

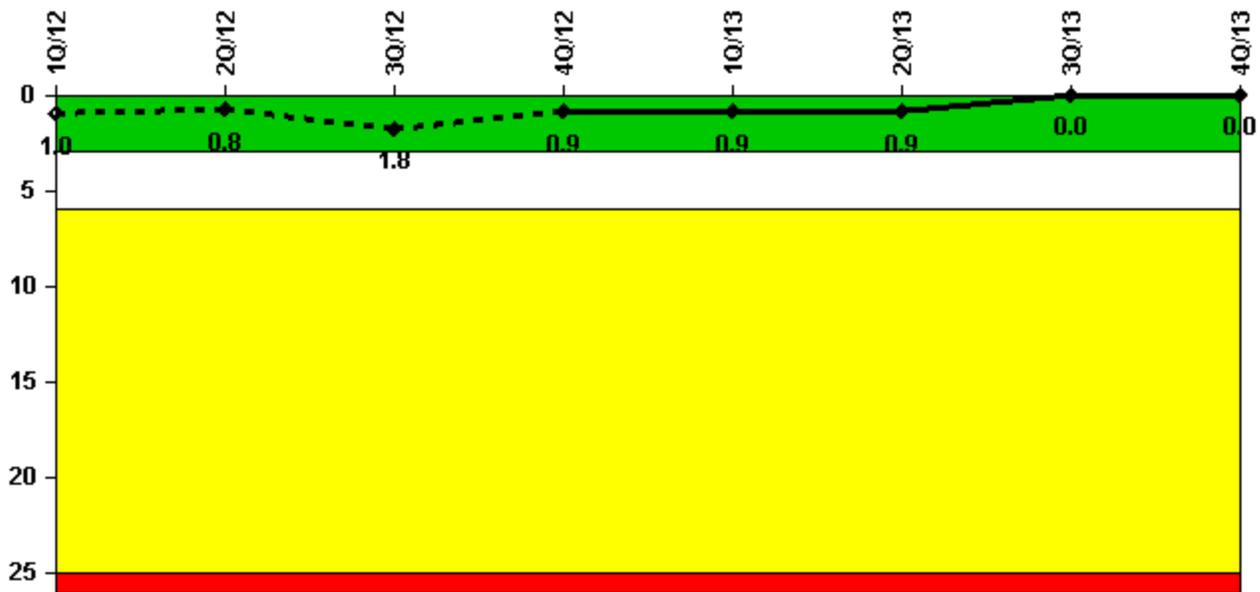
Seabrook 1

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



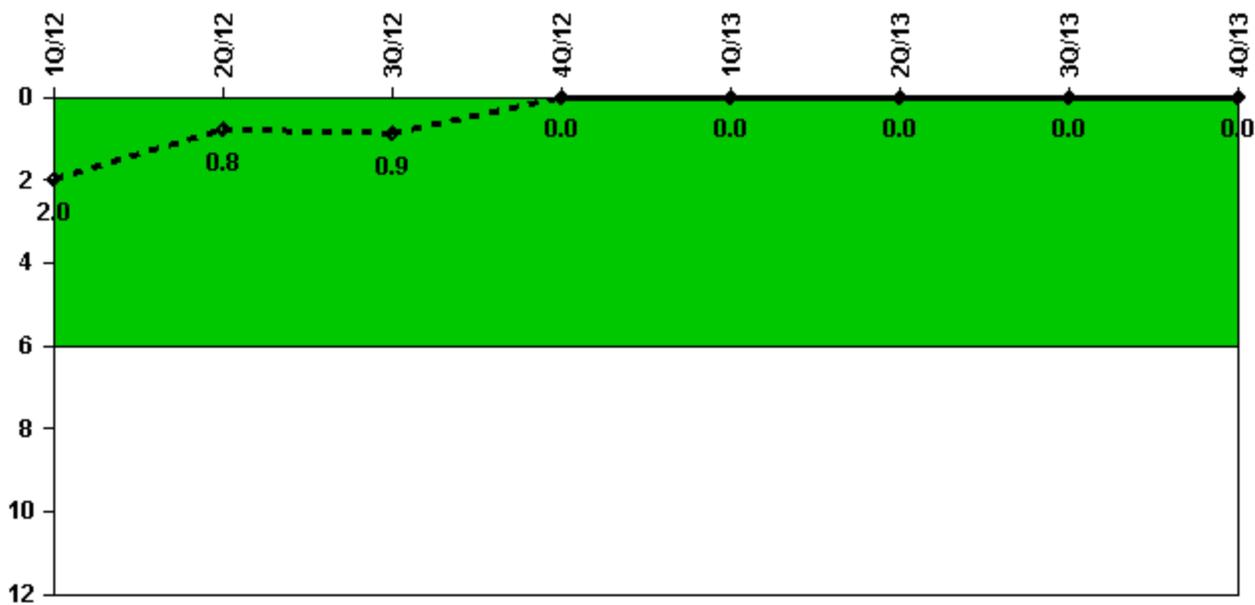
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2183.0	2184.0	1820.4	1523.9	2159.0	2184.0	2208.0	2209.0
Indicator value	1.0	0.8	1.8	0.9	0.9	0.9	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



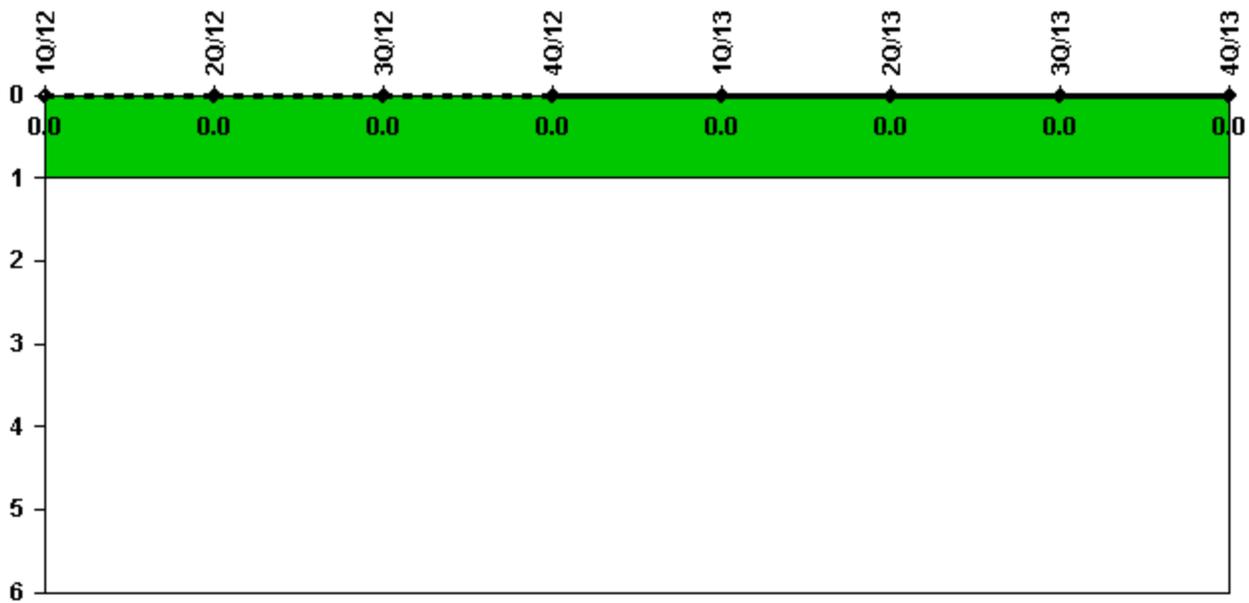
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	1820.4	1523.9	2159.0	2184.0	2208.0	2209.0
Indicator value	2.0	0.8	0.9	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



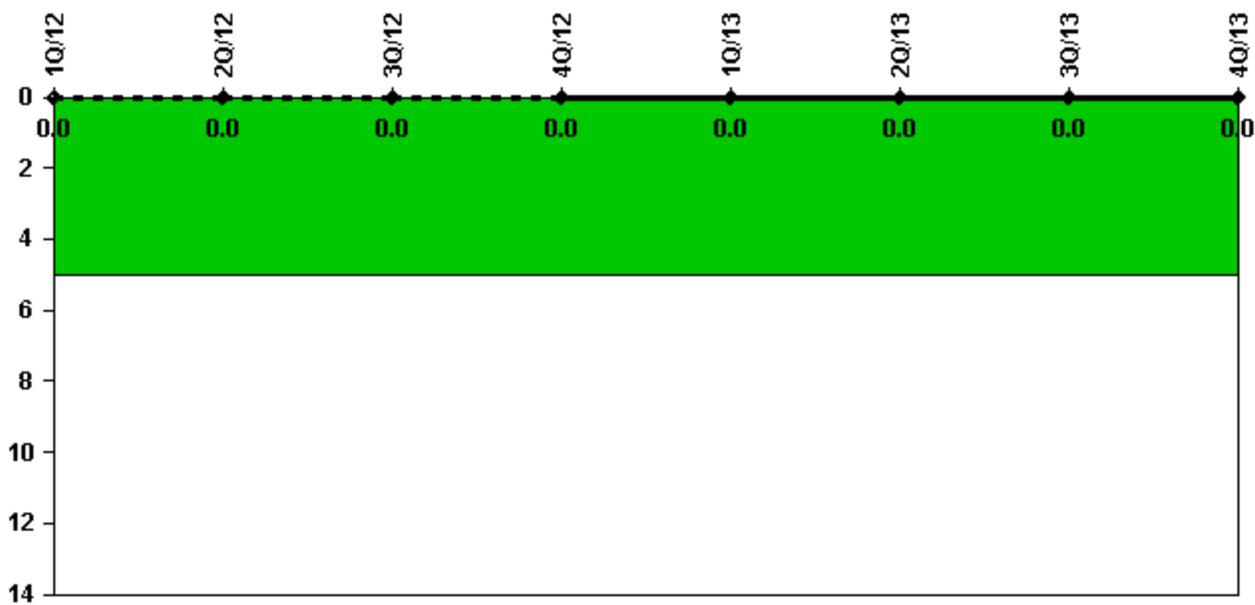
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



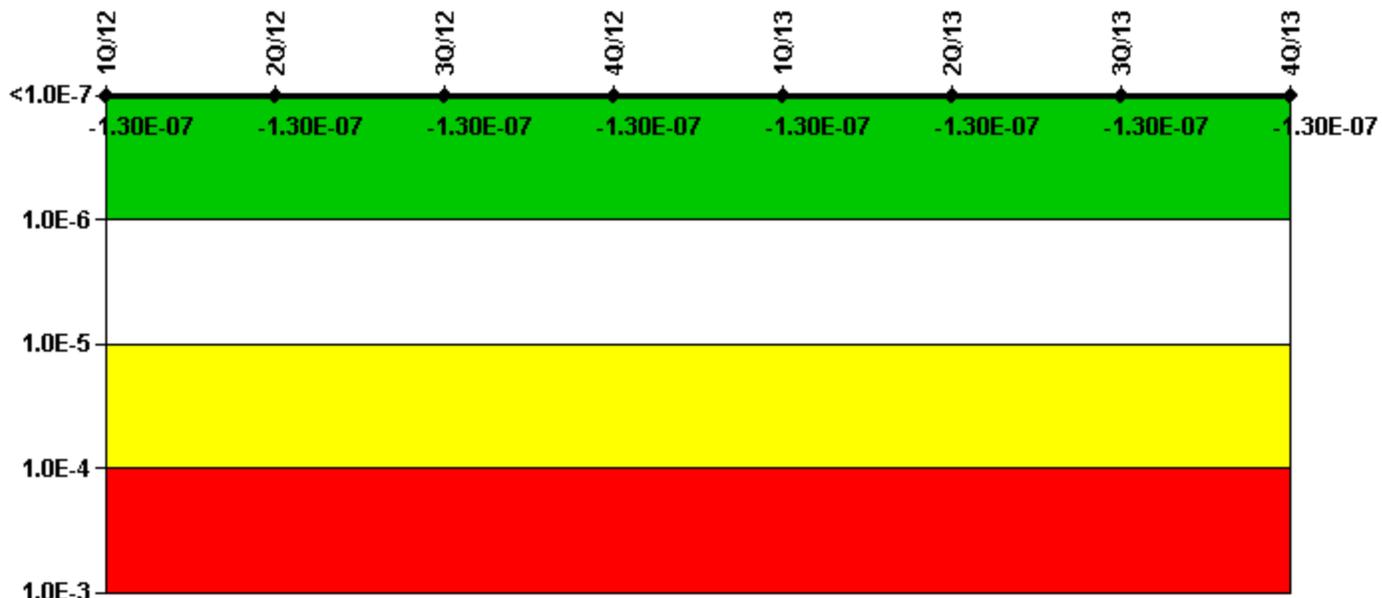
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

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	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-3.32E-08							
URI (Δ CDF)	-9.82E-08	-9.77E-08	-9.83E-08	-9.72E-08	-9.53E-08	-9.85E-08	-9.81E-08	-9.66E-08
PLE	NO							
Indicator value	-1.30E-07							

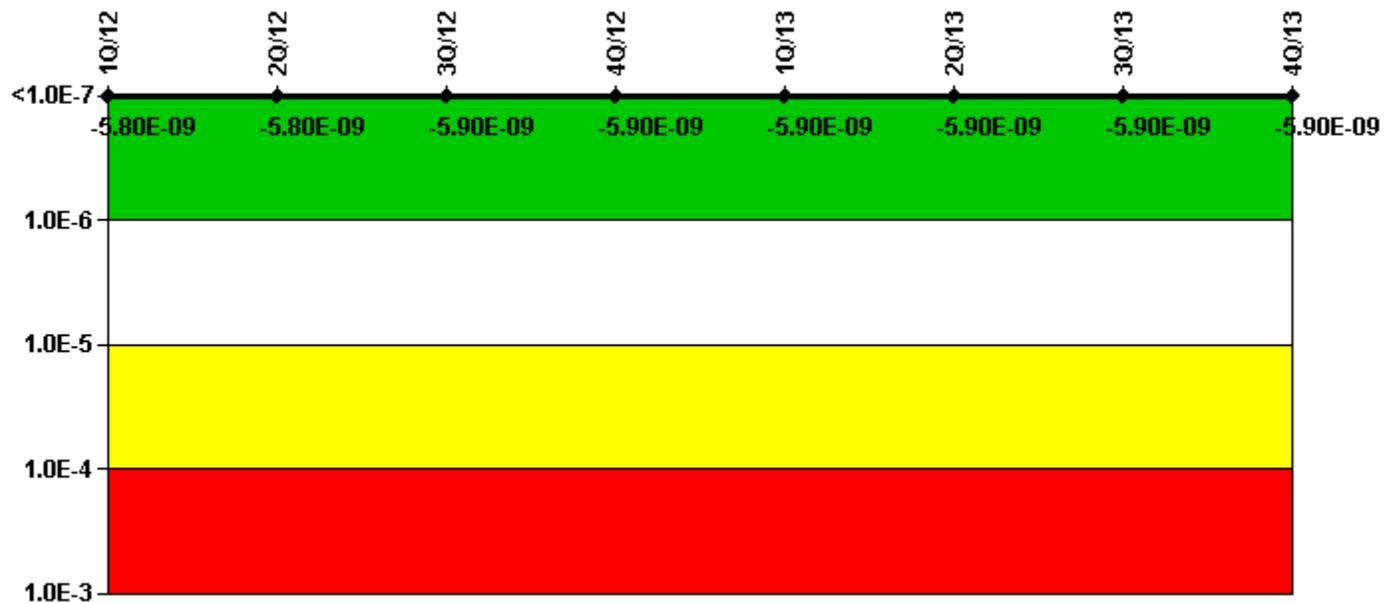
Licensee Comments:

2Q/12: FAQ 10-06, which provides clarification on the guidance for what constitutes cascading became effective in April 2012 and has been incorporated into the basis document which was revised in December 2011. There were no 2Q12 PRA changes as a result of this FAQ.

1Q/12: Basis document was updated with the following: To reflect the Seabrook EDG fuel oil transfers pumps now are part of the EDG super component. The EAC boundary drawing has been updated on page 17. Failure of the FO transfer pump may be considered a failure of the EDG super component. (FAQ 11-07). Changes made to the basis document on page 22. Crosstie ability exists between transfer systems. Day tank low level alarm occurs at 702 gallons (D6565/D6615) and alarms in the control room. EDG failure is assumed at 91 minutes given full load usage of 7.7 gpm. The fuel oil transfer pumps can be cross-connected to supply either EDGs day tank. One FOTP can supply 20 gpm. This is enough fuel oil for both EDGs running at full load. The cross-connection is a manual action performed by an operator in the field using procedure OX1426.33. Operator action to crosstie the fuel oil transfer system is not explicitly modeled in the PRA. Therefore the PRA assumes a failure of the fuel oil transfer pump fails the EDG. A single fuel storage tank has enough fuel to last 7 days per technical specification

requirements. This allows for both diesels to meet the 24-hour mission time requirement if only supplied from one storage tank. Suction can be taken from either storage tank. Justification exists for screening out FOTP failures. The screening determination will be made by the individual failure investigation (FAQ 11-08). Changes are effective beginning with 1st quarter 2012 data.

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	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	-3.13E-09							
URI (ΔCDF)	-2.68E-09	-2.68E-09	-2.81E-09	-2.79E-09	-2.80E-09	-2.78E-09	-2.78E-09	-2.79E-09
PLE	NO							
Indicator value	-5.80E-09	-5.80E-09	-5.90E-09	-5.90E-09	-5.90E-09	-5.90E-09	-5.90E-09	-5.90E-09

Licensee Comments:

2Q/12: FAQ 10-06, which provides clarification on the guidance for what constitutes cascading became effective in April 2012 and has been incorporated into the basis document which was revised in December 2011. There were no 2Q12 PRA changes as a result of this FAQ.

Mitigating Systems Performance Index, Heat Removal System



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

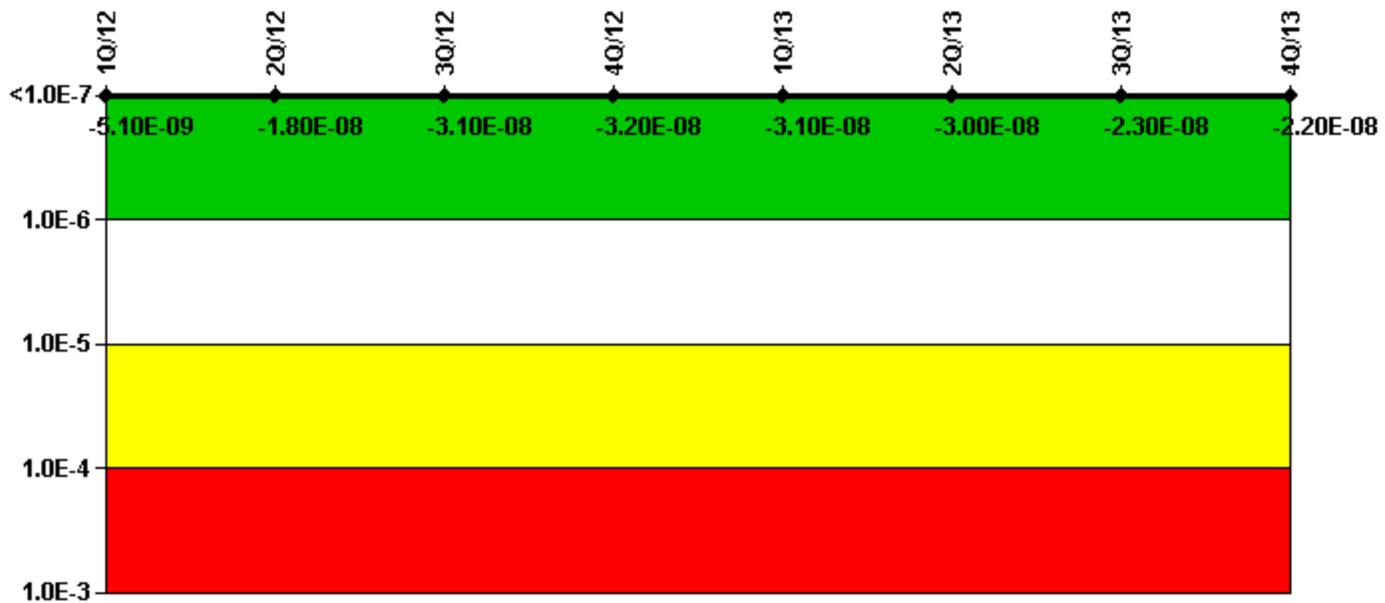
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-2.01E-08	-2.02E-08	-1.98E-08	-2.02E-08	-2.02E-08	-2.02E-08	-1.89E-08	-2.02E-08
URI (Δ CDF)	-3.88E-08	-3.88E-08	-4.01E-08	-3.99E-08	-3.99E-08	-3.98E-08	-3.98E-08	-3.98E-08
PLE	NO							
Indicator value	-5.90E-08	-5.90E-08	-6.00E-08	-6.00E-08	-6.00E-08	-6.00E-08	-5.90E-08	-6.00E-08

Licensee Comments:

2Q/12: FAQ 10-06, which provides clarification on the guidance for what constitutes cascading became effective in April 2012 and has been incorporated into the basis document which was revised in December 2011. There were no 2Q12 PRA changes as a result of this FAQ.

Mitigating Systems Performance Index, Residual Heat Removal System



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

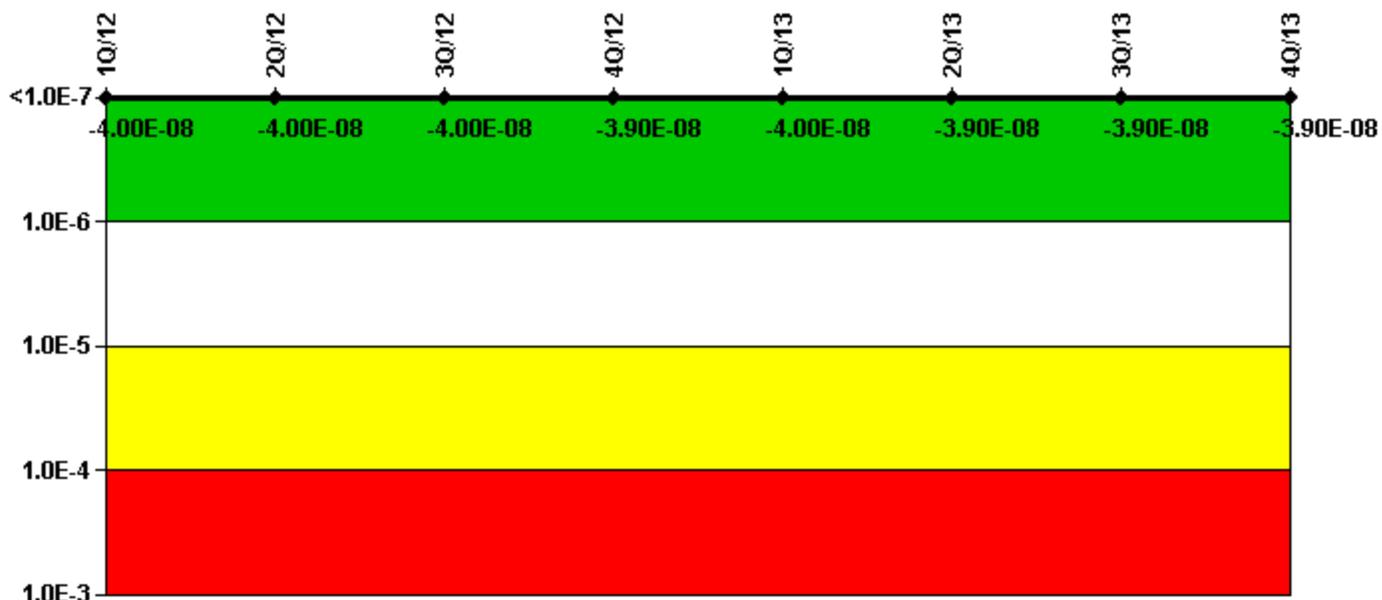
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	2.27E-08	9.98E-09	-1.80E-09	-3.09E-09	-2.11E-09	-1.78E-09	5.71E-09	6.20E-09
URI (Δ CDF)	-2.78E-08	-2.78E-08	-2.93E-08	-2.85E-08	-2.85E-08	-2.84E-08	-2.83E-08	-2.82E-08
PLE	NO							
Indicator value	-5.10E-09	-1.80E-08	-3.10E-08	-3.20E-08	-3.10E-08	-3.00E-08	-2.30E-08	-2.20E-08

Licensee Comments:

2Q/12: FAQ 10-06, which provides clarification on the guidance for what constitutes cascading became effective in April 2012 and has been incorporated into the basis document which was revised in December 2011. There were no 2Q12 PRA changes as a result of this FAQ.

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	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	3.54E-10	3.54E-10	3.60E-10	3.52E-10	-1.93E-14	-1.93E-14	-1.93E-14	-1.93E-14
URI (Δ CDF)	-4.05E-08	-4.03E-08	-4.04E-08	-3.97E-08	-3.97E-08	-3.95E-08	-3.94E-08	-3.94E-08
PLE	NO							
Indicator value	-4.00E-08	-4.00E-08	-4.00E-08	-3.90E-08	-4.00E-08	-3.90E-08	-3.90E-08	-3.90E-08

Licensee Comments:

2Q/12: FAQ 10-06, which provides clarification on the guidance for what constitutes cascading became effective in April 2012 and has been incorporated into the basis document which was revised in December 2011. There were no 2Q12 PRA changes as a result of this FAQ.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

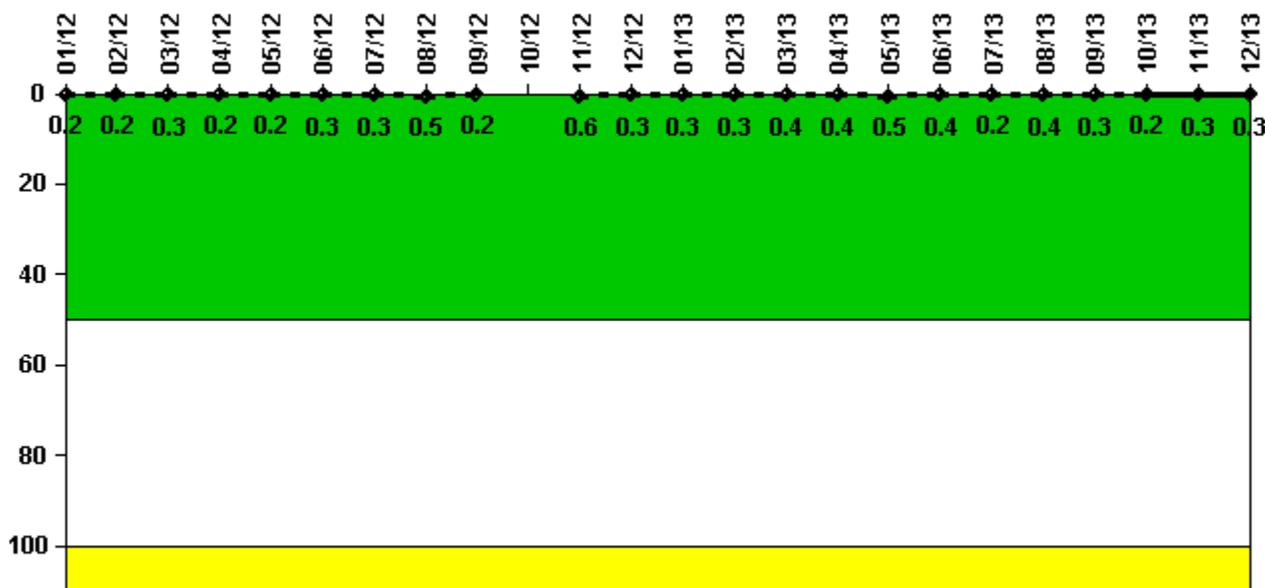
Reactor Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	0.000042	0.000062	0.000062	0.000056	0.000060	0.000056	0.000062	0.000080	0.000059	N/A	0.000039	0.000062
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	N/A	0	0

Reactor Coolant System Activity	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum activity	0.000045	0.000045	0.000052	0.000062	0.000047	0.000064	0.000055	0.000067	0.000056	0.000060	0.000063	0.000064
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments:

12/12: Reactor Coolant System Activity data was unavailable for the month of October as the unit was shutdown for refueling and RCS activity was not required to be calculated.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

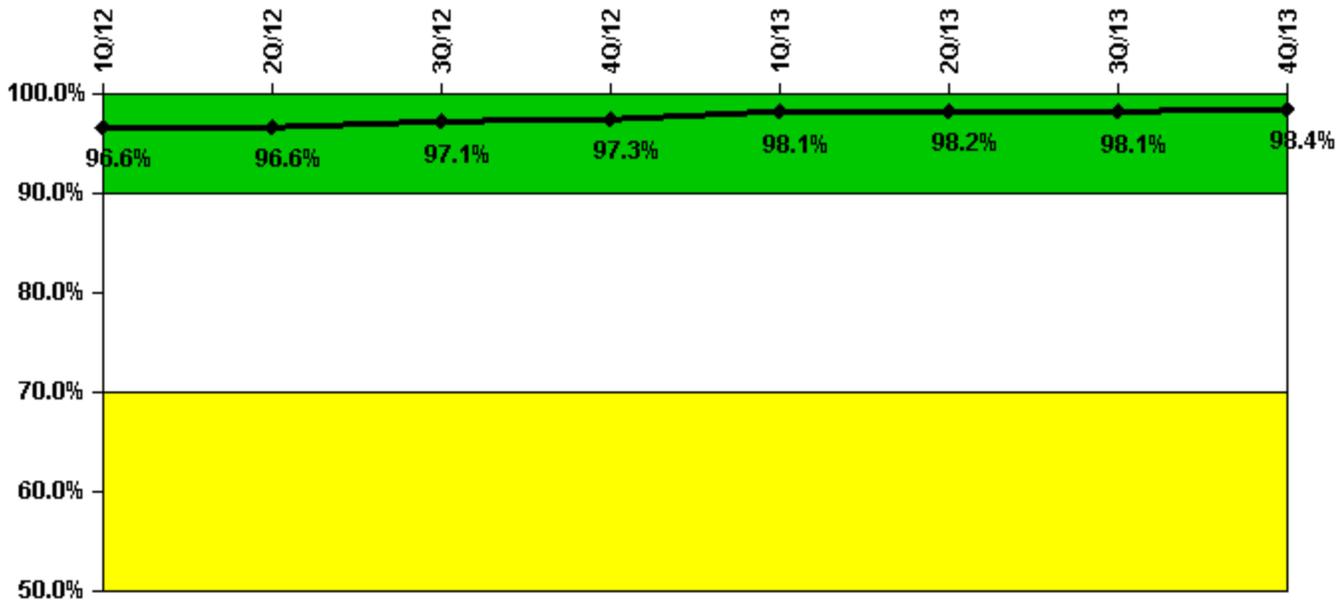
Reactor Coolant System Leakage	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum leakage	0.024	0.024	0.027	0.022	0.024	0.025	0.028	0.047	0.021	N/A	0.056	0.029
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.5	0.2	N/A	0.6	0.3

Reactor Coolant System Leakage	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum leakage	0.027	0.029	0.039	0.040	0.045	0.035	0.024	0.043	0.034	0.024	0.033	0.032
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	0.3	0.3	0.4	0.4	0.5	0.4	0.2	0.4	0.3	0.2	0.3	0.3

Licensee Comments:

12/12: Reactor Coolant Identified Leak Rate data was unavailable for the month of October as the unit was shutdown for refueling and RCS leakage was not required to be calculated.

Drill/Exercise Performance



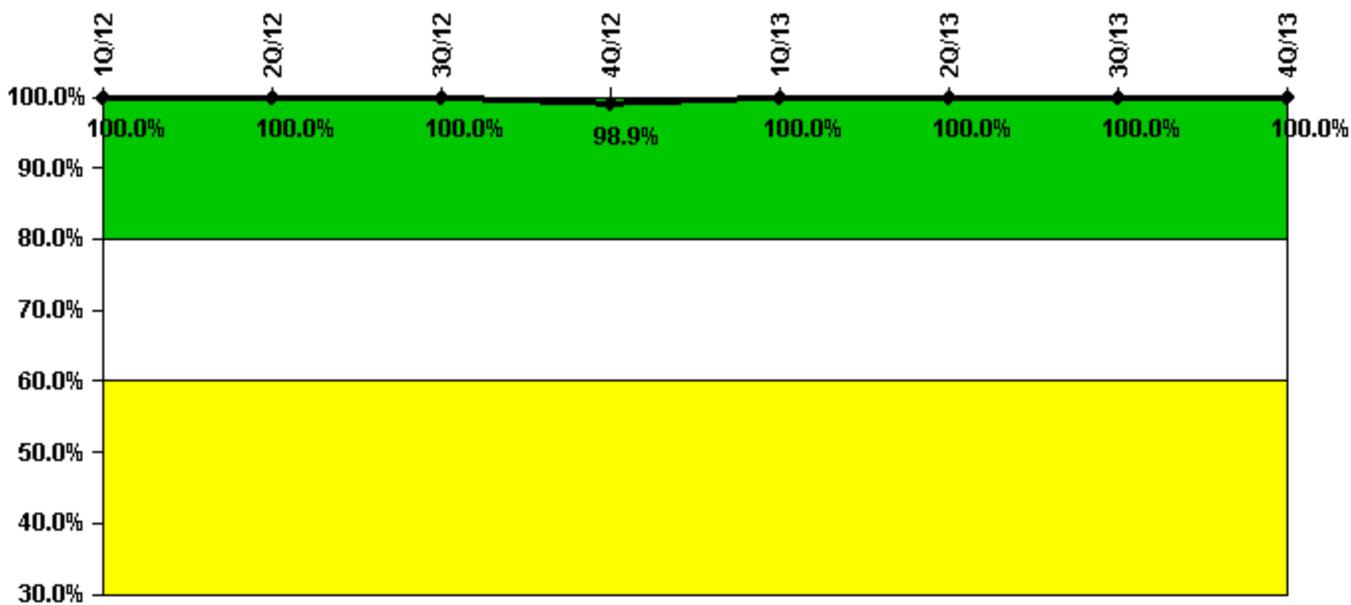
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	41.0	29.0	22.0	36.0	29.0	27.0	16.0	44.0
Total opportunities	42.0	31.0	22.0	36.0	29.0	27.0	17.0	44.0
Indicator value	96.6%	96.6%	97.1%	97.3%	98.1%	98.2%	98.1%	98.4%

Licensee Comments: none

ERO Drill Participation



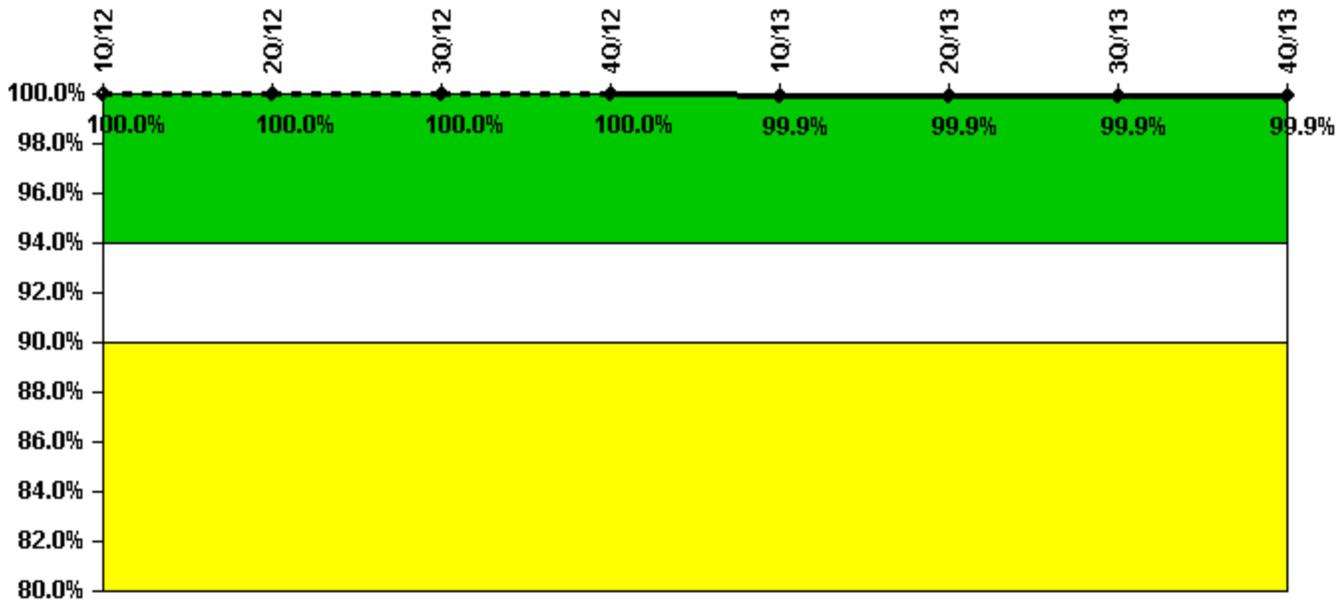
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	95.0	94.0	94.0	89.0	91.0	94.0	95.0	94.0
Total Key personnel	95.0	94.0	94.0	90.0	91.0	94.0	95.0	94.0
Indicator value	100.0%	100.0%	100.0%	98.9%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



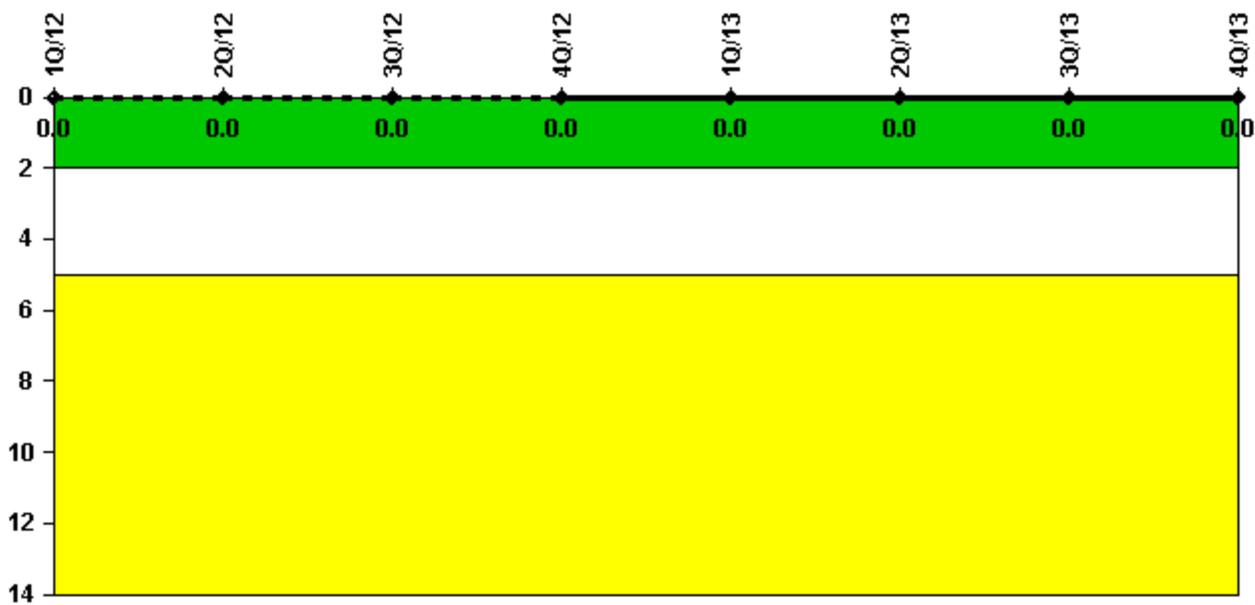
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	726	847	726	846	724	847	726	847
Total sirens-tests	726	847	726	847	726	847	726	847
Indicator value	100.0%	100.0%	100.0%	100.0%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



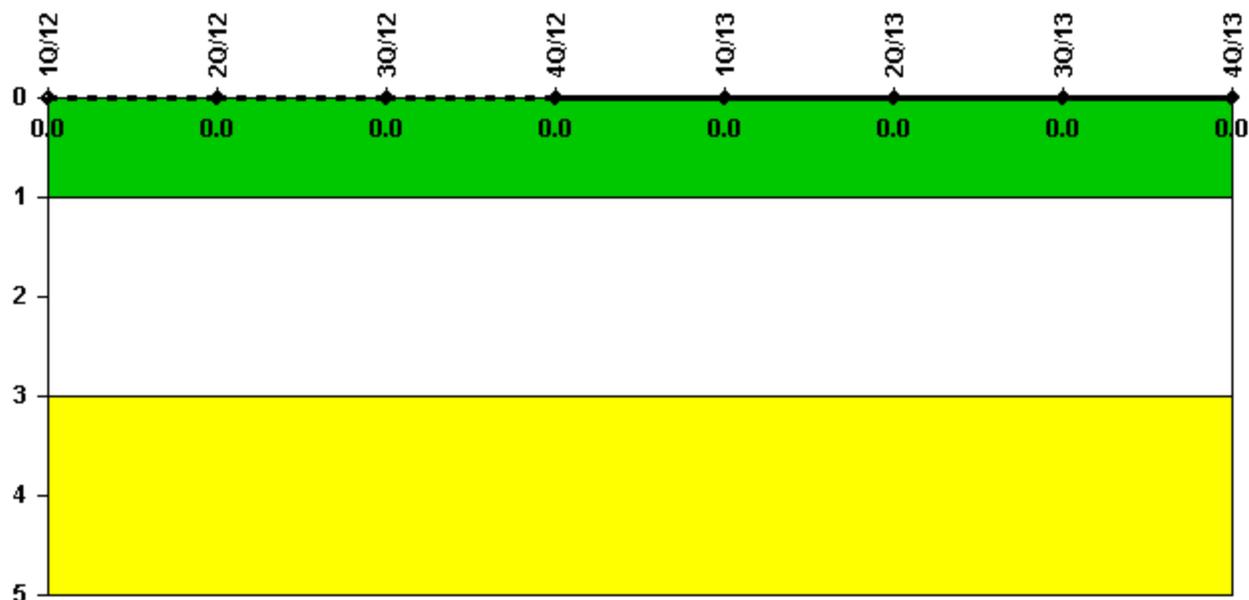
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
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	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
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: January 22, 2014