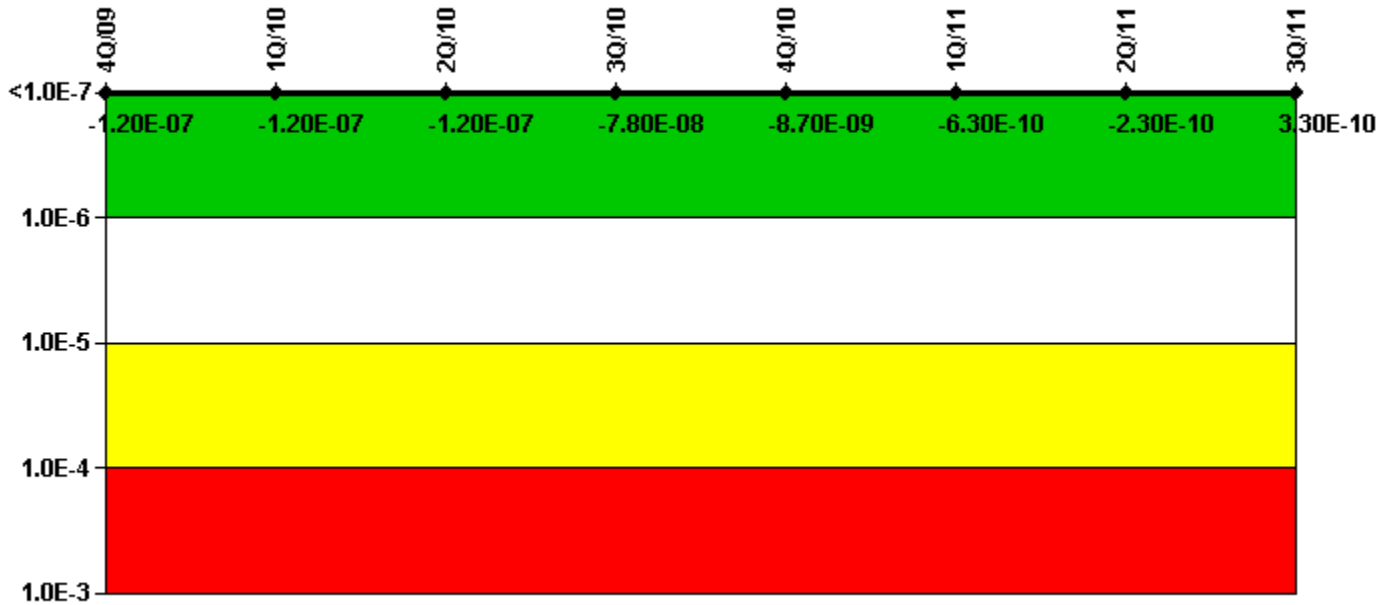
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 4Q/09     | 1Q/10     | 2Q/10     | 3Q/10     | 4Q/10     | 1Q/11     | 2Q/11     | 3Q/11     |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)  | -4.81E-09 | -1.40E-08 | -2.62E-08 | -2.62E-08 | -1.46E-08 | -2.24E-08 | -2.24E-08 | -2.24E-08 |
| URI ( $\Delta$ CDF)  | 7.82E-07  | 5.70E-07  | 1.52E-07  | 1.52E-07  | 9.27E-08  | -3.61E-08 | -3.51E-08 | -3.37E-08 |
| PLE  | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value  | 7.80E-07  | 5.60E-07  | 1.30E-07  | 1.30E-07  | 7.80E-08  | -5.80E-08 | -5.70E-08 | -5.60E-08 |

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



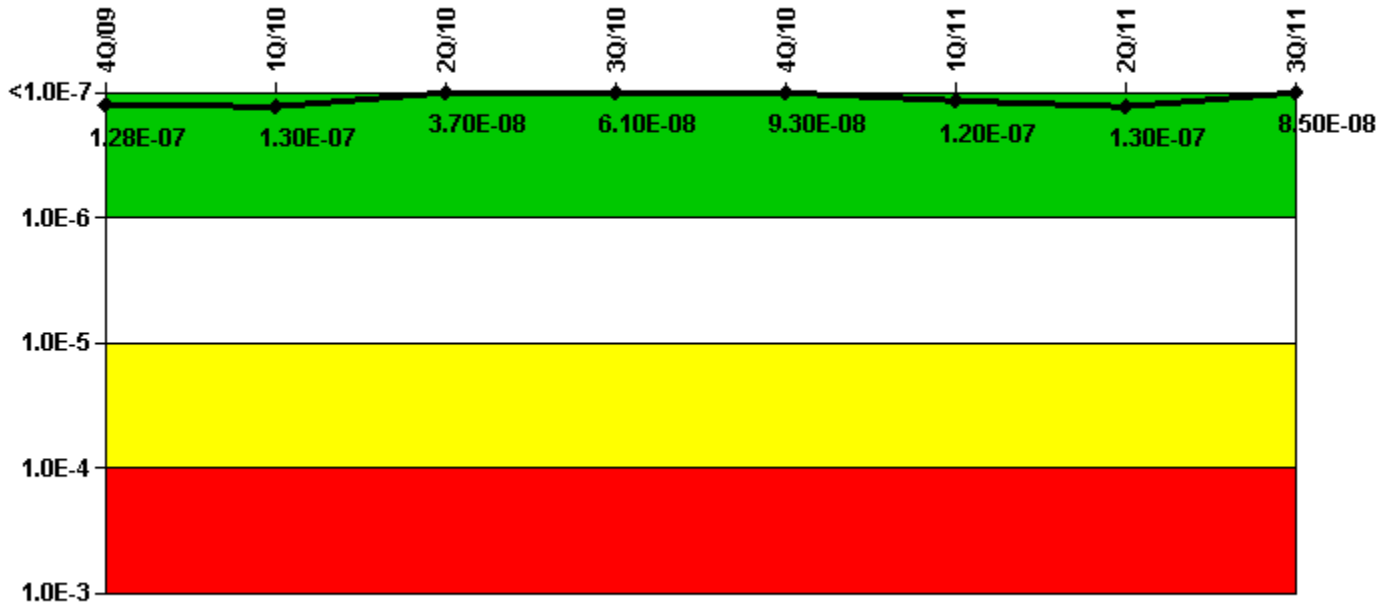
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Heat Removal System | 4Q/09     | 1Q/10     | 2Q/10     | 3Q/10     | 4Q/10     | 1Q/11     | 2Q/11     | 3Q/11     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)                                       | -3.95E-08 | -3.96E-08 | -3.96E-08 | 5.54E-09  | 1.01E-08  | 1.51E-08  | 1.61E-08  | 1.56E-08  |
| URI ( $\Delta$ CDF)                                       | -8.15E-08 | -7.91E-08 | -7.92E-08 | -8.34E-08 | -1.88E-08 | -1.57E-08 | -1.63E-08 | -1.53E-08 |
| PLE   | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | -1.20E-07 | -1.20E-07 | -1.20E-07 | -7.80E-08 | -8.70E-09 | -6.30E-10 | -2.30E-10 | 3.30E-10  |

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



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

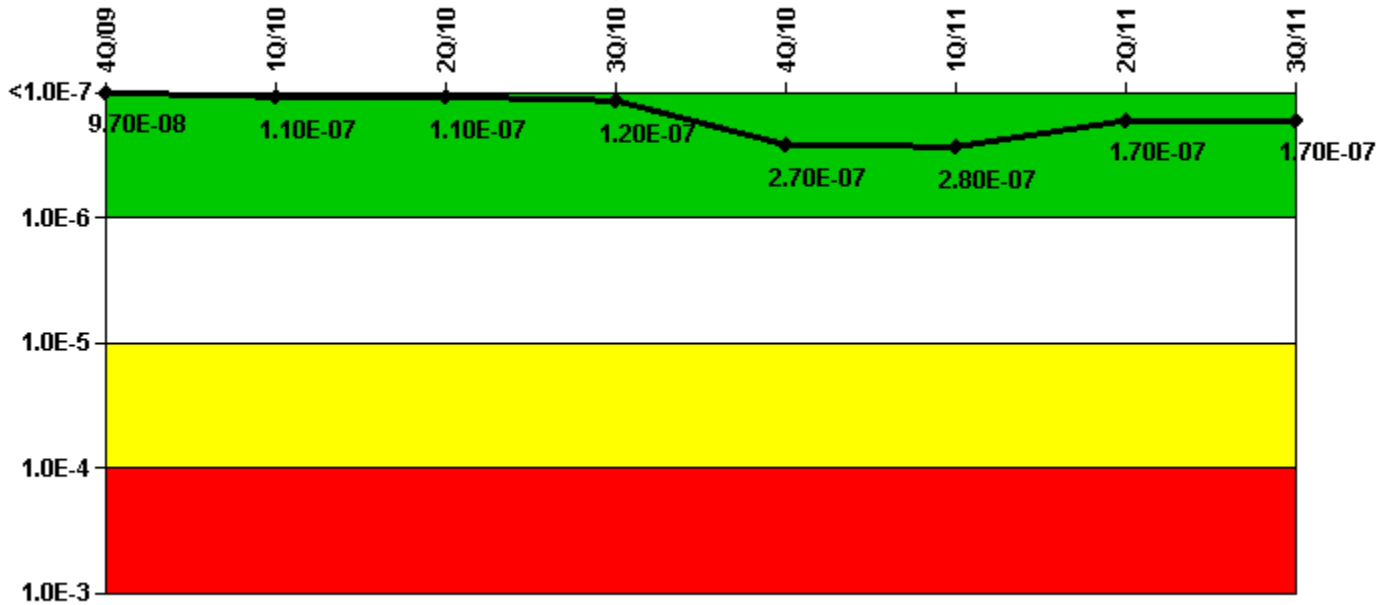
## Notes

| Mitigating Systems Performance Index, Residual Heat Removal System | 4Q/09     | 1Q/10     | 2Q/10    | 3Q/10    | 4Q/10    | 1Q/11    | 2Q/11    | 3Q/11    |
|--|-----------|-----------|----------|----------|----------|----------|----------|----------|
| UAI ( $\Delta$ CDF)  | -2.20E-09 | -3.80E-09 | 8.17E-09 | 3.29E-08 | 5.86E-08 | 6.81E-08 | 7.23E-08 | 2.03E-08 |
| URI ( $\Delta$ CDF)  | 1.30E-07  | 1.34E-07  | 2.89E-08 | 2.82E-08 | 3.47E-08 | 4.73E-08 | 5.41E-08 | 6.51E-08 |
| PLE  | NO        | NO        | NO       | NO       | NO       | NO       | NO       | NO       |
| Indicator value  | 1.28E-07  | 1.30E-07  | 3.70E-08 | 6.10E-08 | 9.30E-08 | 1.20E-07 | 1.30E-07 | 8.50E-08 |

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



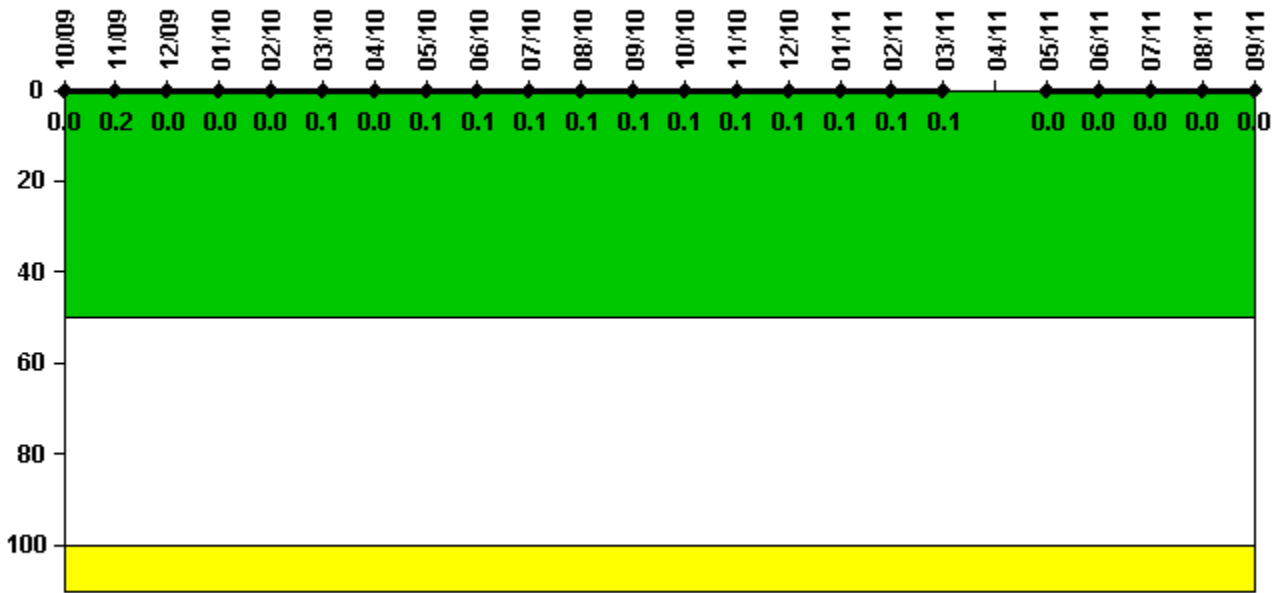
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Cooling Water Systems | 4Q/09    | 1Q/10    | 2Q/10    | 3Q/10    | 4Q/10    | 1Q/11    | 2Q/11    | 3Q/11    |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| UAI ( $\Delta$ CDF)   | 6.27E-08 | 6.72E-08 | 6.57E-08 | 6.63E-08 | 1.40E-07 | 1.41E-07 | 7.78E-08 | 7.80E-08 |
| URI ( $\Delta$ CDF)   | 3.46E-08 | 4.41E-08 | 4.64E-08 | 4.87E-08 | 1.32E-07 | 1.37E-07 | 8.92E-08 | 9.28E-08 |
| PLE   | NO       | NO       | NO       | NO       | NO       | NO       | NO       | NO       |
| Indicator value   | 9.70E-08 | 1.10E-07 | 1.10E-07 | 1.20E-07 | 2.70E-07 | 2.80E-07 | 1.70E-07 | 1.70E-07 |

Licensee Comments: none

# Reactor Coolant System Activity



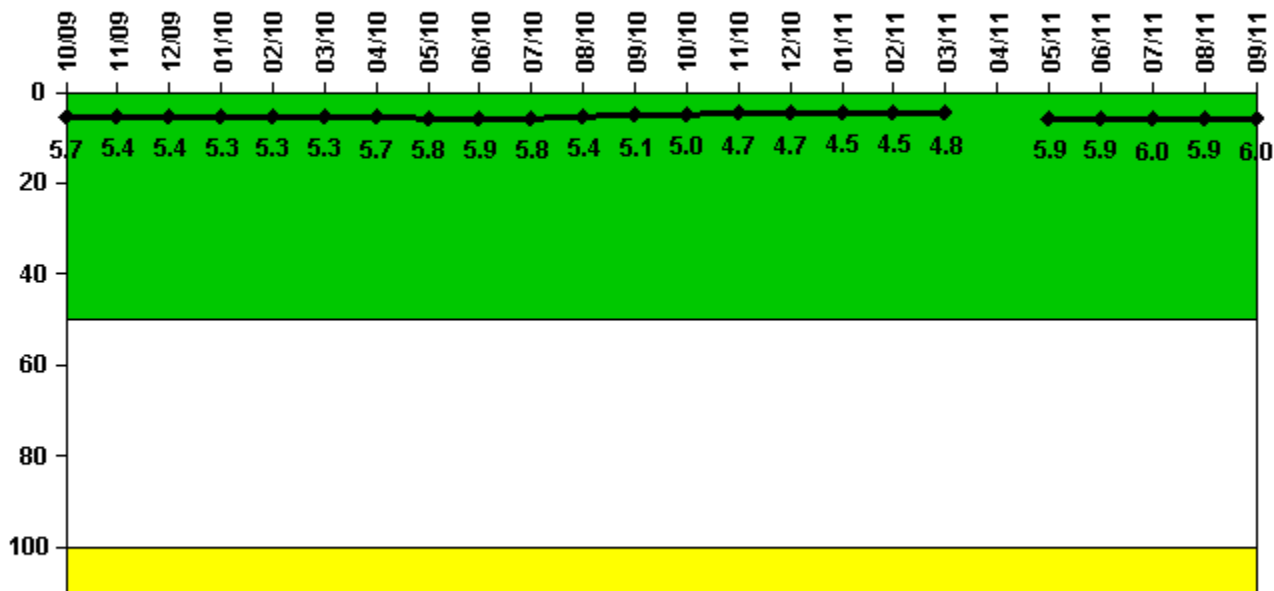
Thresholds: White > 50.0 Yellow > 100.0

## Notes

| 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                | 0.000002 | 0.000356 | 0.000031 | 0.000051 | 0.000085 | 0.000124 | 0.000075 | 0.000125 | 0.000113 | 0.000127 | 0.000143 | 0.000143 |
| 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        | 0.2      | 0        | 0        | 0        | 0.1      | 0        | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      |
| Reactor Coolant System Activity | 10/10    | 11/10    | 12/10    | 1/11     | 2/11     | 3/11     | 4/11     | 5/11     | 6/11     | 7/11     | 8/11     | 9/11     |
| Maximum activity                | 0.000136 | 0.000128 | 0.000126 | 0.000121 | 0.000115 | 0.000111 | N/A      | 0.000045 | 0.000054 | 0.000058 | 0.000060 | 0.000048 |
| 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                 | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | N/A      | 0        | 0        | 0        | 0        | 0        |

Licensee Comments: none

## Reactor Coolant System Leakage



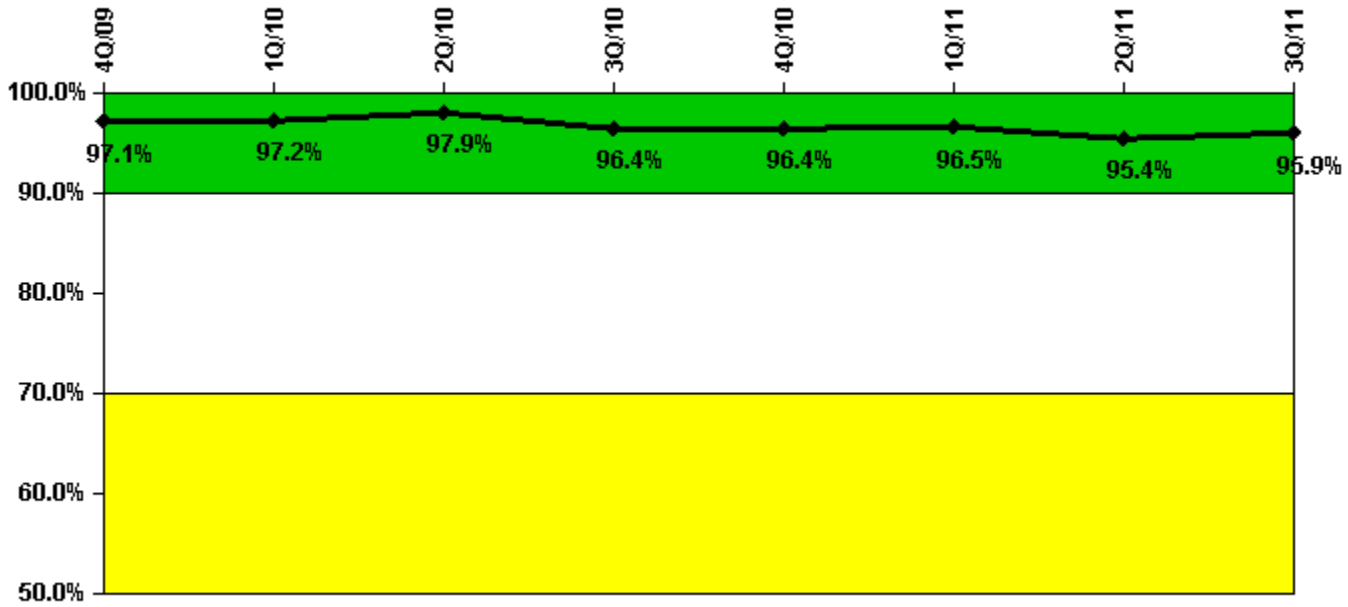
Thresholds: White > 50.0 Yellow > 100.0

### Notes

|                                       |              |              |              |             |             |             |             |             |             |             |             |             |
|---------------------------------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Reactor Coolant System Leakage</b> | <b>10/09</b> | <b>11/09</b> | <b>12/09</b> | <b>1/10</b> | <b>2/10</b> | <b>3/10</b> | <b>4/10</b> | <b>5/10</b> | <b>6/10</b> | <b>7/10</b> | <b>8/10</b> | <b>9/10</b> |
| Maximum leakage                       | 1.700        | 1.630        | 1.610        | 1.600       | 1.580       | 1.600       | 1.720       | 1.750       | 1.770       | 1.740       | 1.610       | 1.520       |
| Technical specification limit         | 30.0         | 30.0         | 30.0         | 30.0        | 30.0        | 30.0        | 30.0        | 30.0        | 30.0        | 30.0        | 30.0        | 30.0        |
| Indicator value                       | 5.7          | 5.4          | 5.4          | 5.3         | 5.3         | 5.3         | 5.7         | 5.8         | 5.9         | 5.8         | 5.4         | 5.1         |
| <b>Reactor Coolant System Leakage</b> | <b>10/10</b> | <b>11/10</b> | <b>12/10</b> | <b>1/11</b> | <b>2/11</b> | <b>3/11</b> | <b>4/11</b> | <b>5/11</b> | <b>6/11</b> | <b>7/11</b> | <b>8/11</b> | <b>9/11</b> |
| Maximum leakage                       | 1.500        | 1.420        | 1.420        | 1.350       | 1.360       | 1.440       | N/A         | 1.770       | 1.770       | 1.790       | 1.770       | 1.790       |
| Technical specification limit         | 30.0         | 30.0         | 30.0         | 30.0        | 30.0        | 30.0        | 30.0        | 30.0        | 30.0        | 30.0        | 30.0        | 30.0        |
| Indicator value                       | 5.0          | 4.7          | 4.7          | 4.5         | 4.5         | 4.8         | N/A         | 5.9         | 5.9         | 6.0         | 5.9         | 6.0         |

Licensee Comments: none

## Drill/Exercise Performance



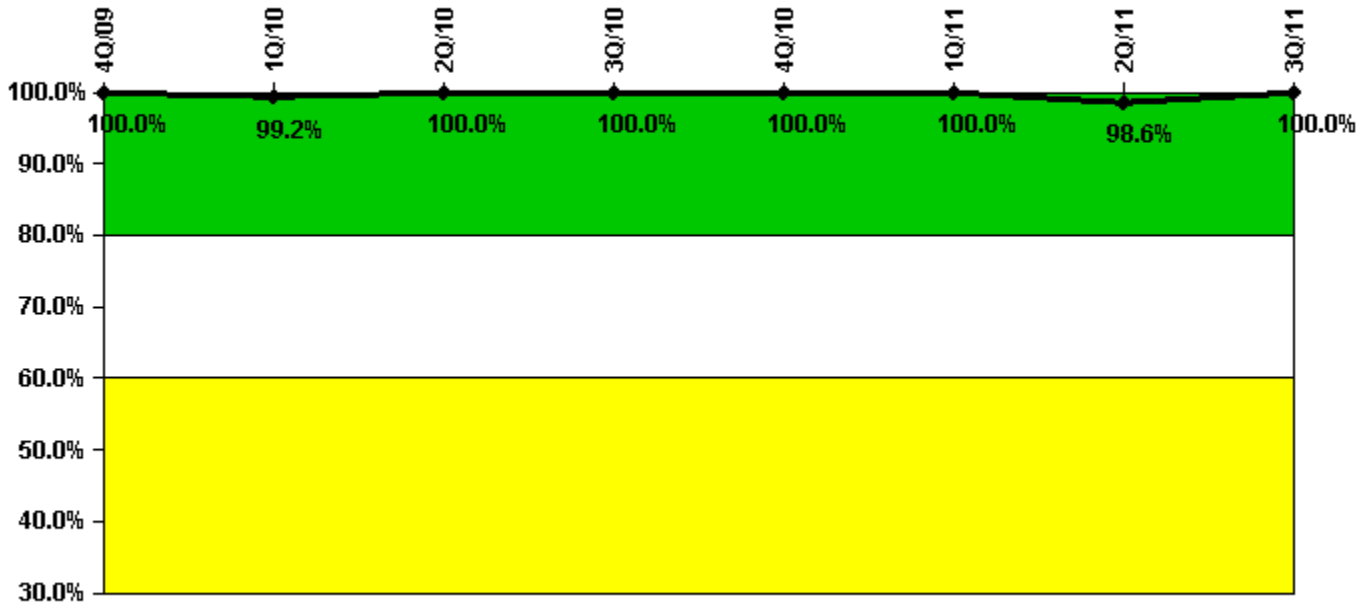
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

| Drill/Exercise Performance | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 12.0  | 12.0  | 27.0  | 38.0  | 8.0   | 8.0   | 30.0  | 28.0  |
| Total opportunities        | 14.0  | 12.0  | 28.0  | 40.0  | 8.0   | 8.0   | 32.0  | 28.0  |
|                            |       |       |       |       |       |       |       |       |
| Indicator value            | 97.1% | 97.2% | 97.9% | 96.4% | 96.4% | 96.5% | 95.4% | 95.9% |

Licensee Comments: none

# ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation     | 4Q/09  | 1Q/10 | 2Q/10  | 3Q/10  | 4Q/10  | 1Q/11  | 2Q/11 | 3Q/11  |
|-----------------------------|--------|-------|--------|--------|--------|--------|-------|--------|
| Participating Key personnel | 134.0  | 129.0 | 135.0  | 136.0  | 138.0  | 136.0  | 141.0 | 145.0  |
| Total Key personnel         | 134.0  | 130.0 | 135.0  | 136.0  | 138.0  | 136.0  | 143.0 | 145.0  |
|                             |        |       |        |        |        |        |       |        |
| Indicator value             | 100.0% | 99.2% | 100.0% | 100.0% | 100.0% | 100.0% | 98.6% | 100.0% |

Licensee Comments: none

## Alert & Notification System

**Not applicable due to  
unique design  
characteristics.  
Performance in this area  
will be assessed through  
focused NRC inspection  
efforts.**

### Notes

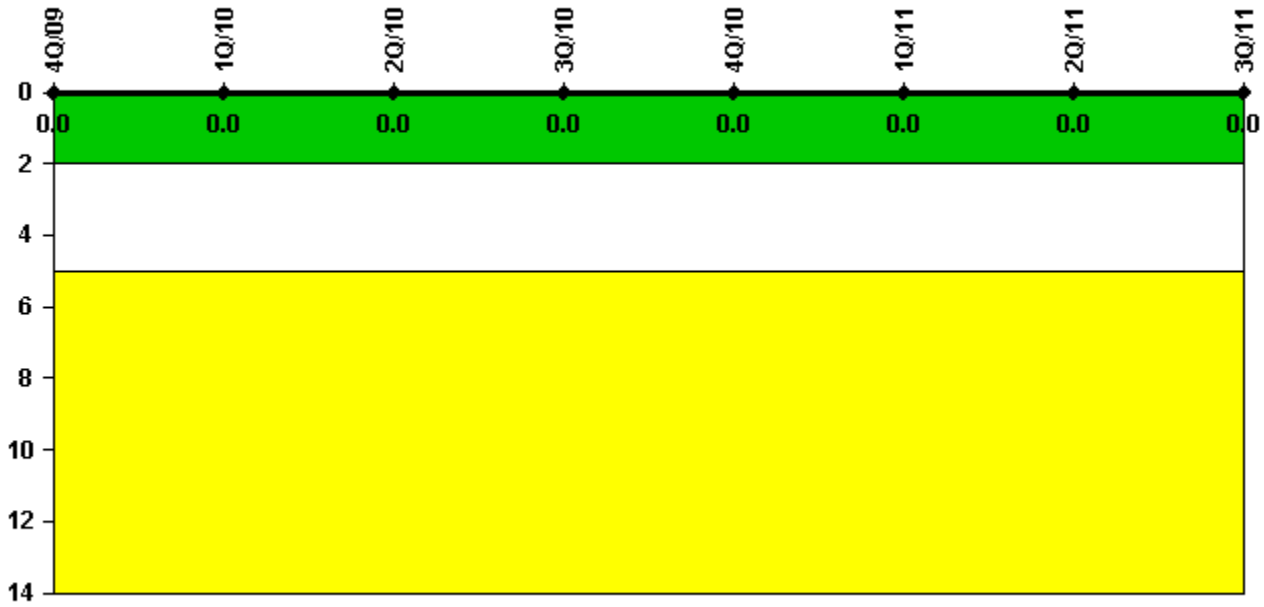
| Alert & Notification System | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful siren-tests      |       |       |       |       |       |       |       |       |
| Total sirens-tests          |       |       |       |       |       |       |       |       |
|                             |       |       |       |       |       |       |       |       |
| Indicator value             |       |       |       |       |       |       |       |       |

Licensee Comments:

3Q/11: Plant Hatch does not use sirens as an emergency notification system.

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# Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

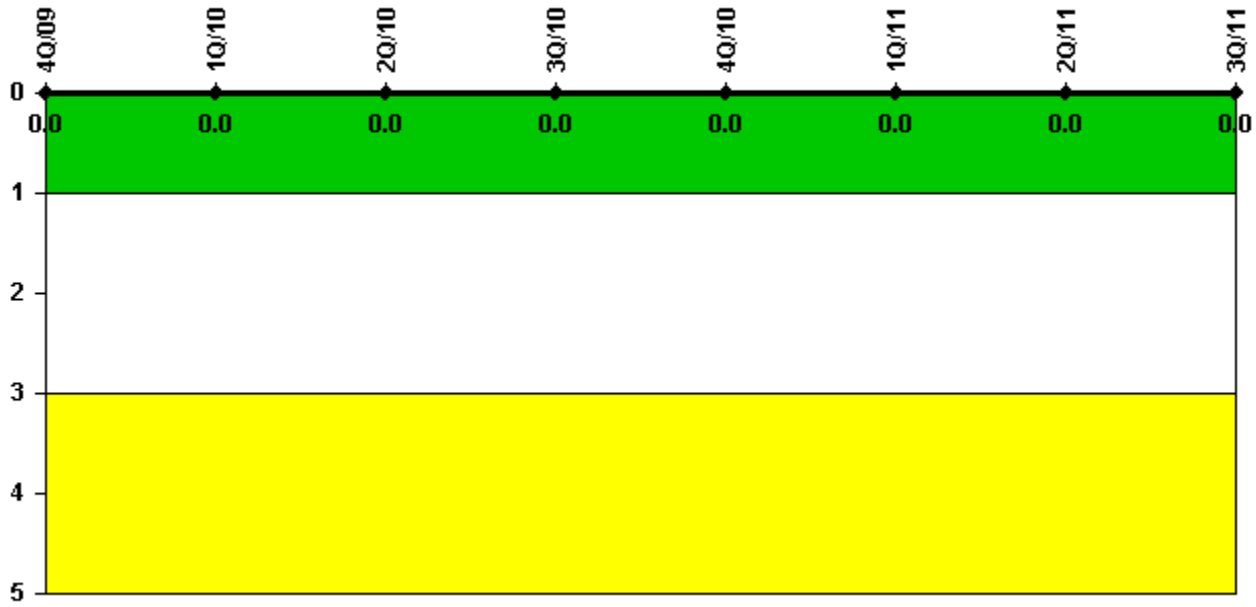
## Notes

| Occupational Exposure Control Effectiveness | 4Q/09    | 1Q/10    | 2Q/10    | 3Q/10    | 4Q/10    | 1Q/11    | 2Q/11    | 3Q/11    |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| 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

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# RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

## Notes

| RETS/ODCM Radiological Effluent | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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.