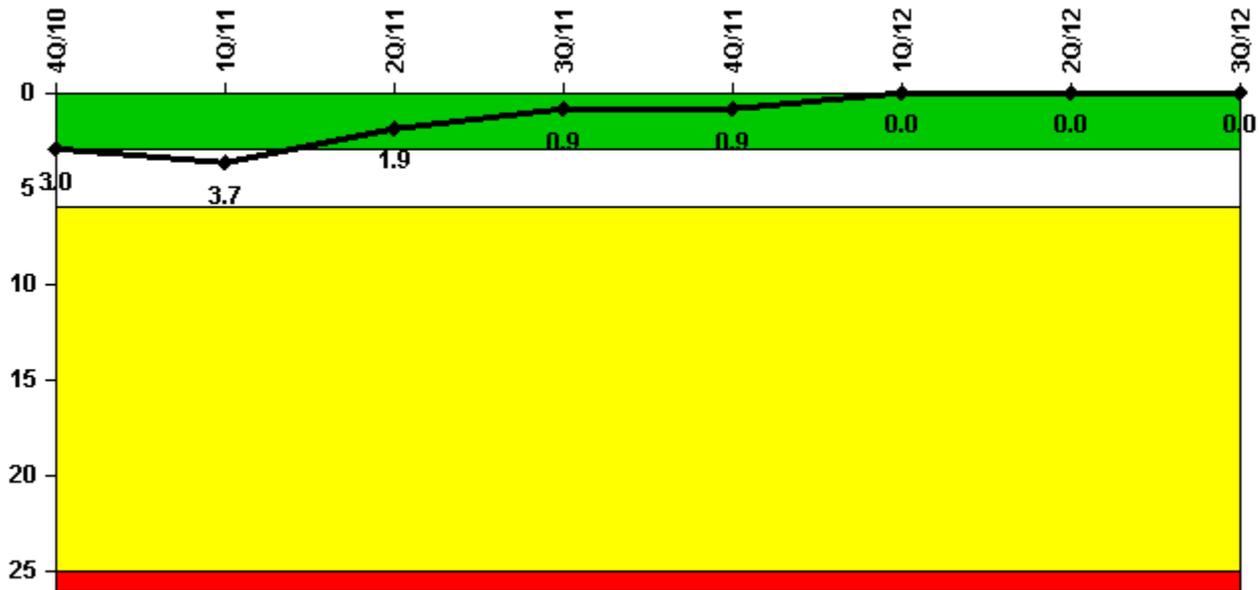


Susquehanna 1

3Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

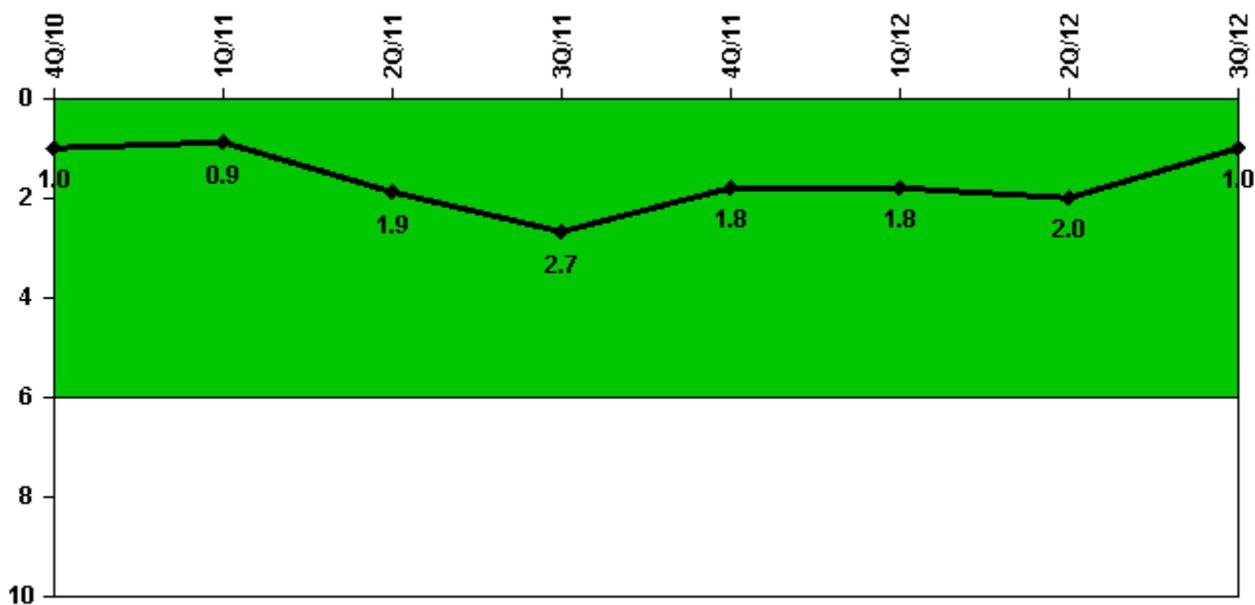
Unplanned Scrams per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	1981.8	1291.5	2208.0	2209.0	2165.2	353.0	2208.0
Indicator value	3.0	3.7	1.9	0.9	0.9	0	0	0

Licensee Comments:

1Q/12: Supplemental LER's 50-387/2011-002-01, 50-387/2010-002-02, and 50-387/2010-003-03 were submitted in February 2012 to provide updated information related to the previously reported unplanned scrams at Susquehanna Unit 1 in April, May, July 2010, and January 2011.

1Q/11: Within the last four quarters, Susquehanna Unit 1 has experienced four reactor scrams. These events cause the NRC IE01 Unplanned Scrams per 7000 Critical Hours PI to cross the GREEN/WHITE threshold.

Unplanned Power Changes per 7000 Critical Hrs



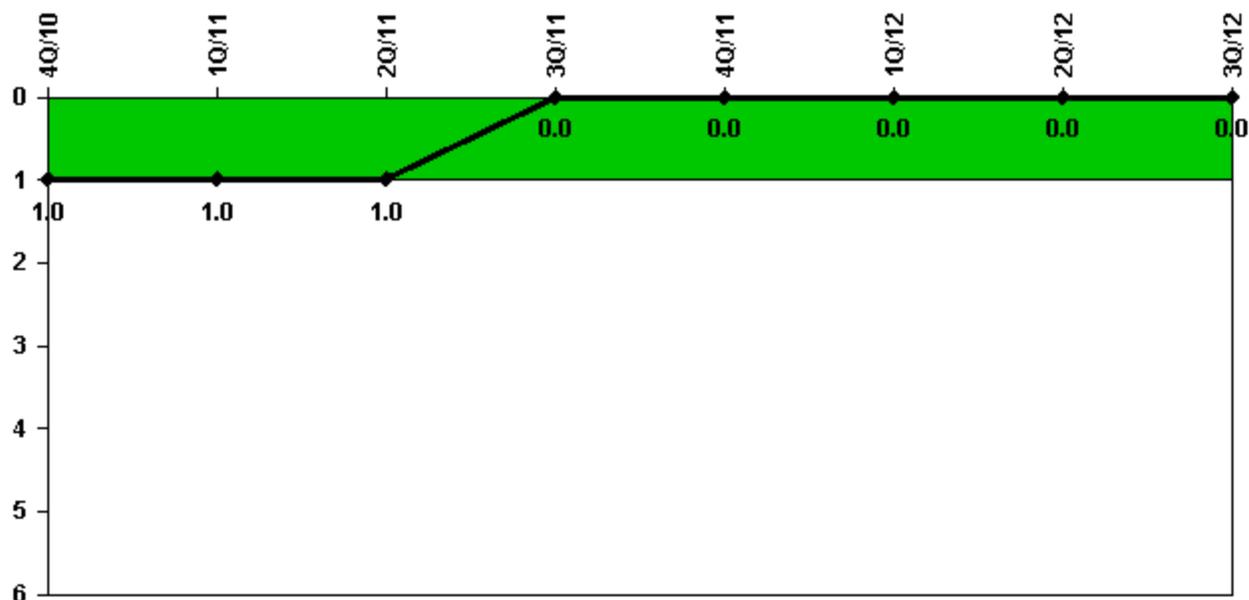
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	1.0	0	1.0	1.0	0	0	1.0	0
Critical hours	2209.0	1981.8	1291.5	2208.0	2209.0	2165.2	353.0	2208.0
Indicator value	1.0	0.9	1.9	2.7	1.8	1.8	2.0	1.0

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

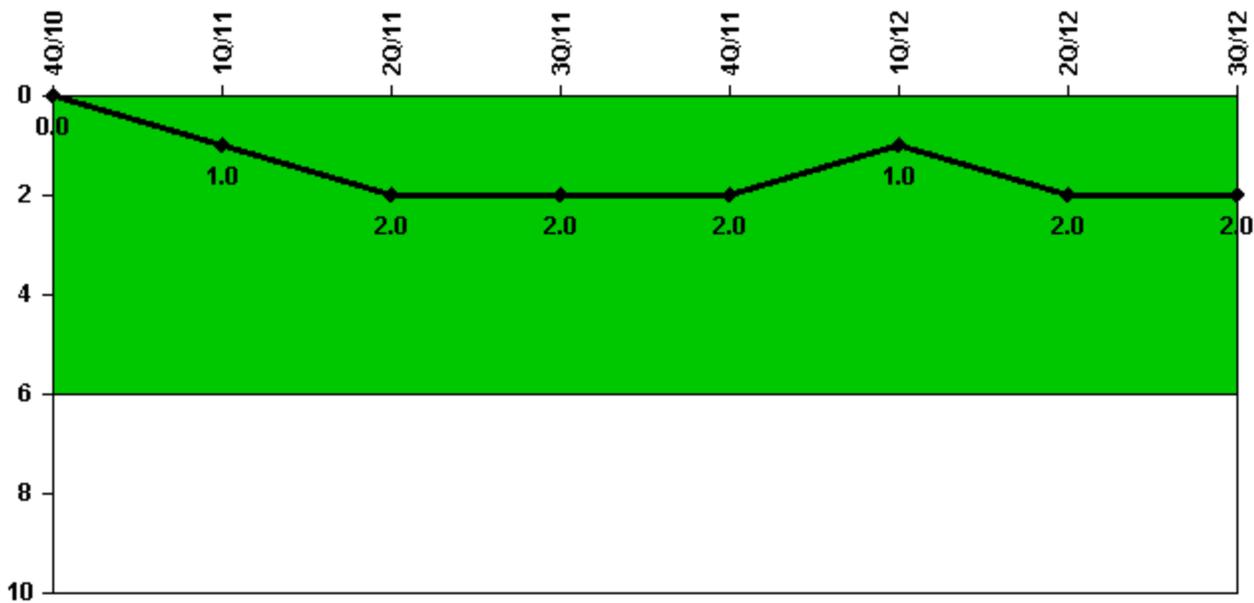
Notes

Unplanned Scrams with Complications	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments:

4Q/10: The 3rd quarter 2010 data is revised from 0 to 1 Unplanned Scram with Complications based on the July 16, 2010 Unit 1 shutdown (LER 2010-003-00) which was previously reported as an Unplanned Scram per 7,000 Critical Hours. During the fourth quarter of 2010 it was determined that this scram should be reclassified as an Unplanned Scram with Complications, in accordance with NEI 99-02, Regulatory Assessment Performance Indicator Guideline. There is no safety significance associated with this change, and the color of both the Unit 1 Unplanned Scram per 7,000 Critical Hours and the Unit 1 Unplanned Scram with Complications performance indicators remains Green.

Safety System Functional Failures (BWR)



Thresholds: White > 6.0

Notes

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

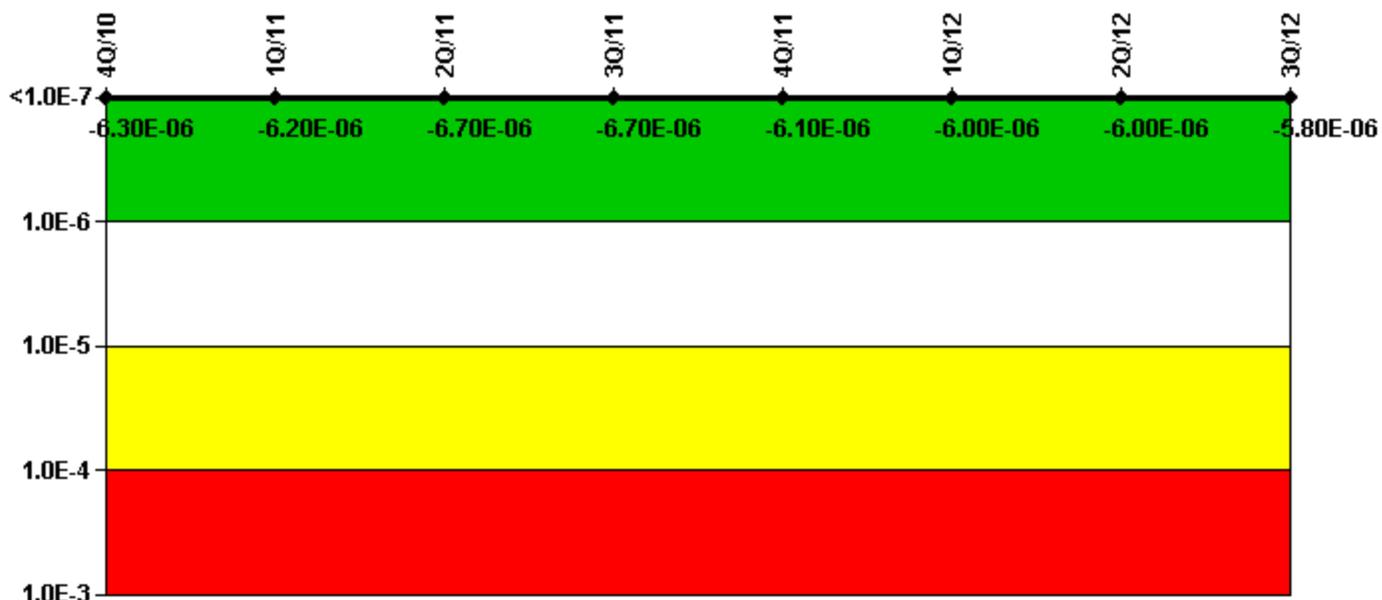
Licensee Comments:

2Q/12: LER 387/2012-001-00, Both Control Structure Chillers Inoperable, was submitted on May 23, 2012. LER 387/2012-002-00, "B" Control Structure Chiller Inoperable Concurrent with "A" Emergency Diesel Generator Out of Service, was submitted to the NRC on June 4, 2012.

2Q/11: LER 50-387/2011-003, HPCI Valve Packing, was submitted to the NRC on April 26, 2011.

1Q/11: LER 50-387/2011-001, Single Point Vulnerability, was submitted to the NRC on March 2, 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/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-2.88E-08	-1.85E-08	-2.11E-08	3.96E-10	1.92E-07	1.92E-07	2.13E-07	2.04E-07
URI (Δ CDF)	-6.23E-06	-6.19E-06	-6.72E-06	-6.75E-06	-6.25E-06	-6.24E-06	-6.18E-06	-6.03E-06
PLE	NO							
Indicator value	-6.30E-06	-6.20E-06	-6.70E-06	-6.70E-06	-6.10E-06	-6.00E-06	-6.00E-06	-5.80E-06

Licensee Comments:

3Q/12: Risk Cap Invoked.

2Q/12: Risk Cap Invoked.

1Q/12: Risk Cap Invoked.

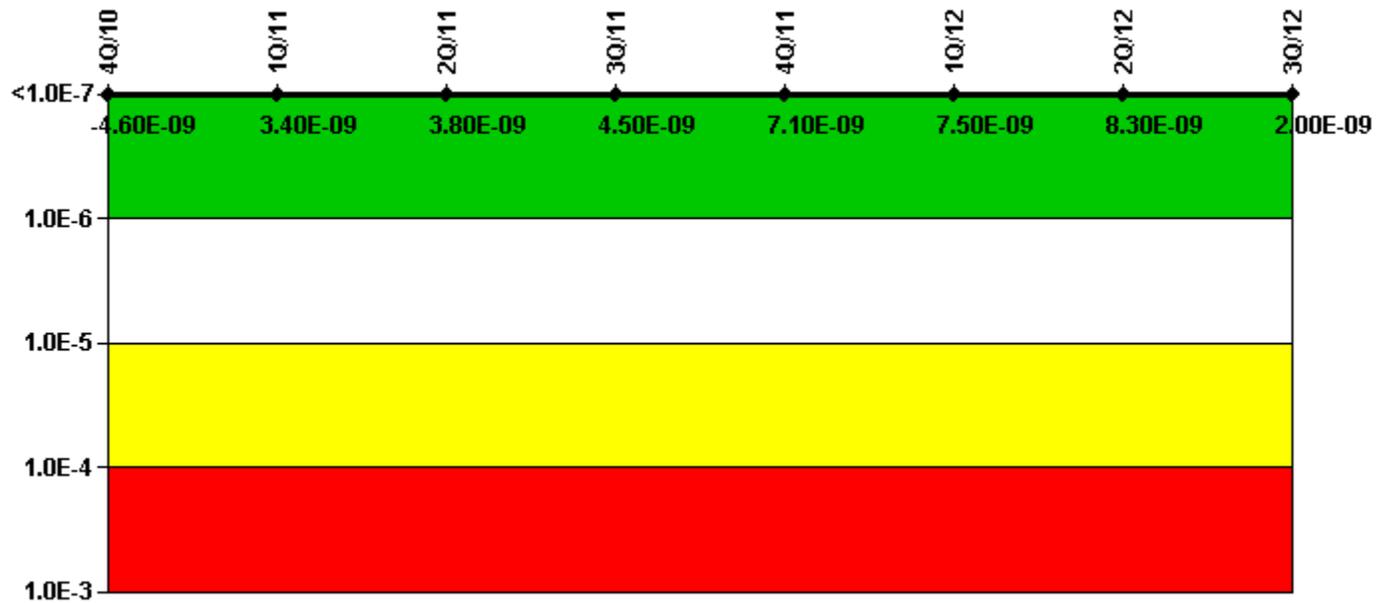
4Q/11: Risk Cap Invoked. The 3Q2011 Emergency AC Power System data is revised to include additional unavailable hours for the "C" diesel generator in September 2011. There is no safety significance associated with this change. The PI color was green before the data revision and it remains green after the change.

1Q/11: Risk Cap Invoked.

4Q/10: Risk Cap Invoked. Changed PRA Parameter(s). The Emergency Diesel Generator data previously reported for the first, second, and third quarters of 2010 is revised based on changed PRA parameters and the resulting

revision to the MSPI coefficients in the SSES MSPI Basis Document. There is no safety significance associated with this change, and the color of the current Emergency Diesel Generator Performance Indicator remains Green.

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/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	2.00E-09	1.00E-08	1.04E-08	1.11E-08	1.40E-08	1.42E-08	1.50E-08	8.70E-09
URI (Δ CDF)	-6.63E-09	-6.61E-09	-6.61E-09	-6.61E-09	-6.89E-09	-6.67E-09	-6.71E-09	-6.71E-09
PLE	NO							
Indicator value	-4.60E-09	3.40E-09	3.80E-09	4.50E-09	7.10E-09	7.50E-09	8.30E-09	2.00E-09

Licensee Comments:

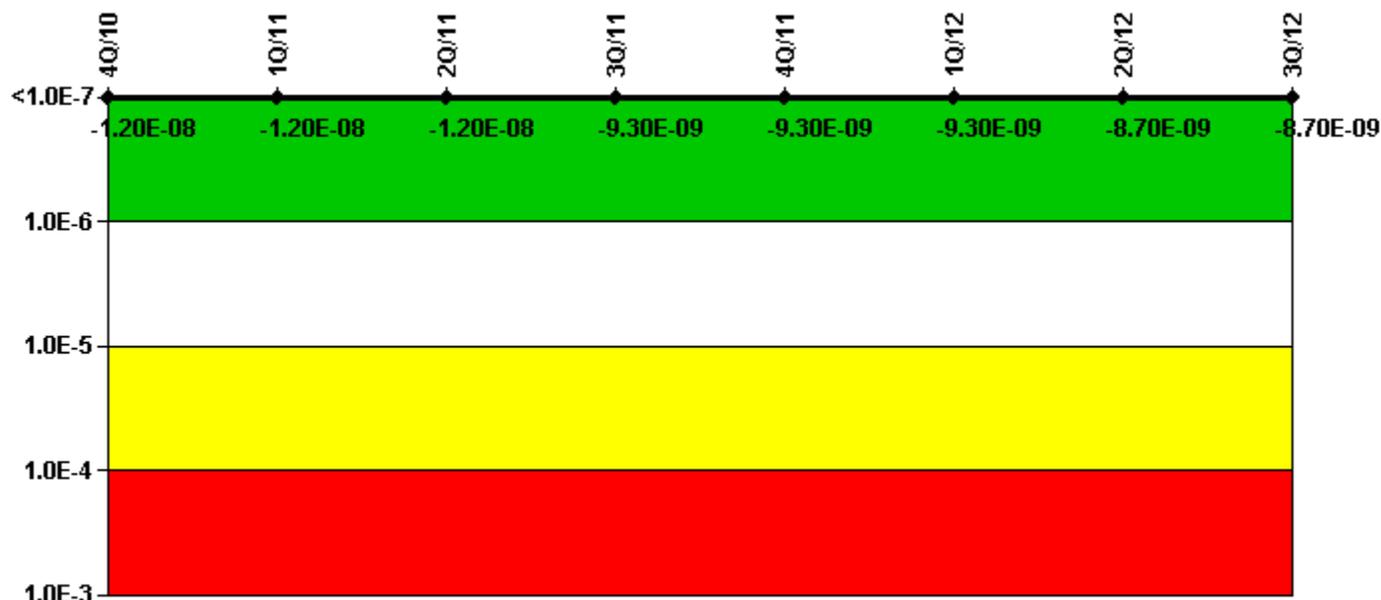
4Q/11: The 3Q2010 data is revised due to a data entry error for ESF Non-Test demands. There is no safety significance associated with this change. The PI color was green before the data revision and it remains green after the change

4Q/10: The High Pressure Coolant Injection data previously reported for the first, second, and third quarters of 2010 is revised based on changed PRA parameters and the resulting revision to the MSPI coefficients in the SSES

MSPI Basis Document. There is no safety significance associated with this change, and the color of the current High Pressure Coolant Injection Performance Indicator remains Green.

4Q/10: Changed PRA Parameter(s). The High Pressure Coolant Injection data previously reported for the first, second, and third quarters of 2010 is revised based on changed PRA parameters and the resulting revision to the MSPI coefficients in the SSES MSPI Basis Document. There is no safety significance associated with this change, and the color of the current High Pressure Coolant Injection Performance Indicator remains Green.

Mitigating Systems Performance Index, Heat Removal System



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

Notes

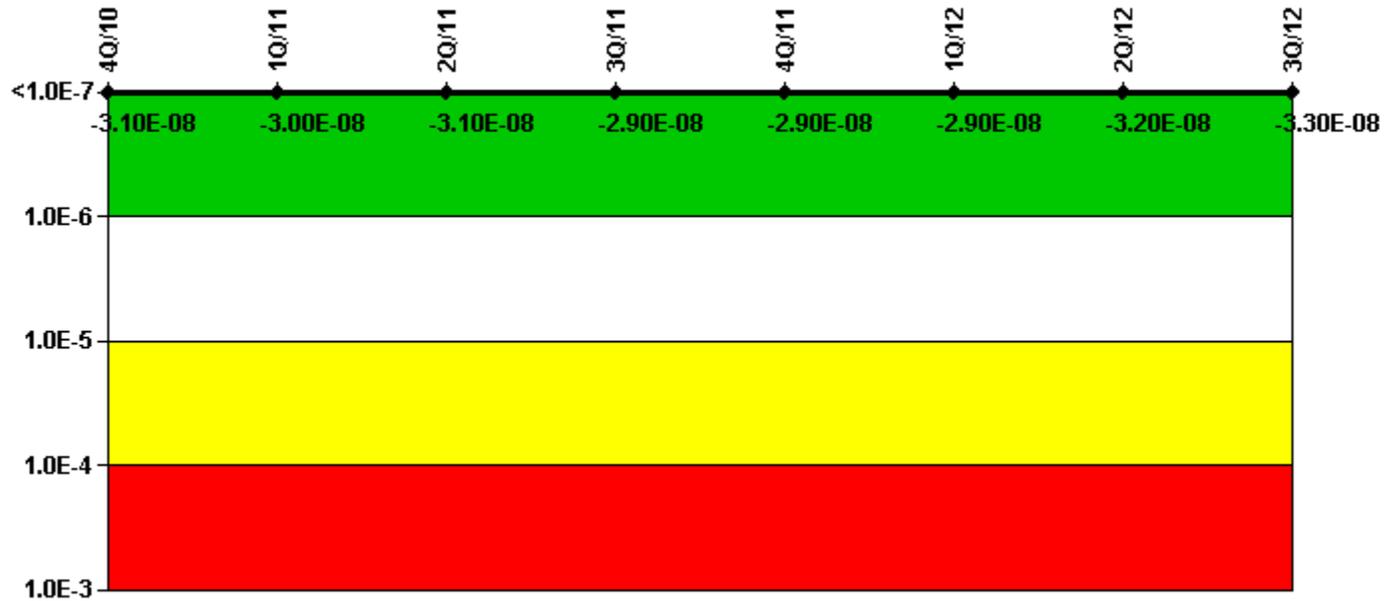
Mitigating Systems Performance Index, Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	-4.06E-09	-4.06E-09	-4.06E-09	-8.88E-10	-8.88E-10	-8.89E-10	-2.68E-10	-2.62E-10
URI (ΔCDF)	-7.86E-09	-8.14E-09	-8.14E-09	-8.39E-09	-8.39E-09	-8.39E-09	-8.39E-09	-8.39E-09
PLE	NO							
Indicator value	-1.20E-08	-1.20E-08	-1.20E-08	-9.30E-09	-9.30E-09	-9.30E-09	-8.70E-09	-8.70E-09

Licensee Comments:

4Q/10: Changed PRA Parameter(s). The Reactor Core Isolation Cooling data previously reported for the first, second, and third quarters of 2010 is revised based on changed PRA parameters and the resulting revision to the

MSPI coefficients in the SSES MSPI Basis Document. There is no safety significance associated with this change, and the color of the current Reactor Core Isolation Cooling Performance Indicator remains Green.

Mitigating Systems Performance Index, Residual Heat Removal System



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

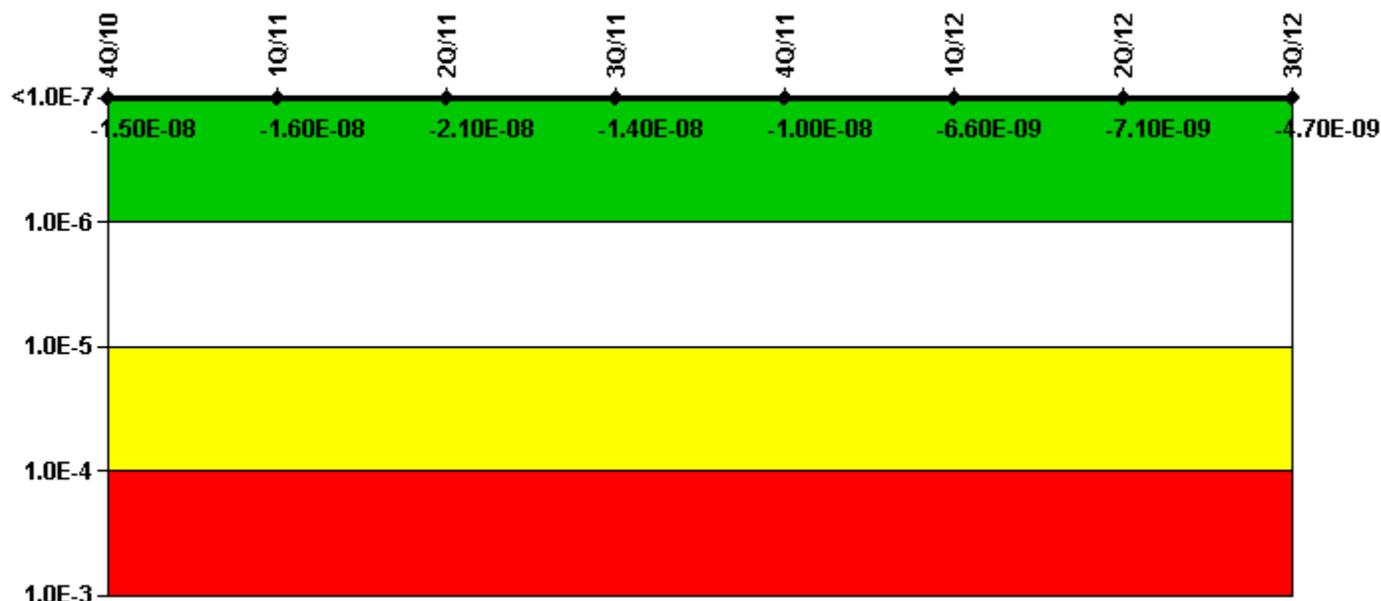
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-6.35E-10	-8.89E-10	-8.44E-10	1.85E-09	1.85E-09	1.85E-09	2.25E-09	1.38E-09
URI (Δ CDF)	-3.02E-08	-2.95E-08	-2.97E-08	-3.06E-08	-3.07E-08	-3.13E-08	-3.40E-08	-3.40E-08
PLE	NO							
Indicator value	-3.10E-08	-3.00E-08	-3.10E-08	-2.90E-08	-2.90E-08	-2.90E-08	-3.20E-08	-3.30E-08

Licensee Comments:

4Q/10: Changed PRA Parameter(s). The Residual Heat Removal data previously reported for the first, second, and third quarters of 2010 is revised based on changed PRA parameters and the resulting revision to the MSPI coefficients in the SSES MSPI Basis Document. There is no safety significance associated with this change, and the color of the current Residual Heat Removal Performance Indicator remains Green.

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/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	1.66E-08	1.60E-08	1.10E-08	1.85E-08	2.25E-08	2.64E-08	2.68E-08	2.94E-08
URI (Δ CDF)	-3.18E-08	-3.17E-08	-3.24E-08	-3.29E-08	-3.30E-08	-3.30E-08	-3.38E-08	-3.42E-08
PLE	NO							
Indicator value	-1.50E-08	-1.60E-08	-2.10E-08	-1.40E-08	-1.00E-08	-6.60E-09	-7.10E-09	-4.70E-09

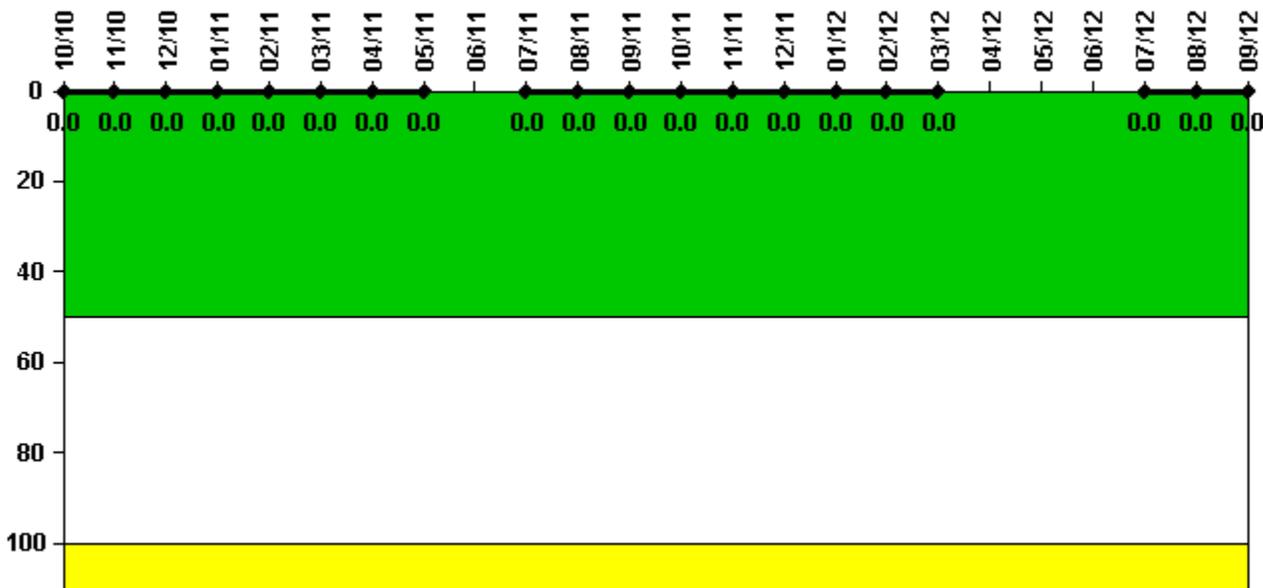
Licensee Comments:

4Q/11: Previously reported data for 3Q2009, 2Q2010, and 3Q2010 is revised for operational non-test strokes of valves HV01224A1 and HV01224B1. This change provides more conservative values for the stroke count. There is no safety significance associated with this change. The PI color was green before the data revision and it remains green after the change.

4Q/10: The Residual Heat Removal Service Water / Emergency Service Water data previously reported for the first, second, and third quarters of 2010 is revised based on changed PRA parameters and the resulting revision to the MSPI coefficients in the SSES MSPI Basis Document. There is no safety significance associated with this change, and the color of the current Residual Heat Removal Service Water / Emergency Service Water Performance Indicator remains Green.

4Q/10: Changed PRA Parameter(s). The Residual Heat Removal Service Water / Emergency Service Water data previously reported for the first, second, and third quarters of 2010 is revised based on changed PRA parameters and the resulting revision to the MSPI coefficients in the SSES MSPI Basis Document. There is no safety significance associated with this change, and the color of the current Residual Heat Removal Service Water / Emergency Service Water Performance Indicator remains Green.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

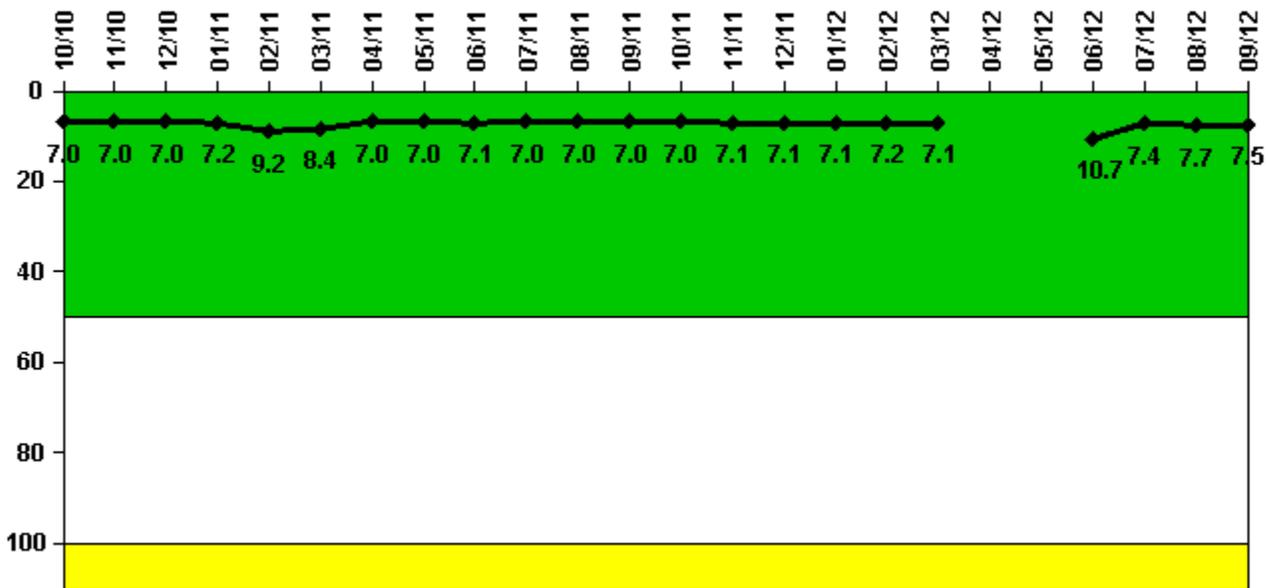
Notes

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	0.000005	0.000006	0.000010	0.000007	0.000007	0.000008	0.000007	0.000008	N/A	0.000006	0.000007	0.000007
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	0	0	0	0	0	0	N/A	0	0	0

Reactor Coolant System Activity	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum activity	0.000007	0.000007	0.000007	0.000008	0.000008	0.000007	N/A	N/A	N/A	0.000003	0.000005	0.000006
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	0	0	0	0	N/A	N/A	N/A	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

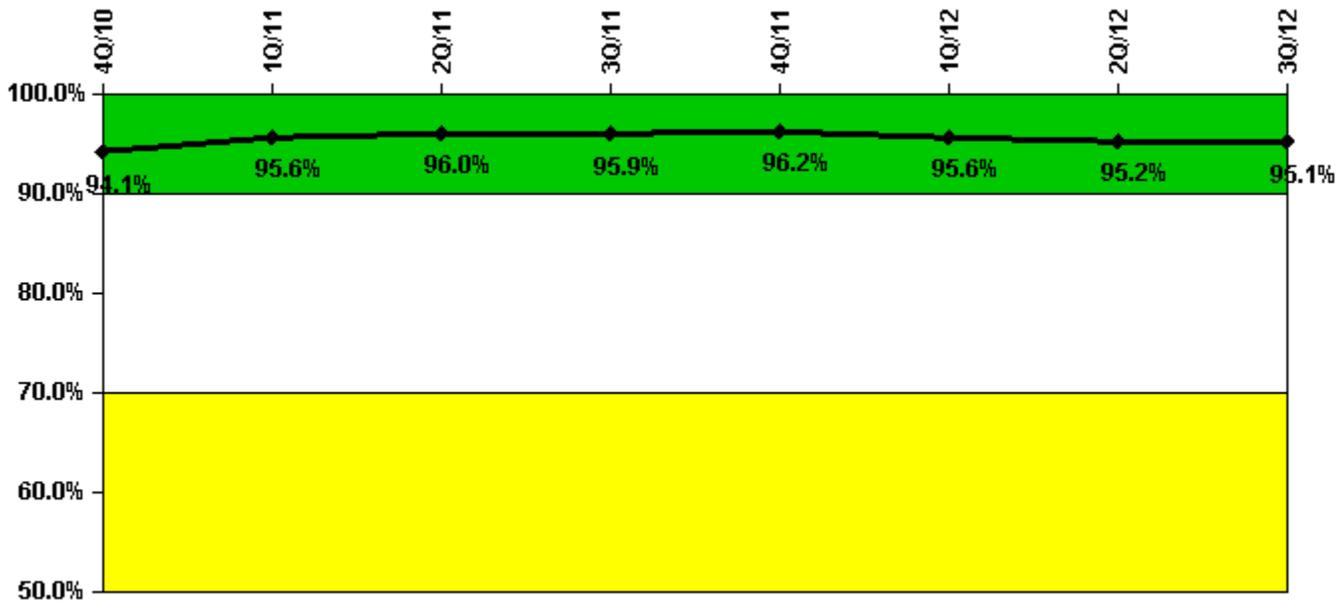
Notes

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	1.740	1.740	1.740	1.790	2.300	2.090	1.740	1.760	1.780	1.740	1.750	1.760
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	7.0	7.0	7.0	7.2	9.2	8.4	7.0	7.0	7.1	7.0	7.0	7.0
Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	1.760	1.770	1.770	1.770	1.790	1.780	N/A	N/A	2.680	1.860	1.920	1.880
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	7.0	7.1	7.1	7.1	7.2	7.1	N/A	N/A	10.7	7.4	7.7	7.5

Licensee Comments:

12/11: Previously reported data for Reactor Coolant System Leakage for the period from 1Q2010 through 2Q2011 is revised to provide the correct value for maximum monthly identified leakage. There is no safety significance associated with this change. The PI color was green before the data revision and it remains green after the change.

Drill/Exercise Performance



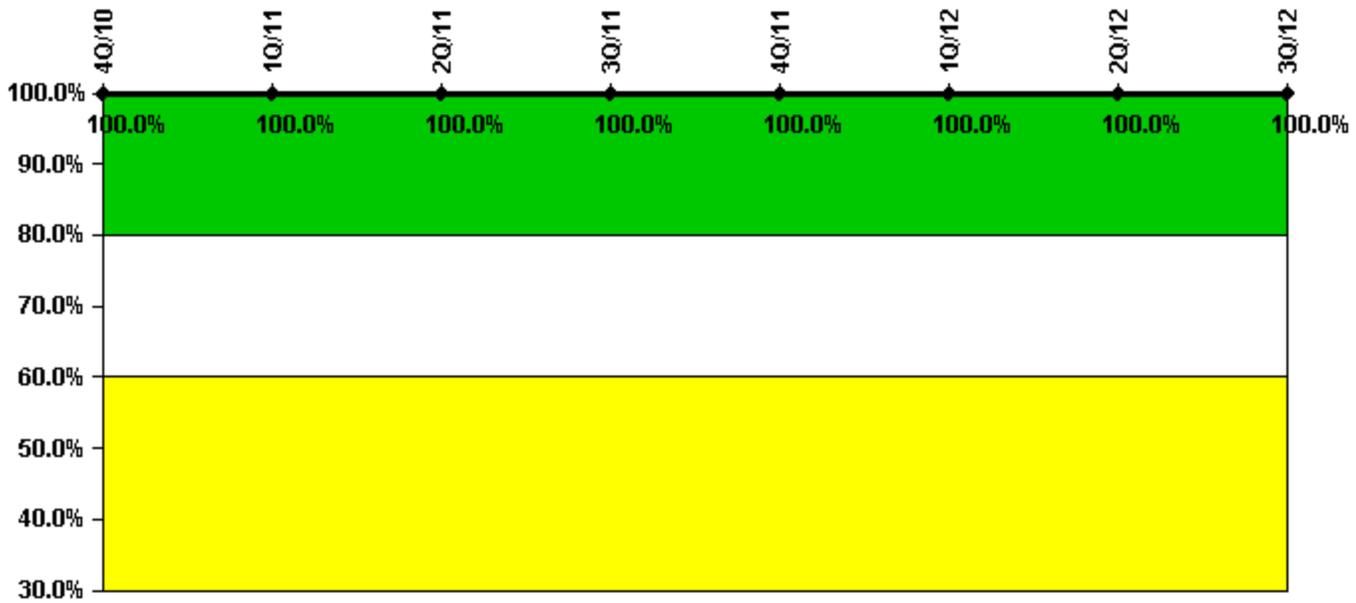
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	18.0	0	21.0	21.0	10.0	23.0	12.0	32.0
Total opportunities	21.0	0	21.0	22.0	10.0	25.0	12.0	33.0
Indicator value	94.1%	95.6%	96.0%	95.9%	96.2%	95.6%	95.2%	95.1%

Licensee Comments: none

ERO Drill Participation



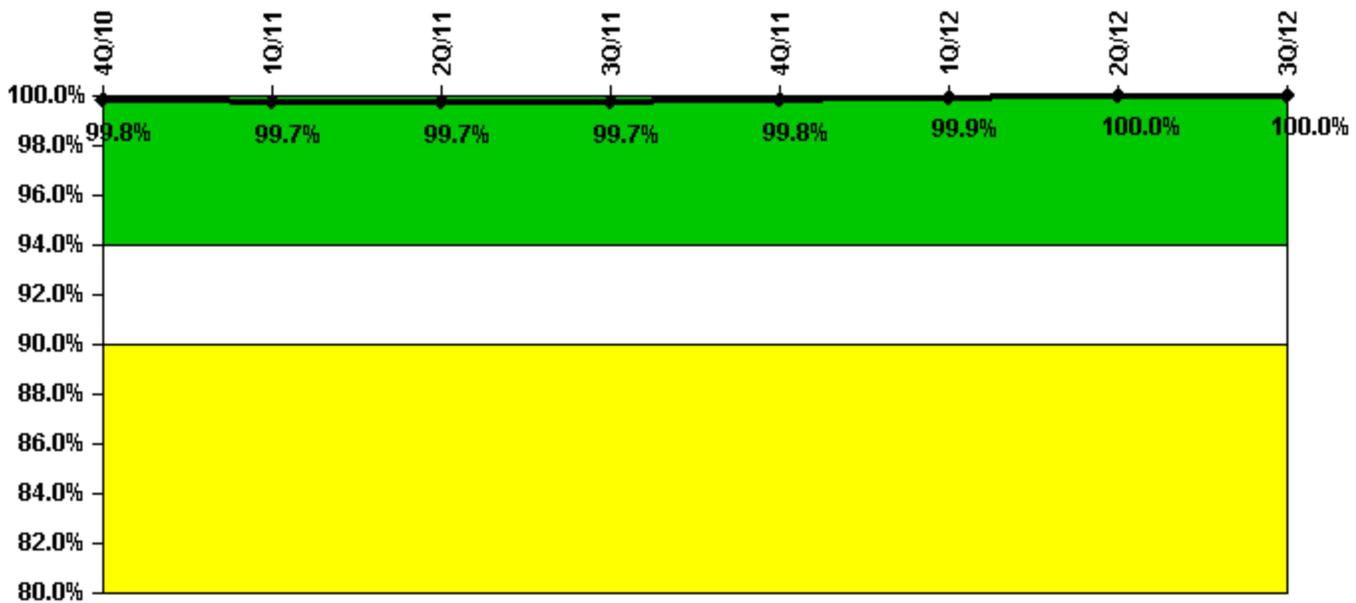
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Participating Key personnel	68.0	70.0	74.0	72.0	71.0	75.0	75.0	74.0
Total Key personnel	68.0	70.0	74.0	72.0	71.0	75.0	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



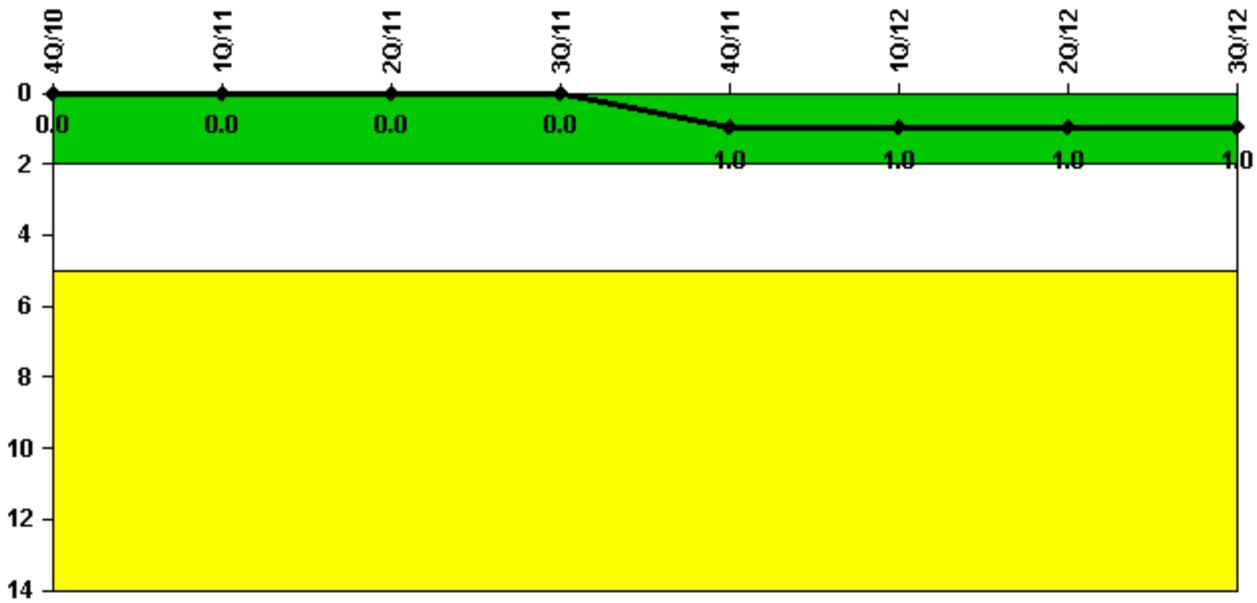
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	606	531	606	607	608	608	532	607
Total sirens-tests	608	532	608	608	608	608	532	608
Indicator value	99.8%	99.7%	99.7%	99.7%	99.8%	99.9%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



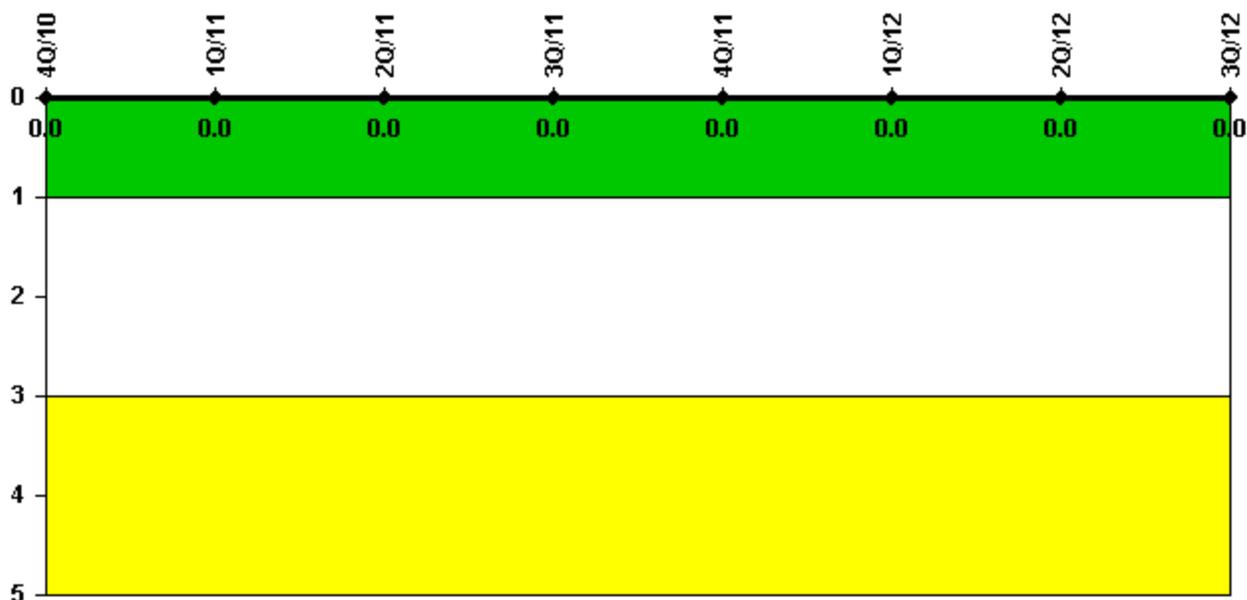
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
High radiation area occurrences	0	0	0	0	1	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	1	1	1	1

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	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: October 24, 2012