

# Farley 1

## 2Q/2011 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



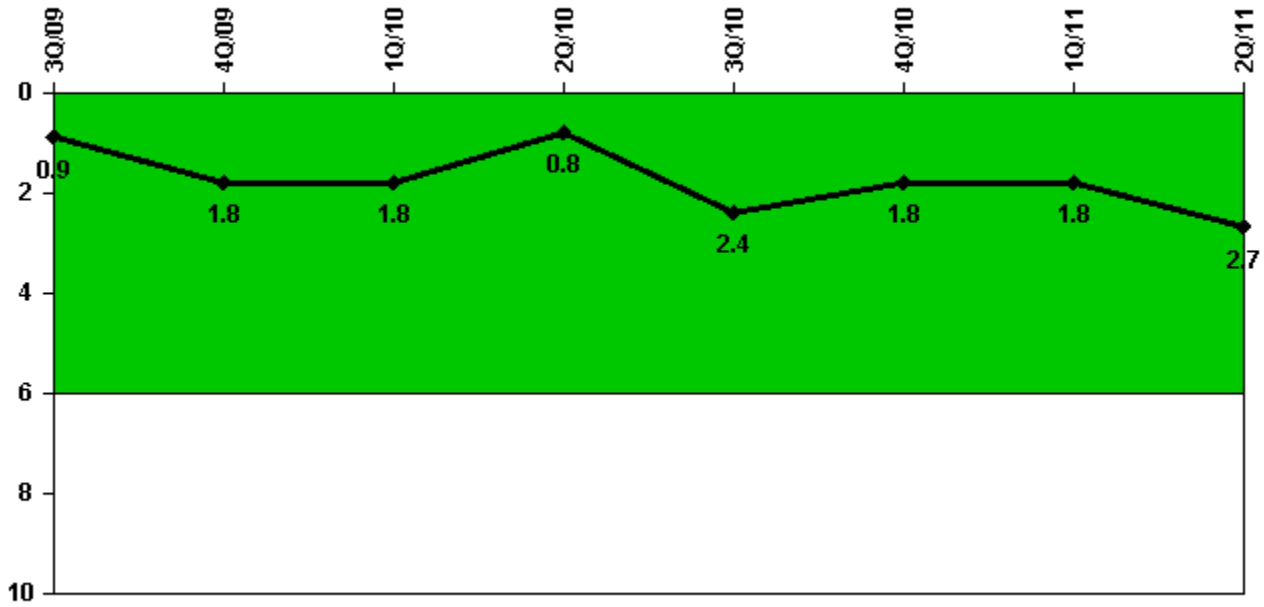
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/09  | 4Q/09  | 1Q/10  | 2Q/10  | 3Q/10  | 4Q/10  | 1Q/11  | 2Q/11  |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned scrams                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Critical hours                         | 2208.0 | 2209.0 | 2159.0 | 2184.0 | 2208.0 | 1284.8 | 2159.0 | 2184.0 |
| Indicator value                        | 0.9    | 0      | 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 | 3Q/09  | 4Q/09  | 1Q/10  | 2Q/10  | 3Q/10  | 4Q/10  | 1Q/11  | 2Q/11  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes                       | 0      | 1.0    | 0      | 0      | 2.0    | 0      | 0      | 1.0    |
| Critical hours                                | 2208.0 | 2209.0 | 2159.0 | 2184.0 | 2208.0 | 1284.8 | 2159.0 | 2184.0 |
| Indicator value                               | 0.9    | 1.8    | 1.8    | 0.8    | 2.4    | 1.8    | 1.8    | 2.7    |

Licensee Comments: none

# Unplanned Scrams with Complications



Thresholds: White > 1.0

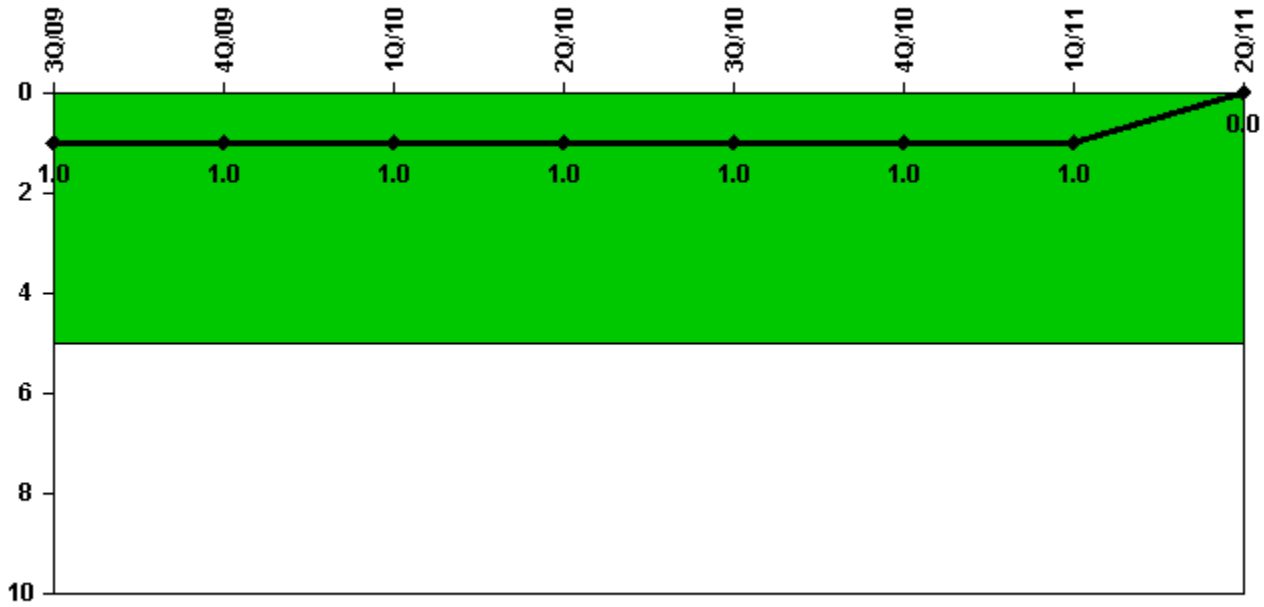
## Notes

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



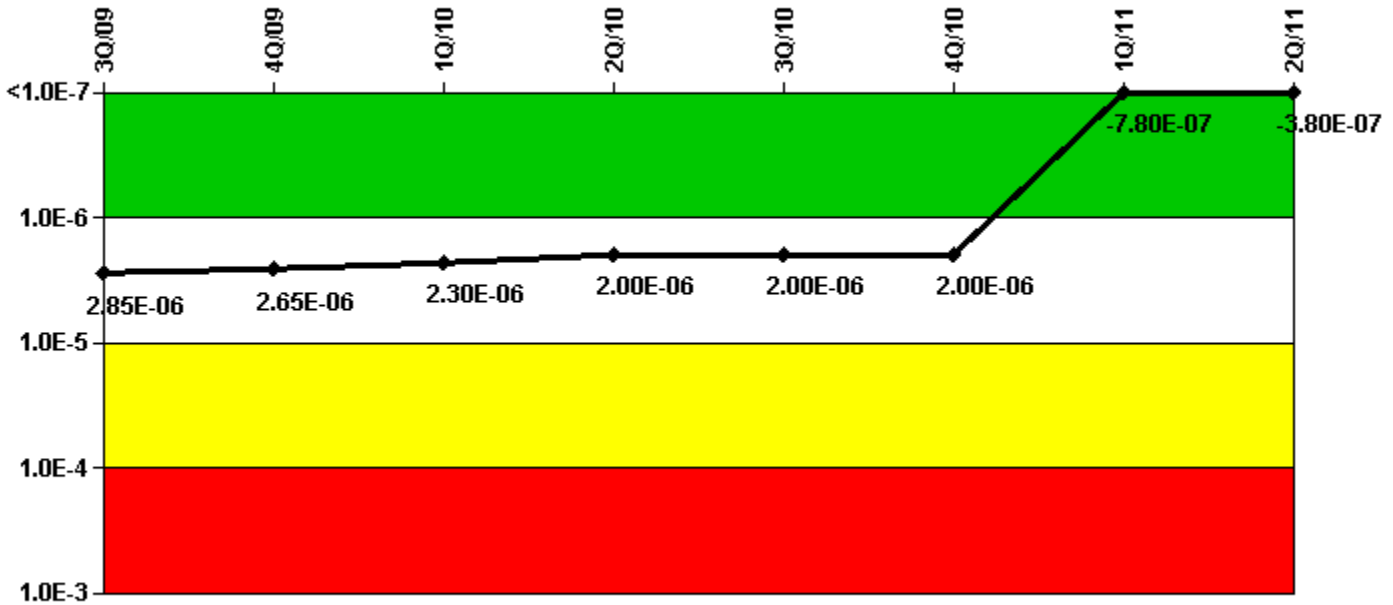
Thresholds: White > 5.0

### Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



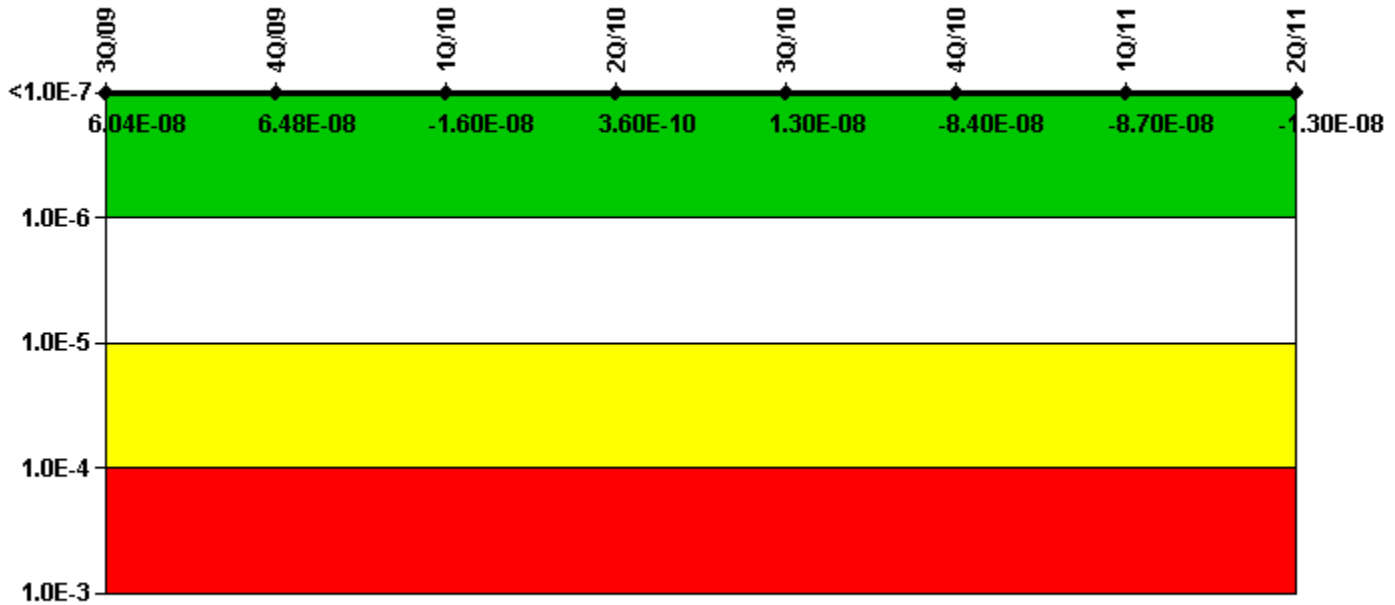
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Emergency AC Power System | 3Q/09    | 4Q/09    | 1Q/10    | 2Q/10    | 3Q/10    | 4Q/10    | 1Q/11     | 2Q/11     |
|---|----------|----------|----------|----------|----------|----------|-----------|-----------|
| UAI ( $\Delta$ CDF)   | 8.50E-07 | 6.50E-07 | 3.55E-07 | 3.69E-07 | 3.32E-07 | 3.27E-07 | 1.60E-07  | 1.16E-07  |
| URI ( $\Delta$ CDF)   | 2.00E-06 | 2.00E-06 | 1.98E-06 | 1.64E-06 | 1.64E-06 | 1.64E-06 | -9.40E-07 | -4.93E-07 |
| PLE   | NO       | NO       | NO       | NO       | NO       | NO       | NO        | NO        |
| Indicator value   | 2.85E-06 | 2.65E-06 | 2.30E-06 | 2.00E-06 | 2.00E-06 | 2.00E-06 | -7.80E-07 | -3.80E-07 |

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



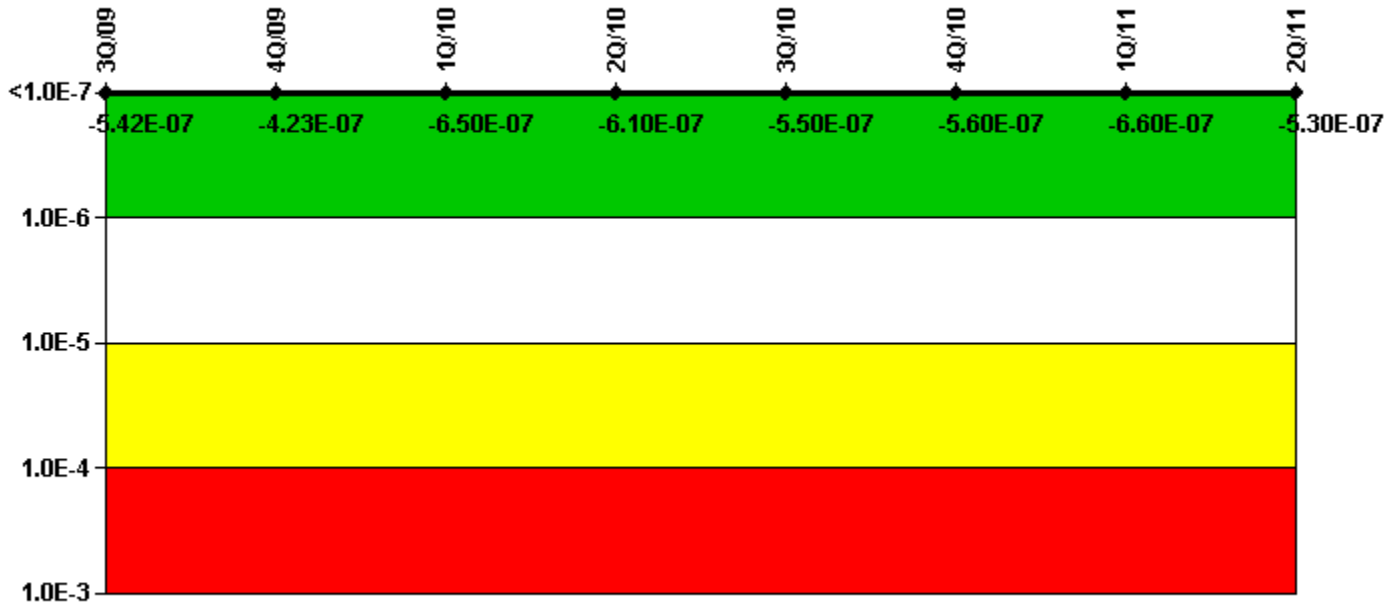
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 3Q/09    | 4Q/09    | 1Q/10     | 2Q/10     | 3Q/10     | 4Q/10     | 1Q/11     | 2Q/11     |
|--|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)  | 1.40E-09 | 5.80E-09 | -7.53E-08 | -5.88E-08 | -4.65E-08 | -3.24E-08 | -3.52E-08 | -8.61E-11 |
| URI ( $\Delta$ CDF)  | 5.90E-08 | 5.90E-08 | 5.91E-08  | 5.92E-08  | 5.93E-08  | -5.17E-08 | -5.17E-08 | -1.26E-08 |
| PLE  | NO       | NO       | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value  | 6.04E-08 | 6.48E-08 | -1.60E-08 | 3.60E-10  | 1.30E-08  | -8.40E-08 | -8.70E-08 | -1.30E-08 |

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



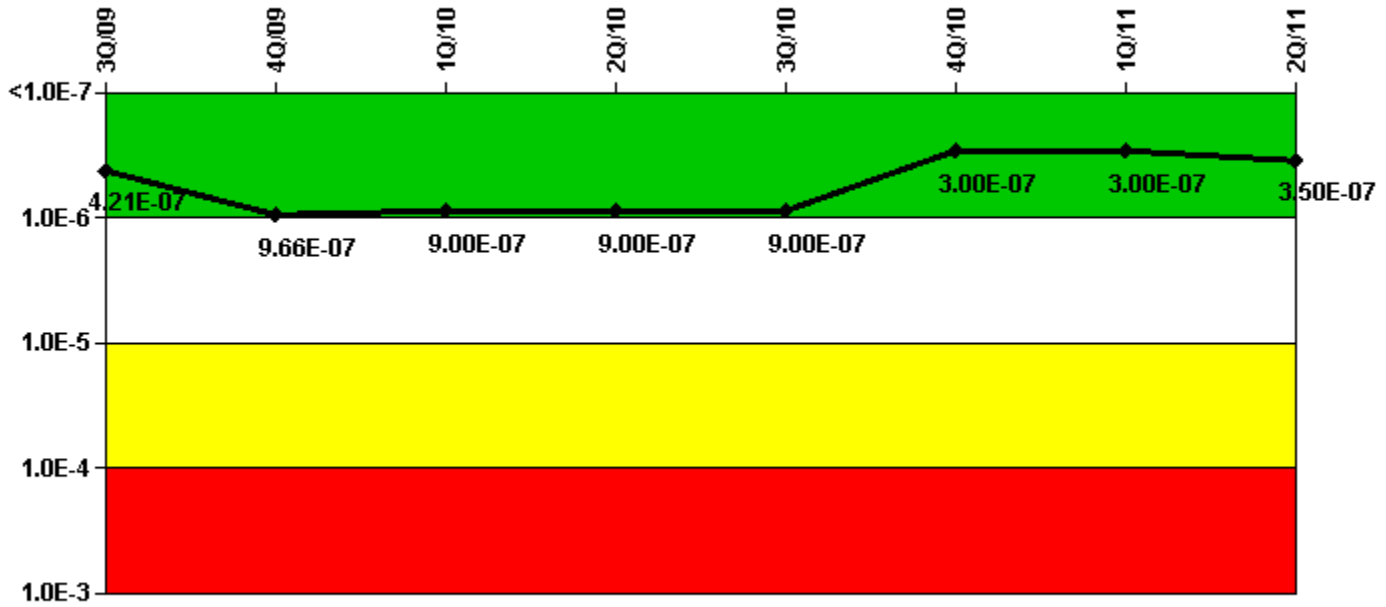
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Heat Removal System | 3Q/09     | 4Q/09     | 1Q/10     | 2Q/10     | 3Q/10     | 4Q/10     | 1Q/11     | 2Q/11     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)                                       | -4.20E-08 | 7.70E-08  | -1.43E-07 | -1.01E-07 | -4.99E-08 | -5.14E-08 | -1.52E-07 | -1.14E-07 |
| URI ( $\Delta$ CDF)                                       | -5.00E-07 | -5.00E-07 | -5.04E-07 | -5.04E-07 | -5.04E-07 | -5.04E-07 | -5.04E-07 | -4.16E-07 |
| PLE   | NO        | NO        | NO        | NO        | NO        | NO        | NO        | NO        |
| Indicator value   | -5.42E-07 | -4.23E-07 | -6.50E-07 | -6.10E-07 | -5.50E-07 | -5.60E-07 | -6.60E-07 | -5.30E-07 |

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

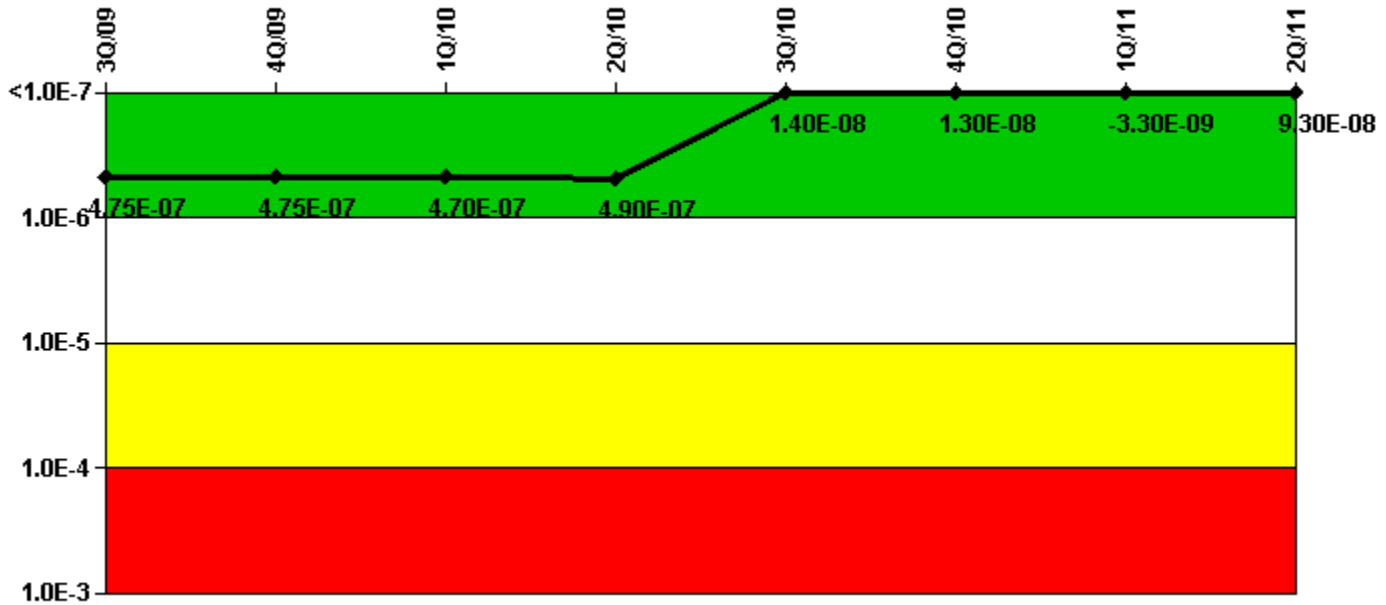
| Mitigating Systems Performance Index, Residual Heat Removal System | 3Q/09    | 4Q/09    | 1Q/10     | 2Q/10     | 3Q/10     | 4Q/10     | 1Q/11     | 2Q/11    |
|--|----------|----------|-----------|-----------|-----------|-----------|-----------|----------|
| UAI ( $\Delta$ CDF)  | 1.10E-08 | 5.60E-08 | -1.18E-08 | -1.18E-08 | -1.19E-08 | -1.22E-08 | -1.22E-08 | 1.86E-09 |
| URI ( $\Delta$ CDF)  | 4.10E-07 | 9.10E-07 | 9.14E-07  | 9.14E-07  | 9.14E-07  | 3.11E-07  | 3.11E-07  | 3.45E-07 |
| PLE  | NO       | NO       | NO        | NO        | NO        | NO        | NO        | NO       |
| Indicator value  | 4.21E-07 | 9.66E-07 | 9.00E-07  | 9.00E-07  | 9.00E-07  | 3.00E-07  | 3.00E-07  | 3.50E-07 |

Licensee Comments:

2Q/11: Risk Cap Invoked.



# Mitigating Systems Performance Index, Cooling Water Systems



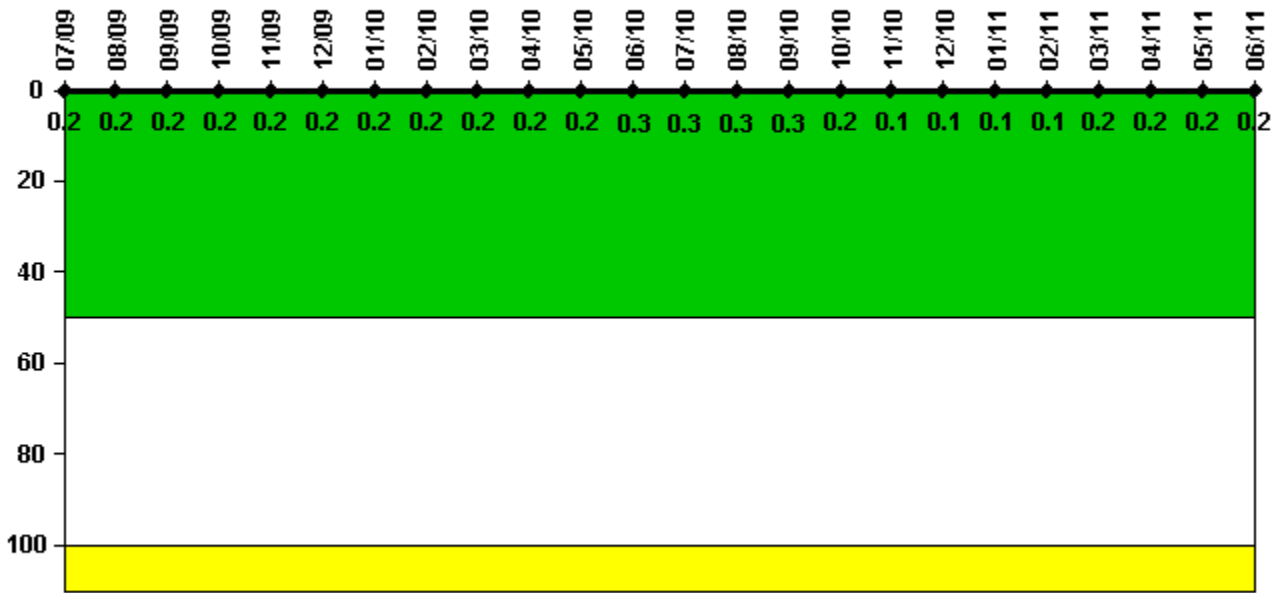
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

| Mitigating Systems Performance Index, Cooling Water Systems | 3Q/09    | 4Q/09    | 1Q/10    | 2Q/10    | 3Q/10     | 4Q/10     | 1Q/11     | 2Q/11    |
|---|----------|----------|----------|----------|-----------|-----------|-----------|----------|
| UAI ( $\Delta$ CDF)   | 2.50E-08 | 2.50E-08 | 1.96E-08 | 3.44E-08 | 1.03E-07  | 1.03E-07  | 8.86E-08  | 2.31E-08 |
| URI ( $\Delta$ CDF)   | 4.50E-07 | 4.50E-07 | 4.52E-07 | 4.54E-07 | -8.89E-08 | -9.05E-08 | -9.19E-08 | 7.02E-08 |
| PLE   | NO       | NO       | NO       | NO       | NO        | NO        | NO        | NO       |
| Indicator value   | 4.75E-07 | 4.75E-07 | 4.70E-07 | 4.90E-07 | 1.40E-08  | 1.30E-08  | -3.30E-09 | 9.30E-08 |

Licensee Comments: none

# Reactor Coolant System Activity



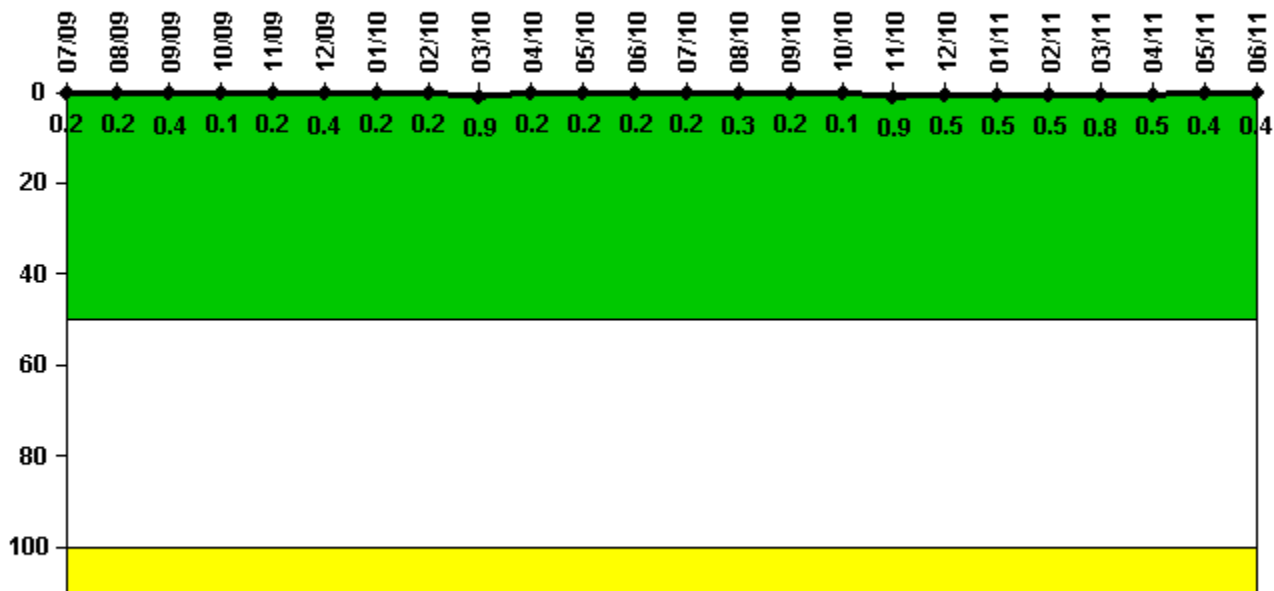
Thresholds: White > 50.0 Yellow > 100.0

## Notes

| Reactor Coolant System Activity | 7/09     | 8/09     | 9/09     | 10/09    | 11/09    | 12/09    | 1/10     | 2/10     | 3/10     | 4/10     | 5/10     | 6/10     |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0.000876 | 0.000909 | 0.000975 | 0.000971 | 0.001050 | 0.001140 | 0.001050 | 0.001060 | 0.001070 | 0.001150 | 0.001190 | 0.001290 |
| Technical specification limit   | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      |
| Indicator value                 | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.2      | 0.3      |
| Reactor Coolant System Activity | 7/10     | 8/10     | 9/10     | 10/10    | 11/10    | 12/10    | 1/11     | 2/11     | 3/11     | 4/11     | 5/11     | 6/11     |
| Maximum activity                | 0.001260 | 0.001300 | 0.001400 | 0.001110 | 0.000516 | 0.000664 | 0.000721 | 0.000749 | 0.000782 | 0.000847 | 0.000884 | 0.000975 |
| Technical specification limit   | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      |
| Indicator value                 | 0.3      | 0.3      | 0.3      | 0.2      | 0.1      | 0.1      | 0.1      | 0.1      | 0.2      | 0.2      | 0.2      | 0.2      |

Licensee Comments: none

## Reactor Coolant System Leakage



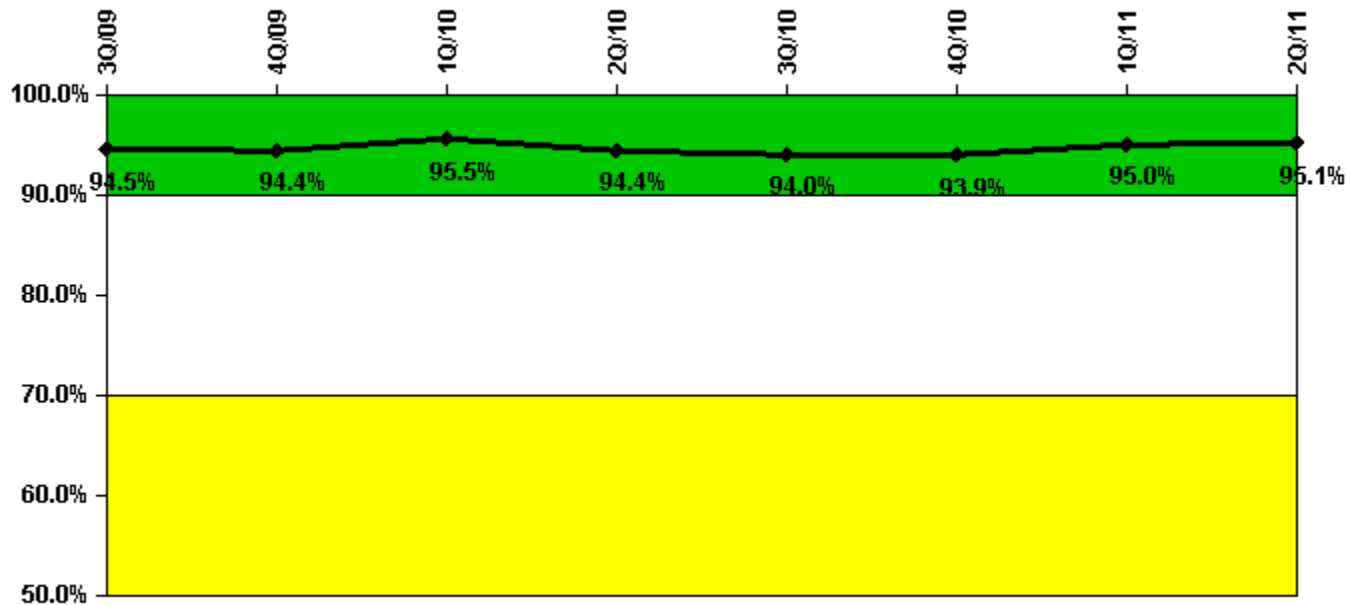
Thresholds: White > 50.0 Yellow > 100.0

### Notes

|                                |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Reactor Coolant System Leakage | 7/09  | 8/09  | 9/09  | 10/09 | 11/09 | 12/09 | 1/10  | 2/10  | 3/10  | 4/10  | 5/10  | 6/10  |
| Maximum leakage                | 0.016 | 0.020 | 0.038 | 0.013 | 0.016 | 0.039 | 0.019 | 0.017 | 0.088 | 0.017 | 0.015 | 0.019 |
| 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                | 0.2   | 0.2   | 0.4   | 0.1   | 0.2   | 0.4   | 0.2   | 0.2   | 0.9   | 0.2   | 0.2   | 0.2   |
| Reactor Coolant System Leakage | 7/10  | 8/10  | 9/10  | 10/10 | 11/10 | 12/10 | 1/11  | 2/11  | 3/11  | 4/11  | 5/11  | 6/11  |
| Maximum leakage                | 0.017 | 0.030 | 0.015 | 0.010 | 0.093 | 0.049 | 0.054 | 0.051 | 0.076 | 0.048 | 0.042 | 0.040 |
| 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                | 0.2   | 0.3   | 0.2   | 0.1   | 0.9   | 0.5   | 0.5   | 0.5   | 0.8   | 0.5   | 0.4   | 0.4   |

Licensee Comments: none

## Drill/Exercise Performance



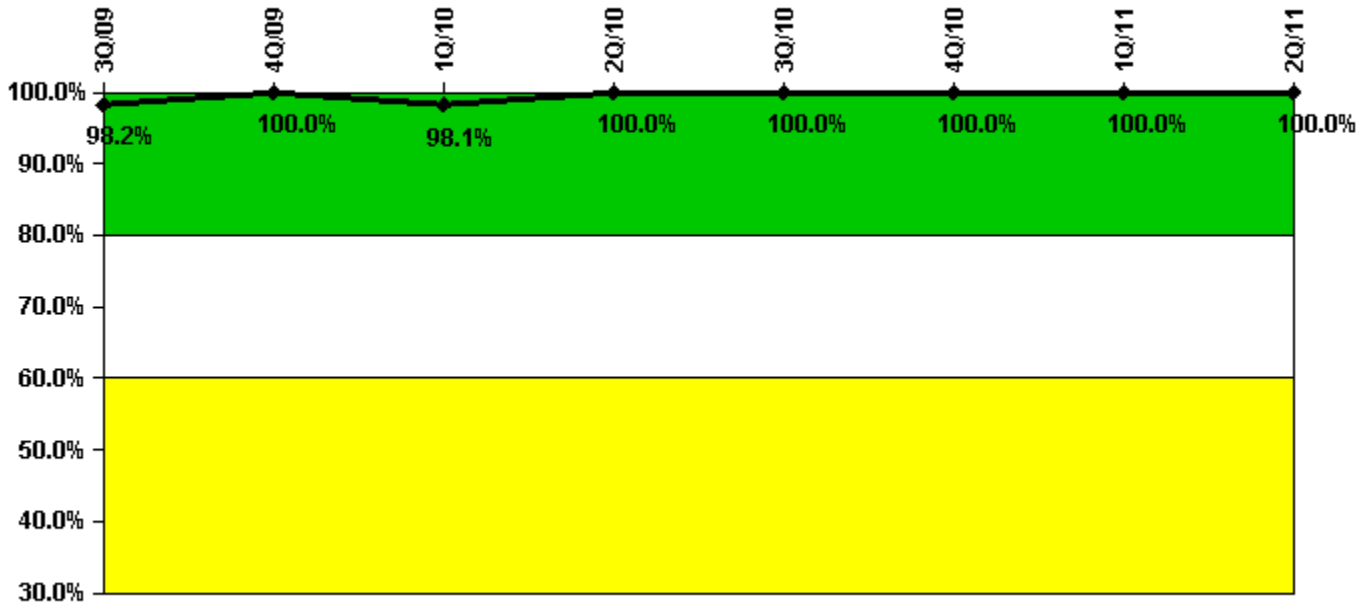
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

| Drill/Exercise Performance | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 15.0  | 30.0  | 21.0  | 20.0  | 14.0  | 11.0  | 43.0  | 59.0  |
| Total opportunities        | 15.0  | 31.0  | 22.0  | 23.0  | 15.0  | 11.0  | 46.0  | 61.0  |
| Indicator value            | 94.5% | 94.4% | 95.5% | 94.4% | 94.0% | 93.9% | 95.0% | 95.1% |

Licensee Comments: none

# ERO Drill Participation



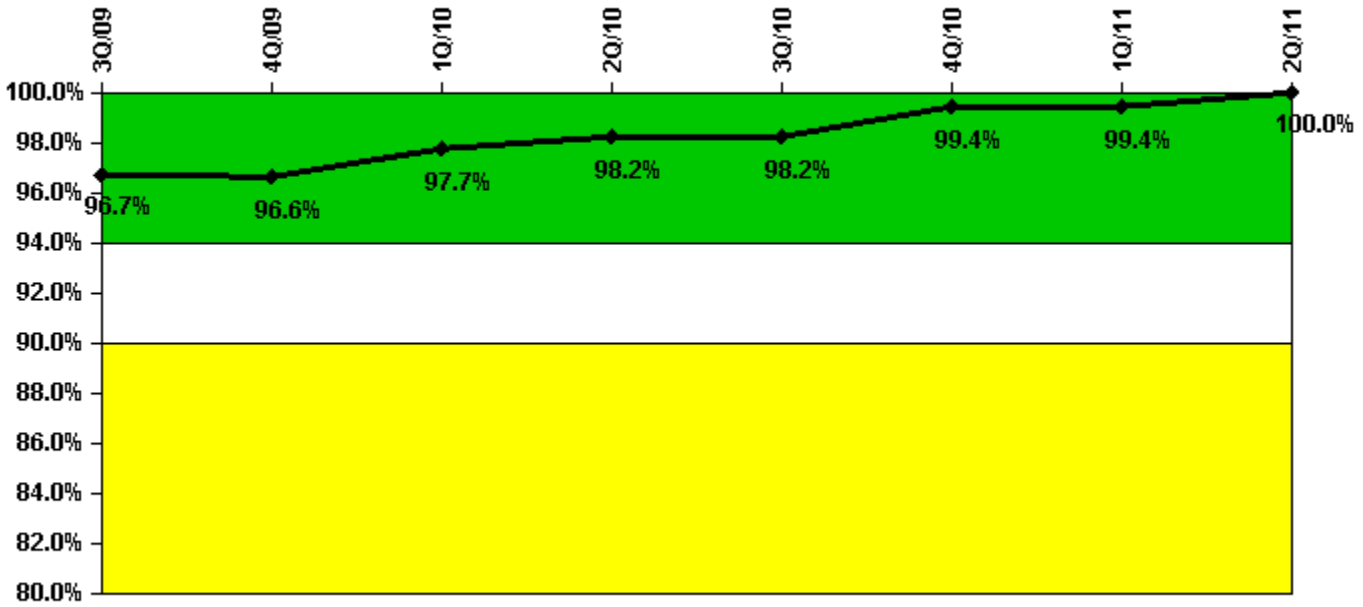
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation     | 3Q/09 | 4Q/09  | 1Q/10 | 2Q/10  | 3Q/10  | 4Q/10  | 1Q/11  | 2Q/11  |
|-----------------------------|-------|--------|-------|--------|--------|--------|--------|--------|
| Participating Key personnel | 111.0 | 110.0  | 102.0 | 105.0  | 113.0  | 114.0  | 124.0  | 122.0  |
| Total Key personnel         | 113.0 | 110.0  | 104.0 | 105.0  | 113.0  | 114.0  | 124.0  | 122.0  |
|                             |       |        |       |        |        |        |        |        |
| Indicator value             | 98.2% | 100.0% | 98.1% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

Licensee Comments: none

# Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

## Notes

| Alert & Notification System | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11  |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|--------|
| Successful siren-tests      | 45    | 40    | 42    | 38    | 42    | 42    | 39    | 42     |
| Total sirens-tests          | 45    | 42    | 42    | 39    | 42    | 42    | 39    | 42     |
|                             |       |       |       |       |       |       |       |        |
| Indicator value             | 96.7% | 96.6% | 97.7% | 98.2% | 98.2% | 99.4% | 99.4% | 100.0% |

License Comments: none

# Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

## Notes

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