

Summer

3Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



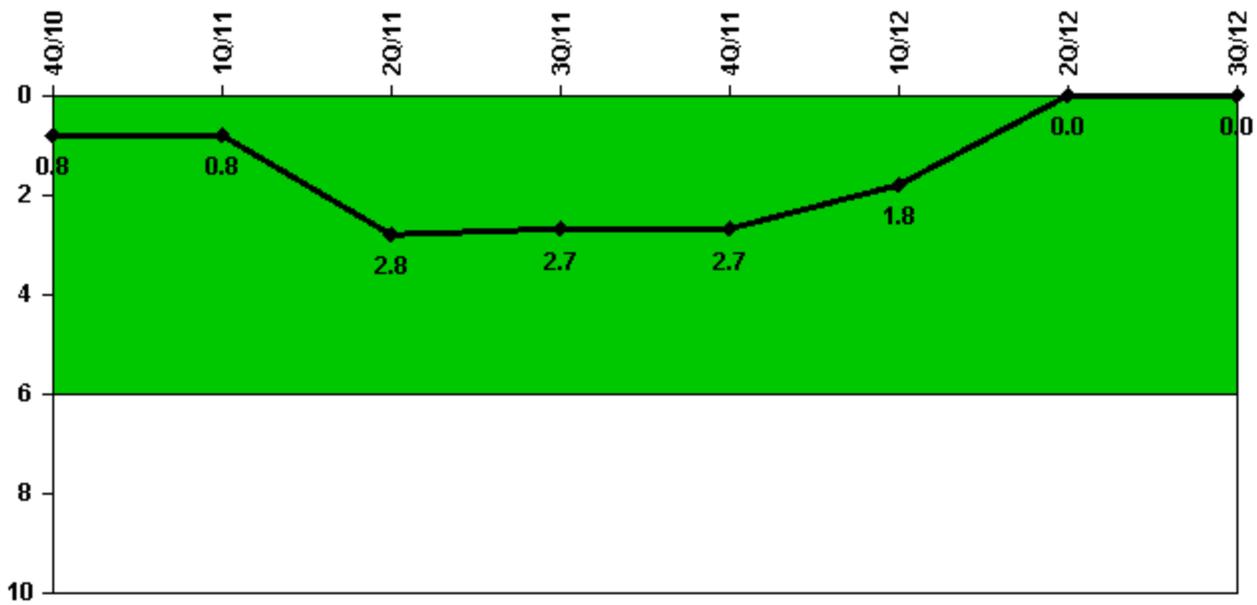
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	0	0	0
Critical hours	2209.0	2118.4	1136.4	2208.0	2209.0	2183.0	2184.0	2208.0
Indicator value	0							

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



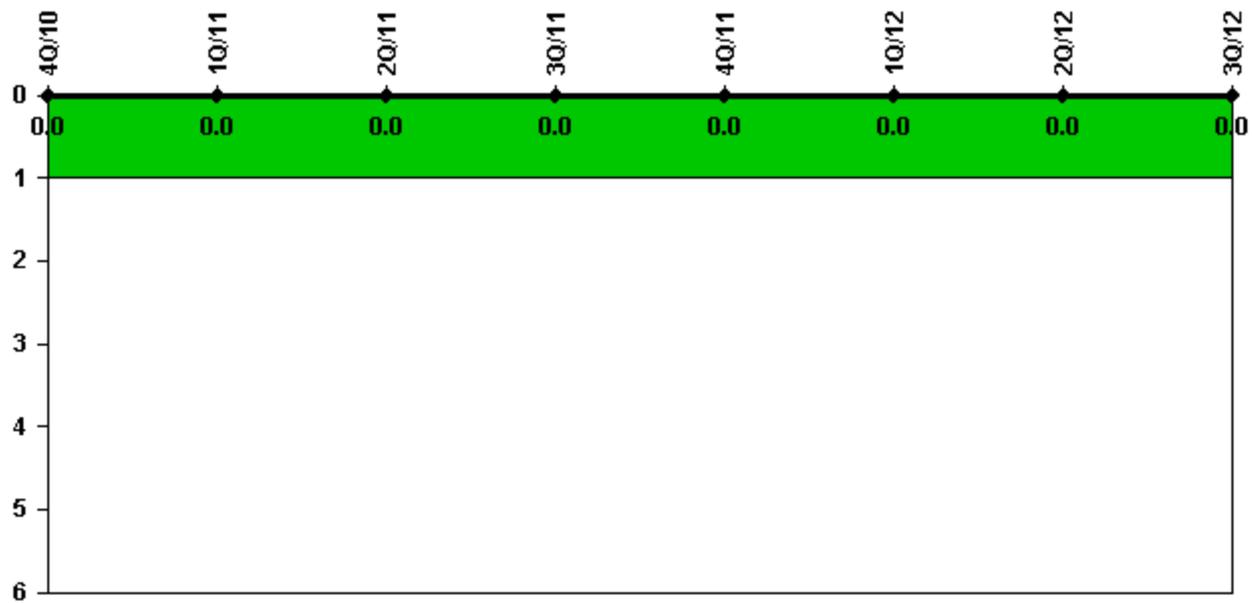
Thresholds: White > 6.0

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	0	1.0	2.0	0	0	0	0	0
Critical hours	2209.0	2118.4	1136.4	2208.0	2209.0	2183.0	2184.0	2208.0
Indicator value	0.8	0.8	2.8	2.7	2.7	1.8	0	0

Licensee Comments: none

Unplanned Scrams with Complications



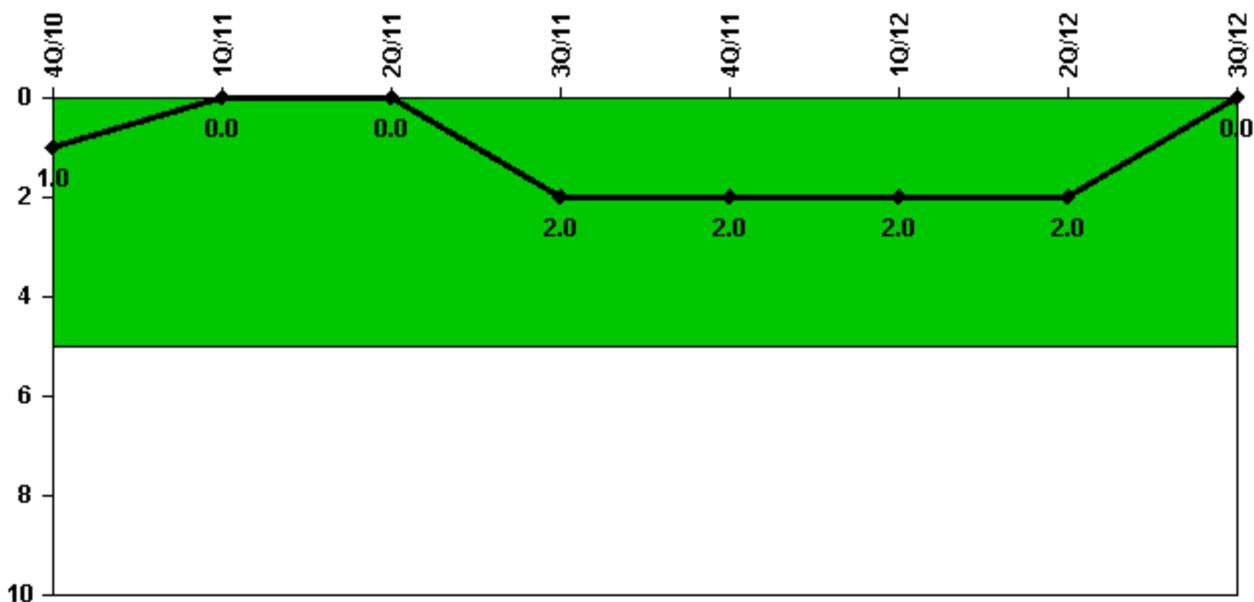
Thresholds: White > 1.0

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	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

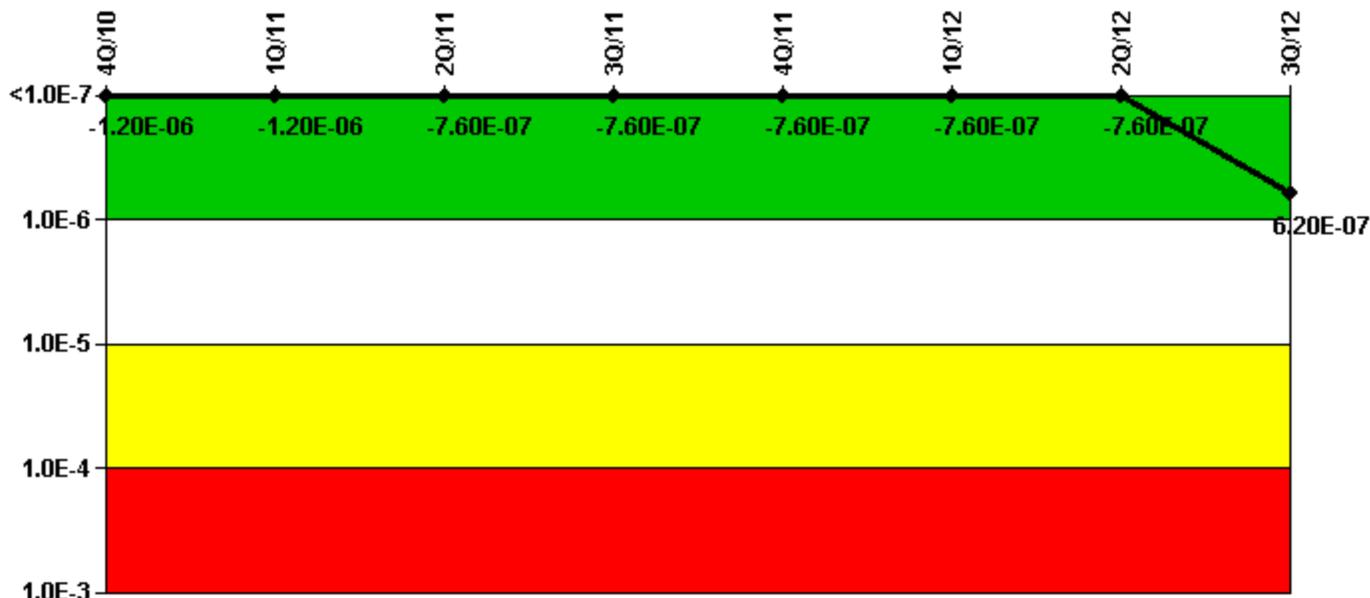
Notes

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

Licensee Comments:

3Q/11: LER-2011-001 - Failure to maintain one train of safe shutdown systems in accordance with Appedix R Section III.G.a/III.G.3 LER-2011-002 - Failure to maintain one train of safe shutdown systems in accordance with Appedix R Section III.G.a/III.G.3

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)	-1.33E-07	-1.33E-07	-9.69E-08	-9.69E-08	-9.69E-08	-9.69E-08	-9.69E-08	1.67E-07
URI (Δ CDF)	-1.11E-06	-1.11E-06	-6.60E-07	-6.60E-07	-6.60E-07	-6.60E-07	-6.60E-07	4.54E-07
PLE	NO	NO						
Indicator value	-1.20E-06	-1.20E-06	-7.60E-07	-7.60E-07	-7.60E-07	-7.60E-07	-7.60E-07	6.20E-07

Licensee Comments:

3Q/12: Risk Cap Invoked. 8/24/2012 - "A" DG Start/Demand Failure due to "A" DG exciter failed to flash. 63.1 hours of unplanned unavailability were accrued. CR-12-03599 9/19/2012 - "A" DG Start/Demand Failure due to "A" DG exciter failed to flash. 111.3 hours of unplanned unavailability were accrued. CR-12-03998 Revised PRA parameters, to take affect 10/1/2012, to credit Alternate Reactor Coolant Pump Seal Injection system plant modification to mitigate an Reactor Coolant Pump seal LOCA brought on by loss of offsite power.

2Q/12: Risk Cap Invoked.

1Q/12: Risk Cap Invoked.

4Q/11: Risk Cap Invoked.

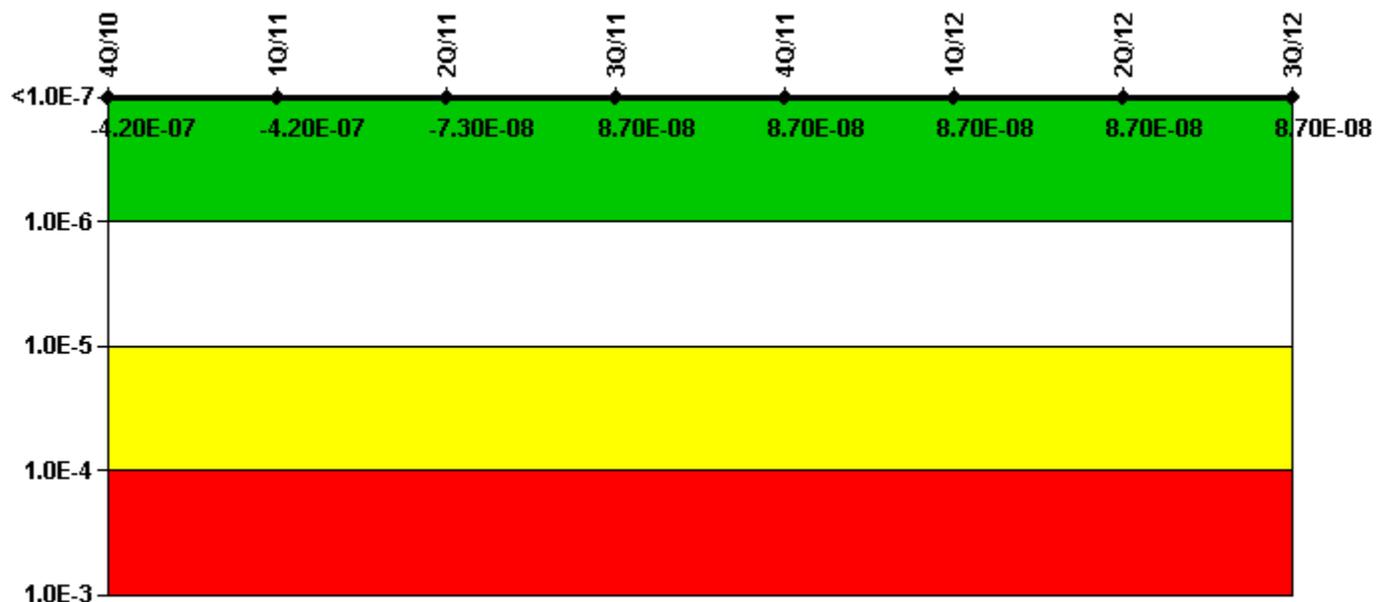
3Q/11: Risk Cap Invoked.

2Q/11: Risk Cap Invoked.

1Q/11: Risk Cap Invoked. Changed PRA parameters, to take affect 4/1/2011, to credit the Alternate AC (AAC) power supply for restoring high pressure injection in time to mitigate an RCP seal LOCA brought on by a loss of offsite power and it updates the loss of offsite power initiating event frequency and recovery curve.

4Q/10: Risk Cap Invoked.

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)	-1.66E-07	-1.66E-07	-7.36E-09	-7.06E-09	-7.06E-09	-7.06E-09	-7.06E-09	-7.06E-09
URI (Δ CDF)	-2.55E-07	-2.55E-07	-6.60E-08	9.43E-08	9.43E-08	9.43E-08	9.43E-08	9.43E-08
PLE	NO							
Indicator value	-4.20E-07	-4.20E-07	-7.30E-08	8.70E-08	8.70E-08	8.70E-08	8.70E-08	8.70E-08

Licensee Comments:

3Q/12: Revised PRA parameters, to take affect 10/1/2012, to credit Alternate Reactor Coolant Pump Seal

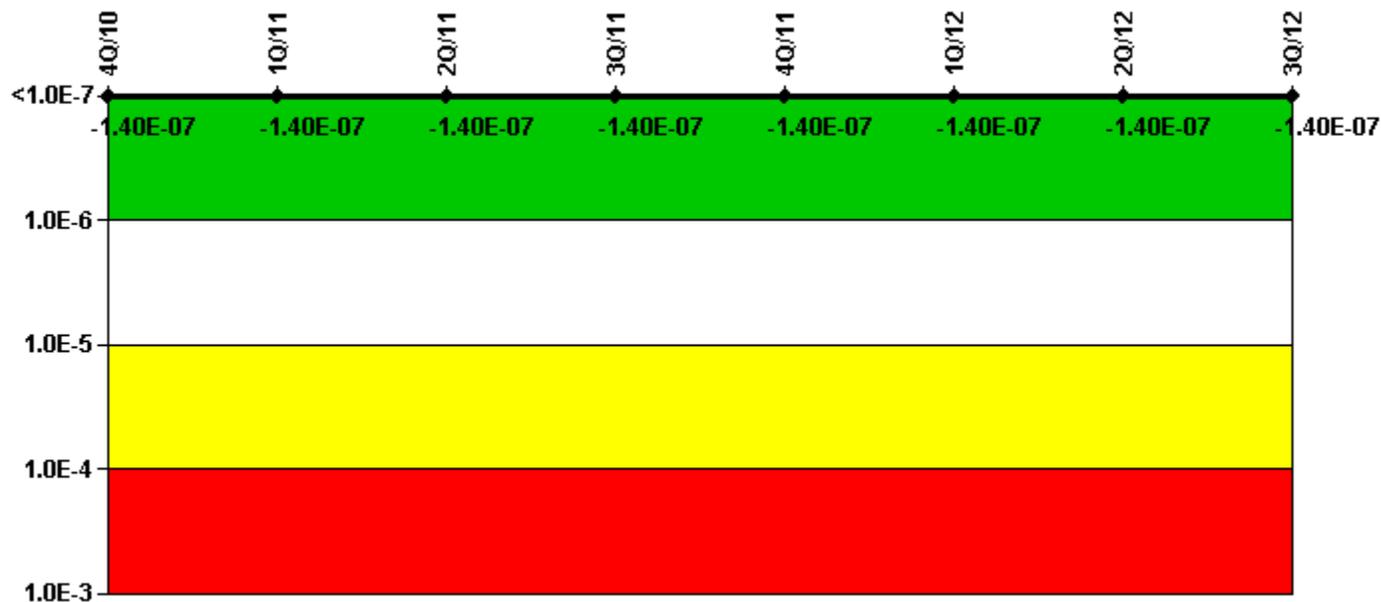
Injection system plant modification to mitigate an Reactor Coolant Pump seal LOCA brought on by loss of offsite power.

3Q/11: On 9/27/2011 "C" HPSI Pump failed to start on "A" train HPSI with the "A" HPSI Pump breaker racked out-of-service. This resulted in a Start/Demand failure and 1.2 hours of unplanned unavailability for the "A" Train HPSI. The apparent cause of the failure of the "A" HPSI Pump breaker to close is a poorly designed and/or installed modification of the breaker pad lock bracket along with post modification testing failing to identify the design/installation deficiencies. This modification defeated the original design feature of the pad lock bracket that maintained a comfortable gap between the racking handle left side support arm and the pad lock bracket to ensure no potential for binding of the racking handle. With this gap eliminated, the racking handle was not able to return to the fully disengaged position under the force of its retracting spring as it is designed to do.

3Q/11: On 9/27/2011 "C" HPSI Pump breaker was improperly racked in on "A" train HPSI and the "A" HPSI Pump breaker was racked out-of-service. The "C" HPSI Pump breaker condition was not discovered until the pump failed to start during a test start. This event resulted in a Start/Demand failure and 1.2 hours of unplanned unavailability.

1Q/11: Changed PRA parameters, to take affect 4/1/2011, to credit the Alternate AC (AAC) power supply for restoring high pressure injection in time to mitigate an RCP seal LOCA brought on by a loss of offsite power and it updates the loss of offsite power initiating event frequency and recovery curve.

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									
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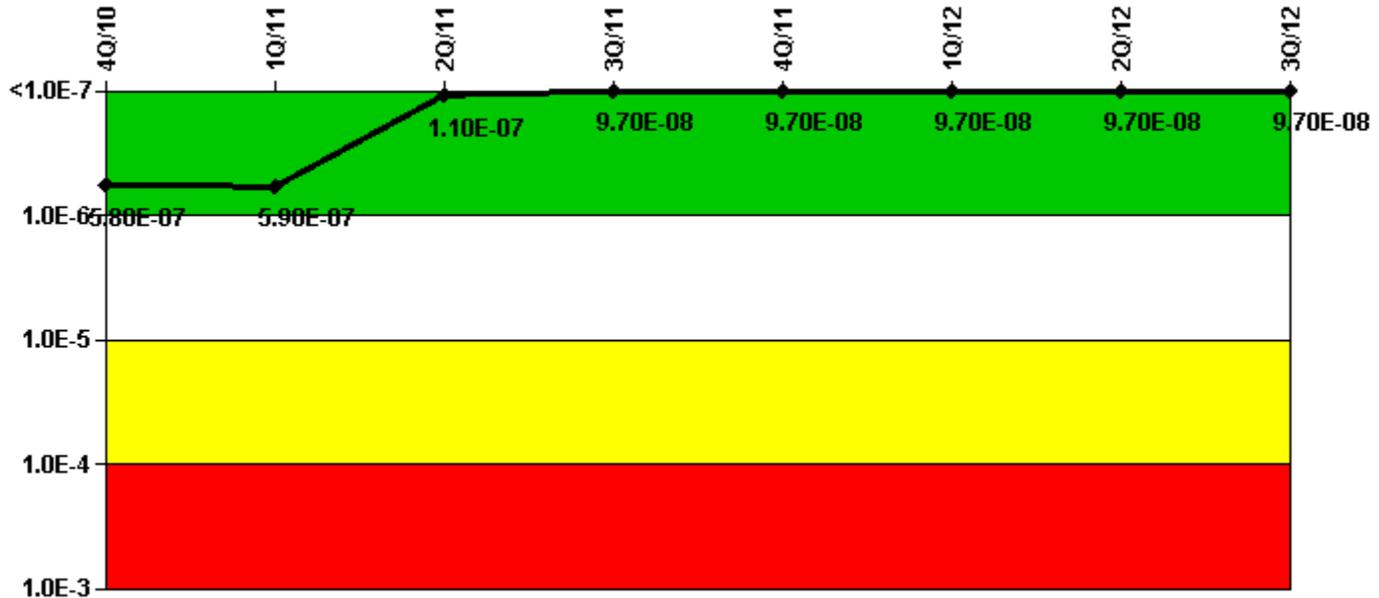
Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	-2.52E-08	-2.52E-08	-2.05E-08	-2.07E-08	-2.11E-08	-2.11E-08	-2.11E-08	-1.97E-08
URI (ΔCDF)	-1.18E-07	-1.18E-07	-1.17E-07	-1.17E-07	-1.17E-07	-1.17E-07	-1.17E-07	-1.17E-07
PLE	NO							
Indicator value	-1.40E-07							

Licensee Comments:

3Q/12: Revised PRA parameters, to take affect 10/1/2012, to credit Alternate Reactor Coolant Pump Seal Injection system plant modification to mitigate an Reactor Coolant Pump seal LOCA brought on by loss of offsite power.

1Q/11: Changed PRA parameters, to take affect 4/1/2011, to credit the Alternate AC (AAC) power supply for restoring high pressure injection in time to mitigate an RCP seal LOCA brought on by a loss of offsite power and it updates the loss of offsite power initiating event frequency and recovery curve.

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
				-4.48E-	-4.48E-	-4.49E-	-4.49E-	-4.49E-

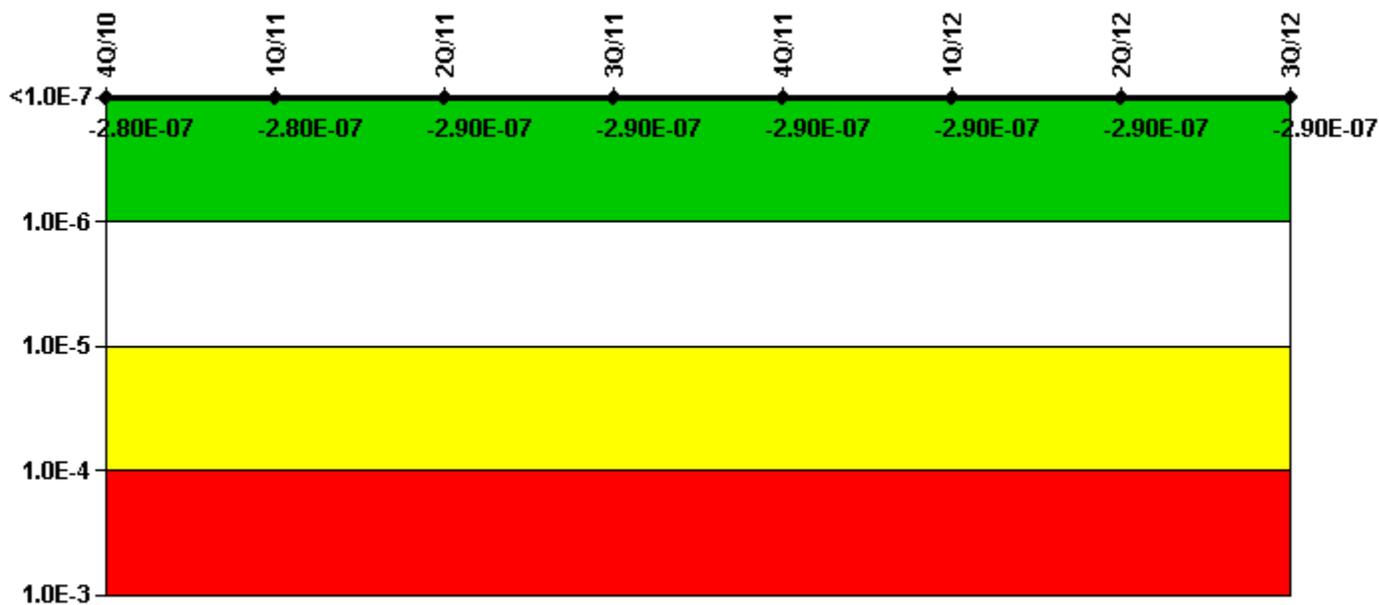
UAI (ΔCDF)	1.13E-09	1.02E-08	4.01E-09	09	09	09	09	09
URI (ΔCDF)	5.76E-07	5.76E-07	1.01E-07	1.01E-07	1.01E-07	1.01E-07	1.01E-07	1.01E-07
PLE	NO							
Indicator value	5.80E-07	5.90E-07	1.10E-07	9.70E-08	9.70E-08	9.70E-08	9.70E-08	9.70E-08

Licensee Comments:

3Q/12: Revised PRA parameters, to take affect 10/1/2012, to credit Alternate Reactor Coolant Pump Seal Injection system plant modification to mitigate an Reactor Coolant Pump seal LOCA brought on by loss of offsite power.

1Q/11: Changed PRA parameters, to take affect 4/1/2011, to credit the Alternate AC (AAC) power supply for restoring high pressure injection in time to mitigate an RCP seal LOCA brought on by a loss of offsite power and it updates the loss of offsite power initiating event frequency and recovery curve

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 (ΔCDF)	-3.00E-08	-3.00E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08

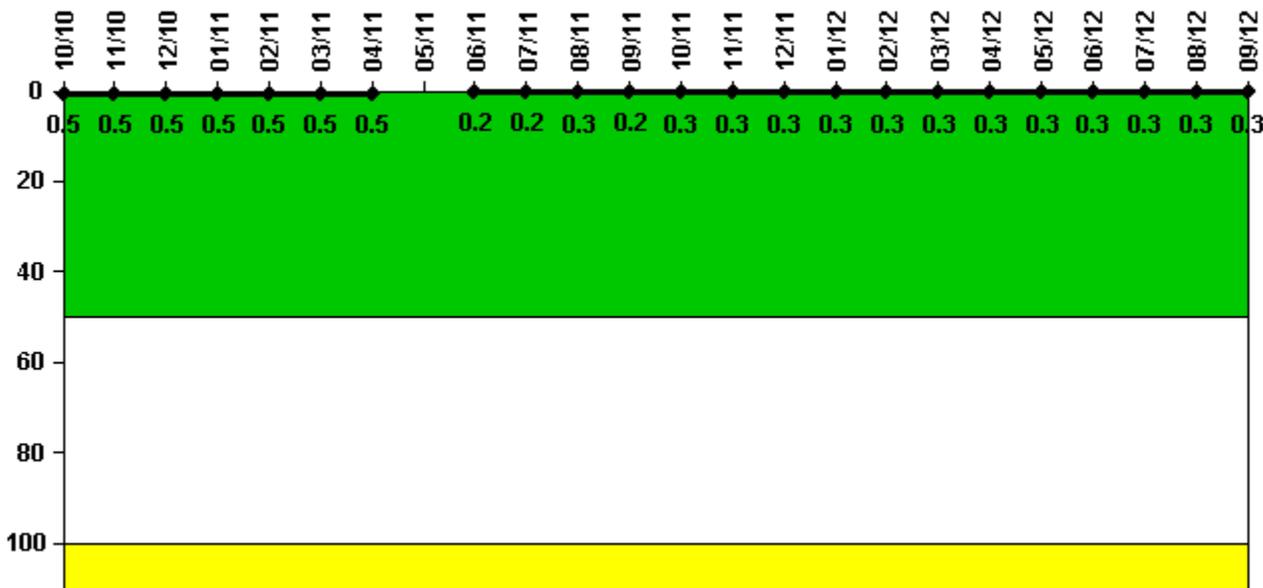
URI (ΔCDF)	-2.49E-07	-2.49E-07	-2.58E-07	-2.58E-07	-2.58E-07	-2.58E-07	-2.58E-07	-2.58E-07
PLE	NO							
Indicator value	-2.80E-07	-2.80E-07	-2.90E-07	-2.90E-07	-2.90E-07	-2.90E-07	-2.90E-07	-2.90E-07

Licensee Comments:

3Q/12: Revised PRA parameters, to take affect 10/1/2012, to credit Alternate Reactor Coolant Pump Seal Injection system plant modification to mitigate an Reactor Coolant Pump seal LOCA brought on by loss of offsite power.

1Q/11: Changed PRA parameters, to take affect 4/1/2011, to credit the Alternate AC (AAC) power supply for restoring high pressure injection in time to mitigate an RCP seal LOCA brought on by a loss of offsite power and it updates the loss of offsite power initiating event frequency and recovery curve

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

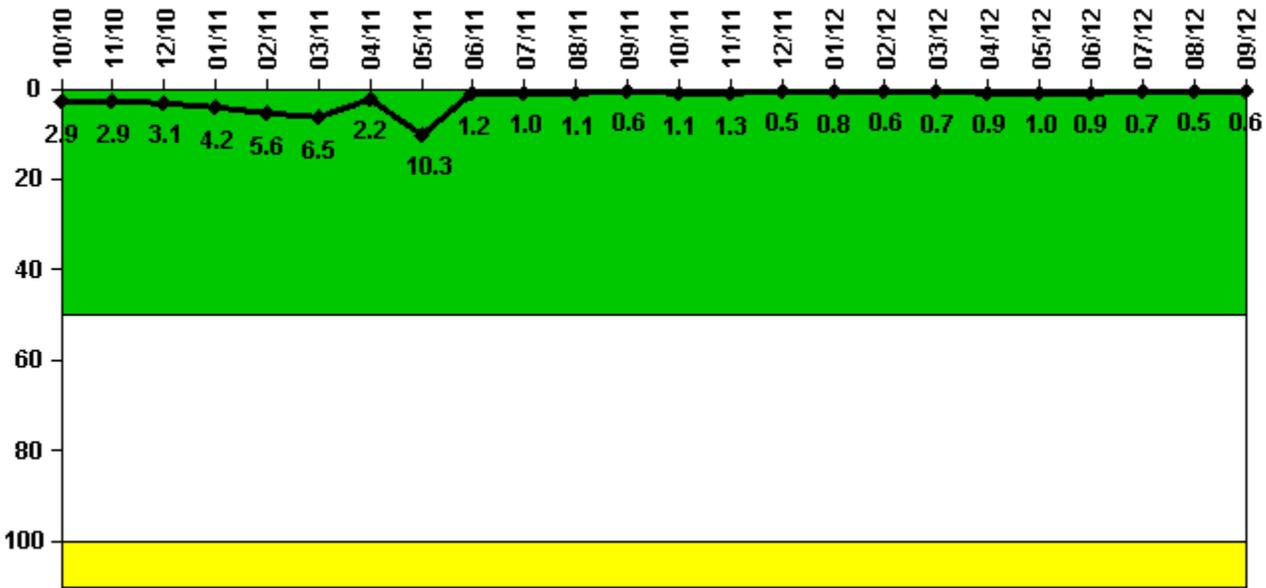
Notes

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	0.000270	0.000271	0.000291	0.000300	0.000322	0.000309	0.000313	N/A	0.000135	0.000139	0.000149	0.000147
Technical												

specification limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Indicator value	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	N/A	0.2	0.2	0.3	0.2
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	0.000155	0.000164	0.000161	0.000170	0.000170	0.000175	0.000171	0.000173	0.000179	0.000183	0.000185	0.000190	
Technical specification limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Indicator value	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

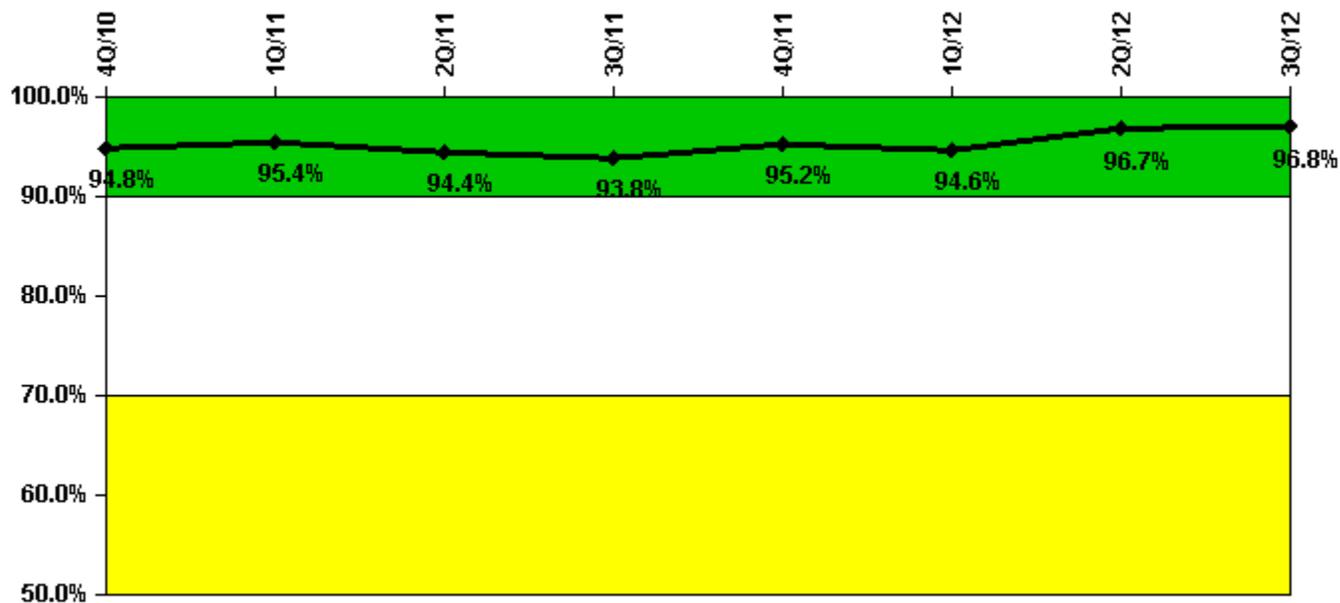
Notes

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	0.290	0.290	0.310	0.420	0.560	0.650	0.220	1.030	0.120	0.100	0.110	0.060
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	2.9	2.9	3.1	4.2	5.6	6.5	2.2	10.3	1.2	1.0	1.1	0.6
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	0.110	0.130	0.050	0.080	0.060	0.070	0.090	0.100	0.090	0.070	0.050	0.060
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	1.3	0.5	0.8	0.6	0.7	0.9	1.0	0.9	0.7	0.5	0.6

Licensee Comments: none

Drill/Exercise Performance



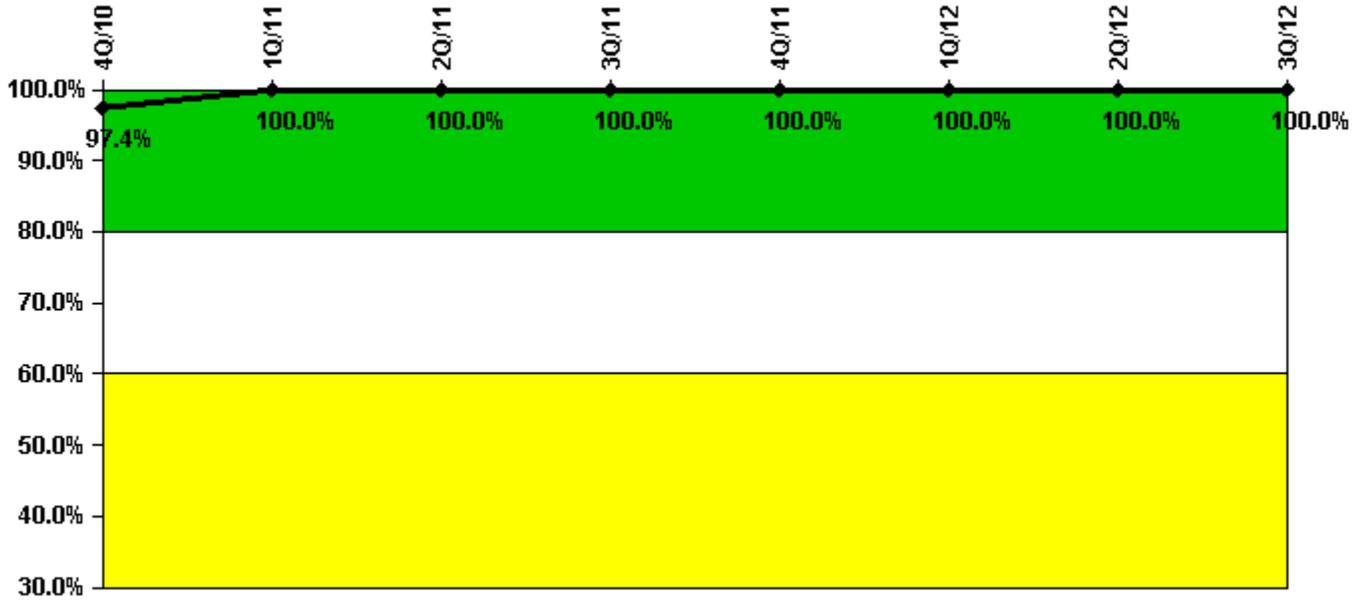
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	23.0	10.0	15.0	30.0	46.0	52.0	56.0	43.0
Total opportunities	24.0	10.0	16.0	32.0	46.0	56.0	56.0	44.0
Indicator value	94.8%	95.4%	94.4%	93.8%	95.2%	94.6%	96.7%	96.8%

Licensee Comments: none

ERO Drill Participation



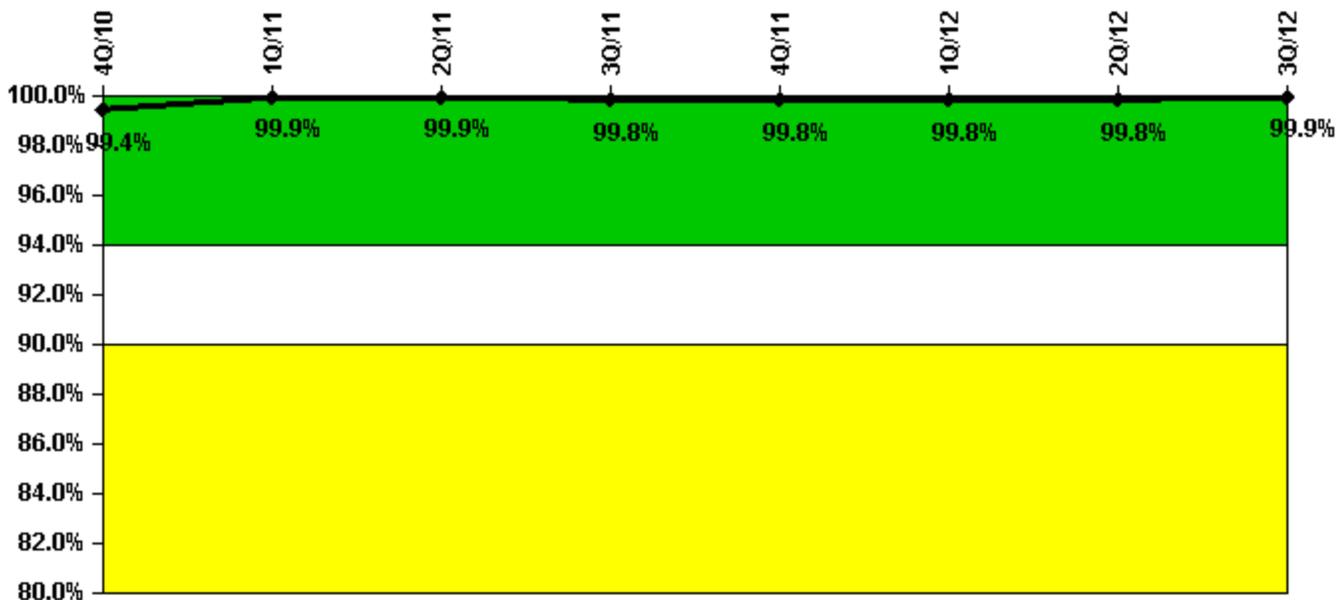
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Participating Key personnel	76.0	78.0	75.0	77.0	79.0	80.0	75.0	74.0
Total Key personnel	78.0	78.0	75.0	77.0	79.0	80.0	75.0	74.0
Indicator value	97.4%	100.0%						

Licensee Comments: none

Alert & Notification System



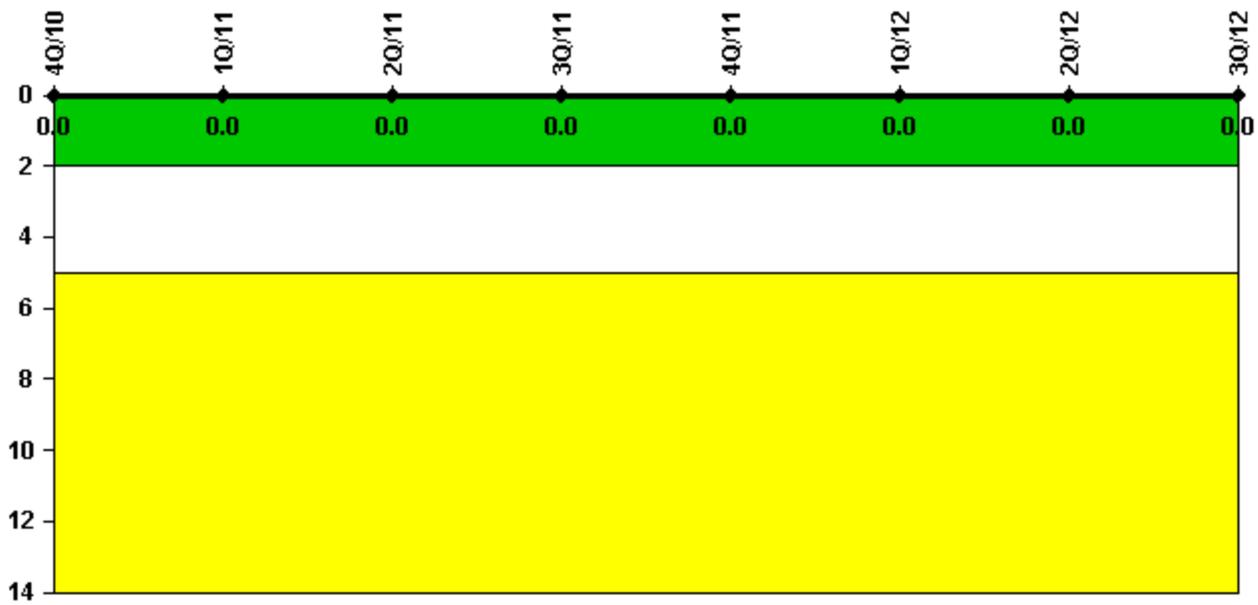
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	636	847	741	844	742	846	742	847
Total sirens-tests	636	848	742	848	742	848	742	848
Indicator value	99.4%	99.9%	99.9%	99.8%	99.8%	99.8%	99.8%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



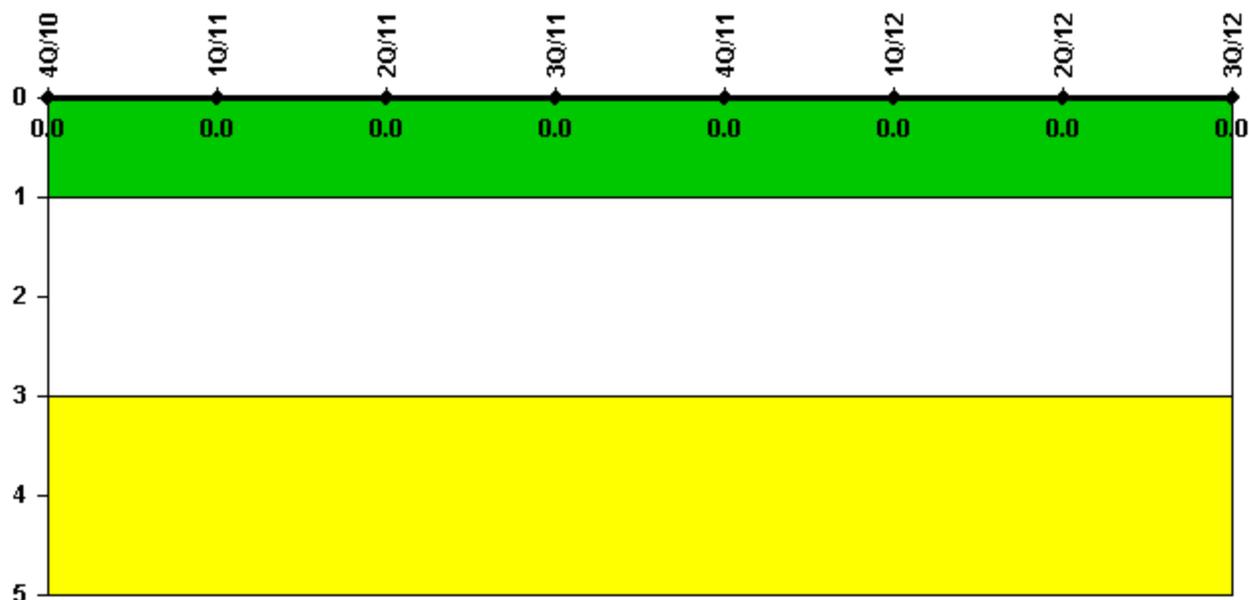
Thresholds: White > 2.0 Yellow > 5.0

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	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							

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