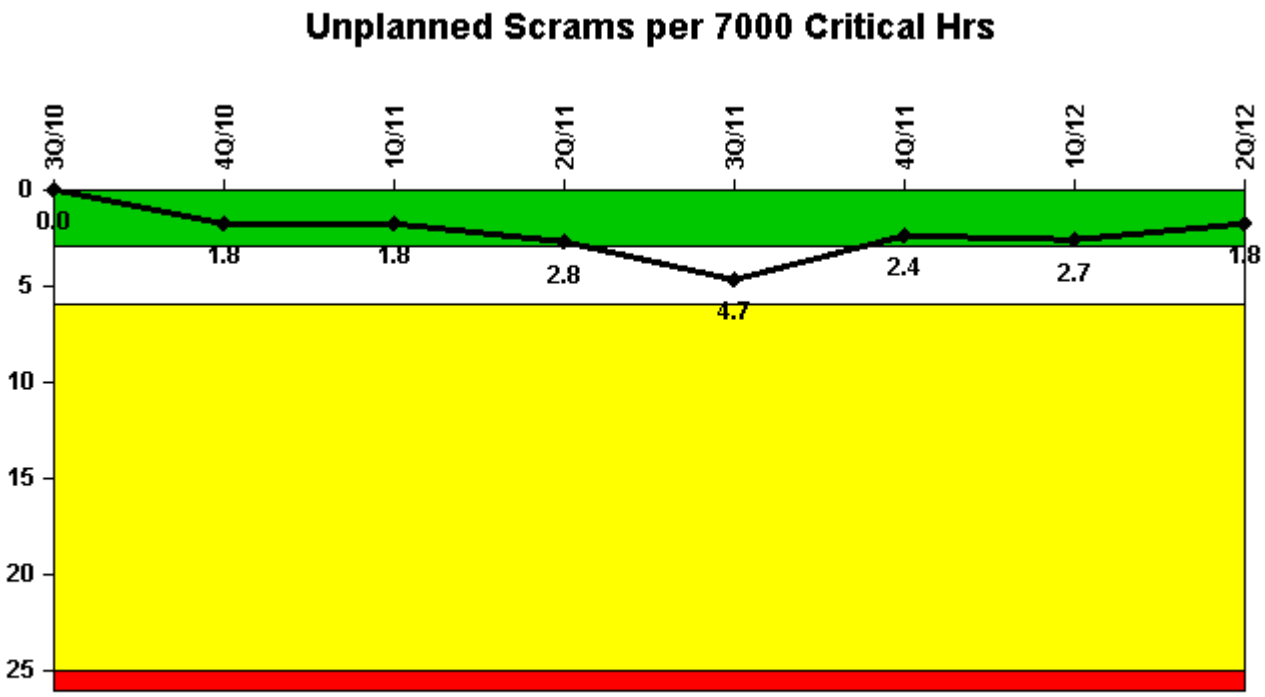
Sequoyah 1

2Q/2012 Performance Indicators

Licensee's General Comments: none



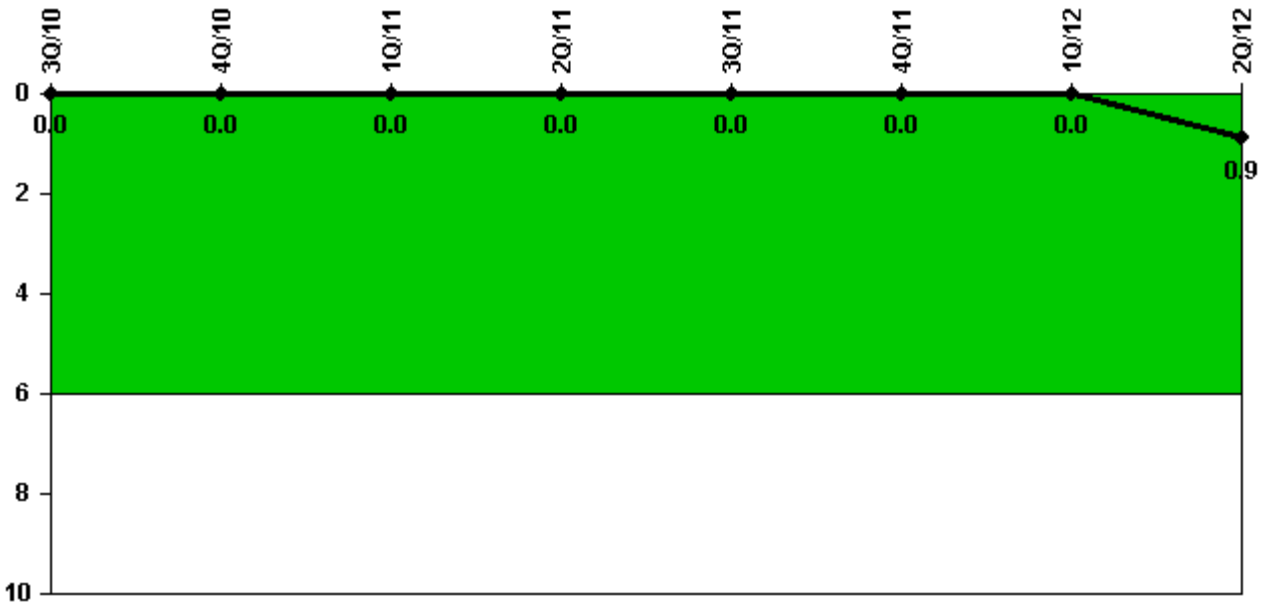
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned scrams	0	2.0	0	1.0	2.0	0	0	0
Critical hours	2208.0	1022.1	2159.0	2155.8	2141.4	2209.0	1386.4	2184.0
Indicator value	**0**	**1.8**	**1.8**	**2.8**	**4.7**	**2.4**	**2.7**	**1.8**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



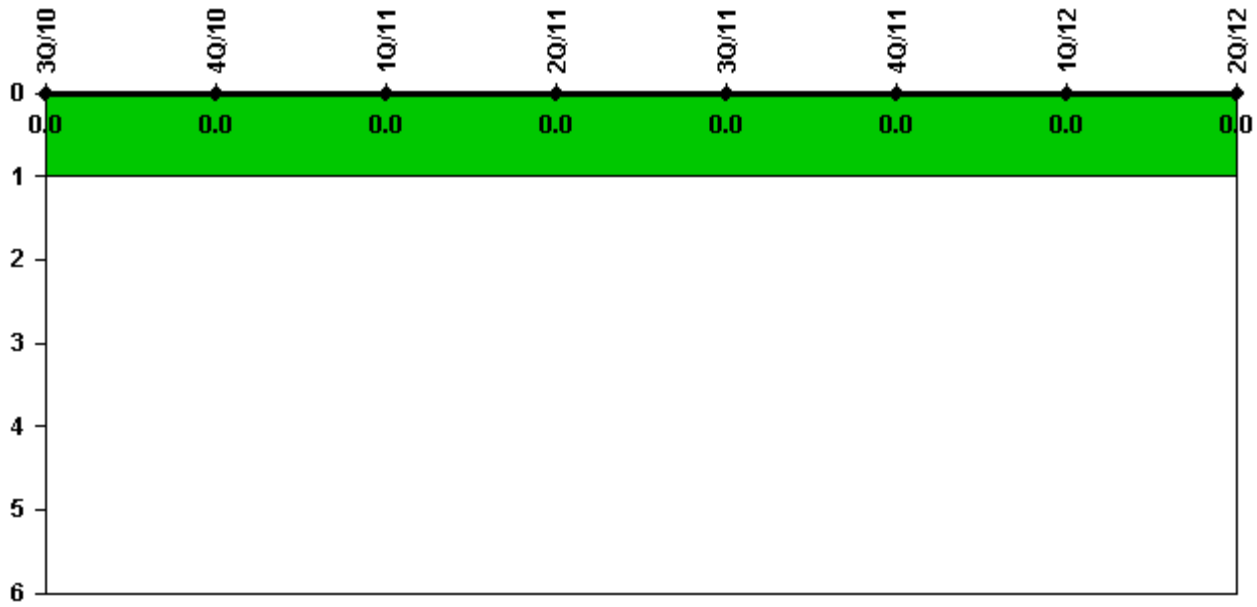
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2208.0	1022.1	2159.0	2155.8	2141.4	2209.0	1386.4	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications



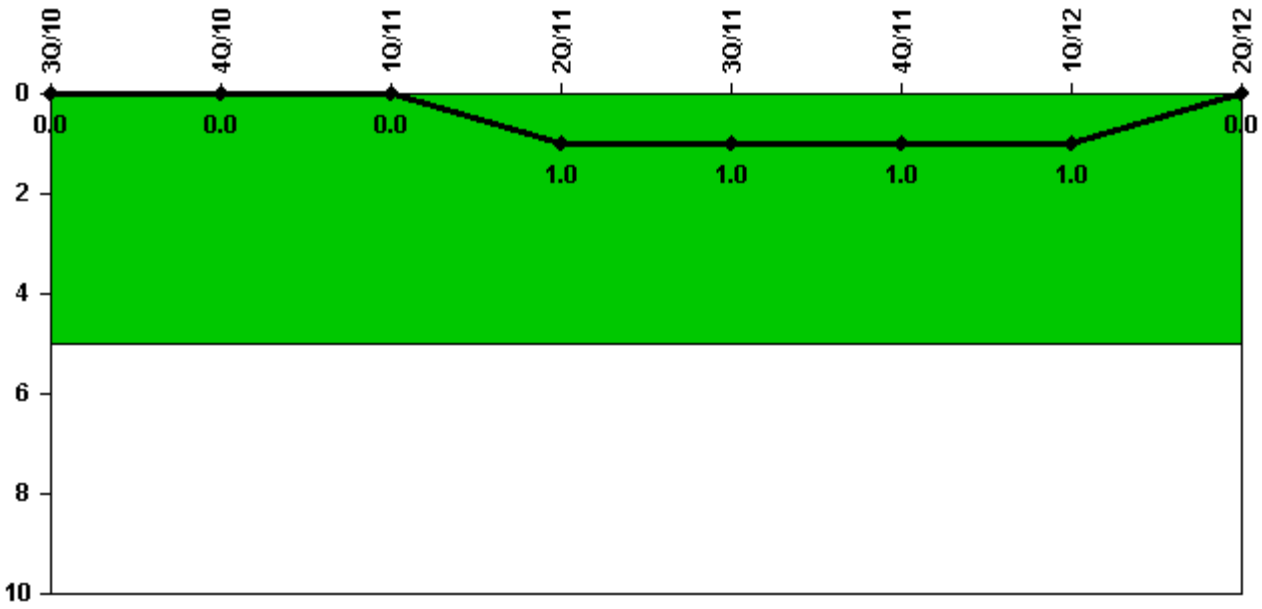
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
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

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

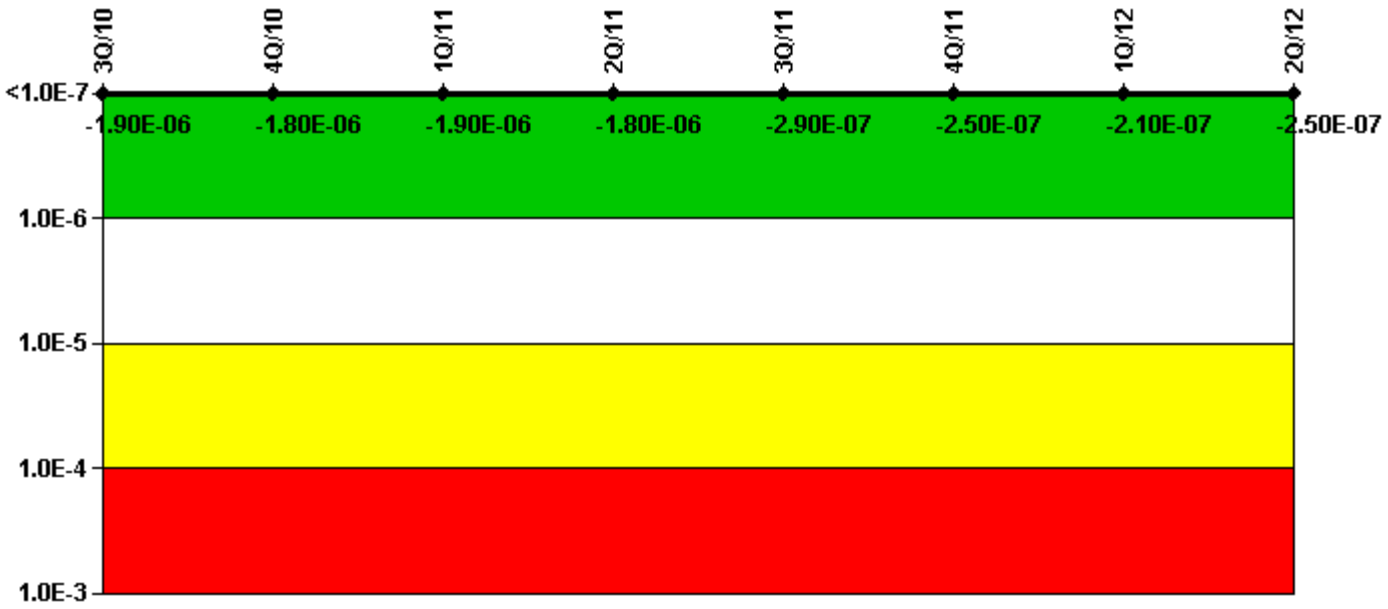
Notes

Safety System Functional Failures (PWR)	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Safety System Functional Failures	0	0	0	1	0	0	0	0
Indicator value	**0**	**0**	**0**	**1**	**1**	**1**	**1**	**0**

Licensee Comments:

2Q/11: LER 327, 328/2011-001-00, Both trains of control room air conditioning system being inoperable was reported as a safety system functional failure on April 15, 2011.

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/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-2.14E-08	-1.45E-08	1.02E-08	5.39E-08	-1.17E-08	3.32E-08	6.06E-08	1.63E-08
URI (ΔCDF)	-1.90E-06	-1.83E-06	-1.90E-06	-1.90E-06	-2.74E-07	-2.81E-07	-2.72E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-06**	**-1.80E-06**	**-1.90E-06**	**-1.80E-06**	**-2.90E-07**	**-2.50E-07**	**-2.10E-07**	**-2.50E-07**

Licensee Comments:

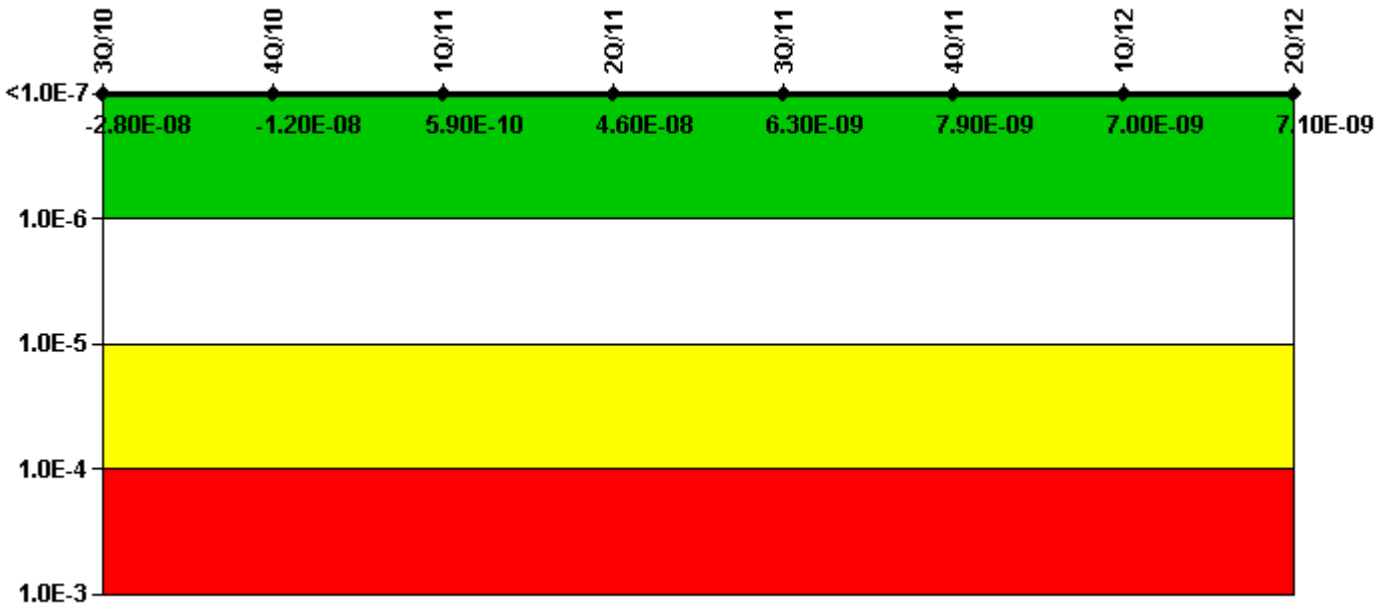
1Q/12: Changed PRA Parameter(s). Revised PRA values and scoping for the PRA Model of Record dated 5/27/11 as recalculated in Calc MDN-000-999-2011-0255 Rev 1 & 2 including adding the EDG FO Pumps to scope as required by a FAQ to NEI 99-02. Errors in calc Rev 0 corrected in CDE back thru 3rd quarter 2011 as required by NEI 99-02. Ref PER 483857.

4Q/11: Changed PRA Parameter(s).

3Q/11: Changed PRA Parameter(s). The calculations to input into MSPI were performed using the current Sequoyah CAFTA PRA Model Rev 0. The PRA Model of Record was revised 5/27/11, updating the PRA model using the CAFTA program. The base numbers used in the MSPI database were also updated in accordance with NEI 99-02 Rev 6. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

3Q/11: Changed PRA Parameter(s). The calculations to input into MSPI were performed using the current Sequoyah CAFTA PRA Model Rev 0. The PRA Model of Record was revised 5/27/11, updating the PRA model using the CAFTA program. The base numbers used in the MSPI database were also updated in accordance with NEI 99-02 Rev 6. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

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/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	1.43E-07	1.59E-07	1.71E-07	2.17E-07	6.73E-09	8.30E-09	7.43E-09	7.49E-09
URI (ΔCDF)	-1.71E-07	-1.71E-07	-1.71E-07	-1.71E-07	-4.21E-10	-4.22E-10	-4.22E-10	-4.23E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.80E-08**	**-1.20E-08**	**5.90E-10**	**4.60E-08**	**6.30E-09**	**7.90E-09**	**7.00E-09**	**7.10E-09**

Licensee Comments:

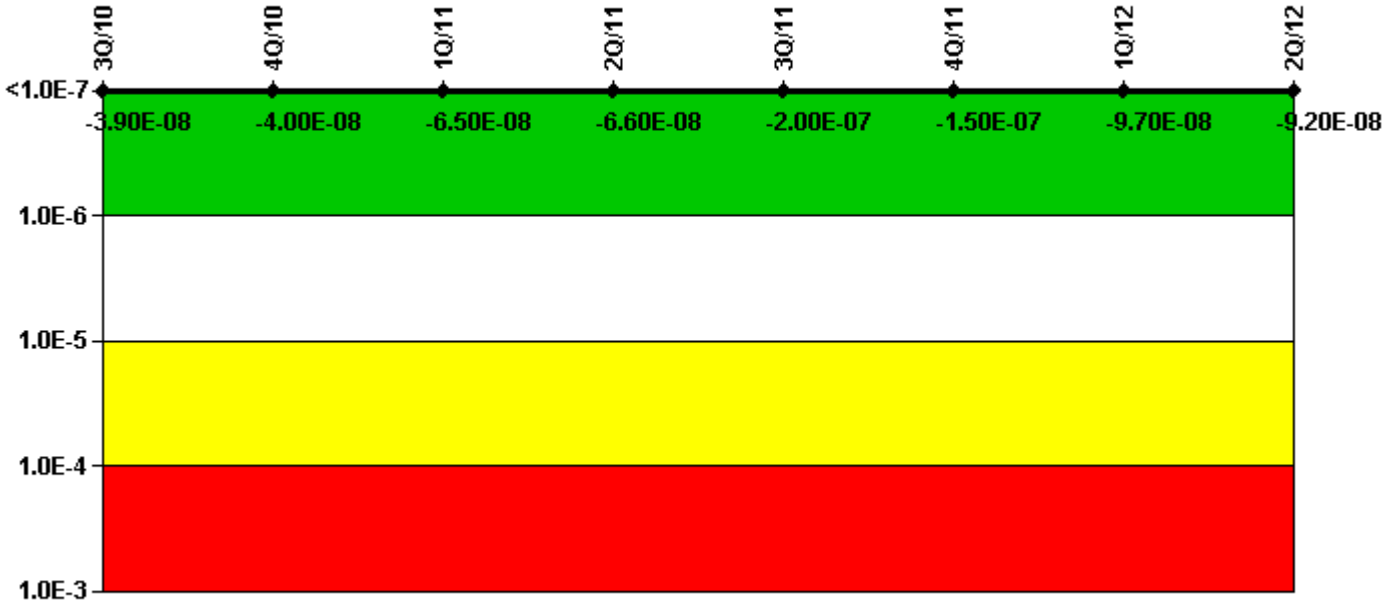
1Q/12: Changed PRA Parameter(s). Revised PRA values and scoping for the PRA Model of Record dated 5/27/11 as recalculated in Calc MDN-000-999-2011-0255 Rev 1 & 2. Errors in calc Rev 0 corrected in CDE back thru 3rd quarter 2011 as required by NEI 99-02. Ref PER 483857.

4Q/11: Changed PRA Parameter(s).

3Q/11: Changed PRA Parameter(s). The calculations to input into MSPI were performed using the current Sequoyah CAFTA PRA Model Rev 0. The PRA Model of Record was revised 5/27/11, updating the PRA model using the CAFTA program. The base numbers used in the MSPI database were also updated in accordance with NEI 99-02 Rev 6. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

3Q/11: Changed PRA Parameter(s). The calculations to input into MSPI were performed using the current Sequoyah CAFTA PRA Model Rev 0. The PRA Model of Record was revised 5/27/11, updating the PRA model using the CAFTA program. The base numbers used in the MSPI database were also updated in accordance with NEI 99-02 Rev 6. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System



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

Notes

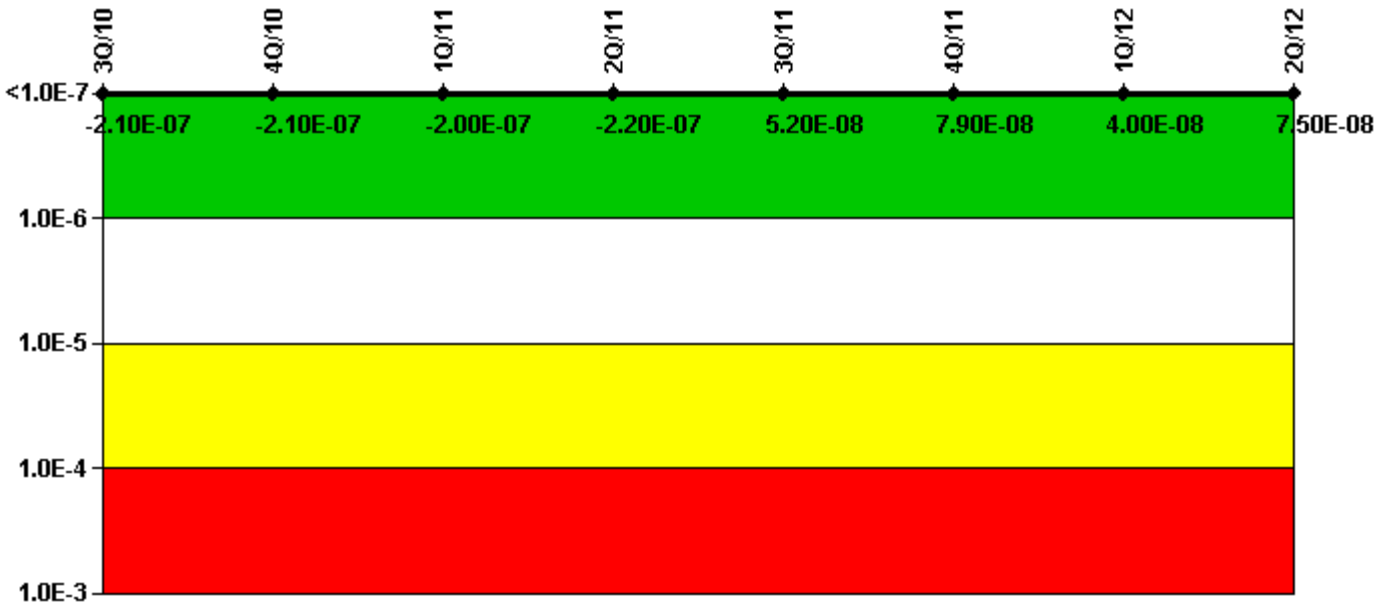
Mitigating Systems Performance Index, Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	2.75E-08	2.86E-08	2.66E-08	2.71E-08	8.35E-08	1.40E-07	1.83E-07	1.83E-07
URI (ΔCDF)	-6.66E-08	-6.86E-08	-9.15E-08	-9.31E-08	-2.86E-07	-2.86E-07	-2.80E-07	-2.75E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.90E-08**	**-4.00E-08**	**-6.50E-08**	**-6.60E-08**	**-2.00E-07**	**-1.50E-07**	**-9.70E-08**	**-9.20E-08**

Licensee Comments:

1Q/12: Revised PRA values and scoping for the PRA Model of Record dated 5/27/11 as recalculated in Calc MDN-000-999-2011-0255 Rev 1 & 2. Errors in calc Rev 0 corrected in CDE back thru 3rd quarter 2011 as required by NEI 99-02. Ref PER 483857.

3Q/11: Changed PRA Parameter(s). The calculations to input into MSPI were performed using the current Sequoyah CAFTA PRA Model Rev 0. The PRA Model of Record was revised 5/27/11, updating the PRA model using the CAFTA program. The base numbers used in the MSPI database were also updated in accordance with NEI 99-02 Rev 6. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

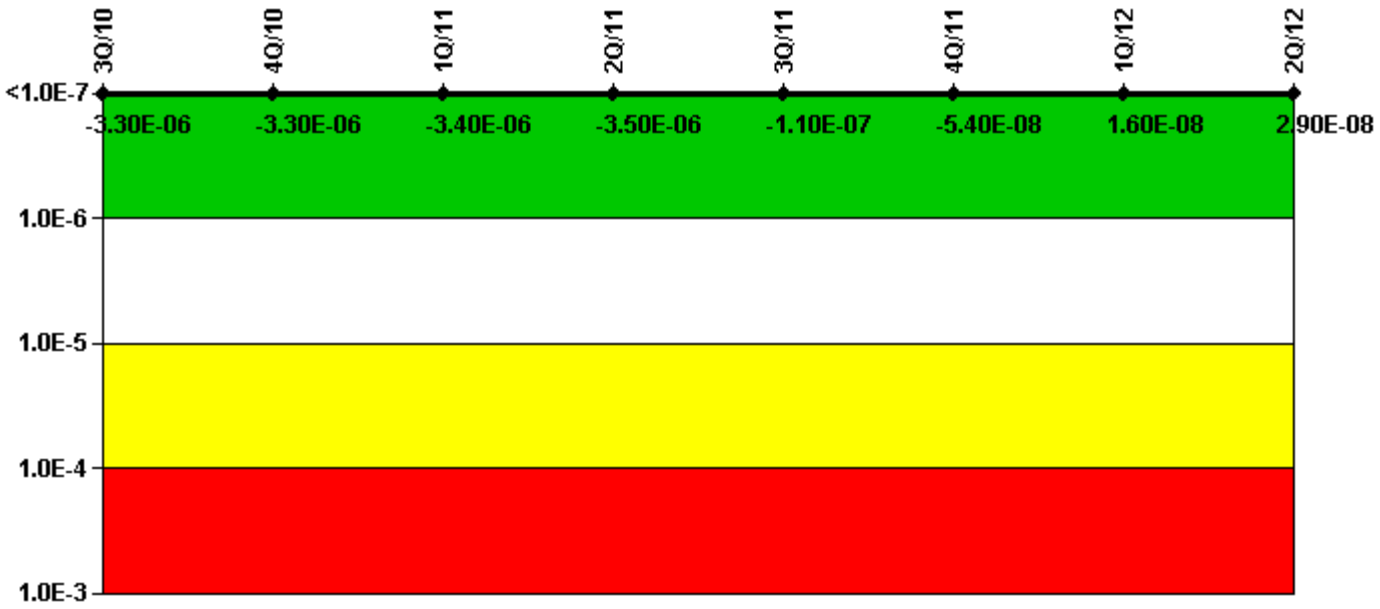
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	1.52E-07	1.55E-07	1.69E-07	1.44E-07	2.27E-07	2.54E-07	2.14E-07	2.49E-07
URI (ΔCDF)	-3.66E-07	-3.66E-07	-3.66E-07	-3.66E-07	-1.75E-07	-1.75E-07	-1.75E-07	-1.75E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-07**	**-2.10E-07**	**-2.00E-07**	**-2.20E-07**	**5.20E-08**	**7.90E-08**	**4.00E-08**	**7.50E-08**

Licensee Comments:

1Q/12: Revised PRA values and scoping for the PRA Model of Record dated 5/27/11 as recalculated in Calc MDN-000-999-2011-0255 Rev 1 & 2. Errors in calc Rev 0 corrected in CDE back thru 3rd quarter 2011 as required by NEI 99-02. Ref PER 483857.

3Q/11: Changed PRA Parameter(s). The calculations to input into MSPI were performed using the current Sequoyah CAFTA PRA Model Rev 0. The PRA Model of Record was revised 5/27/11, updating the PRA model using the CAFTA program. The base numbers used in the MSPI database were also updated in accordance with NEI 99-02 Rev 6. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

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/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-3.15E-06	-3.13E-06	-3.26E-06	-3.26E-06	-3.82E-08	2.09E-08	9.13E-08	1.04E-07
URI (ΔCDF)	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-7.49E-08	-7.49E-08	-7.49E-08	-7.49E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.30E-06**	**-3.30E-06**	**-3.40E-06**	**-3.50E-06**	**-1.10E-07**	**-5.40E-08**	**1.60E-08**	**2.90E-08**

Licensee Comments:

2Q/12: The planned unavailability baselines for all ERCW pumps were adjusted as needed to reflect past and current planned maintenance not performed every 3 years or less as specified by NEI 99-02.

1Q/12: Changed PRA Parameter(s). Revised PRA values and scoping for the PRA Model of Record dated 5/27/11 as recalculated in Calc MDN-000-999-2011-0255 Rev 1 & 2. Errors in calc Rev 0 corrected in CDE back thru 3rd quarter 2011 as required by NEI 99-02. Ref PER 483857. The planned unavailability baselines for all ERCW pumps were adjusted as needed to reflect past and current planned maintenance not performed every 3 years or less as specified by NEI 99-02.

4Q/11: The planned unavailability baselines for all ERCW pumps were adjusted as needed to reflect past and current planned maintenance not performed every 3 years or less as specified by NEI 99-02.

4Q/11: Changed PRA Parameter(s). The planned unavailability baselines for all ERCW pumps were adjusted as needed to reflect past and current planned maintenance not performed every 3 years or less as specified by NEI 99-02.

3Q/11: Changed PRA Parameter(s). The calculations to input into MSPI were performed using the current Sequoyah CAFTA PRA Model Rev 0. The PRA Model of Record was revised 5/27/11, updating the PRA model using the CAFTA program. The base numbers used in the MSPI database were also updated in accordance with NEI 99-02 Rev 6. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. The planned unavailability baselines for all ERCW pumps were changed as needed to

reflect past and current planned maintenance not performed every 3 years or less as specified by NEI 99-02.

3Q/11: Changed PRA Parameter(s). The calculations to input into MSPI were performed using the current Sequoyah CAFTA PRA Model Rev 0. The PRA Model of Record was revised 5/27/11, updating the PRA model using the CAFTA program. The base numbers used in the MSPI database were also updated in accordance with NEI 99-02 Rev 6. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. The planned unavailability baselines for all ERCW pumps were changed as needed to reflect past and current planned maintenance not performed every 3 years or less as specified by NEI 99-02.

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1Q/11: Changed PRA Parameter(s). The planned unavailability baselines for all ERCW pumps were changed as needed to reflect past and current planned maintenance not performed every 3 years or less as specified by NEI 99-02.

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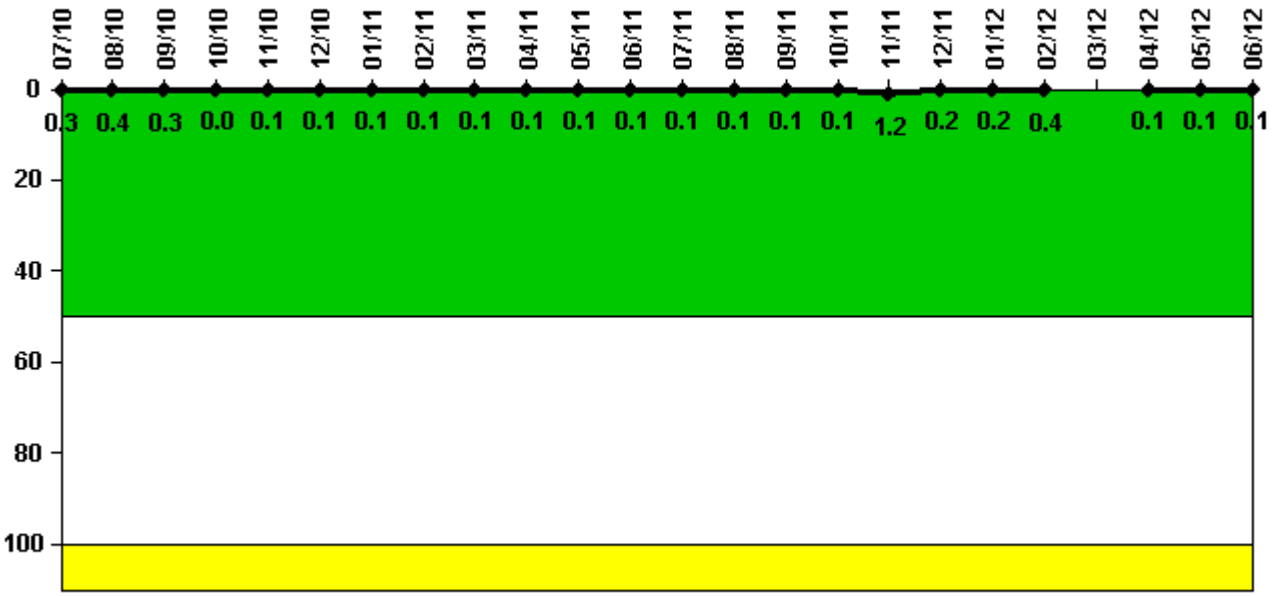
3Q/10: Changed PRA Parameter(s). The planned unavailability baselines for all ERCW pumps were changed as needed to reflect past and current planned maintenance not performed every 3 years or less as specified by NEI 99-02.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

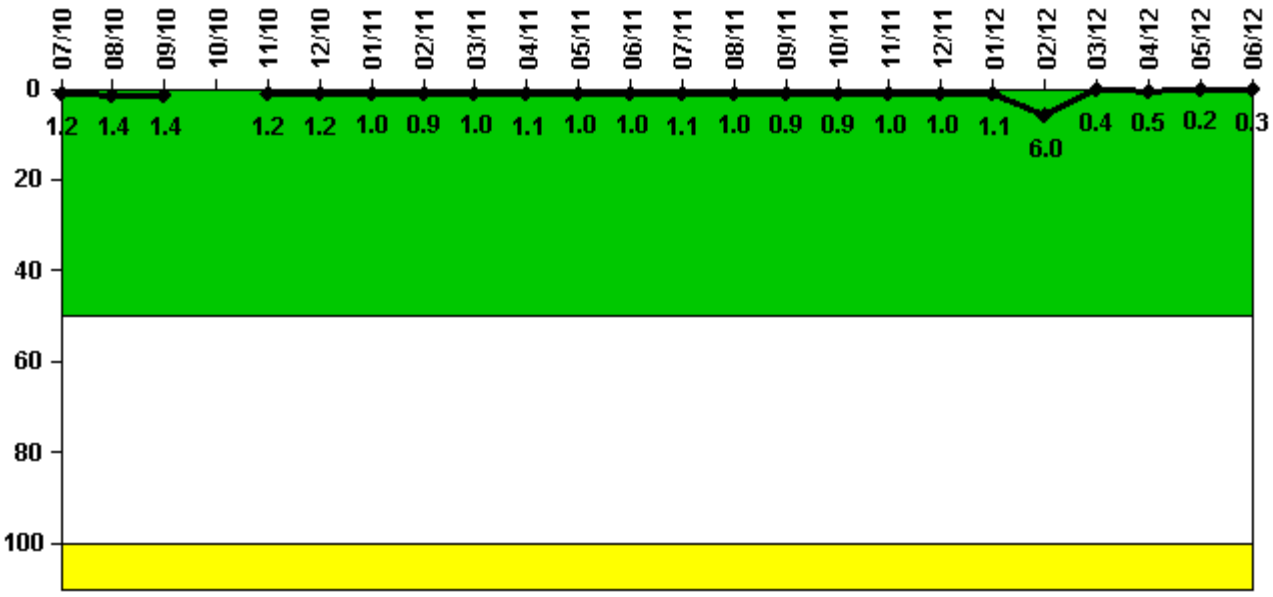
Notes

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	0.001101	0.001251	0.001039	0.000001	0.000275	0.000453	0.000384	0.000512	0.000384	0.000382	0.000392	0.000474
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	**0.3**	**0.4**	**0.3**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum activity	0.000497	0.000500	0.000499	0.000436	0.004270	0.000609	0.000584	0.001269	N/A	0.000284	0.000305	0.000289
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**1.2**	**0.2**	**0.2**	**0.4**	**N/A**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage



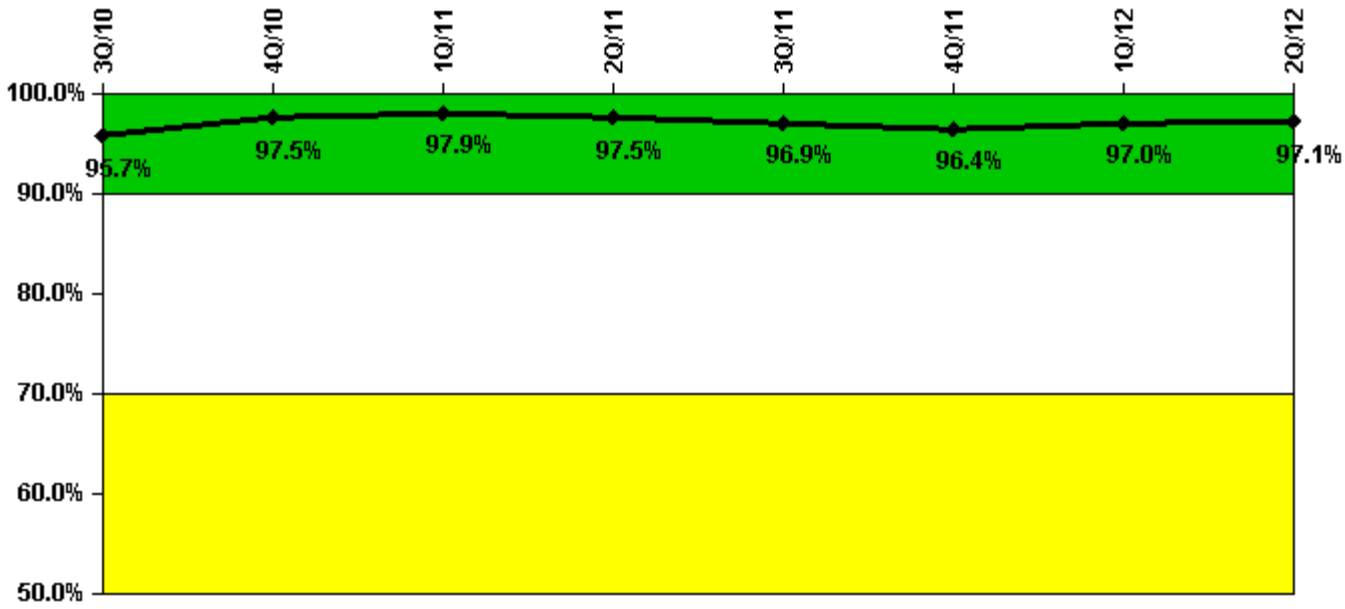
Thresholds: White > 50.0 Yellow > 100.0

Notes

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	0.120	0.140	0.140	N/A	0.120	0.120	0.100	0.090	0.100	0.110	0.100	0.100
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	**1.2**	**1.4**	**1.4**	**N/A**	**1.2**	**1.2**	**1.0**	**0.9**	**1.0**	**1.1**	**1.0**	**1.0**
Reactor Coolant System Leakage	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**
Maximum leakage	0.110	0.100	0.090	0.090	0.100	0.100	0.110	0.600	0.040	0.050	0.020	0.030
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	**1.1**	**1.0**	**0.9**	**0.9**	**1.0**	**1.0**	**1.1**	**6.0**	**0.4**	**0.5**	**0.2**	**0.3**

Licensee Comments: none

Drill/Exercise Performance



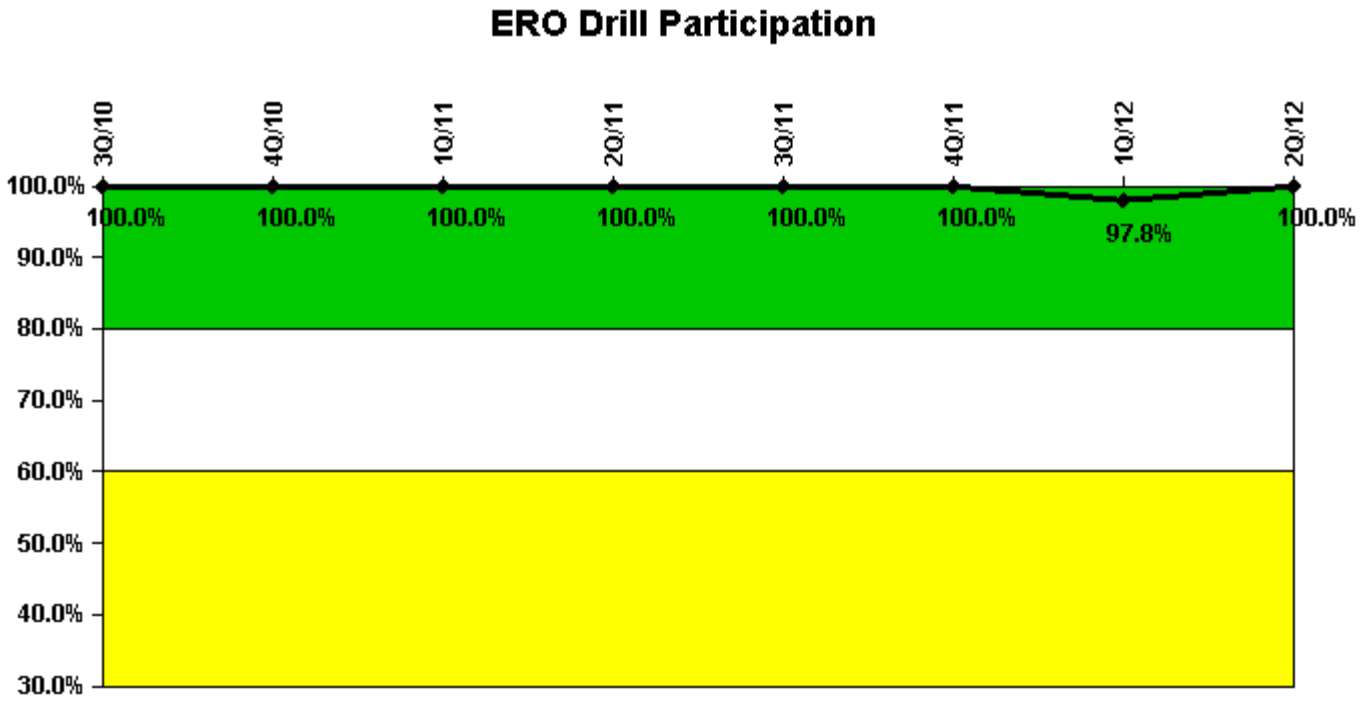
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful opportunities	26.0	45.0	18.0	4.0	34.0	70.0	6.0	32.0
Total opportunities	27.0	46.0	18.0	4.0	36.0	73.0	6.0	32.0
Indicator value	**95.7%**	**97.5%**	**97.9%**	**97.5%**	**96.9%**	**96.4%**	**97.0%**	**97.1%**

Licensee Comments:

3Q/10: Documentation for one previously reported notification opportunity and success could not be retrieved. The issue was documented in the Corrective Action Program.



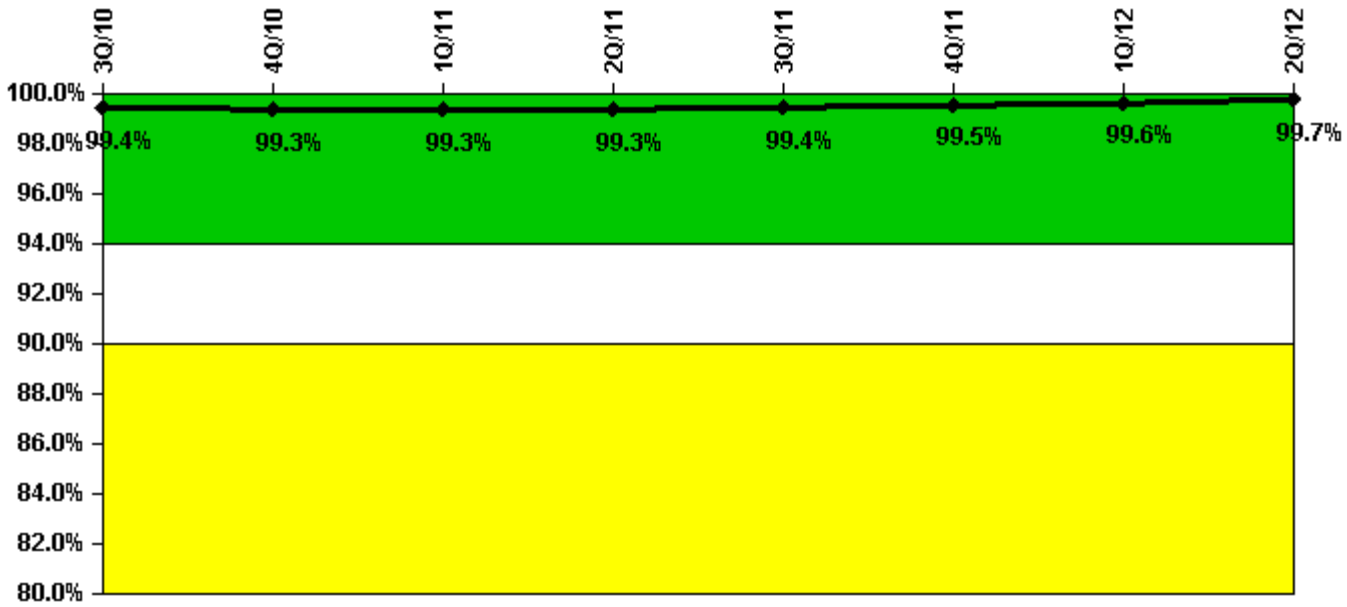
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Participating Key personnel	78.0	70.0	78.0	75.0	74.0	90.0	88.0	99.0
Total Key personnel	78.0	70.0	78.0	75.0	74.0	90.0	90.0	99.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**97.8%**	**100.0%**

Licensee Comments: none

Alert & Notification System



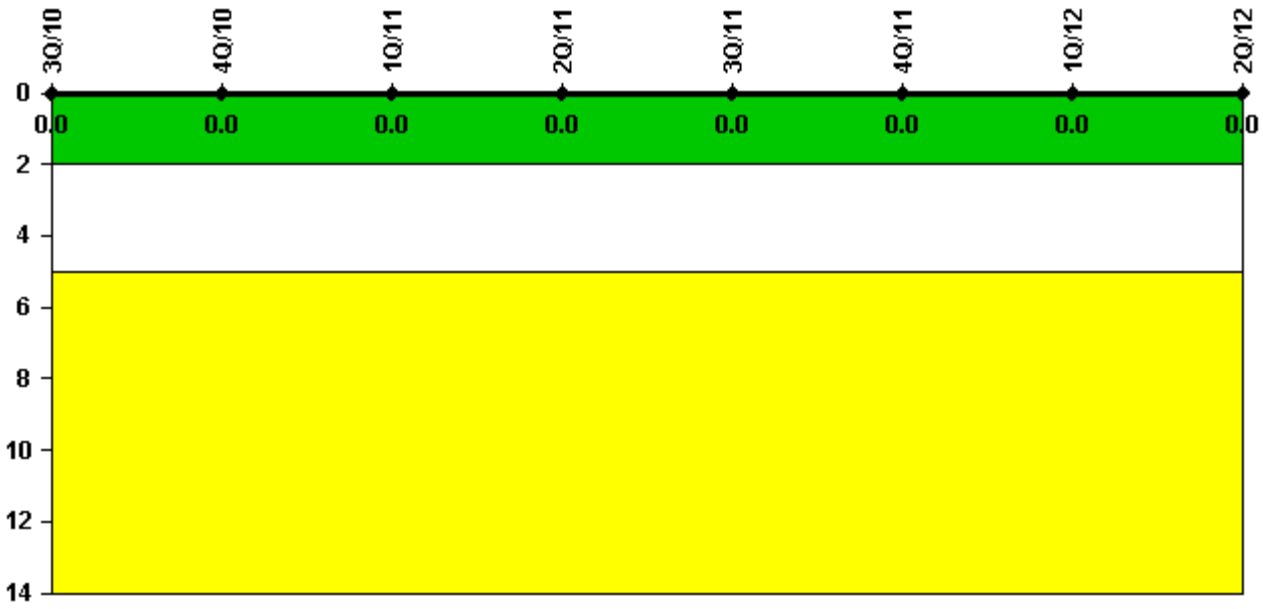
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	747	967	752	967	857	862	863	864
Total sirens-tests	756	972	756	972	864	864	864	864
Indicator value	**99.4%**	**99.3%**	**99.3%**	**99.3%**	**99.4%**	**99.5%**	**99.6%**	**99.7%**

Licensee Comments: none

Occupational Exposure Control Effectiveness



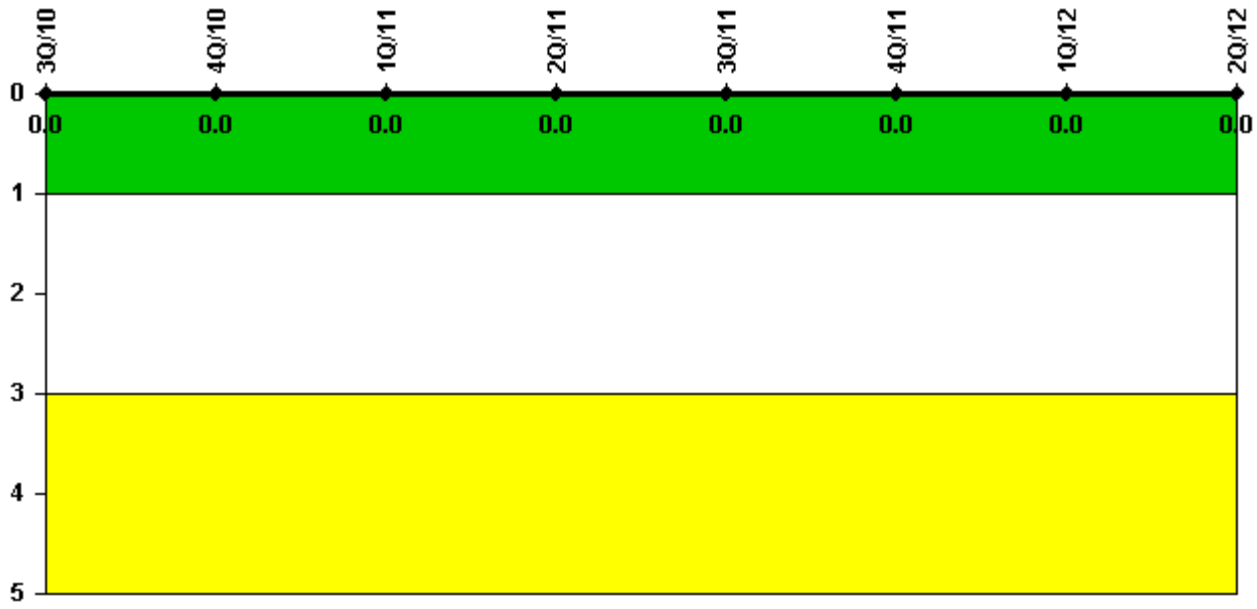
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q / 10	4Q / 10	1Q / 11	2Q / 11	3Q / 11	4Q / 11	1Q / 12	2Q / 12
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
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: July 24, 2012