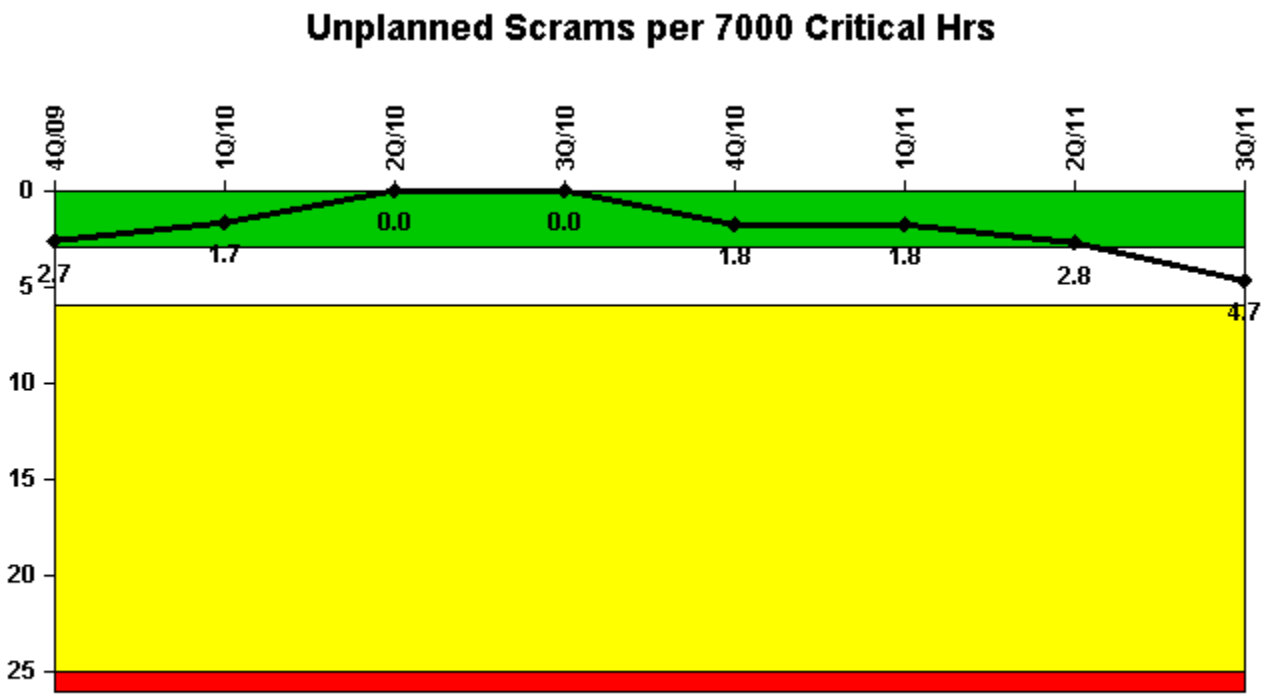
Sequoyah 1

3Q/2011 Performance Indicators

Licensee's General Comments: none



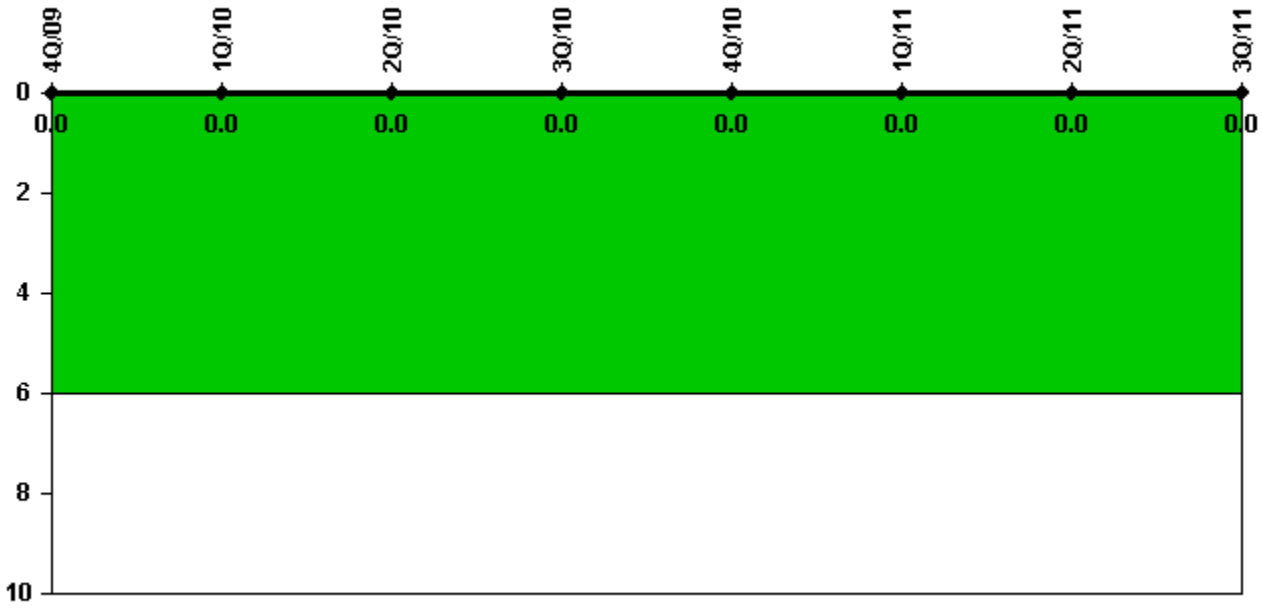
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2.0	0	1.0	2.0
Critical hours	2209.0	2159.0	2184.0	2208.0	1022.1	2159.0	2155.8	2141.4
Indicator value	**2.7**	**1.7**	**0**	**0**	**1.8**	**1.8**	**2.8**	**4.7**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



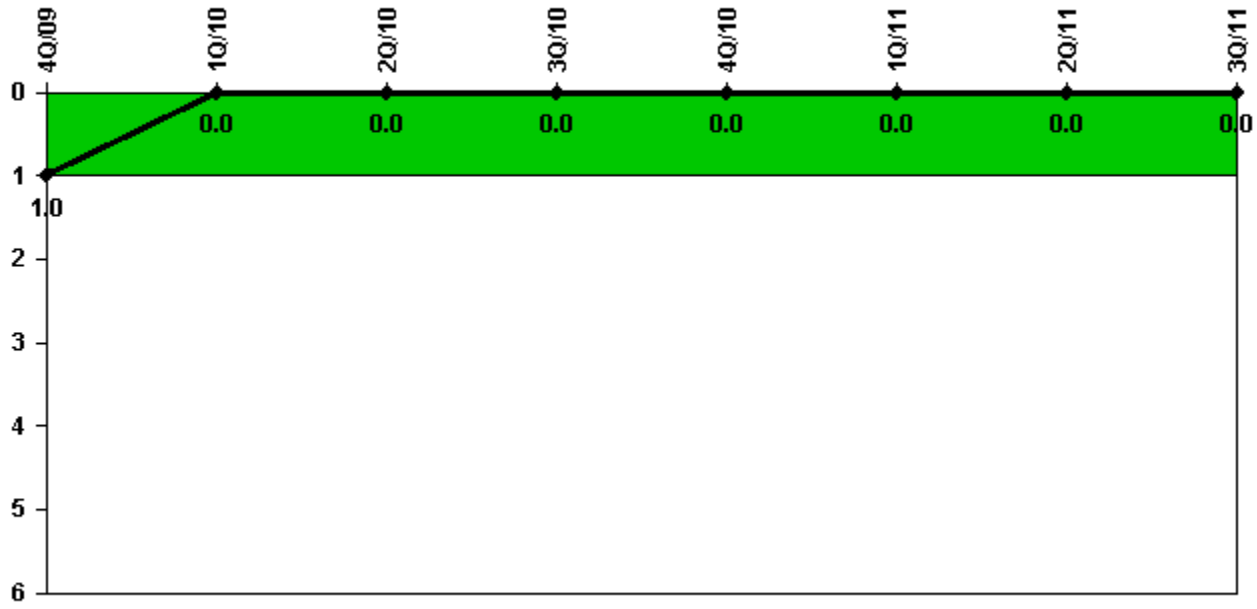
Thresholds: White > 6.0

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	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	1022.1	2159.0	2155.8	2141.4
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications



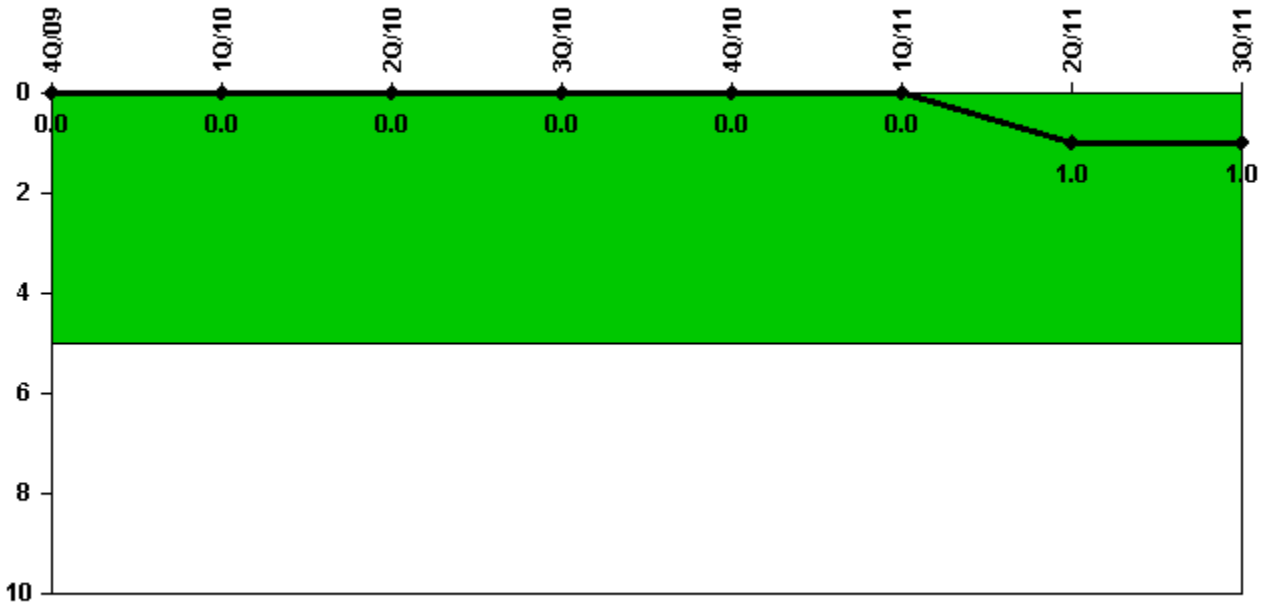
Thresholds: White > 1.0

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	**1.0**	**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

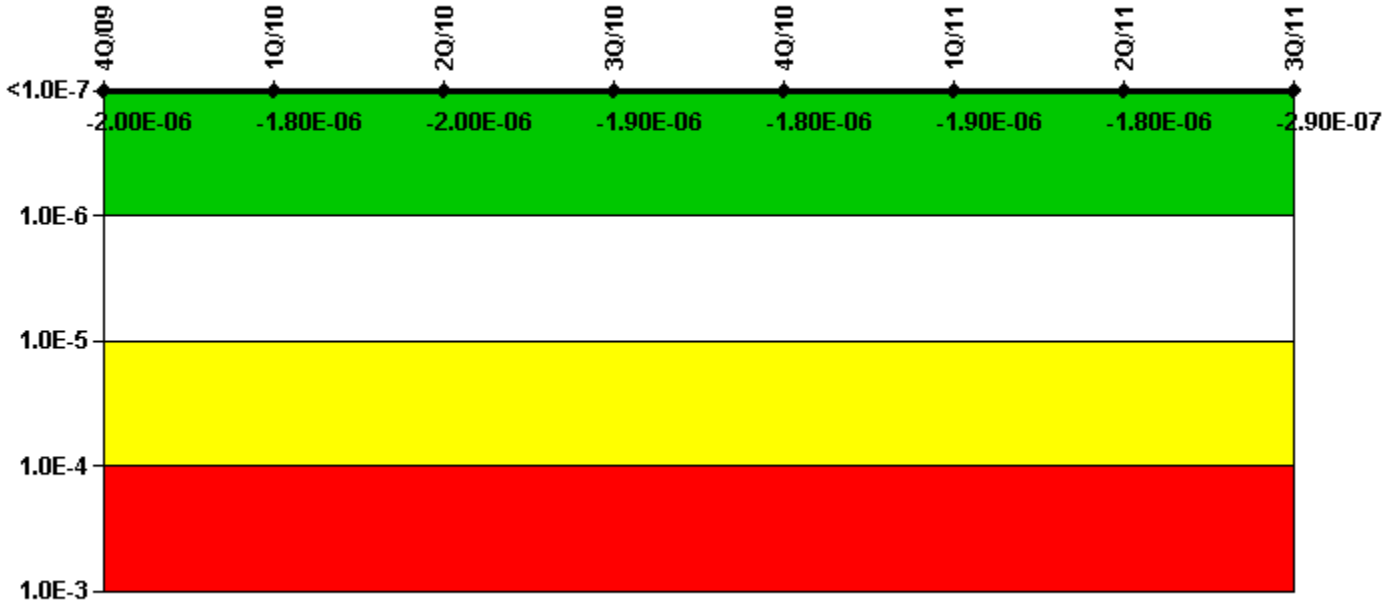
Notes

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

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

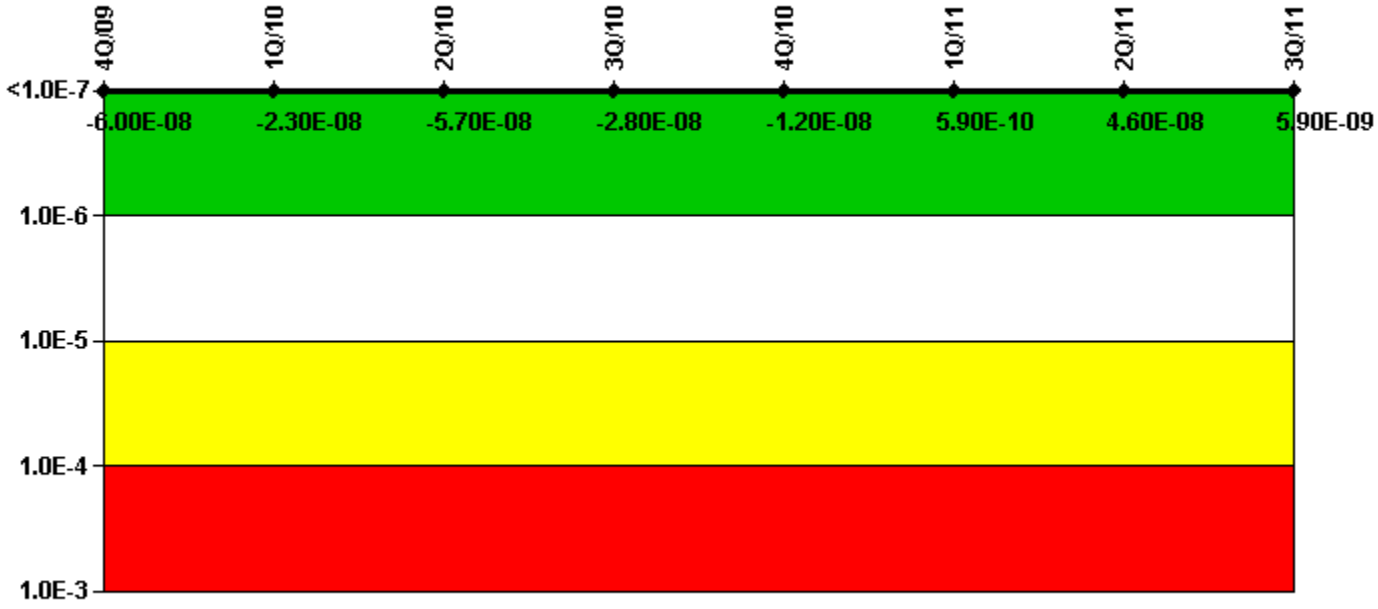
Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	-7.03E-09	2.21E-07	-8.27E-08	-2.14E-08	-1.45E-08	1.02E-08	5.39E-08	-1.17E-08
URI (ΔCDF)	-1.95E-06	-1.98E-06	-1.90E-06	-1.90E-06	-1.83E-06	-1.90E-06	-1.90E-06	-2.74E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-06**	**-1.80E-06**	**-2.00E-06**	**-1.90E-06**	**-1.80E-06**	**-1.90E-06**	**-1.80E-06**	**-2.90E-07**

Licensee Comments:

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

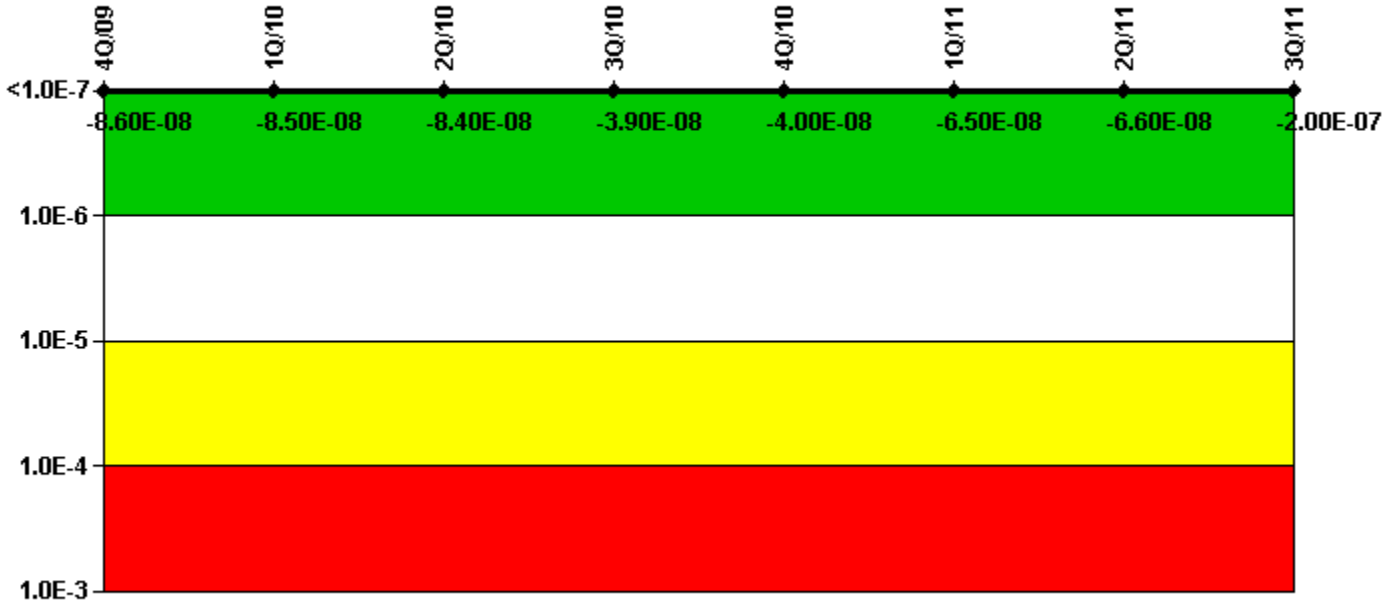
Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	1.11E-07	1.47E-07	1.14E-07	1.43E-07	1.59E-07	1.71E-07	2.17E-07	6.73E-09
URI (ΔCDF)	-1.71E-07	-1.71E-07	-1.71E-07	-1.71E-07	-1.71E-07	-1.71E-07	-1.71E-07	-8.56E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.00E-08**	**-2.30E-08**	**-5.70E-08**	**-2.80E-08**	**-1.20E-08**	**5.90E-10**	**4.60E-08**	**5.90E-09**

Licensee Comments:

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

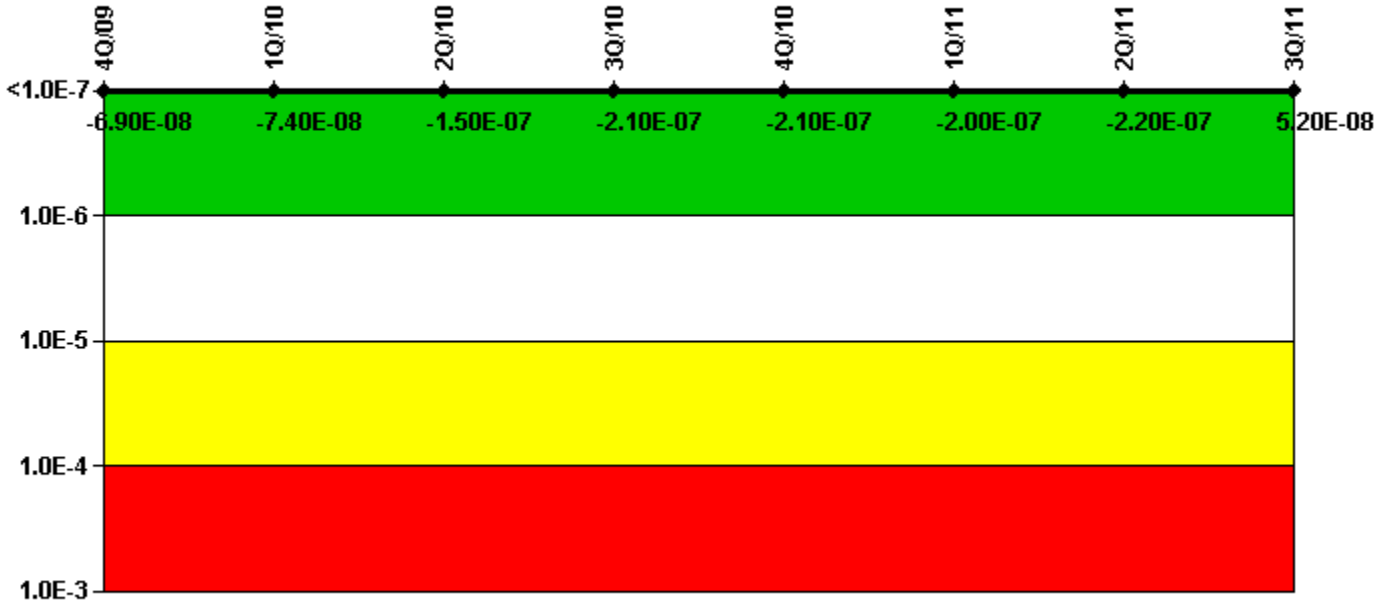
Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	-1.98E-08	-1.85E-08	-1.73E-08	2.75E-08	2.86E-08	2.66E-08	2.71E-08	8.35E-08
URI (ΔCDF)	-6.66E-08	-6.66E-08	-6.66E-08	-6.66E-08	-6.86E-08	-9.15E-08	-9.31E-08	-2.86E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.60E-08**	**-8.50E-08**	**-8.40E-08**	**-3.90E-08**	**-4.00E-08**	**-6.50E-08**	**-6.60E-08**	**-2.00E-07**

Licensee Comments:

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

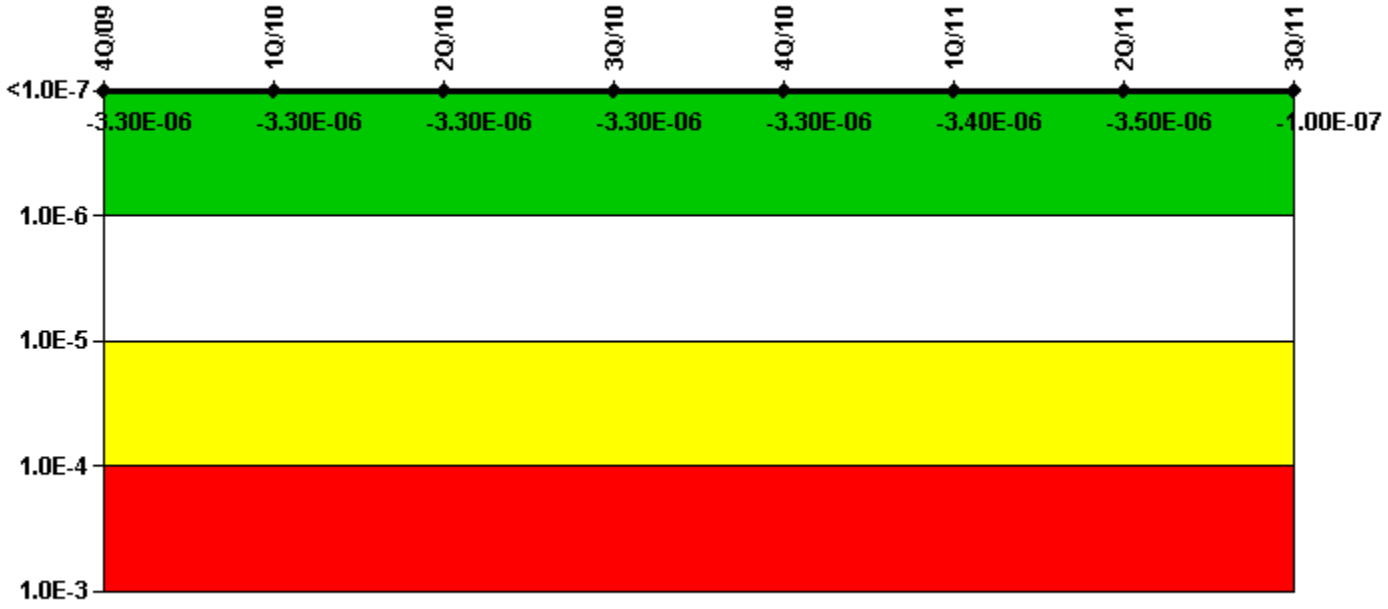
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	2.97E-07	2.92E-07	2.21E-07	1.52E-07	1.55E-07	1.69E-07	1.44E-07	2.27E-07
URI (ΔCDF)	-3.66E-07	-3.66E-07	-3.66E-07	-3.66E-07	-3.66E-07	-3.66E-07	-3.66E-07	-1.75E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.90E-08**	**-7.40E-08**	**-1.50E-07**	**-2.10E-07**	**-2.10E-07**	**-2.00E-07**	**-2.20E-07**	**5.20E-08**

Licensee Comments:

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	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	-3.13E-06	-3.12E-06	-3.15E-06	-3.15E-06	-3.13E-06	-3.26E-06	-3.26E-06	-3.82E-08
URI (ΔCDF)	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-6.65E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.30E-06**	**-3.30E-06**	**-3.30E-06**	**-3.30E-06**	**-3.30E-06**	**-3.40E-06**	**-3.50E-06**	**-1.00E-07**

Licensee Comments:

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.

2Q/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.

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.

4Q/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.

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.

2Q/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.

1Q/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.

4Q/09: 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.

3Q/09: Changed PRA Parameter(s).

2Q/09: Changed PRA Parameter(s).

1Q/09: Changed PRA Parameter(s). Routine planned unavailability baseline update.

4Q/08: Changed PRA Parameter(s).

3Q/08: Changed PRA Parameter(s). Adjusted planned unavailability baselines for non-routine planned maintenance on ERCW pumps.

2Q/08: Changed PRA Parameter(s).

1Q/08: Changed PRA Parameter(s). Adjusted the planned unavailability baselines for non-routine maintenance that occurred this quarter and removed that which occurred more than 12 quarters ago.

4Q/07: Changed PRA Parameter(s). 1) Rebuild of ERCW Pump Q-A started 12/09/07 to complete the end of January. Planned unavailability baseline for 4th quarter adjusted accordingly. 2) C-B Traveling Screen rebuild started in Sept & extended into Oct. Planned unavailability baseline for ERCW N-B & P-B pumps adjusted accordingly. 3) All ERCW pump planned unavailability baselineS may have been adjusted due to applicable maintenance that occurred over 3 years ago and had ajusted the baseline(s).

3Q/07: Changed PRA Parameter(s).

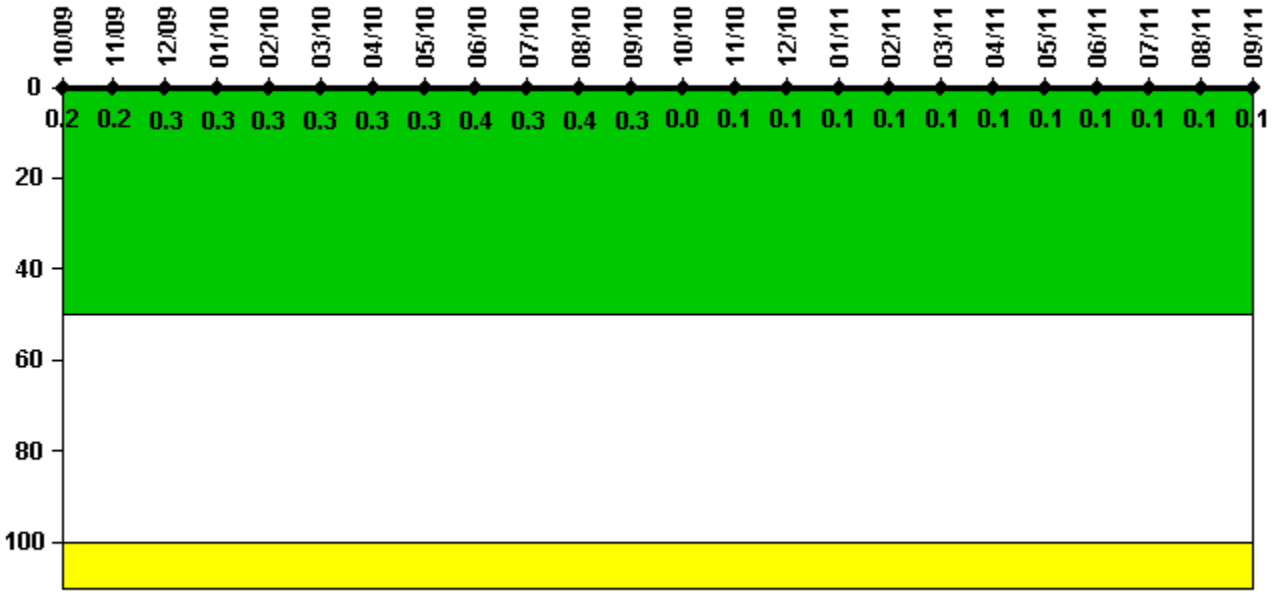
2Q/07: Changed PRA Parameter(s).

1Q/07: Changed PRA Parameter(s). Updated the Planned Unavailability baselines for non-routine planned Maint.

4Q/06: Changed PRA Parameter(s). Corrected Planned Unavailability Baseline.

3Q/06: Changed PRA Parameter(s). Corrected Planned Unavailability Baseline.

Reactor Coolant System Activity



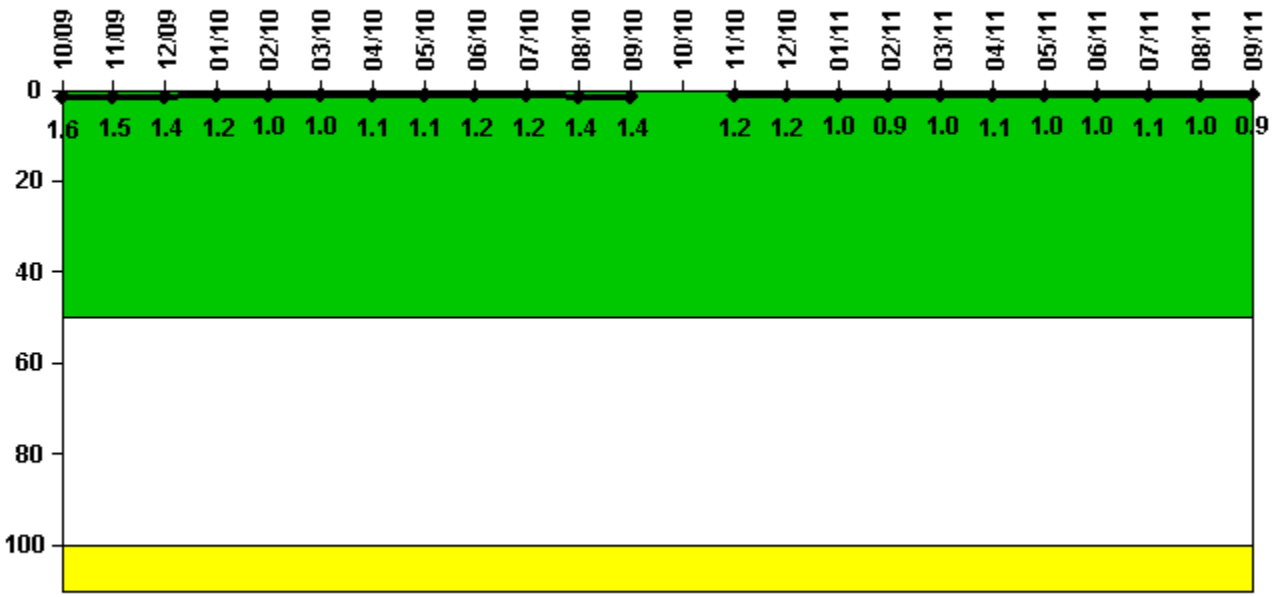
Thresholds: White > 50.0 Yellow > 100.0

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	0.000850	0.000852	0.000917	0.000924	0.000992	0.001093	0.000958	0.001019	0.001407	0.001101	0.001251	0.001039
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	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.3**	**0.4**	**0.3**
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	0.000001	0.000275	0.000453	0.000384	0.000512	0.000384	0.000382	0.000392	0.000474	0.000497	0.000500	0.000499
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**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage



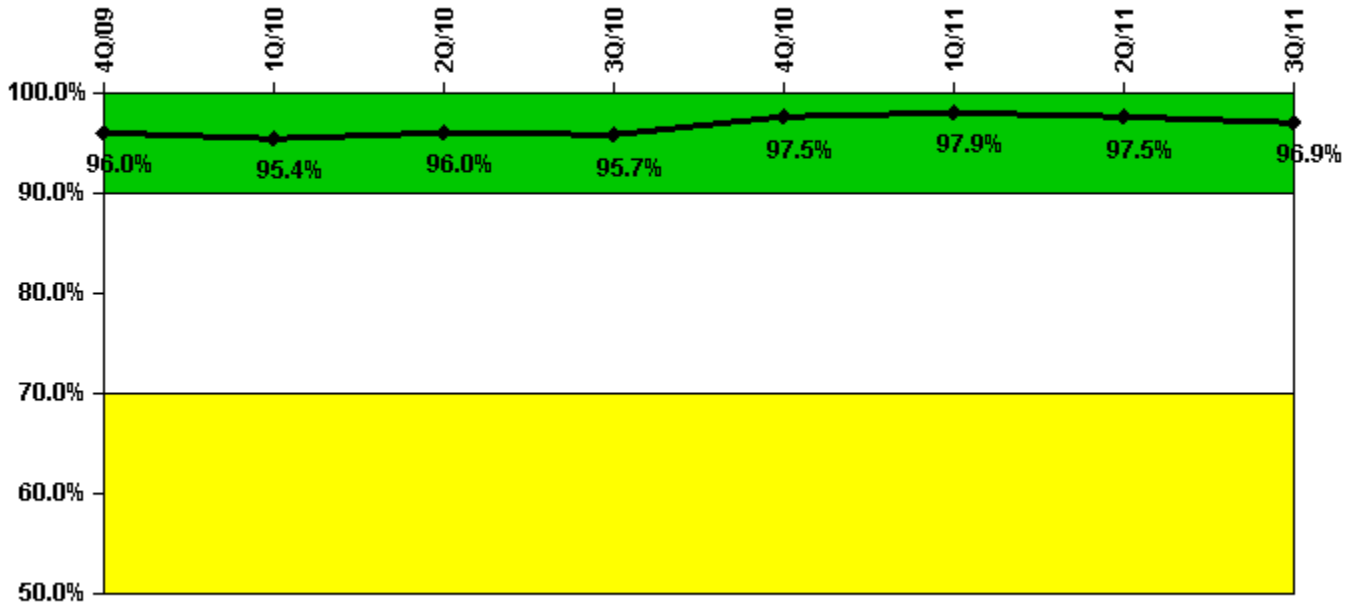
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.160	0.150	0.140	0.120	0.100	0.100	0.110	0.110	0.120	0.120	0.140	0.140
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	**1.6**	**1.5**	**1.4**	**1.2**	**1.0**	**1.0**	**1.1**	**1.1**	**1.2**	**1.2**	**1.4**	**1.4**
Reactor Coolant System Leakage	**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 leakage	N/A	0.120	0.120	0.100	0.090	0.100	0.110	0.100	0.100	0.110	0.100	0.090
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	**N/A**	**1.2**	**1.2**	**1.0**	**0.9**	**1.0**	**1.1**	**1.0**	**1.0**	**1.1**	**1.0**	**0.9**

Licensee Comments: none

Drill/Exercise Performance



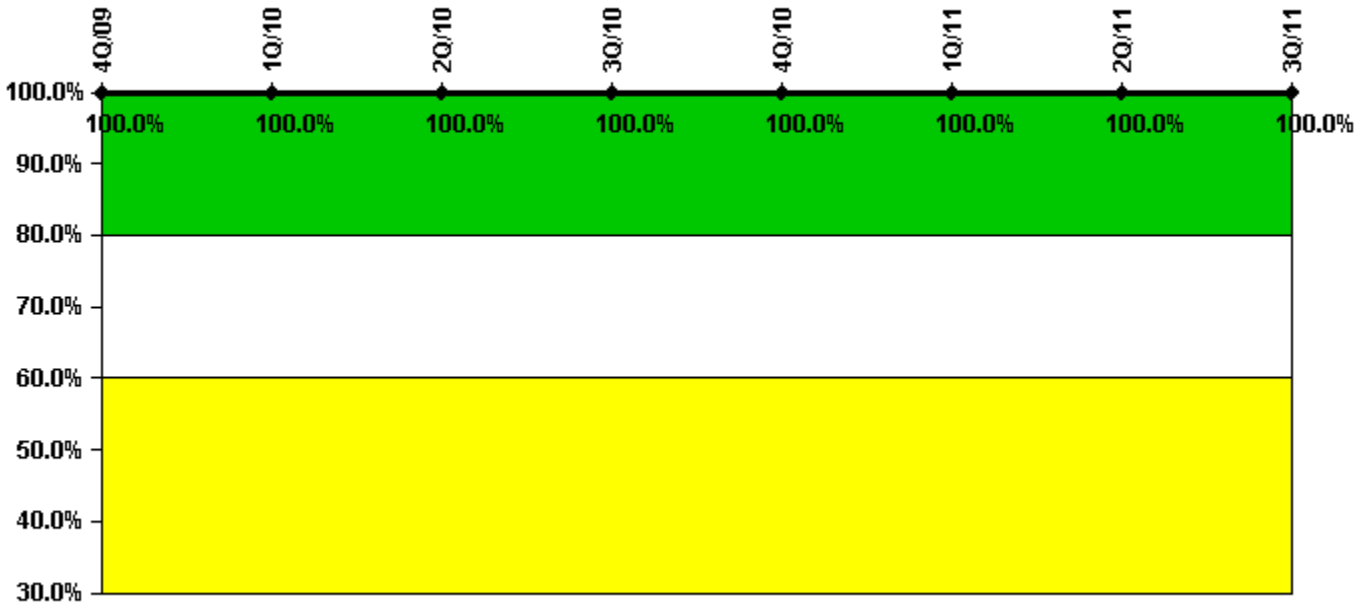
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful opportunities	16.0	20.0	22.0	26.0	45.0	18.0	4.0	34.0
Total opportunities	16.0	22.0	22.0	27.0	46.0	18.0	4.0	36.0
Indicator value	**96.0%**	**95.4%**	**96.0%**	**95.7%**	**97.5%**	**97.9%**	**97.5%**	**96.9%**

Licensee Comments: none

ERO Drill Participation



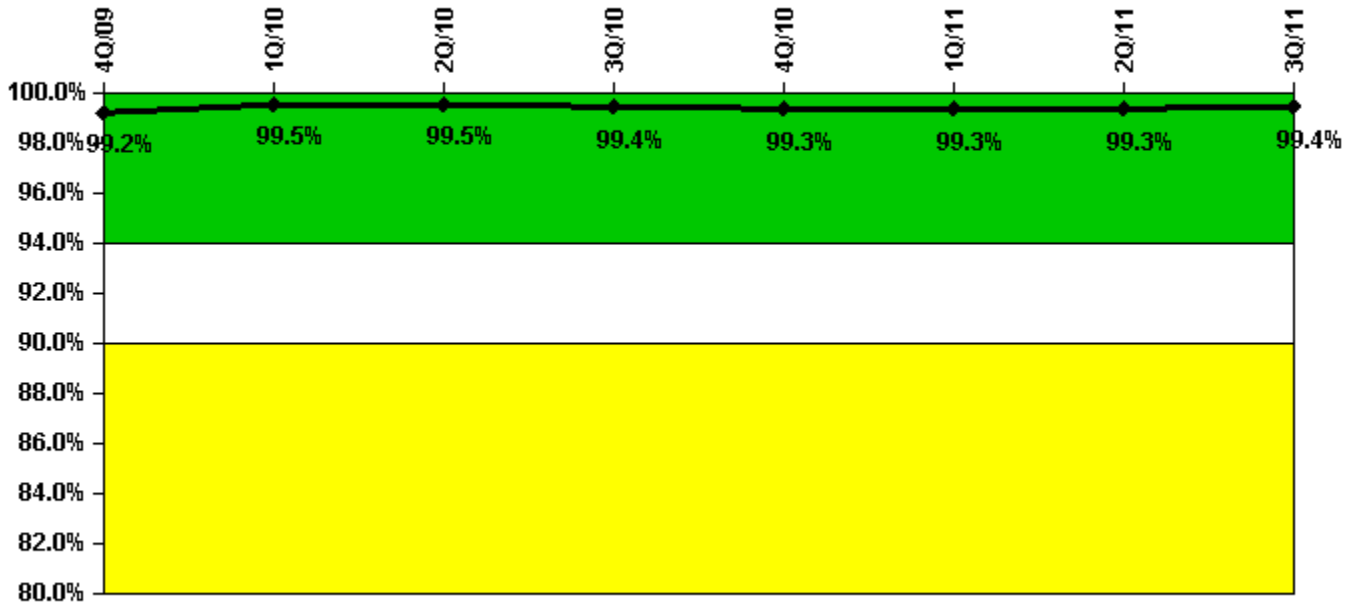
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Participating Key personnel	79.0	77.0	76.0	78.0	70.0	78.0	75.0	74.0
Total Key personnel	79.0	77.0	76.0	78.0	70.0	78.0	75.0	74.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System



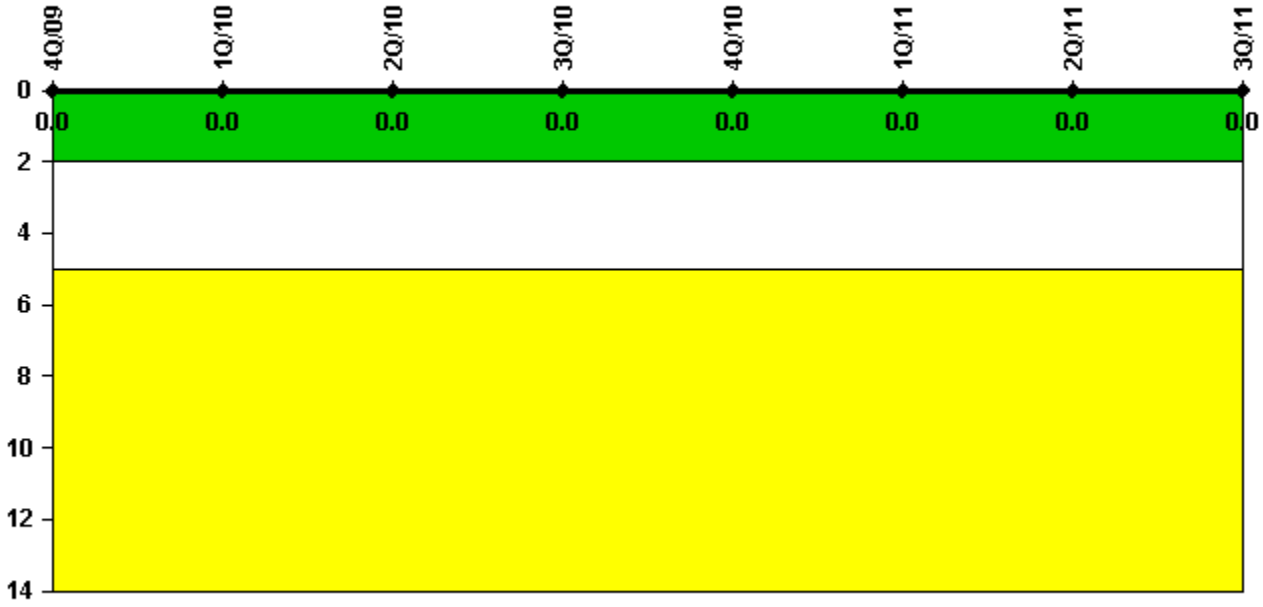
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	969	751	967	747	967	752	967	857
Total sirens-tests	972	756	972	756	972	756	972	864
Indicator value	**99.2%**	**99.5%**	**99.5%**	**99.4%**	**99.3%**	**99.3%**	**99.3%**	**99.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness



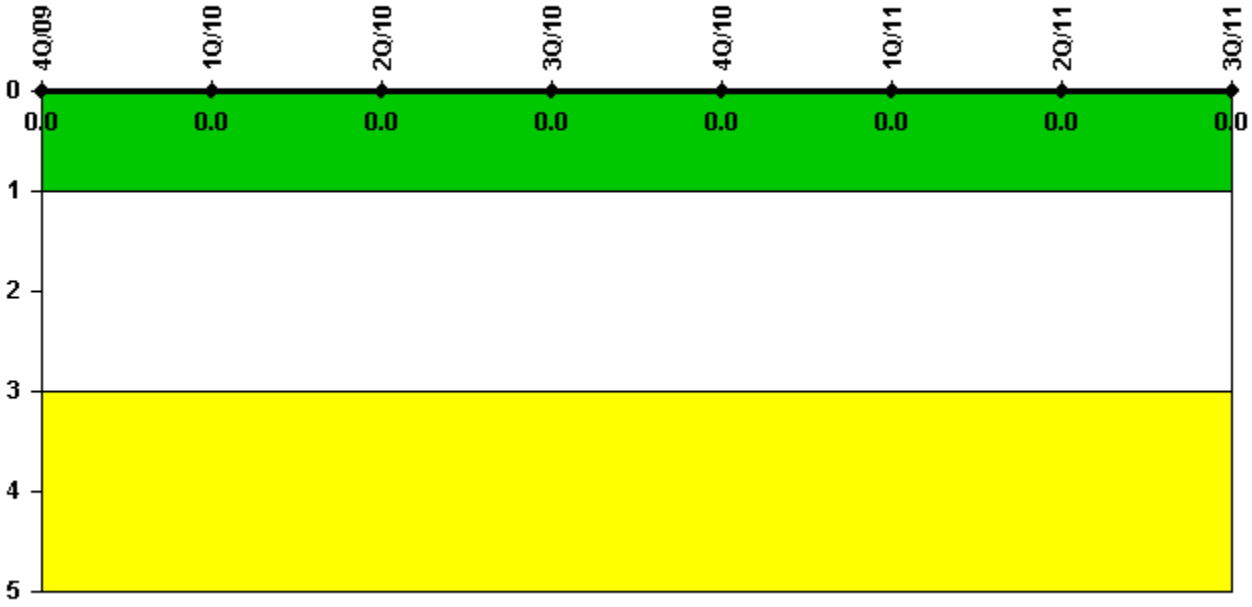
Thresholds: White > 2.0 Yellow > 5.0

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
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	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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: November 29, 2011