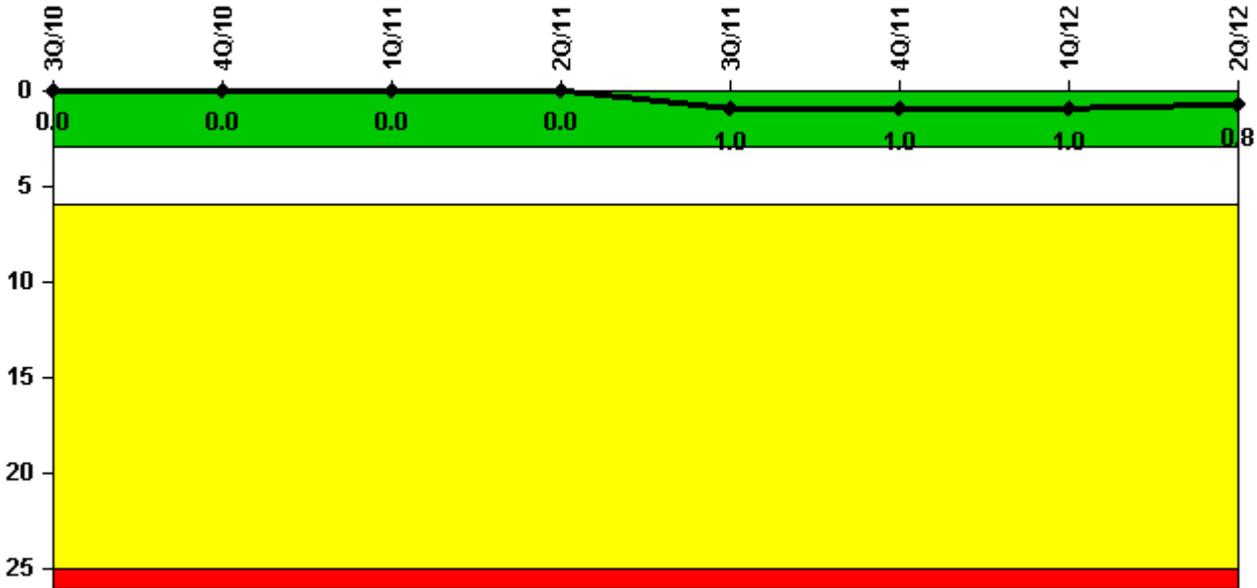


# Susquehanna 2

## 2Q/2012 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



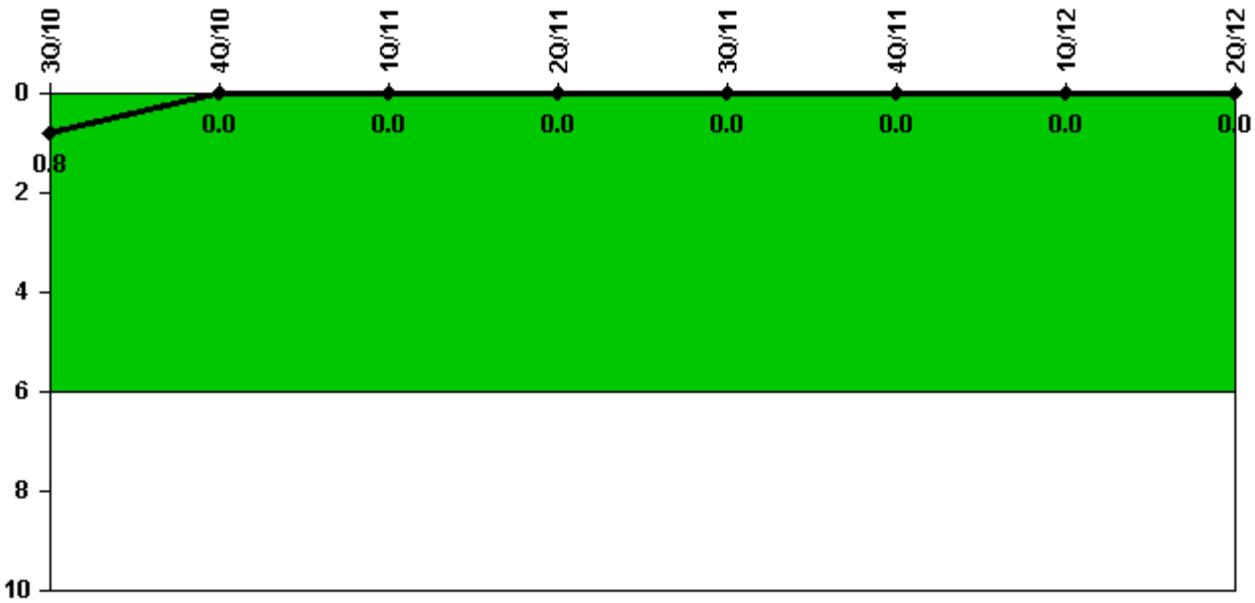
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2208.0	2209.0	2159.0	213.2	2125.9	2209.0	2183.0	1829.5
Indicator value	0	0	0	0	1.0	1.0	1.0	0.8

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



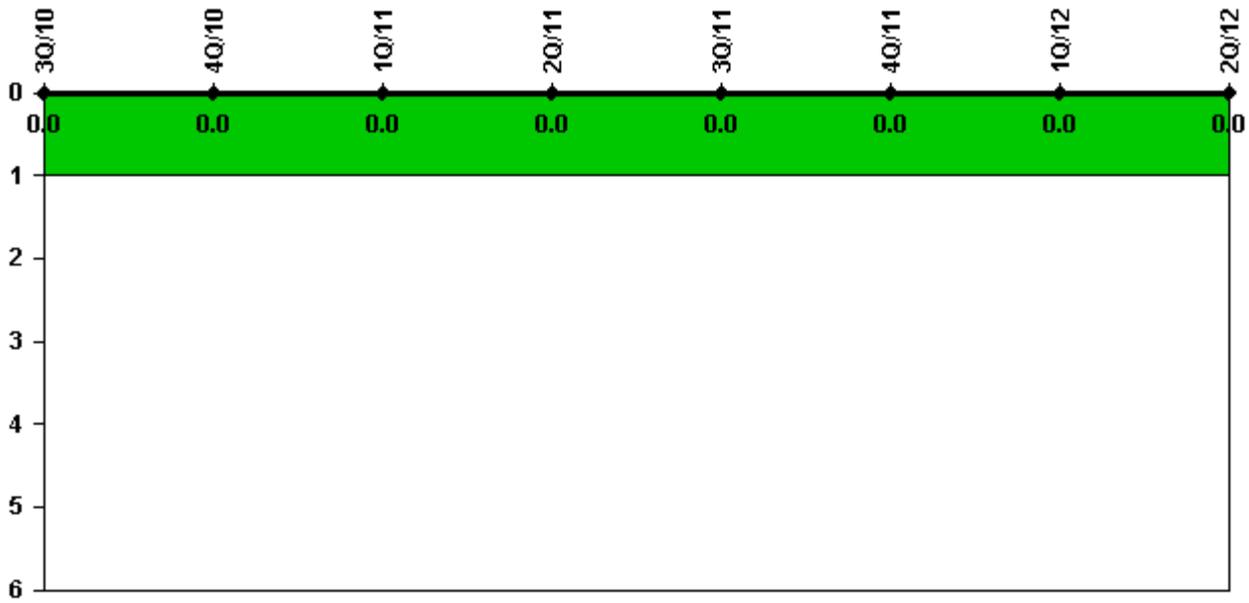
Thresholds: White > 6.0

### 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	0
Critical hours	2208.0	2209.0	2159.0	213.2	2125.9	2209.0	2183.0	1829.5
Indicator value	0.8	0	0	0	0	0	0	0

Licensee Comments: none

## Unplanned Scrams with Complications



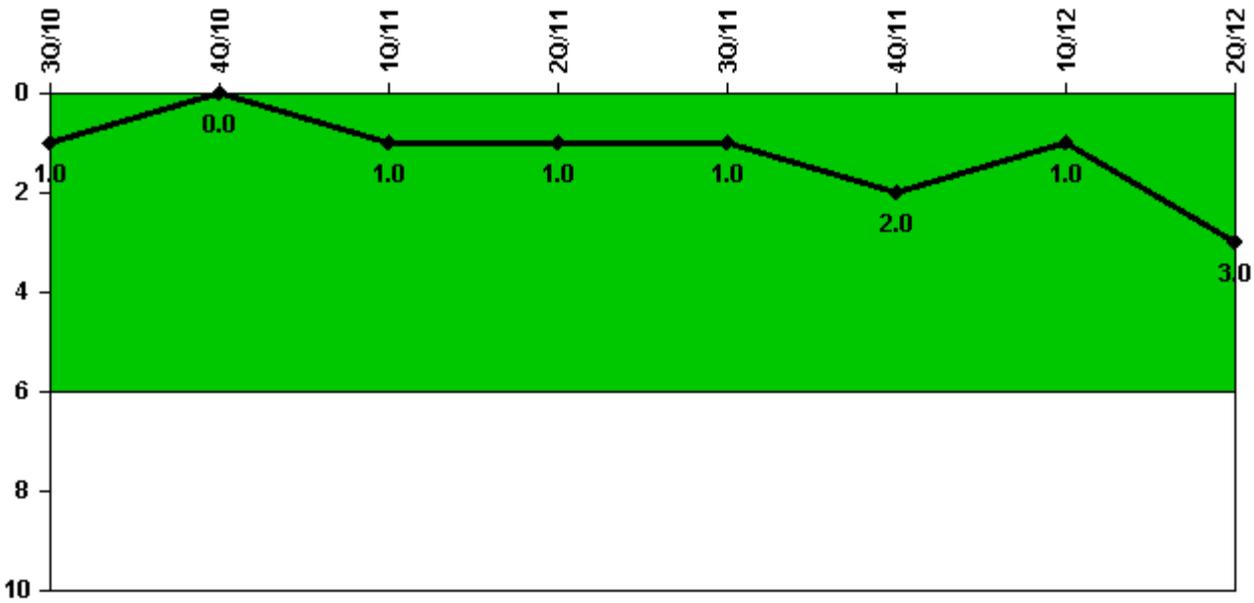
Thresholds: White > 1.0

### 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 (BWR)



Thresholds: White > 6.0

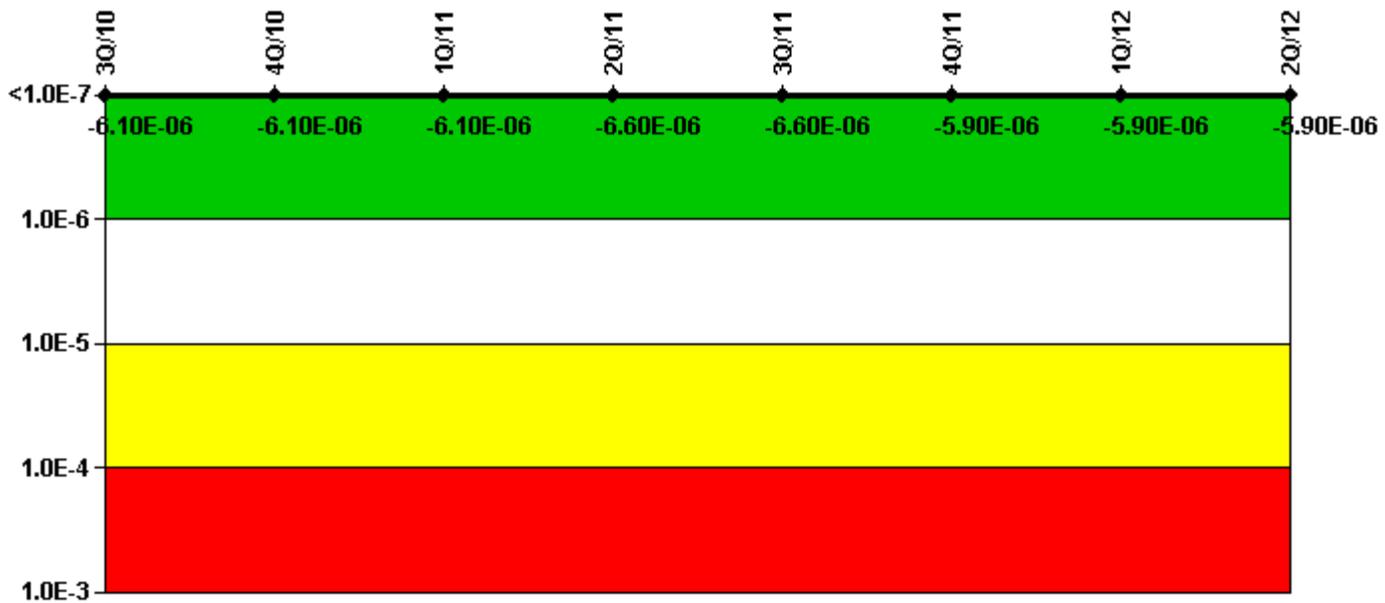
### Notes

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

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.

## 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 ( $\Delta$ CDF)	-2.75E-08	-2.75E-08	-1.82E-08	-1.87E-08	2.94E-09	1.94E-07	1.94E-07	1.88E-07
URI ( $\Delta$ CDF)	-6.11E-06	-6.10E-06	-6.06E-06	-6.59E-06	-6.62E-06	-6.12E-06	-6.11E-06	-6.06E-06
PLE	NO							
Indicator value	-6.10E-06	-6.10E-06	-6.10E-06	-6.60E-06	-6.60E-06	-5.90E-06	-5.90E-06	-5.90E-06

Licensee Comments:

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.

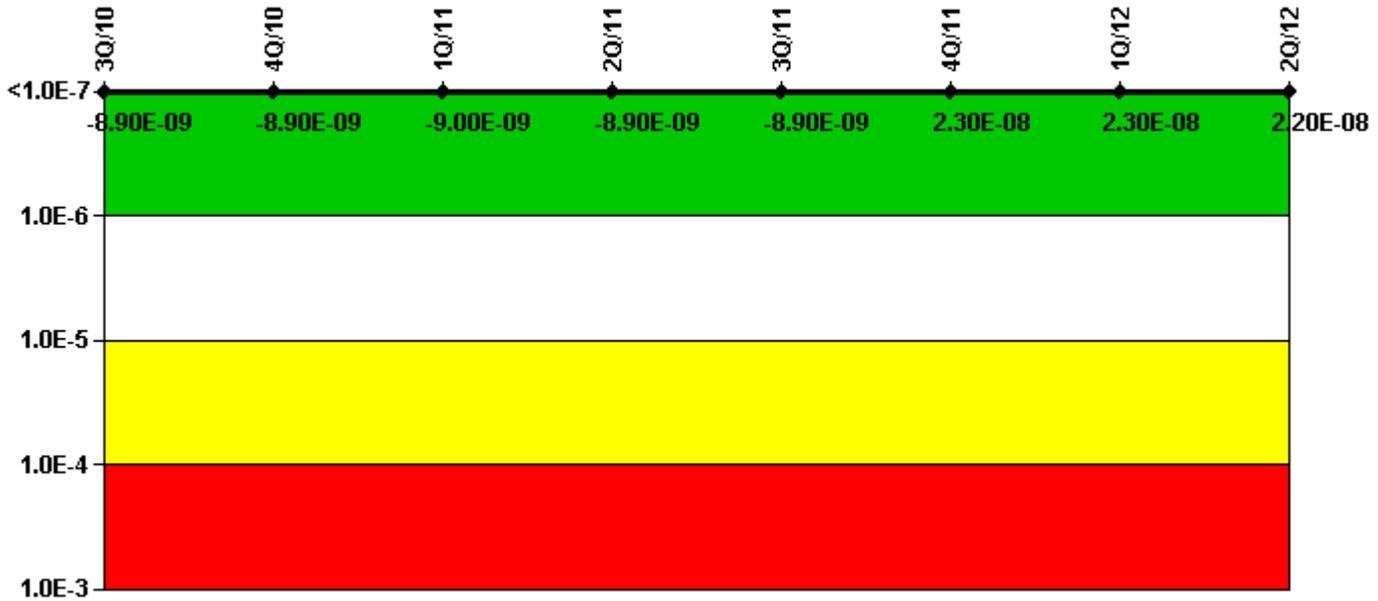
1Q/11: Risk Cap Invoked.

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.

3Q/10: Risk Cap Invoked. Changed PRA Parameter(s).

3Q/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

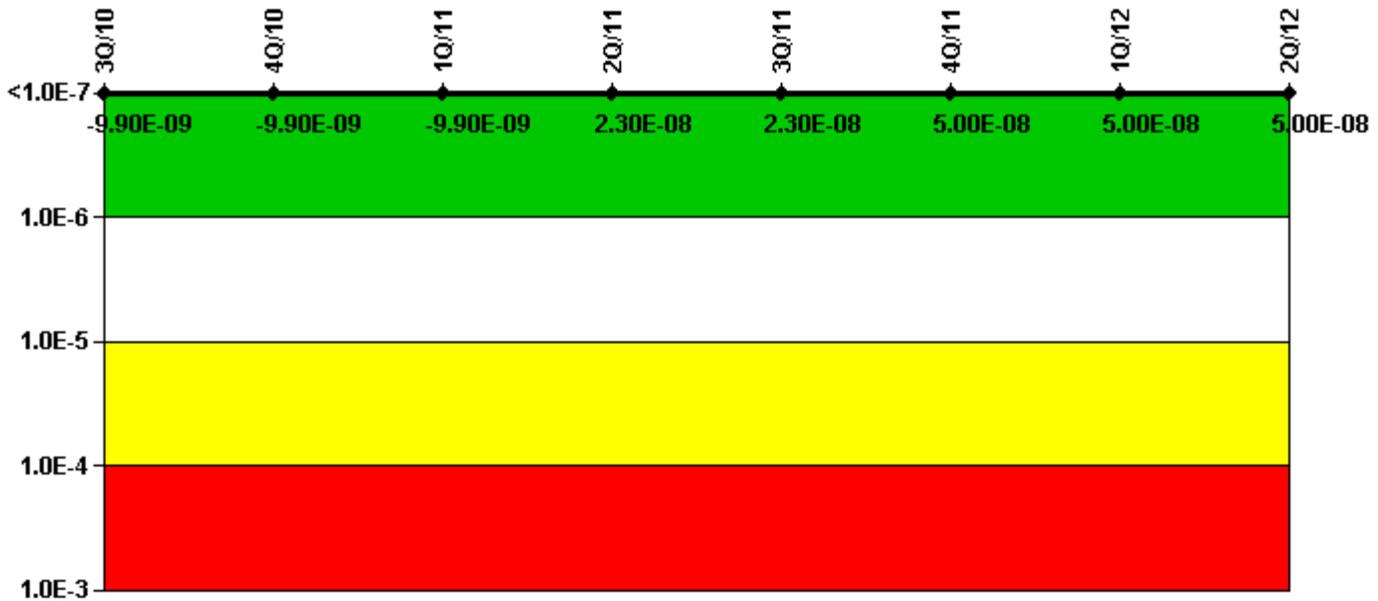
Mitigating Systems Performance Index, High Pressure Injection System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	-3.58E-09	-3.58E-09	-3.58E-09	-3.55E-09	-3.54E-09	2.12E-09	2.12E-09	1.52E-09
URI ( $\Delta$ CDF)	-5.33E-09	-5.32E-09	-5.37E-09	-5.37E-09	-5.34E-09	2.07E-08	2.07E-08	2.07E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.90E-09	-8.90E-09	-9.00E-09	-8.90E-09	-8.90E-09	2.30E-08	2.30E-08	2.20E-08

### Licensee Comments:

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.

3Q/10: Changed PRA Parameter(s).

# 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 ( $\Delta$ CDF)	-3.73E-09	-3.73E-09	-3.73E-09	1.48E-09	3.21E-09	3.21E-09	3.21E-09	3.04E-09
URI ( $\Delta$ CDF)	-6.19E-09	-6.19E-09	-6.19E-09	2.18E-08	2.02E-08	4.71E-08	4.71E-08	4.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.90E-09	-9.90E-09	-9.90E-09	2.30E-08	2.30E-08	5.00E-08	5.00E-08	5.00E-08

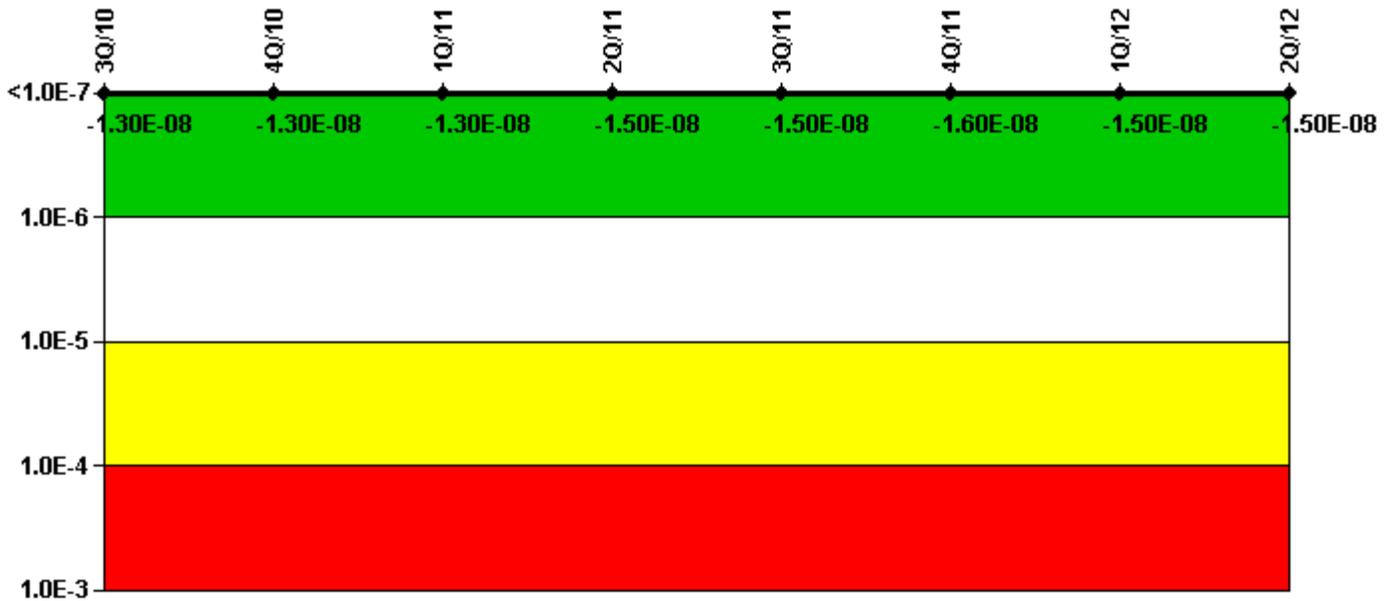
## Licensee Comments:

4Q/11: The 2Q2011 and 3Q2011 Unit 2 RCIC data is revised to account for the Ramp Generator Signal Converter (RGSC) failure in June 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.

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.

3Q/10: Changed PRA Parameter(s).

# Mitigating Systems Performance Index, Residual Heat Removal System



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

## Notes

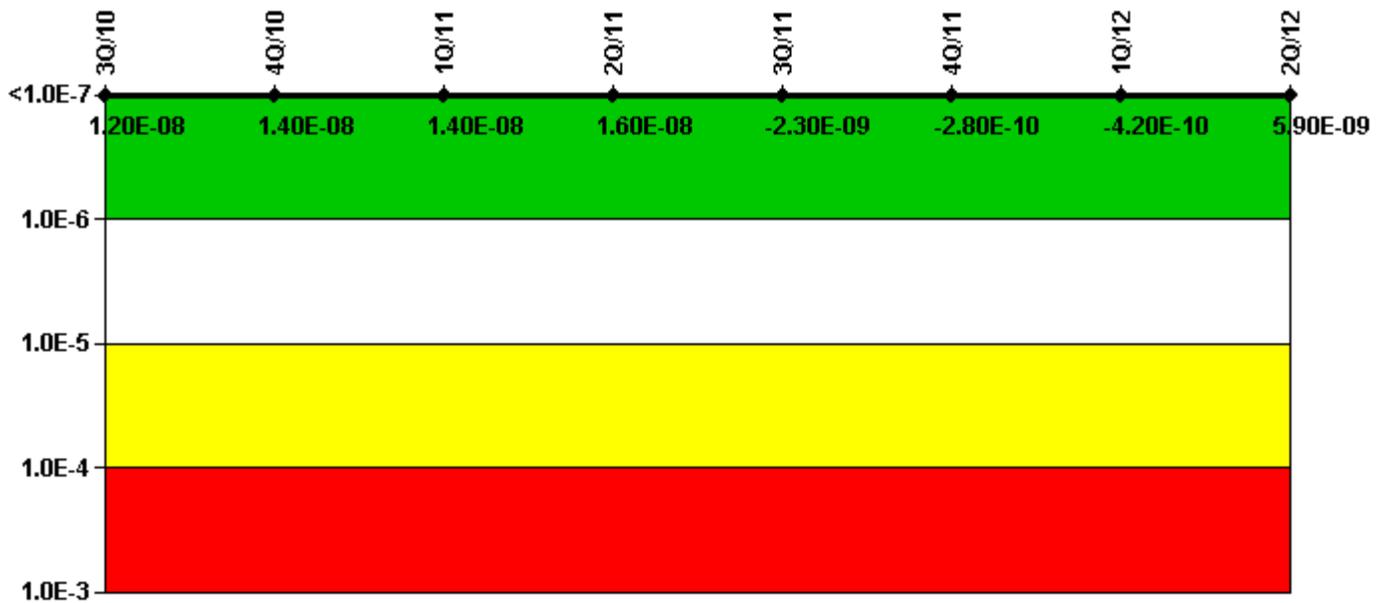
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	-4.02E-10	-1.51E-10	1.12E-10	2.79E-10	-7.59E-11	-5.24E-10	2.55E-10	1.28E-10
URI ( $\Delta$ CDF)	-1.27E-08	-1.30E-08	-1.32E-08	-1.49E-08	-1.51E-08	-1.52E-08	-1.53E-08	-1.51E-08
PLE	NO							
Indicator value	-1.30E-08	-1.30E-08	-1.30E-08	-1.50E-08	-1.50E-08	-1.60E-08	-1.50E-08	-1.50E-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.

3Q/10: Changed PRA Parameter(s).

## 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)	3.99E-08	4.13E-08	4.13E-08	4.50E-08	2.66E-08	2.88E-08	2.87E-08	3.54E-08
URI (ΔCDF)	-2.76E-08	-2.75E-08	-2.75E-08	-2.85E-08	-2.89E-08	-2.90E-08	-2.91E-08	-2.95E-08
PLE	NO							
Indicator value	1.20E-08	1.40E-08	1.40E-08	1.60E-08	-2.30E-09	-2.80E-10	-4.20E-10	5.90E-09

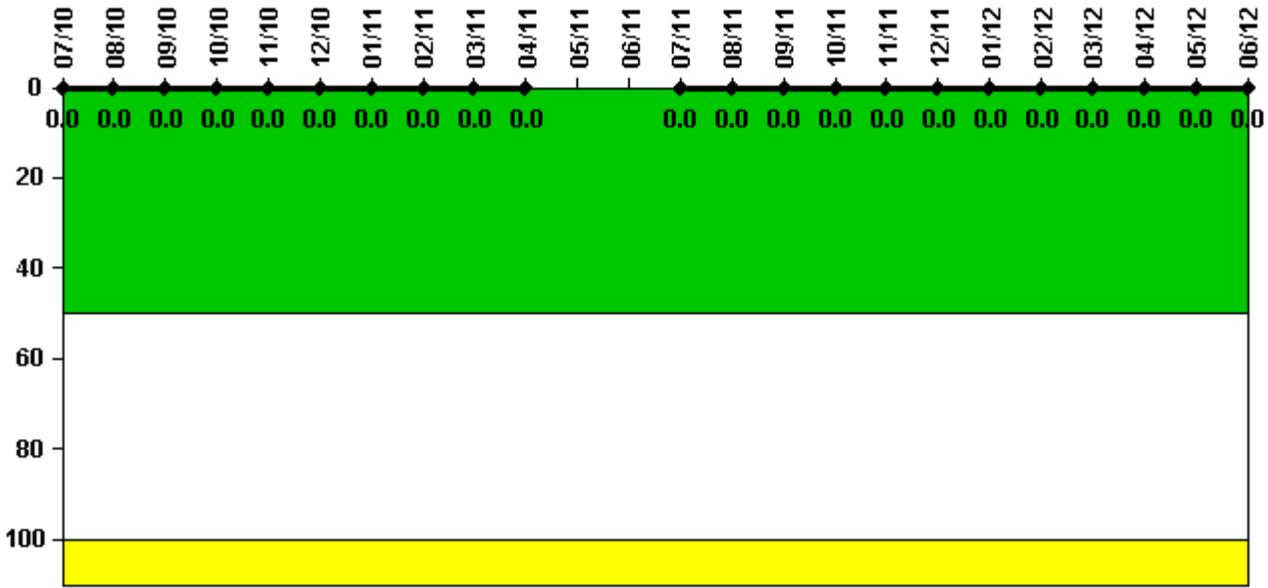
### Licensee Comments:

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: 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.

3Q/10: Changed PRA Parameter(s).

## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

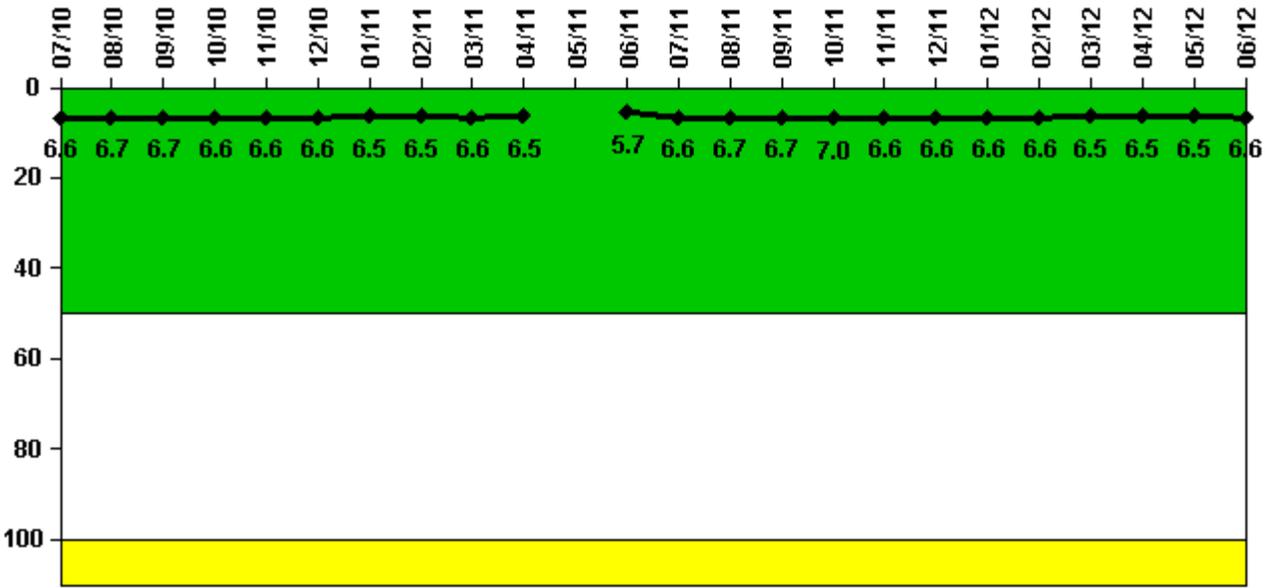
Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000007	0.000006	0.000008	0.000007	0.000008	0.000008	0.000008	0.000008	0.000010	0.000009	N/A	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	N/A	N/A

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	0.000004	0.000004	0.000004	0.000005	0.000005	0.000005	0.000006	0.000005	0.000005	0.000007	0.000005	0.000004
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	0	0	0	0

Licensee Comments: none

## Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

### Notes

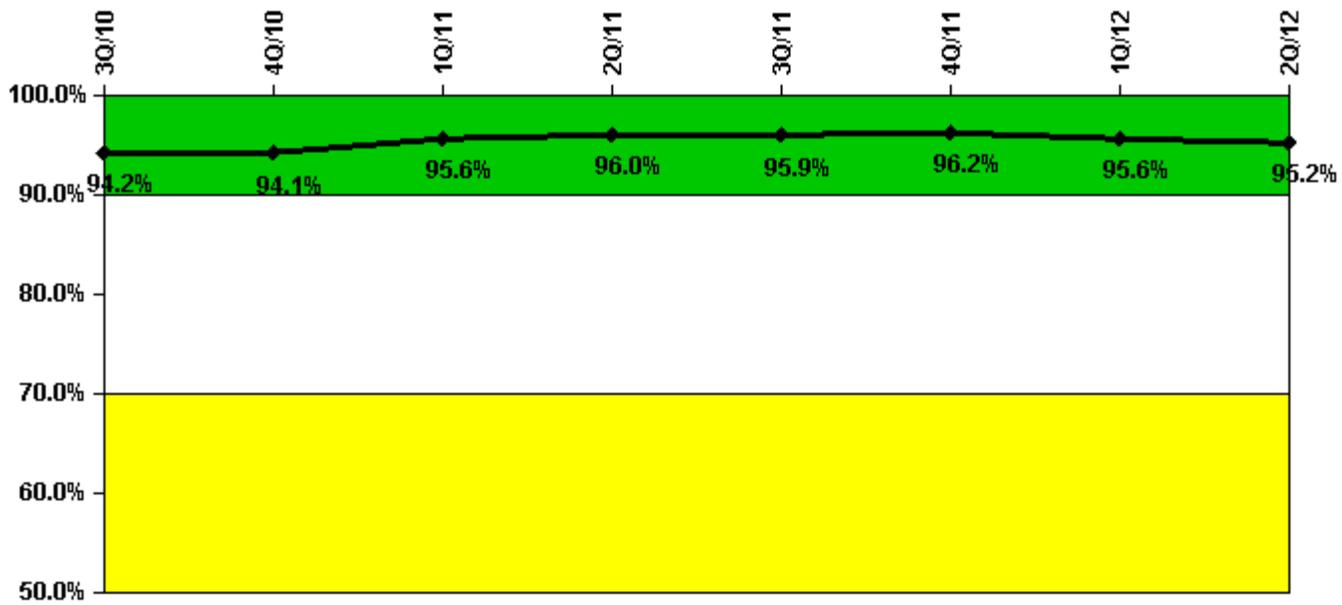
Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	1.660	1.680	1.670	1.650	1.650	1.640	1.620	1.630	1.660	1.620	N/A	1.430
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	6.6	6.7	6.7	6.6	6.6	6.6	6.5	6.5	6.6	6.5	N/A	5.7
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	1.640	1.670	1.680	1.740	1.650	1.650	1.650	1.640	1.630	1.630	1.630	1.640
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	6.6	6.7	6.7	7.0	6.6	6.6	6.6	6.6	6.5	6.5	6.5	6.6

### Licensee Comments:

3/12: The Unit 2 RCSL data for May 2011 originally reported as 0 was changed to N/A because the unit was shutdown for the entire month of May. This change has no safety significance and has no effect on the PI color, which is green.

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



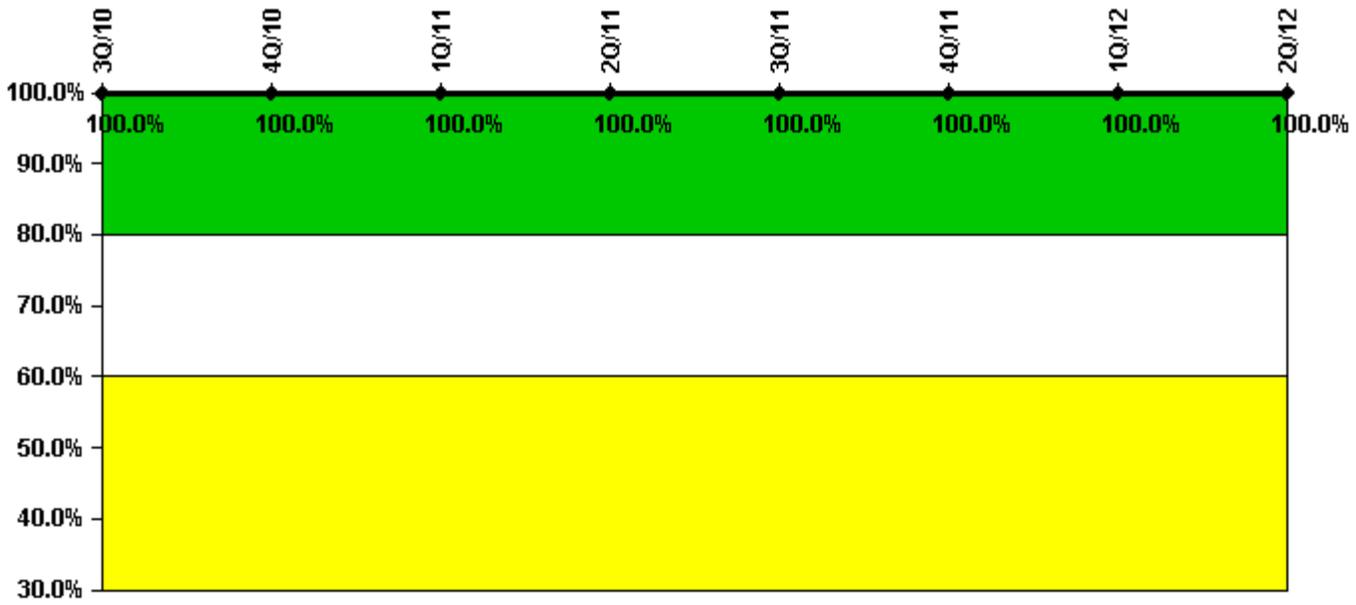
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful opportunities	35.0	18.0	0	21.0	21.0	10.0	23.0	12.0
Total opportunities	36.0	21.0	0	21.0	22.0	10.0	25.0	12.0
Indicator value	94.2%	94.1%	95.6%	96.0%	95.9%	96.2%	95.6%	95.2%

Licensee Comments: none

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

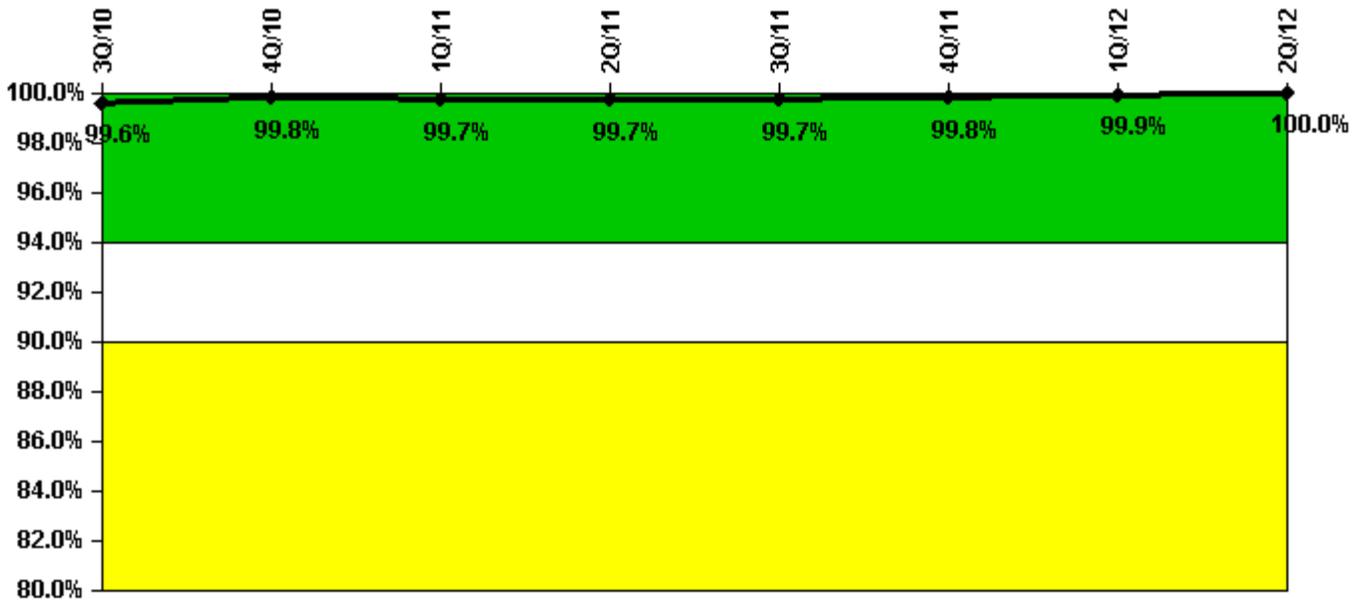
### Notes

ERO Drill Participation	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Participating Key personnel	68.0	68.0	70.0	74.0	72.0	71.0	75.0	75.0
Total Key personnel	68.0	68.0	70.0	74.0	72.0	71.0	75.0	75.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

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# Alert & Notification System



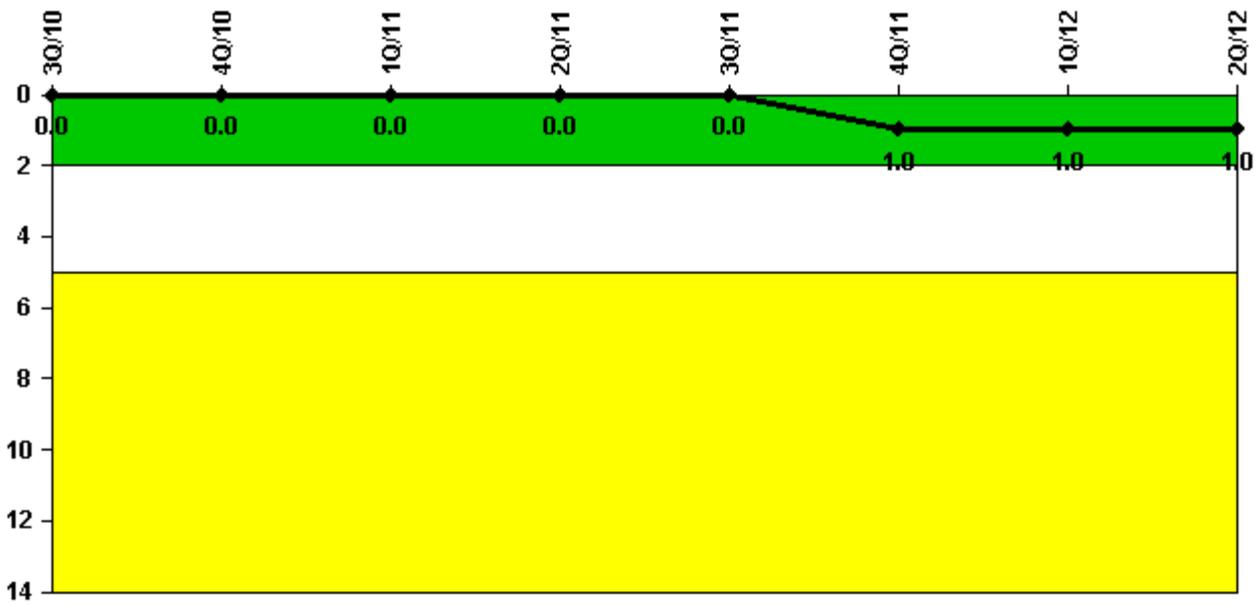
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	605	606	531	606	607	608	608	532
Total sirens-tests	608	608	532	608	608	608	608	532
Indicator value	99.6%	99.8%	99.7%	99.7%	99.7%	99.8%	99.9%	100.0%

Licensee Comments: none

## Occupational Exposure Control Effectiveness



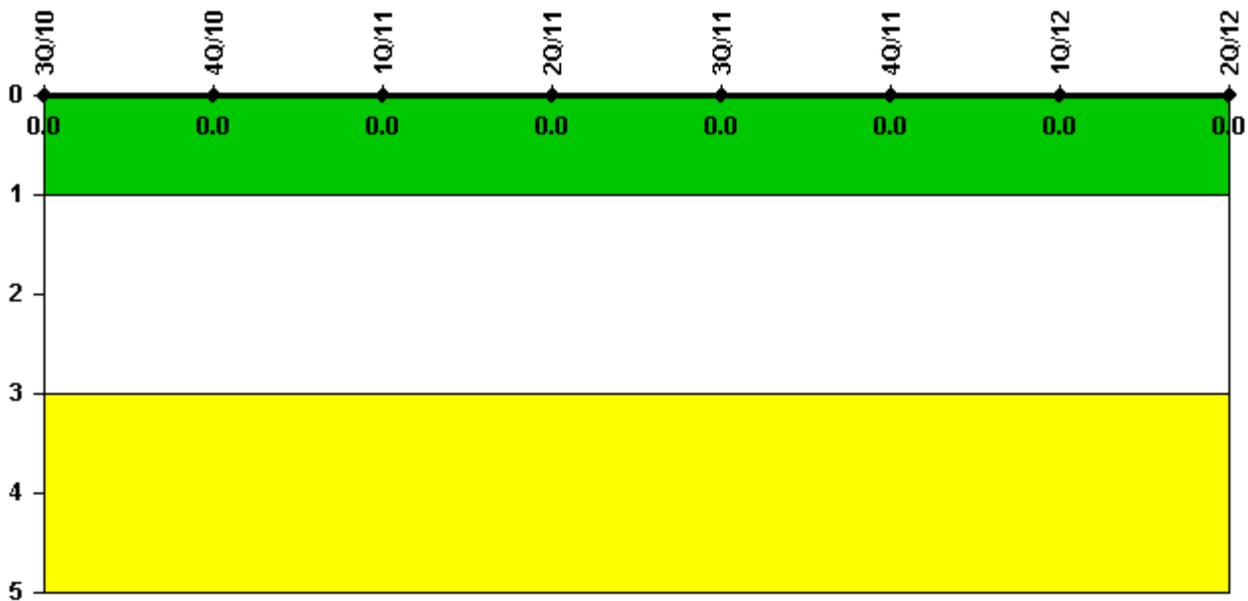
Thresholds: White > 2.0 Yellow > 5.0

### 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	1	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	1	1	1

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

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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.

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