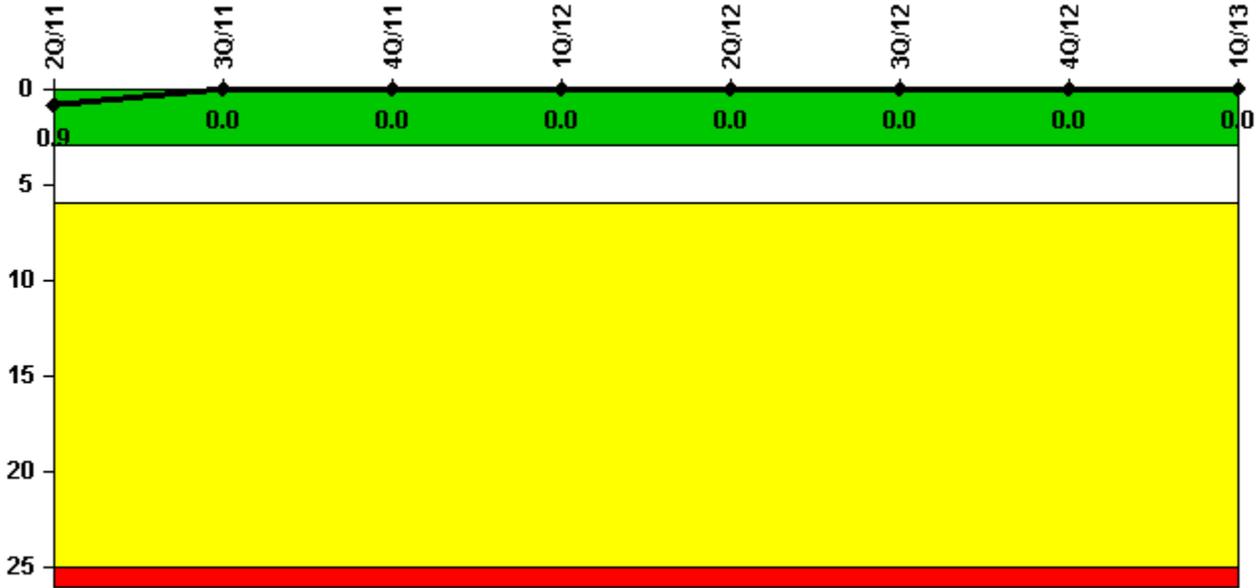


## South Texas 1

### 1Q/2013 Performance Indicators

Licensee's General Comments: none

#### Unplanned Scrams per 7000 Critical Hrs



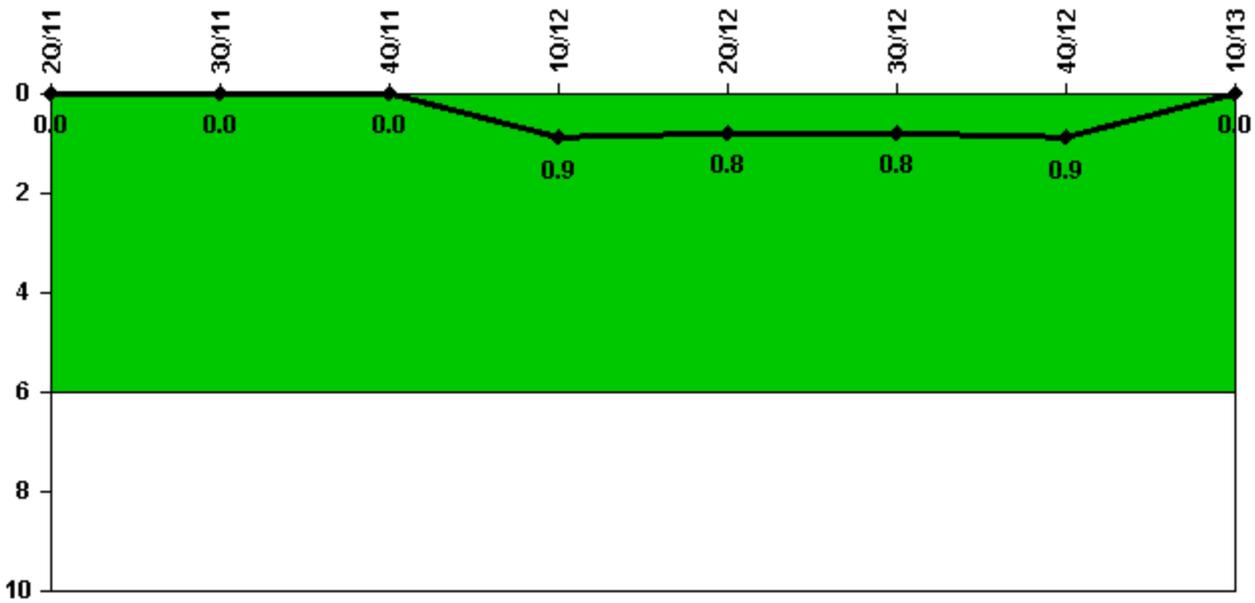
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

#### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/11      | 3Q/11    | 4Q/11    | 1Q/12    | 2Q/12    | 3Q/12    | 4Q/12    | 1Q/13    |
|--|------------|----------|----------|----------|----------|----------|----------|----------|
| Unplanned scrams                       | 0          | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| Critical hours                         | 1366.2     | 2208.0   | 2209.0   | 2183.0   | 2184.0   | 2208.0   | 1336.1   | 2159.0   |
| <b>Indicator value</b>                 | <b>0.9</b> | <b>0</b> |

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



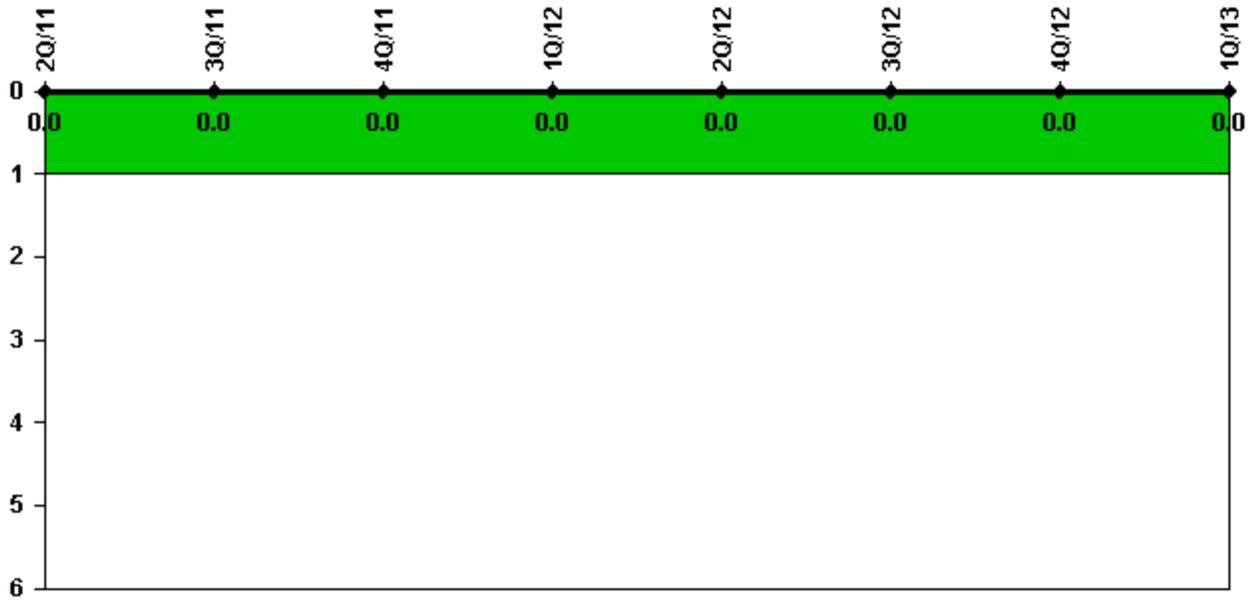
Thresholds: White > 6.0

#### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/11    | 3Q/11    | 4Q/11    | 1Q/12      | 2Q/12      | 3Q/12      | 4Q/12      | 1Q/13    |
|---|----------|----------|----------|------------|------------|------------|------------|----------|
| Unplanned power changes                       | 0        | 0        | 0        | 1.0        | 0          | 0          | 0          | 0        |
| Critical hours                                | 1366.2   | 2208.0   | 2209.0   | 2183.0     | 2184.0     | 2208.0     | 1336.1     | 2159.0   |
| <b>Indicator value</b>                        | <b>0</b> | <b>0</b> | <b>0</b> | <b>0.9</b> | <b>0.8</b> | <b>0.8</b> | <b>0.9</b> | <b>0</b> |

Licensee Comments: none

### Unplanned Scrams with Complications



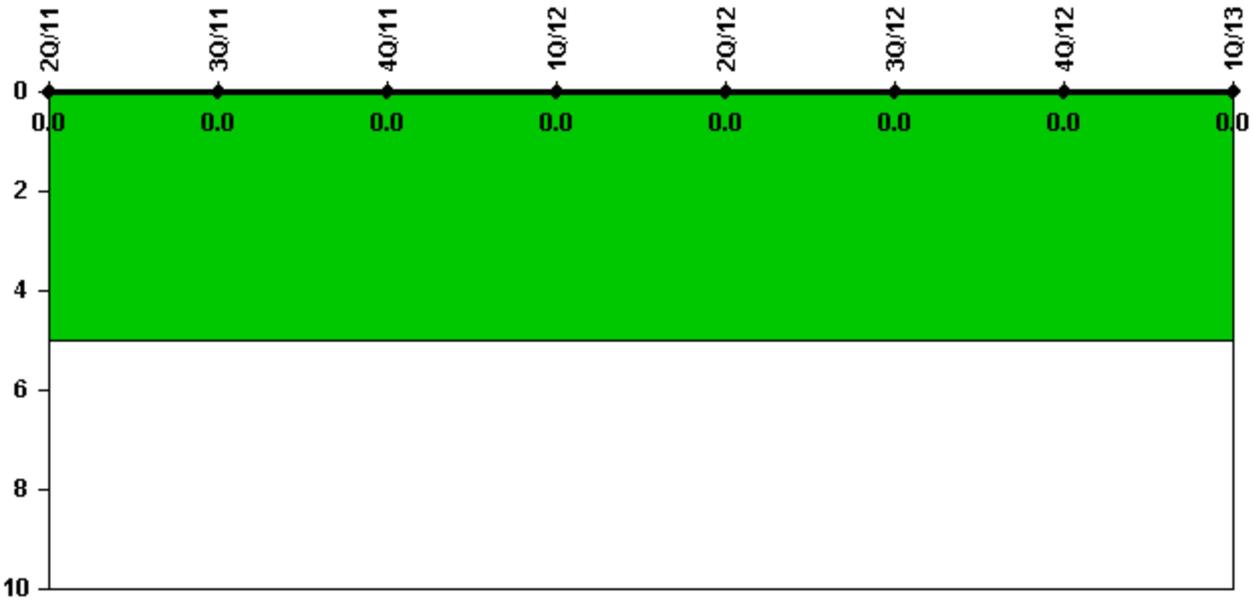
Thresholds: White > 1.0

#### Notes

| Unplanned Scrams with Complications | 2Q/11      | 3Q/11      | 4Q/11      | 1Q/12      | 2Q/12      | 3Q/12      | 4Q/12      | 1Q/13      |
|-------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Scrams with complications           | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
|                                     |            |            |            |            |            |            |            |            |
| <b>Indicator value</b>              | <b>0.0</b> |

Licensee Comments: none

### Safety System Functional Failures (PWR)



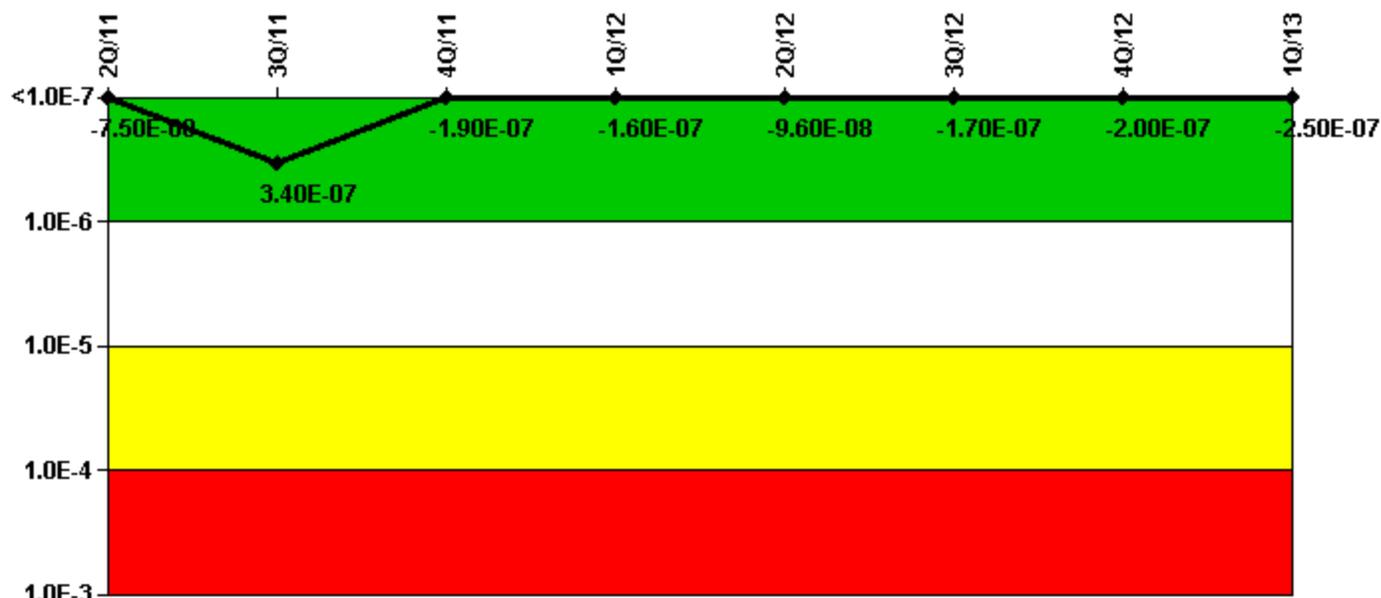
Thresholds: White > 5.0

#### Notes

| Safety System Functional Failures (PWR) | 2Q/11    | 3Q/11    | 4Q/11    | 1Q/12    | 2Q/12    | 3Q/12    | 4Q/12    | 1Q/13    |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| Safety System Functional Failures       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| <b>Indicator value</b>                  | <b>0</b> |

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 | 2Q/11     | 3Q/11     | 4Q/11     | 1Q/12     | 2Q/12     | 3Q/12     | 4Q/12     | 1Q/13     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (ΔCDF)  | 4.19E-07  | 7.17E-07  | 1.82E-07  | 2.12E-07  | 2.72E-07  | 1.97E-07  | 1.61E-07  | 1.07E-07  |
| URI (ΔCDF)  | -4.95E-07 | -3.74E-07 | -3.74E-07 | -3.71E-07 | -3.68E-07 | -3.64E-07 | -3.61E-07 | -3.58E-07 |
| PLE   | NO        |
| Indicator value   | -7.50E-08 | 3.40E-07  | -1.90E-07 | -1.60E-07 | -9.60E-08 | -1.70E-07 | -2.00E-07 | -2.50E-07 |

#### Licensee Comments:

1Q/13: The Planned UA Baseline coefficient for EDG B (DG 12 Unit 1) was updated to remove unavailable hours related to 5 year preventive maintenance. At the same time, the Planned UA Baseline Coefficient for EDG B required the addition of unavailable hours related to a 15 year FOST. This resulted in no change to the coefficient. The MSPI bases document was revised to reflect these changes. This change will be effective 2Q13. NOTE: The change due to the 5 year preventive maintenance should have been made effective in 1Q13. This error had no effect on the color of the indicator. CR 13-3083 was written.

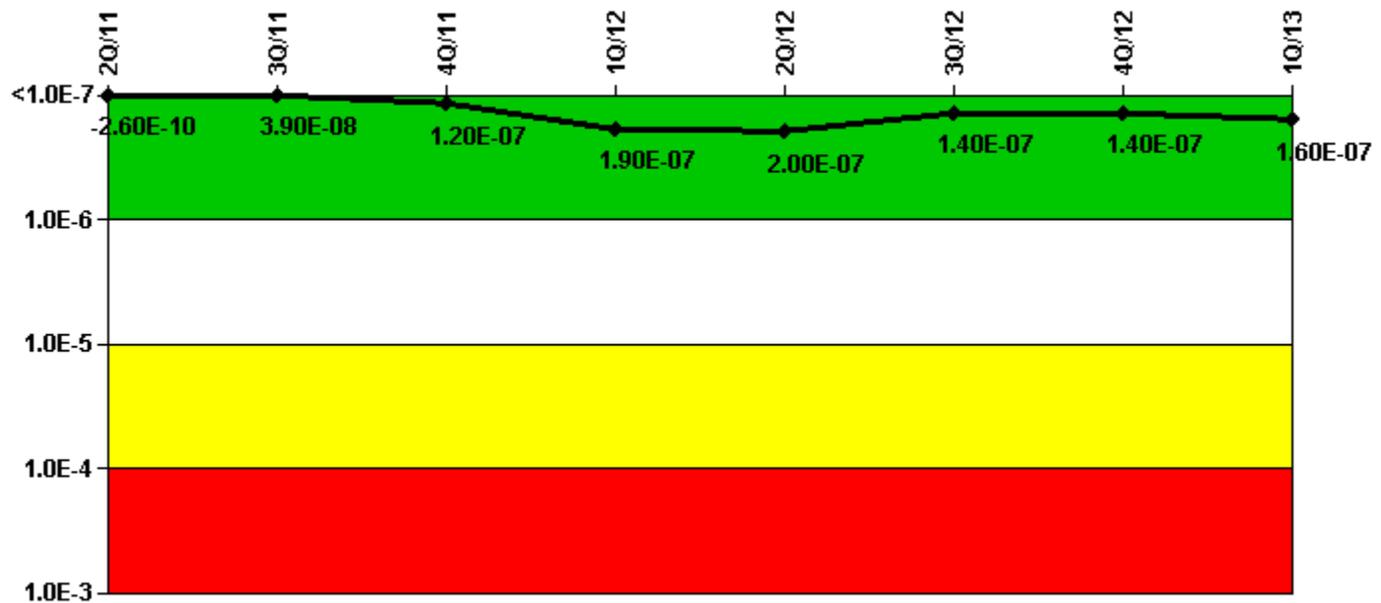
3Q/12: The Planned UA Baseline coefficient for EDG C (DG 13 Unit 1) was updated to remove unavailable hours related to 5 year preventive maintenance. In addition, the MSPI bases document was revised to reflect this change. This change will be effective 4Q12.

1Q/12: 1Q12: Changes to the MSPI Bases Document for MSPI coefficients should have been made during 4Q11 in accordance with FAQ 480. CR 12-404 was written to ensure that FAQ 480 was implemented. The EDG estimated run hours were updated for U1 & U2 EDGs as required by FAQ and the MSPI Bases Document has now been updated.

4Q/11: While no changes to the MSPI Bases Document for MSPI coefficients were made during the 4Q11, changes were required in accordance with FAQ 480. CR 12-404 was written to ensure that FAQ 480 is implemented and to update the EDG estimated run hours for Unit 1 EDGs as required by FAQ. These changes will be completed prior to submission of the 1Q12 data when the changes should be effective.

3Q/11: The Planned UA Baseline coefficient for EDG B (DG 12 Unit 1) was updated to reflect planned 5 year preventive maintenance in January 2010. These hours had not been incorporated into the bases document/CDE database previously. Reference CR 11-542-7. The Planned UA Baseline coefficient for EDG C (DG 13 Unit 1) was updated to reflect planned 5 year preventive maintenance in November 2009. These hours had not been incorporated into the bases document/CDE database previously. Reference CR 11-542-7. These changes will be effective 4Q11.

### Mitigating Systems Performance Index, High Pressure Injection System



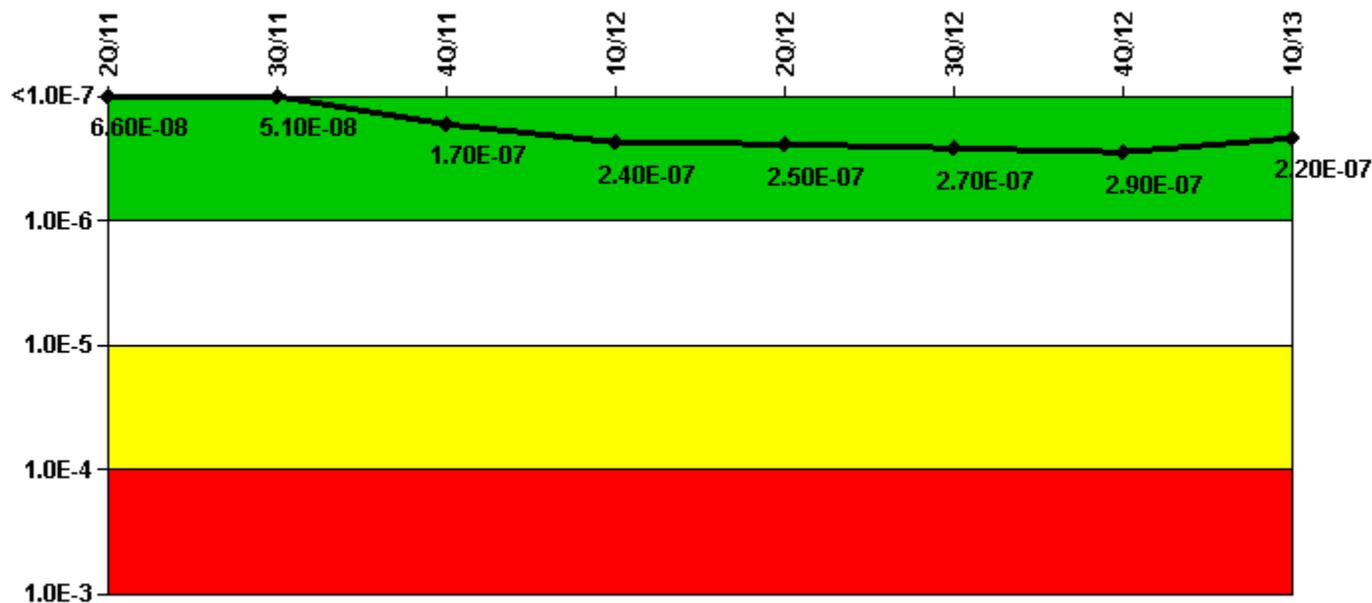
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

### Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 2Q/11     | 3Q/11     | 4Q/11     | 1Q/12     | 2Q/12     | 3Q/12     | 4Q/12     | 1Q/13     |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (ΔCDF)   | 1.14E-08  | 5.06E-08  | 1.34E-07  | 1.97E-07  | 2.15E-07  | 1.54E-07  | 1.48E-07  | 1.70E-07  |
| URI (ΔCDF)   | -1.16E-08 |
| PLE  | NO        |
| Indicator value  | -2.60E-10 | 3.90E-08  | 1.20E-07  | 1.90E-07  | 2.00E-07  | 1.40E-07  | 1.40E-07  | 1.60E-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 | 2Q/11     | 3Q/11     | 4Q/11     | 1Q/12     | 2Q/12     | 3Q/12     | 4Q/12     | 1Q/13     |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)                                       | 1.53E-07  | 1.37E-07  | 1.96E-07  | 2.66E-07  | 2.80E-07  | 2.92E-07  | 3.11E-07  | 2.39E-07  |
| URI ( $\Delta$ CDF)                                       | -8.62E-08 | -8.55E-08 | -2.72E-08 | -2.65E-08 | -2.57E-08 | -2.49E-08 | -2.41E-08 | -2.33E-08 |
| PLE   | NO        |
| Indicator value   | 6.60E-08  | 5.10E-08  | 1.70E-07  | 2.40E-07  | 2.50E-07  | 2.70E-07  | 2.90E-07  | 2.20E-07  |

Licensee Comments:

4Q/11: October - Unit 1 AFW-C MOV-85 failure documented under SCAQ CR 11-19073.

### Mitigating Systems Performance Index, Residual Heat Removal System



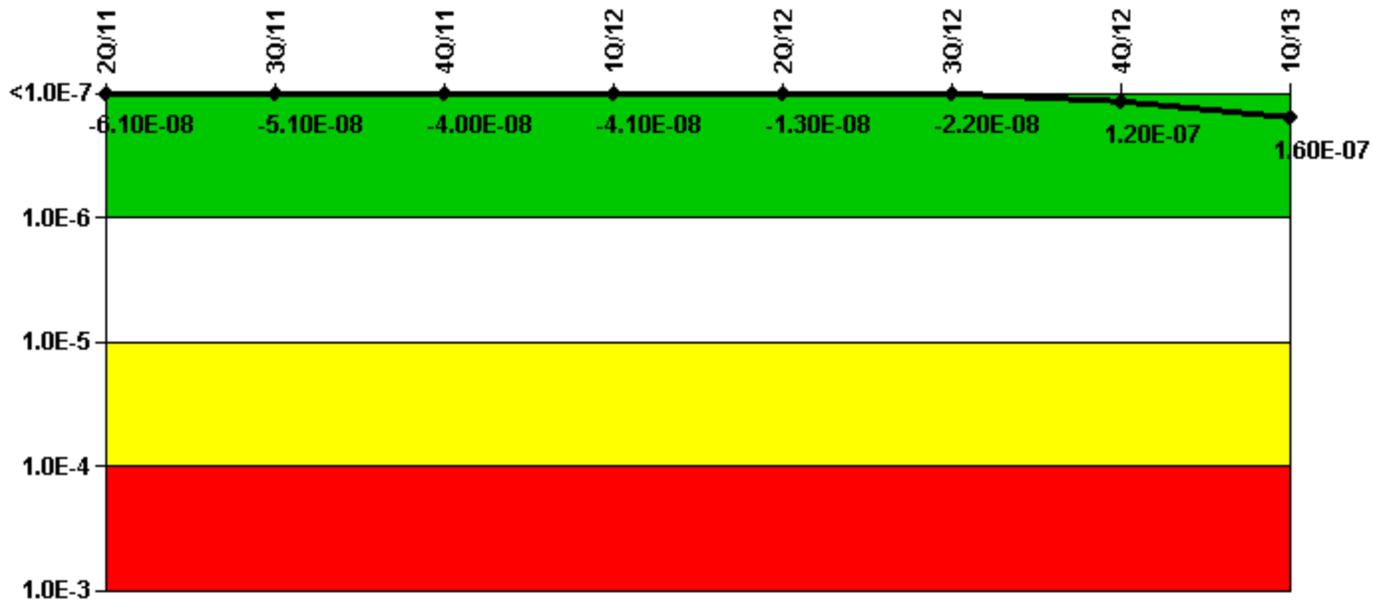
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

| Mitigating Systems Performance Index, Residual Heat Removal System | 2Q/11     | 3Q/11     | 4Q/11     | 1Q/12     | 2Q/12     | 3Q/12     | 4Q/12     | 1Q/13     |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI ( $\Delta$ CDF)  | 8.51E-09  | 1.59E-08  | 3.86E-08  | 3.99E-08  | 4.14E-08  | -4.21E-10 | -2.26E-09 | 1.44E-08  |
| URI ( $\Delta$ CDF)  | -2.25E-09 |
| PLE  | NO        |
| Indicator value  | 6.30E-09  | 1.40E-08  | 3.60E-08  | 3.80E-08  | 3.90E-08  | -2.70E-09 | -4.50E-09 | 1.20E-08  |

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



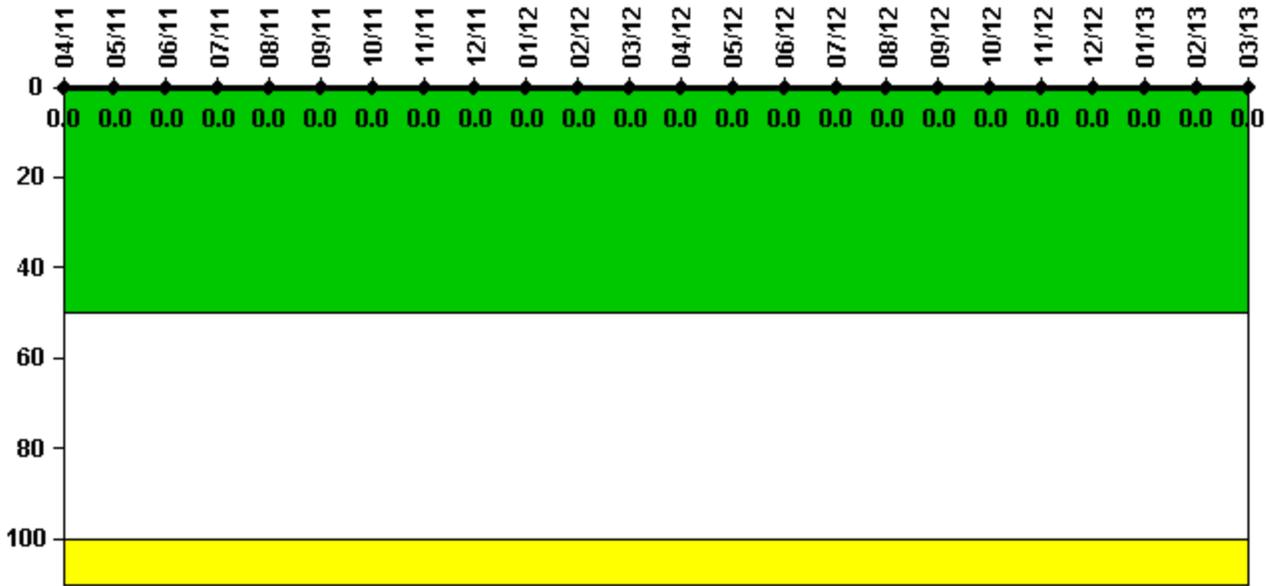
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

| Mitigating Systems Performance Index, Cooling Water Systems | 2Q/11     | 3Q/11     | 4Q/11     | 1Q/12     | 2Q/12     | 3Q/12     | 4Q/12     | 1Q/13    |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| UAI ( $\Delta$ CDF)   | -2.16E-08 | -1.11E-08 | 3.37E-11  | -1.71E-09 | 2.63E-08  | 1.73E-08  | -2.09E-09 | 3.86E-08 |
| URI ( $\Delta$ CDF)   | -3.96E-08 | -3.96E-08 | -3.96E-08 | -3.96E-08 | -3.96E-08 | -3.96E-08 | 1.18E-07  | 1.18E-07 |
| PLE   | NO        | NO       |
| Indicator value   | -6.10E-08 | -5.10E-08 | -4.00E-08 | -4.10E-08 | -1.30E-08 | -2.20E-08 | 1.20E-07  | 1.60E-07 |

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

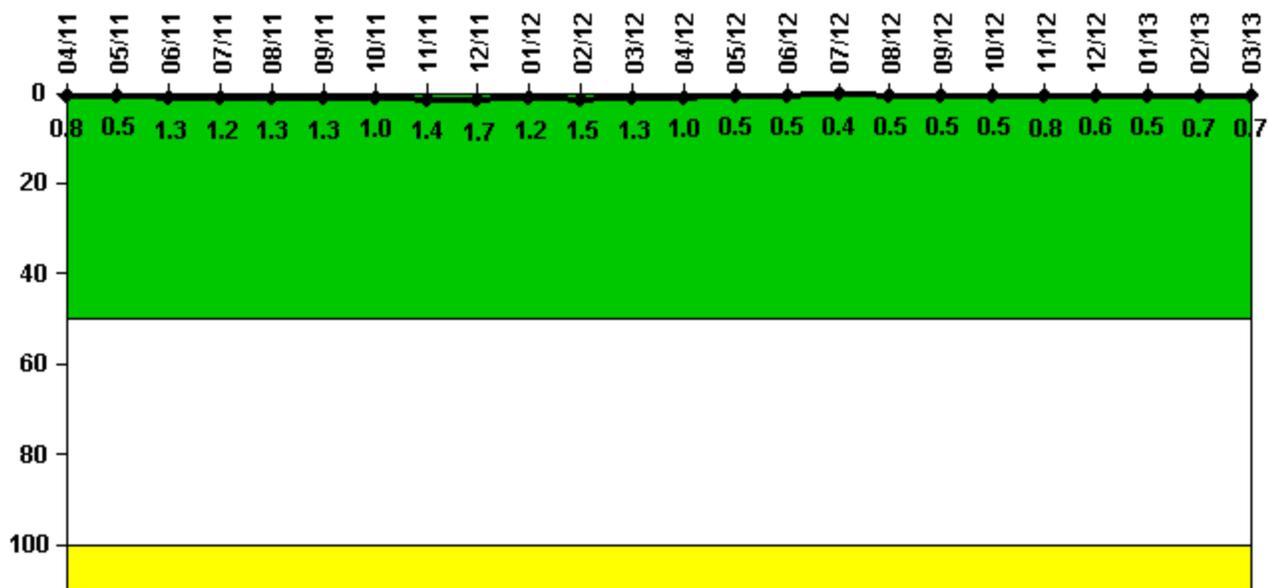
**Notes**

| Reactor Coolant System Activity | 4/11     | 5/11     | 6/11     | 7/11     | 8/11     | 9/11     | 10/11    | 11/11    | 12/11    | 1/12     | 2/12     | 3/12     |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity                | 0        | 0.000042 | 0.000042 | 0.000045 | 0.000044 | 0.000050 | 0.000051 | 0.000053 | 0.000057 | 0.000057 | 0.000060 | 0.000057 |
| 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      |
| <b>Indicator value</b>          | <b>0</b> |
| Reactor Coolant System Activity | 4/12     | 5/12     | 6/12     | 7/12     | 8/12     | 9/12     | 10/12    | 11/12    | 12/12    | 1/13     | 2/13     | 3/13     |
| Maximum activity                | 0.000064 | 0.000065 | 0.000057 | 0.000061 | 0.000060 | 0.000065 | 0.000066 | 0        | 0.000025 | 0.000029 | 0.000033 | 0.000028 |
| 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      |
| <b>Indicator value</b>          | <b>0</b> |

Licensee Comments:

6/11: No steady state at power DEI-131 obtained in April 2011 due to shutdown for Refueling Outage.

### Reactor Coolant System Leakage



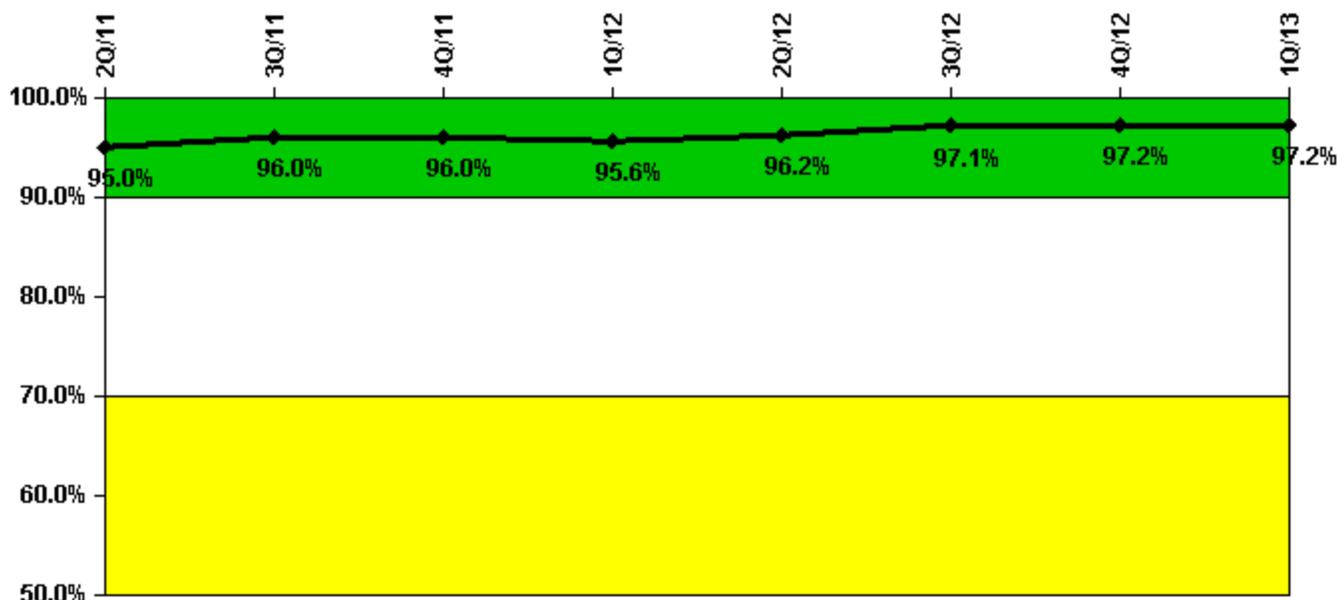
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

| Reactor Coolant System Leakage | 4/11       | 5/11       | 6/11       | 7/11       | 8/11       | 9/11       | 10/11      | 11/11      | 12/11      | 1/12       | 2/12       | 3/12       |
|--------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Maximum leakage                | 0.078      | 0.052      | 0.133      | 0.118      | 0.126      | 0.134      | 0.104      | 0.135      | 0.167      | 0.123      | 0.149      | 0.133      |
| 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       |
| <b>Indicator value</b>         | <b>0.8</b> | <b>0.5</b> | <b>1.3</b> | <b>1.2</b> | <b>1.3</b> | <b>1.3</b> | <b>1.0</b> | <b>1.4</b> | <b>1.7</b> | <b>1.2</b> | <b>1.5</b> | <b>1.3</b> |
| Reactor Coolant System Leakage | 4/12       | 5/12       | 6/12       | 7/12       | 8/12       | 9/12       | 10/12      | 11/12      | 12/12      | 1/13       | 2/13       | 3/13       |
| Maximum leakage                | 0.101      | 0.048      | 0.049      | 0.042      | 0.047      | 0.048      | 0.052      | 0.075      | 0.055      | 0.049      | 0.065      | 0.072      |
| 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       |
| <b>Indicator value</b>         | <b>1.0</b> | <b>0.5</b> | <b>0.5</b> | <b>0.4</b> | <b>0.5</b> | <b>0.5</b> | <b>0.5</b> | <b>0.8</b> | <b>0.6</b> | <b>0.5</b> | <b>0.7</b> | <b>0.7</b> |

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

| Drill/Exercise Performance | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities   | 10.0  | 99.0  | 0     | 16.0  | 12.0  | 68.0  | 28.0  | 6.0   |
| Total opportunities        | 10.0  | 101.0 | 0     | 19.0  | 12.0  | 70.0  | 28.0  | 6.0   |
| Indicator value            | 95.0% | 96.0% | 96.0% | 95.6% | 96.2% | 97.1% | 97.2% | 97.2% |

#### Licensee Comments:

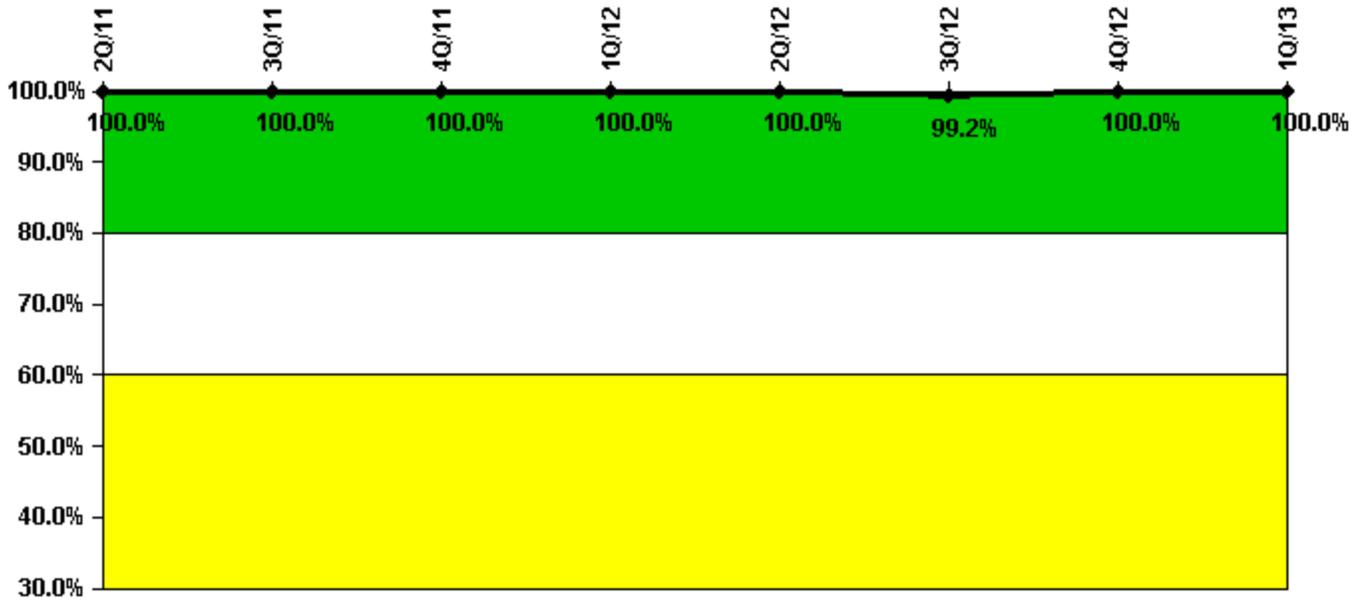
4Q/12: Corrected Successful opportunities in Q3/2013 due to missed emergency classification in September 2012. (CR 13-650)

3Q/12: Corrected Successful opportunities in 3Q12 due to missed emergency classification in September 2012. (CR 13-650)

2Q/12: Revised 3Q11 DEP after NRC Inspection of raw data, removed 1 PAR & 2 Classification Opportunities. Previous DEP reported as 102 successes of 104 opportunities. (CR 12-21362). This did not affect the color of the indicator.

3Q/11: 3Q11 revised DEP after NRC Inspection of raw data, removed 1 PAR & 2 Classification Opportunities. Previous DEP reported as 102 successes of 104 opportunities.

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

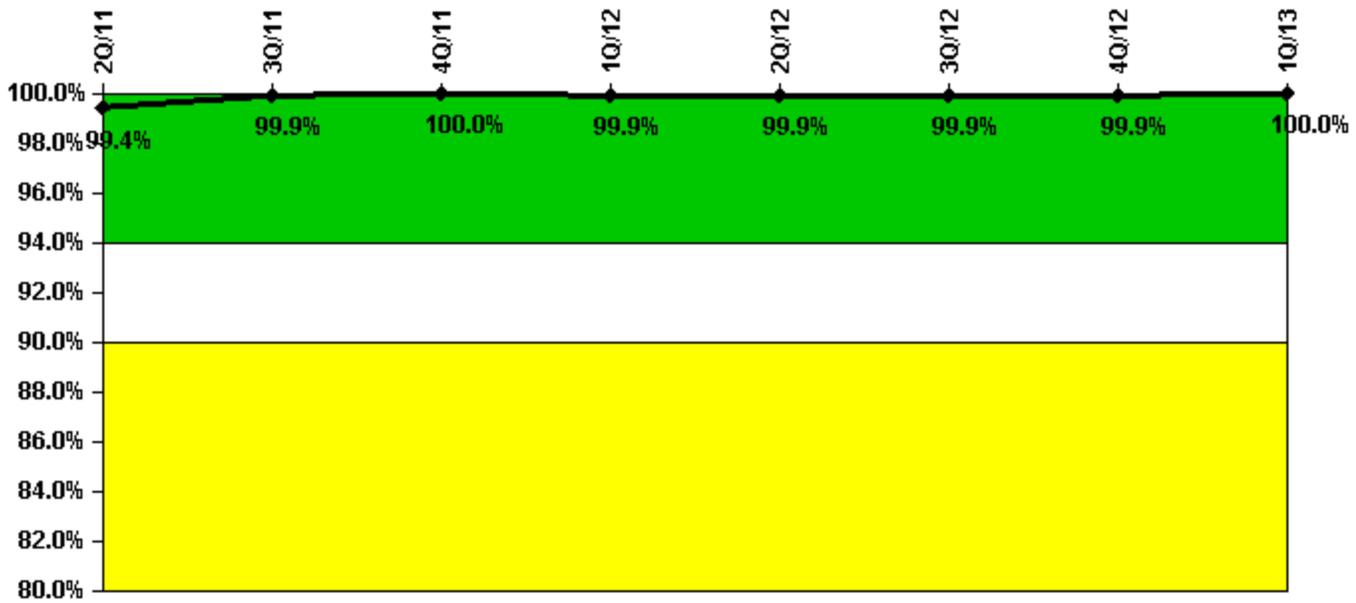
| ERO Drill Participation     | 2Q/11  | 3Q/11  | 4Q/11  | 1Q/12  | 2Q/12  | 3Q/12 | 4Q/12  | 1Q/13  |
|-----------------------------|--------|--------|--------|--------|--------|-------|--------|--------|
| Participating Key personnel | 125.0  | 138.0  | 135.0  | 121.0  | 122.0  | 121.0 | 122.0  | 126.0  |
| Total Key personnel         | 125.0  | 138.0  | 135.0  | 121.0  | 122.0  | 122.0 | 122.0  | 126.0  |
| Indicator value             | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 99.2% | 100.0% | 100.0% |

#### Licensee Comments:

4Q/12: Corrected total Participating key personnel in Q3/2012. Failed to account for Shift Communicator who missed a PI opportunity in the previous 8 quarters. (CR 13-650)

3Q/12: Corrected total participating key personnel in 3Q12. Failed to account for Shift Communicator who missed a PI opportunity in the previous 8 quarters. (CR 13-650).

### Alert & Notification System



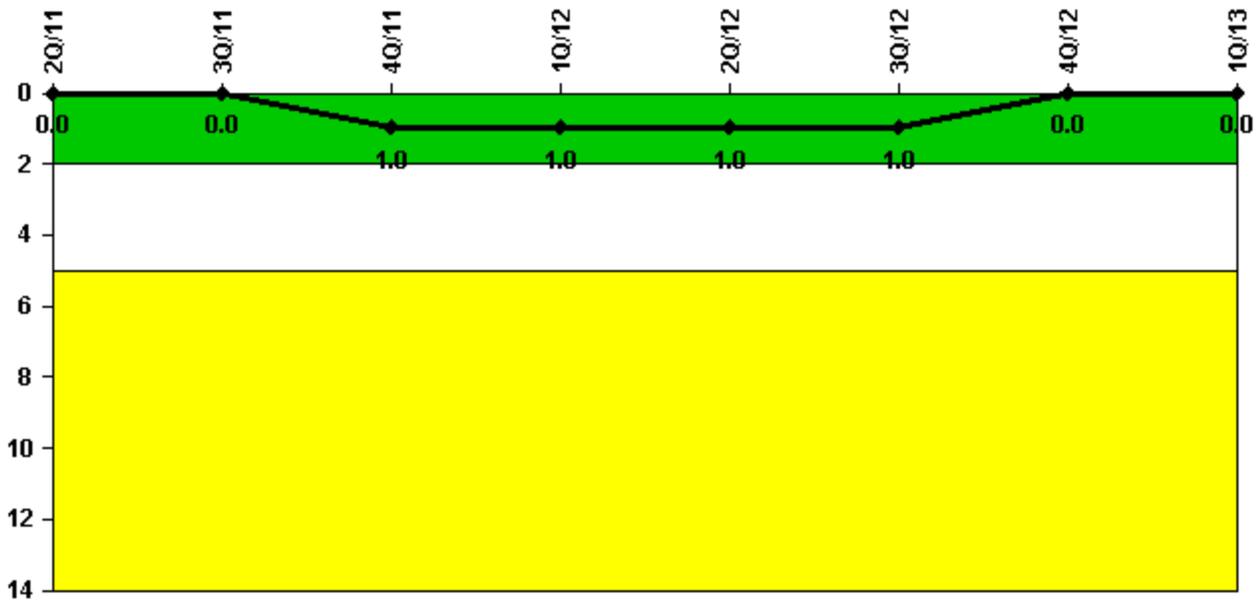
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

| Alert & Notification System | 2Q/11 | 3Q/11 | 4Q/11  | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13  |
|-----------------------------|-------|-------|--------|-------|-------|-------|-------|--------|
| Successful siren-tests      | 224   | 256   | 256    | 255   | 256   | 256   | 224   | 288    |
| Total sirens-tests          | 224   | 256   | 256    | 256   | 256   | 256   | 224   | 288    |
| Indicator value             | 99.4% | 99.9% | 100.0% | 99.9% | 99.9% | 99.9% | 99.9% | 100.0% |

Licensee Comments: none

### Occupational Exposure Control Effectiveness



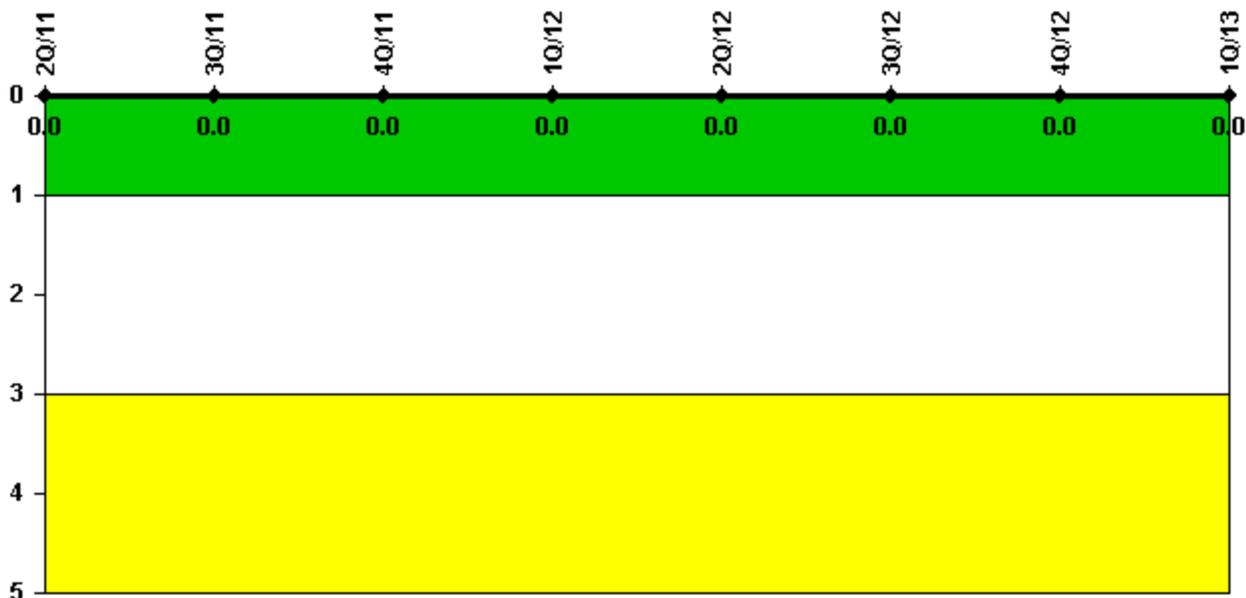
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

| Occupational Exposure Control Effectiveness | 2Q/11    | 3Q/11    | 4Q/11    | 1Q/12    | 2Q/12    | 3Q/12    | 4Q/12    | 1Q/13    |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| 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        | 1        | 0        | 0        | 0        | 0        | 0        |
| <b>Indicator value</b>                      | <b>0</b> | <b>0</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>1</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/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| RETS/ODCM occurrences           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Indicator value                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

 [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

*Last Modified: April 23, 2013*