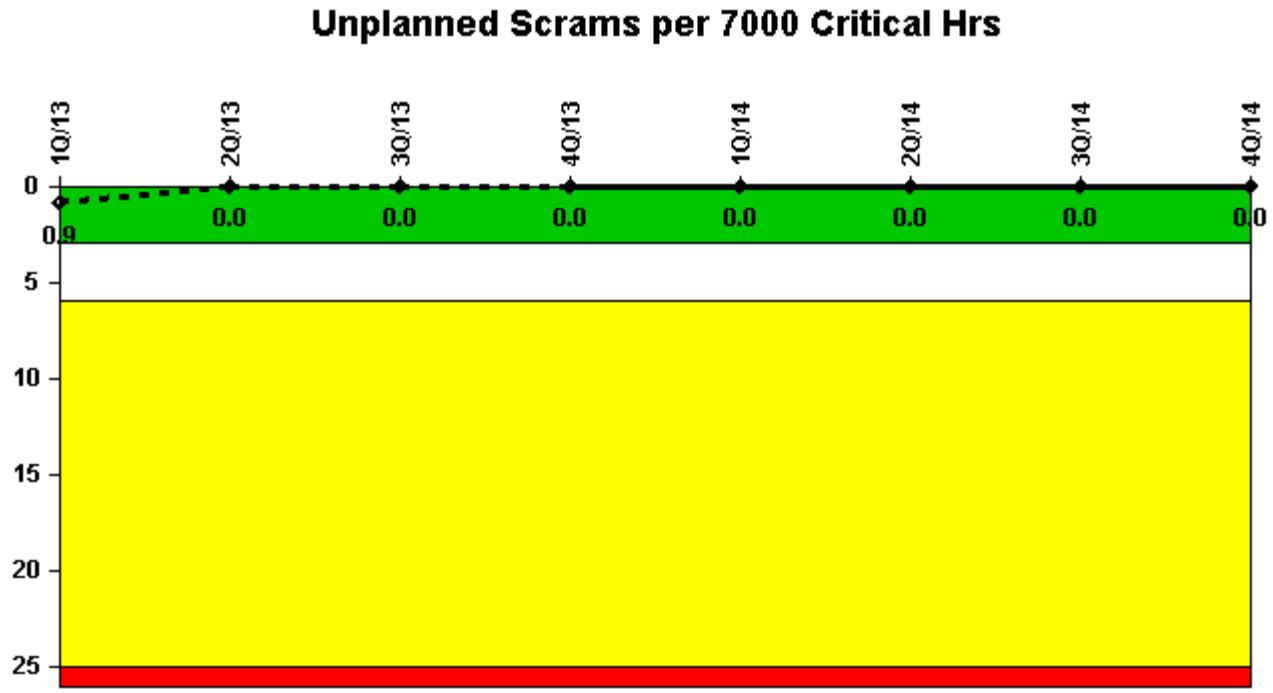
Point Beach 2

4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

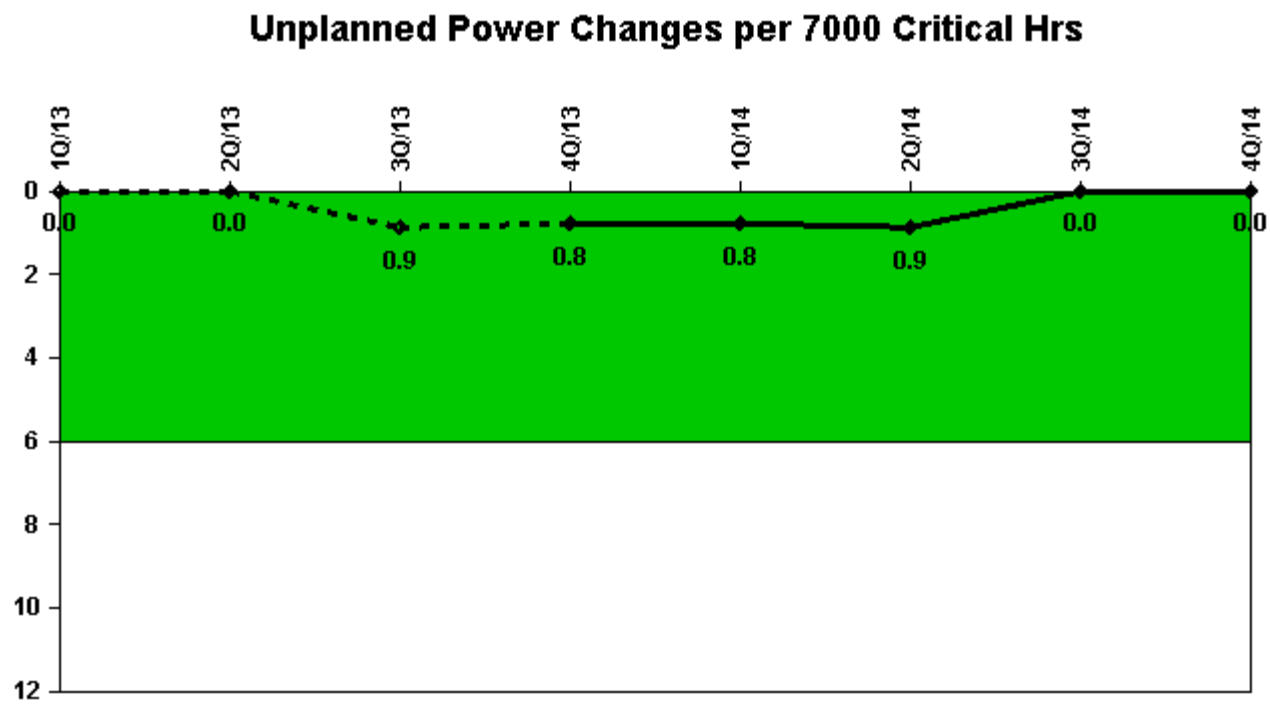


Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	1799.5	1795.9	2185.1	2209.0
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none



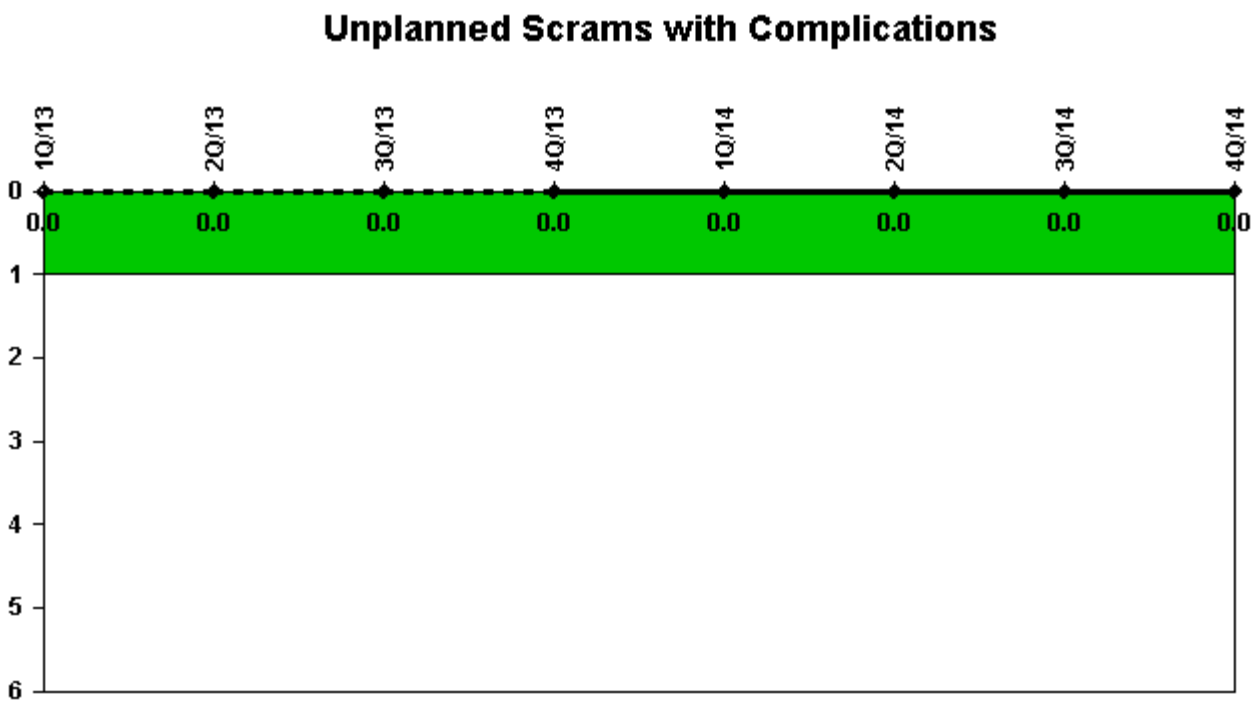
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	1799.5	1795.9	2185.1	2209.0
Indicator value	**0**	**0**	**0.9**	**0.8**	**0.8**	**0.9**	**0**	**0**

Licensee Comments:

3Q/13: Power reduction due to steam leak on main feedwater pump 2P-28A. Power was reduced and the main feedwater pump steam leak was repaired.

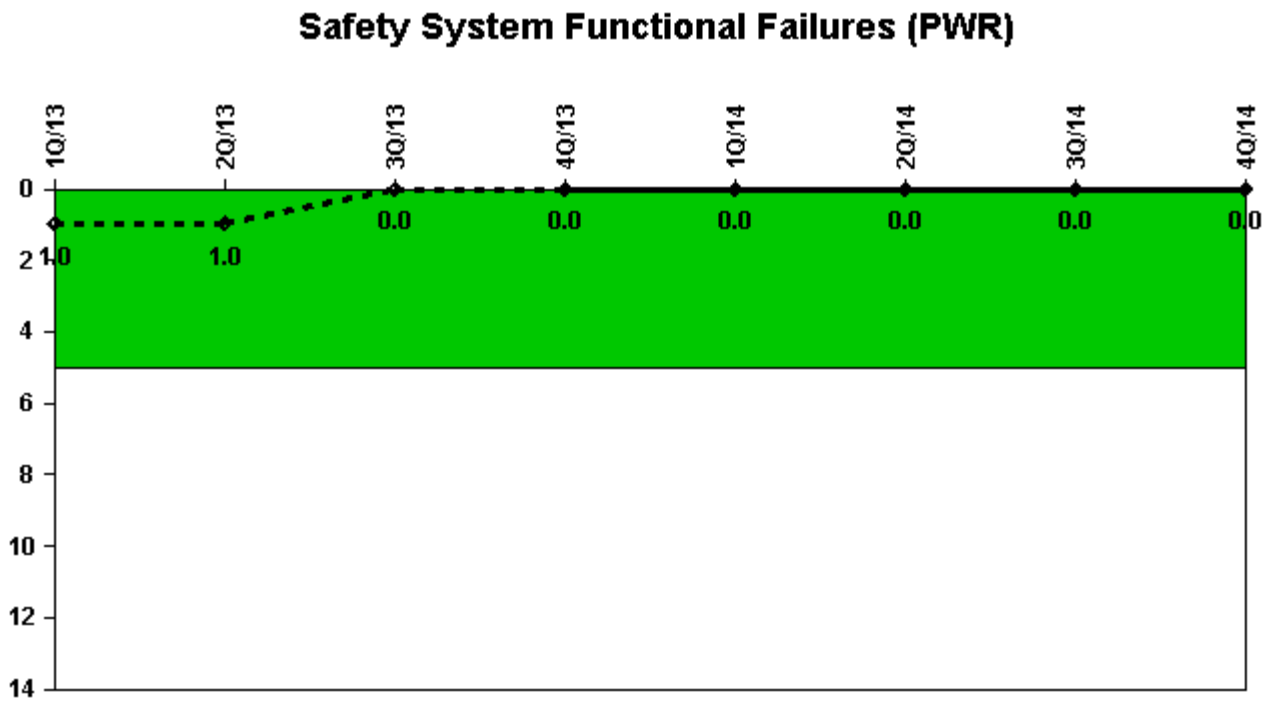


Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
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



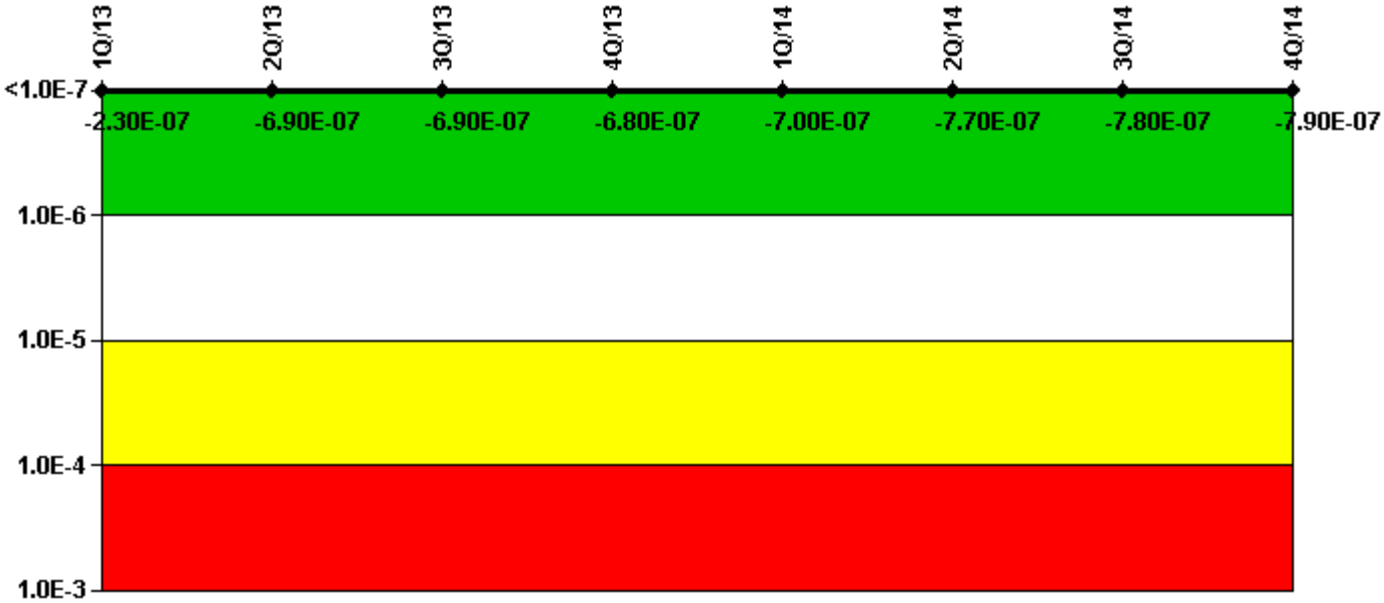
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**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/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	5.28E-08	5.89E-08	5.54E-08	6.00E-08	4.64E-08	2.11E-08	1.06E-08	2.86E-09
URI (ΔCDF)	-2.84E-07	-7.46E-07	-7.41E-07	-7.43E-07	-7.44E-07	-7.94E-07	-7.95E-07	-7.95E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-07**	**-6.90E-07**	**-6.90E-07**	**-6.80E-07**	**-7.00E-07**	**-7.70E-07**	**-7.80E-07**	**-7.90E-07**

Licensee Comments:

3Q/14: EAC numbers for May 2014 were updated due to data error. Reference AR 01994937 and AR01995233.

2Q/14: Changed PRA Parameter(s). The PBNP PRA Model Revision 5.02 was approved on January 17, 2014 with a corresponding MSPI Basis Document revision 23 approved on June 27, 2014. The primary purpose of the PRA update was to resolve an issue identified with the previous model that affected the CDF and LERF calculations when components were taken out of service by setting their basic events to logical TRUE.

3Q/13: Revised estimated run hours to account for endurance tests. (RWT01837653) Effective 4Q13. ESF starts added from Feb 2013 (AR01890255).

2Q/13: MSPI Basis Document has been updated to incorporate PRA Model 5.01 which was implemented March 1, 2013. This version of the PRA model incorporates a new data analysis using plant data from 2003-2008.

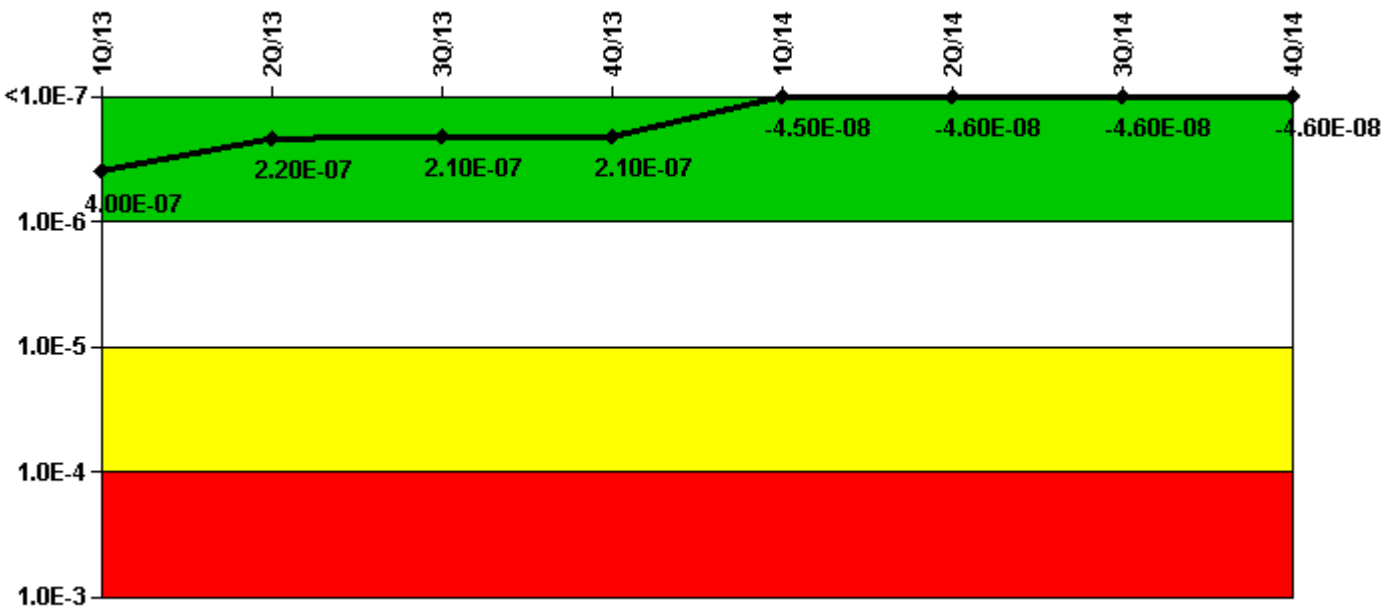
2Q/13: Changed PRA Parameter(s). MSPI Basis Document has been updated to incorporate PRA Model 5.01 which was implemented March 1, 2013. This version of the PRA model incorporates a new data analysis using

plant data from 2003-2008.

1Q/13: MSPI Basis Document Rev 20 issued, no PRA parameters changed.

1Q/13: MSPI Basis Document Rev 20 issued, no PRA parameters changed.

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/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	1.01E-08	-2.94E-09	-6.12E-09	-6.21E-09	-1.68E-08	-1.73E-08	-1.73E-08	-1.73E-08
URI (ΔCDF)	3.90E-07	2.20E-07	2.20E-07	2.20E-07	-2.81E-08	-2.84E-08	-2.84E-08	-2.84E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.00E-07**	**2.20E-07**	**2.10E-07**	**2.10E-07**	**-4.50E-08**	**-4.60E-08**	**-4.60E-08**	**-4.60E-08**

Licensee Comments:

2Q/14: Changed PRA Parameter(s). The PBNP PRA Model Revision 5.02 was approved on January 17, 2014 with a corresponding MSPI Basis Document revision 23 approved on June 27, 2014. The primary purpose of the PRA update was to resolve an issue identified with the previous model that affected the CDF and LERF calculations

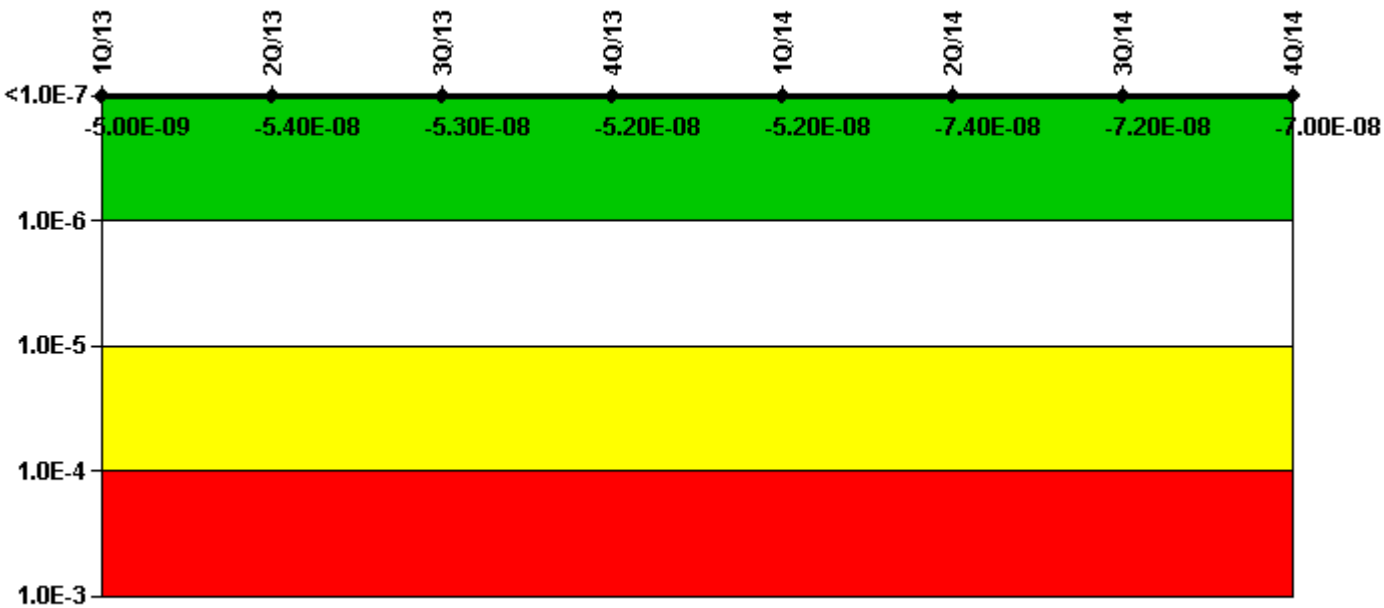
when components were taken out of service by setting their basic events to logical TRUE.

2Q/13: Changed PRA Parameter(s). Failure 247779 for 2P-15B oiler being empty had erroneously been changed to not a failure. This has been corrected (AR01883159). MSPI Basis Document has been updated to incorporate PRA Model 5.01 which was implemented March 1, 2013. This version of the PRA model incorporates a new data analysis using plant data from 2003-2008.

1Q/13: MSPI Basis Document Rev 20 issued, no PRA parameters changed.

1Q/13: MSPI Basis Document Rev 20 issued, no PRA parameters changed.

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/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	5.35E-09	-9.87E-09	-9.18E-09	-9.99E-09	-1.19E-08	-2.44E-08	-2.44E-08	-2.44E-08
URI (ΔCDF)	-1.03E-08	-4.42E-08	-4.37E-08	-4.21E-08	-4.04E-08	-4.94E-08	-4.75E-08	-4.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.00E-09**	**-5.40E-08**	**-5.30E-08**	**-5.20E-08**	**-5.20E-08**	**-7.40E-08**	**-7.20E-08**	**-7.00E-08**

Licensee Comments:

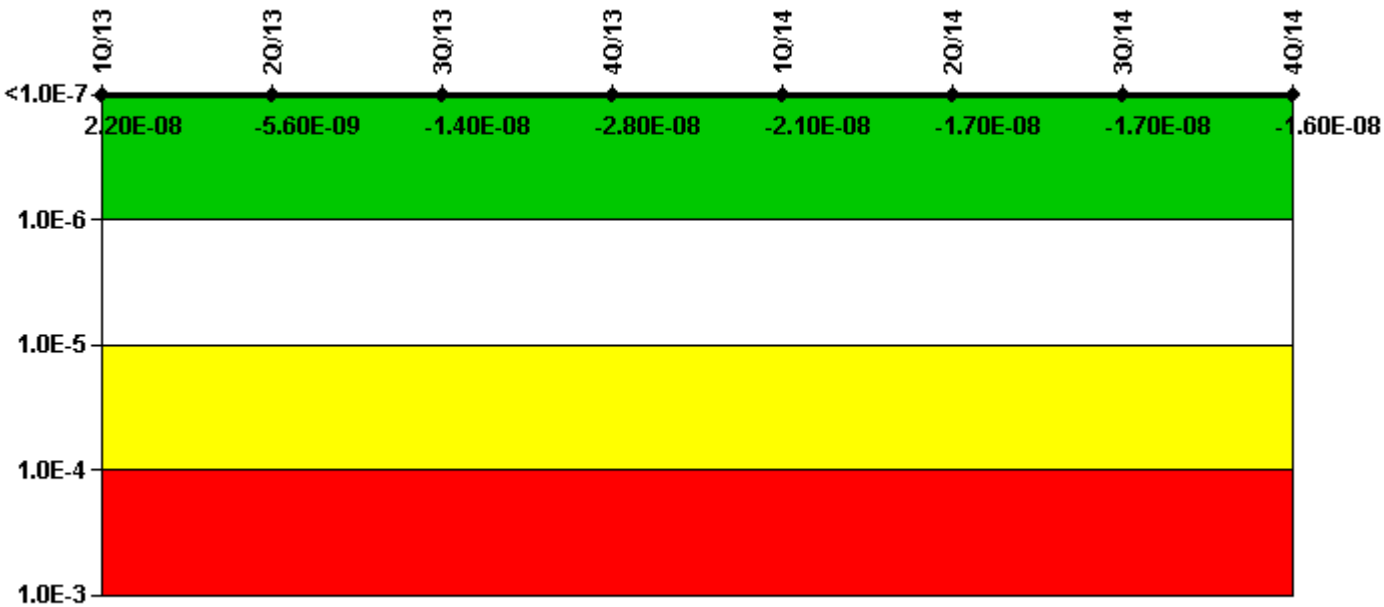
2Q/14: Changed PRA Parameter(s). The PBNP PRA Model Revision 5.02 was approved on January 17, 2014 with a corresponding MSPI Basis Document revision 23 approved on June 27, 2014. The primary purpose of the PRA update was to resolve an issue identified with the previous model that affected the CDF and LERF calculations when components were taken out of service by setting their basic events to logical TRUE.

3Q/13: Revised estimated operational demands and run hours for P-053 motor driven pump. Pump not used for startup and shutdown operation. (RWT01837653 and AR01903536) Effective 4Q13.

2Q/13: Changed PRA Parameter(s). MSPI Basis Document has been updated to incorporate PRA Model 5.01 which was implemented March 1, 2013. This version of the PRA model incorporates a new data analysis using plant data from 2003-2008.

1Q/13: MSPI Basis Document Rev 20 issued, no PRA parameters changed.

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/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (ΔCDF)	4.46E-08	1.17E-07	1.09E-07	9.51E-08	1.03E-07	9.93E-08	1.00E-07	1.01E-07
URI (ΔCDF)	-2.24E-08	-1.23E-07	-1.23E-07	-1.23E-07	-1.24E-07	-1.16E-07	-1.17E-07	-1.17E-07

PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.20E-08**	**-5.60E-09**	**-1.40E-08**	**-2.80E-08**	**-2.10E-08**	**-1.70E-08**	**-1.70E-08**	**-1.60E-08**

Licensee Comments:

2Q/14: Changed PRA Parameter(s). The PBNP PRA Model Revision 5.02 was approved on January 17, 2014 with a corresponding MSPI Basis Document revision 23 approved on June 27, 2014. The primary purpose of the PRA update was to resolve an issue identified with the previous model that affected the CDF and LERF calculations when components were taken out of service by setting their basic events to logical TRUE.

4Q/13: Past unavailability revised to include hours from IT-12 and IT-13to account for difference between assigned operator and dedicated operator. (AR01901575)

3Q/13: Revised estimated demands for valves due to venting. (RWT01837653) Effective 4Q13.

3Q/13: Revised estimated demands for valves due to venting. (RWT01837653) Effective 4Q13.

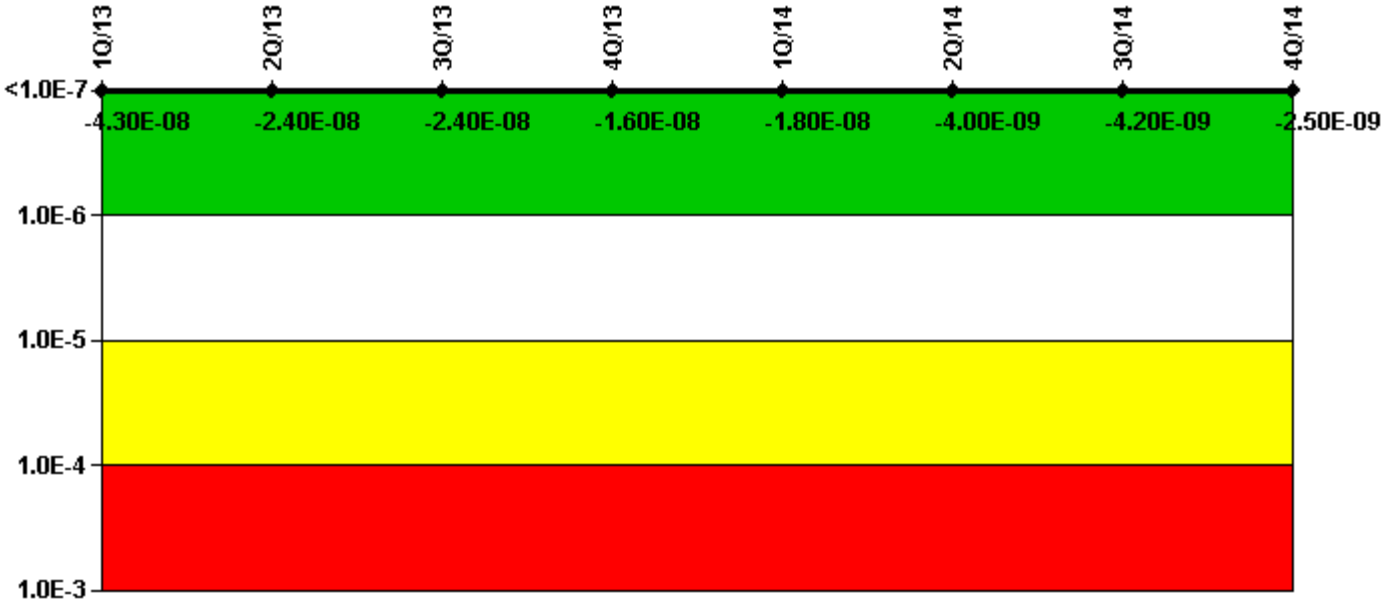
2Q/13: MSPI Basis Document has been updated to incorporate PRA Model 5.01 which was implemented March 1, 2013. This version of the PRA model incorporates a new data analysis using plant data from 2003-2008.

2Q/13: Changed PRA Parameter(s). MSPI Basis Document has been updated to incorporate PRA Model 5.01 which was implemented March 1, 2013. This version of the PRA model incorporates a new data analysis using plant data from 2003-2008.

1Q/13: MSPI Basis Document Rev 20 issued, no PRA parameters changed.

1Q/13: MSPI Basis Document Rev 20 issued, no PRA parameters changed.

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/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	-1.40E-08	-1.64E-08	-1.64E-08	-8.25E-09	-1.01E-08	-1.94E-09	-2.10E-09	-6.02E-10
URI (ΔCDF)	-2.90E-08	-7.79E-09	-7.79E-09	-7.85E-09	-7.91E-09	-2.04E-09	-2.07E-09	-1.90E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.30E-08**	**-2.40E-08**	**-2.40E-08**	**-1.60E-08**	**-1.80E-08**	**-4.00E-09**	**-4.20E-09**	**-2.50E-09**

Licensee Comments:

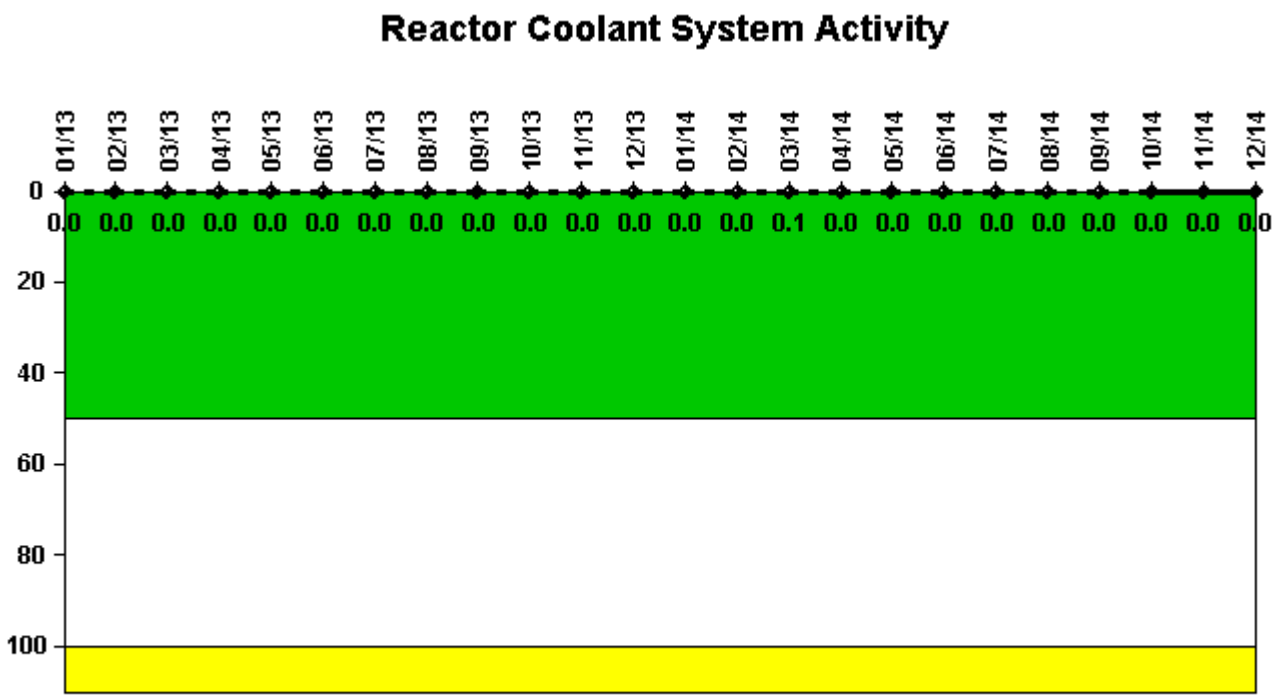
4Q/14: Failure of Service Water pump motor P-032D-M failed to run 10/7/2014, AR1996936.

2Q/14: Changed PRA Parameter(s). The PBNP PRA Model Revision 5.02 was approved on January 17, 2014 with a corresponding MSPI Basis Document revision 23 approved on June 27, 2014. The primary purpose of the PRA update was to resolve an issue identified with the previous model that affected the CDF and LERF calculations when components were taken out of service by setting their basic events to logical TRUE. The planned unavailability baseline for the Cooling Water System 1 (Service Water System) overboard valves was reduced to reflect the current maintenance practice of not danger-tagging these valves closed for ice melt or during refueling outages (AR01670874). This change is consistent with how unavailability of these valves is treated in the PRA model.

3Q/13: Revised estimated demands and run hours for current normal operation. (RWT01837653) Effective 4Q13.

2Q/13: Changed PRA Parameter(s). MSPI Basis Document has been updated to incorporate PRA Model 5.01 which was implemented March 1, 2013. This version of the PRA model incorporates a new data analysis using plant data from 2003-2008.

1Q/13: MSPI Basis Document Rev 20 issued, no PRA parameters changed.



Thresholds: White > 50.0 Yellow > 100.0

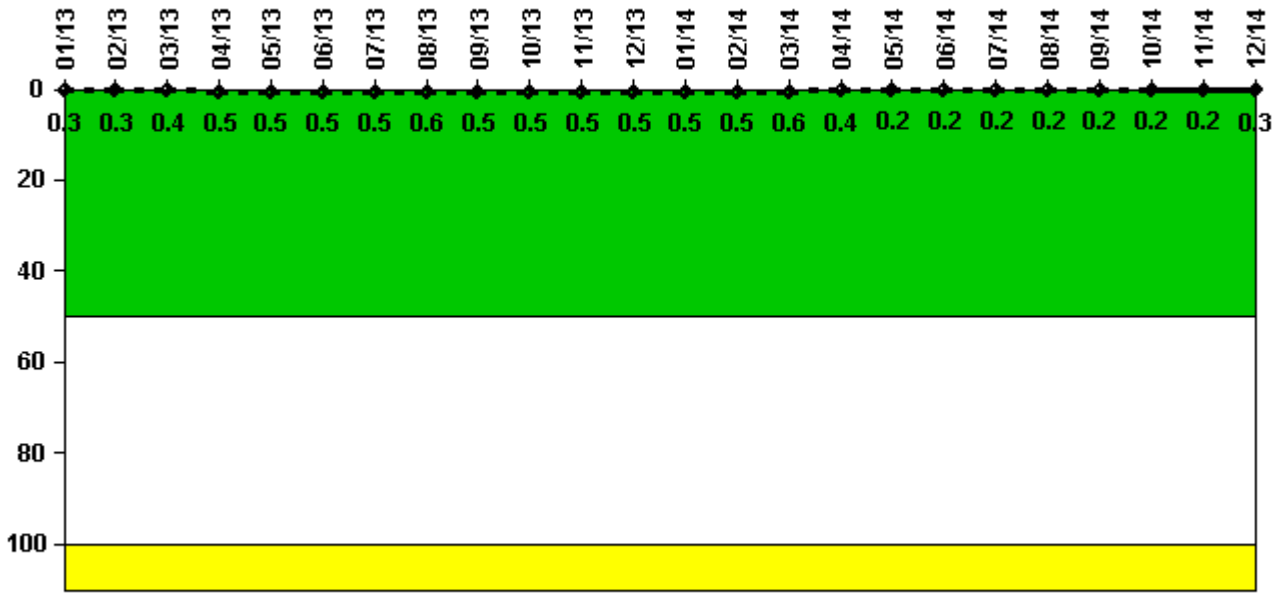
Notes

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	0.000165	0.000156	0.000155	0.000164	0.000172	0.000185	0.000194	0.000196	0.000207	0.000221	0.000222	0.000225
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**
Maximum												

activity	0.000241	0.000249	0.000258	0.000127	0.000128	0.000133	0.000138	0.000144	0.000145	0.000148	0.000167	0.000168
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage



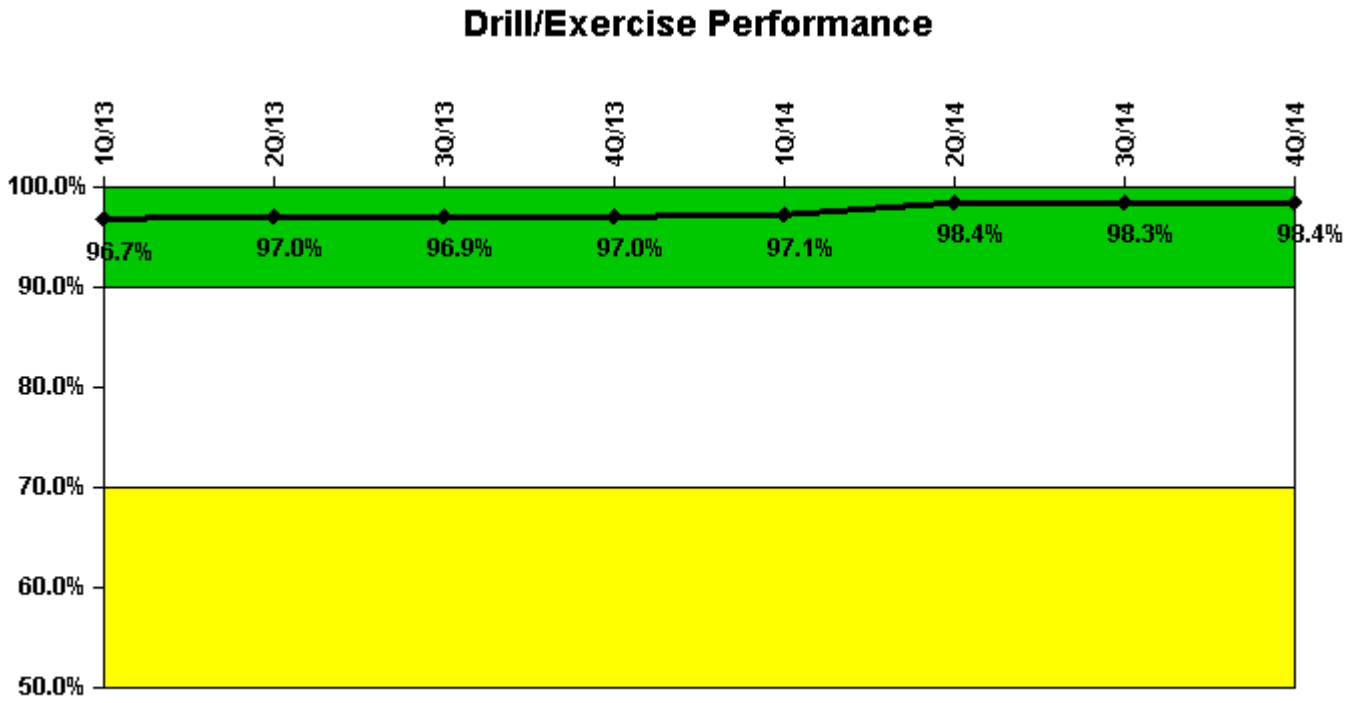
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**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	0.031	0.039	0.049	0.049	0.054	0.045	0.060	0.048	0.049	0.053	0.054
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**	**0.5**	**0.5**	**0.5**	**0.5**	**0.6**	**0.5**	**0.5**	**0.5**	**0.5**
Reactor Coolant System Leakage	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**
Maximum leakage	0.052	0.053	0.062	0.036	0.017	0.019	0.022	0.022	0.020	0.020	0.020	0.027
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	**0.5**	**0.5**	**0.6**	**0.4**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**

Licensee Comments: none

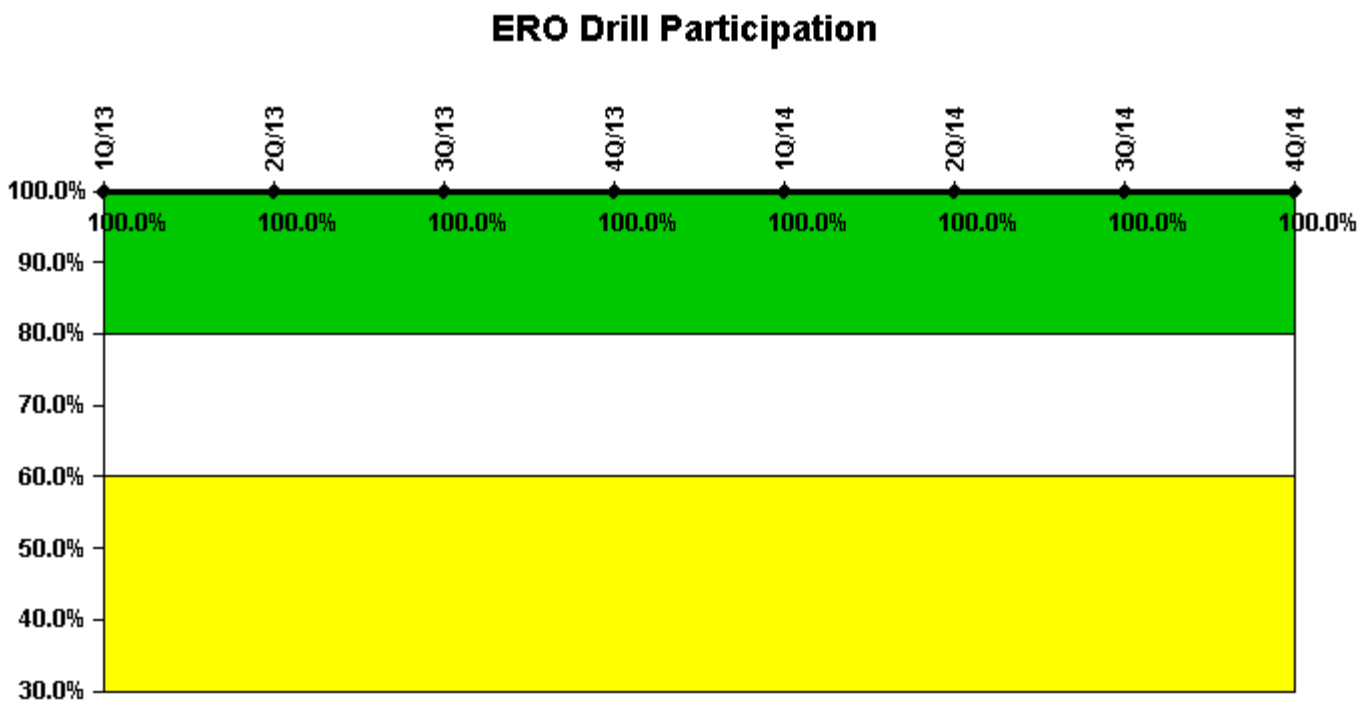


Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
Successful opportunities	37.0	31.0	27.0	8.0	30.0	23.0	20.0	14.0
Total opportunities	37.0	32.0	28.0	8.0	30.0	24.0	20.0	14.0
Indicator value	**96.7%**	**97.0%**	**96.9%**	**97.0%**	**97.1%**	**98.4%**	**98.3%**	**98.4%**

Licensee Comments: none

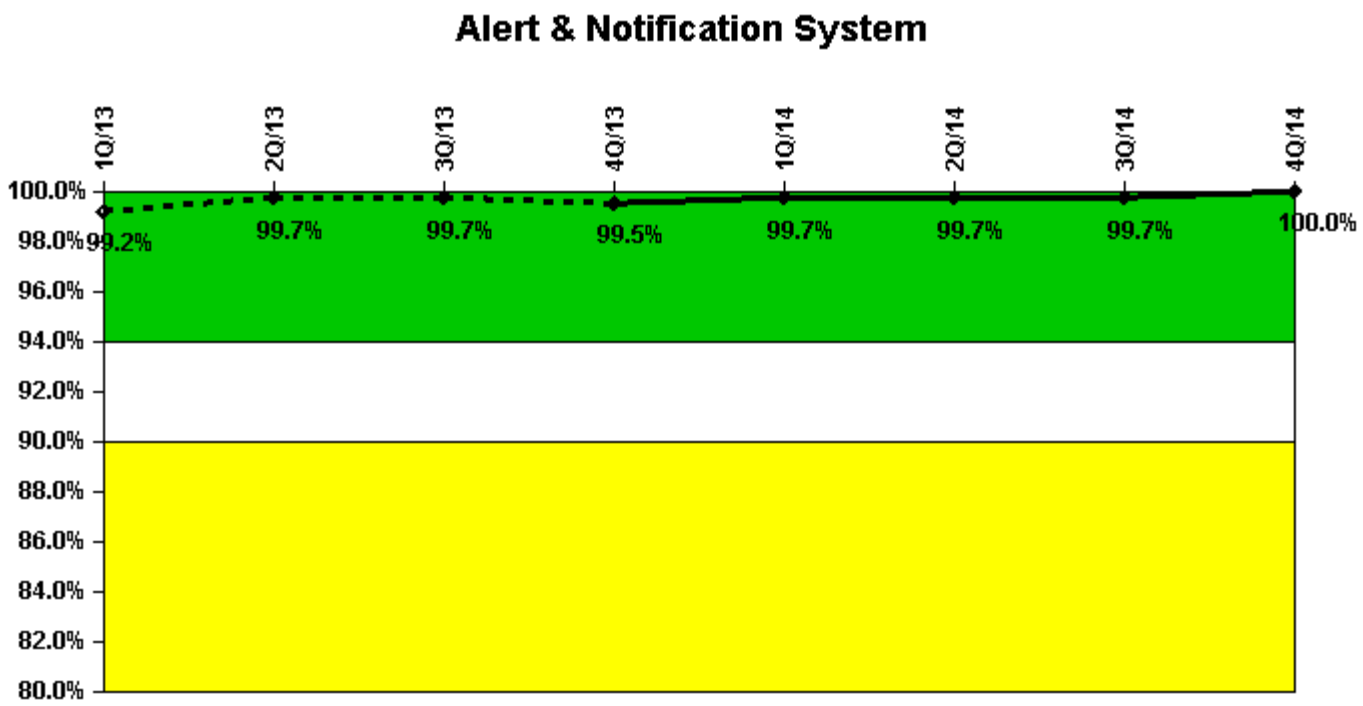


Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Participating Key personnel	62.0	61.0	62.0	58.0	58.0	60.0	58.0	56.0
Total Key personnel	62.0	61.0	62.0	58.0	58.0	60.0	58.0	56.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none



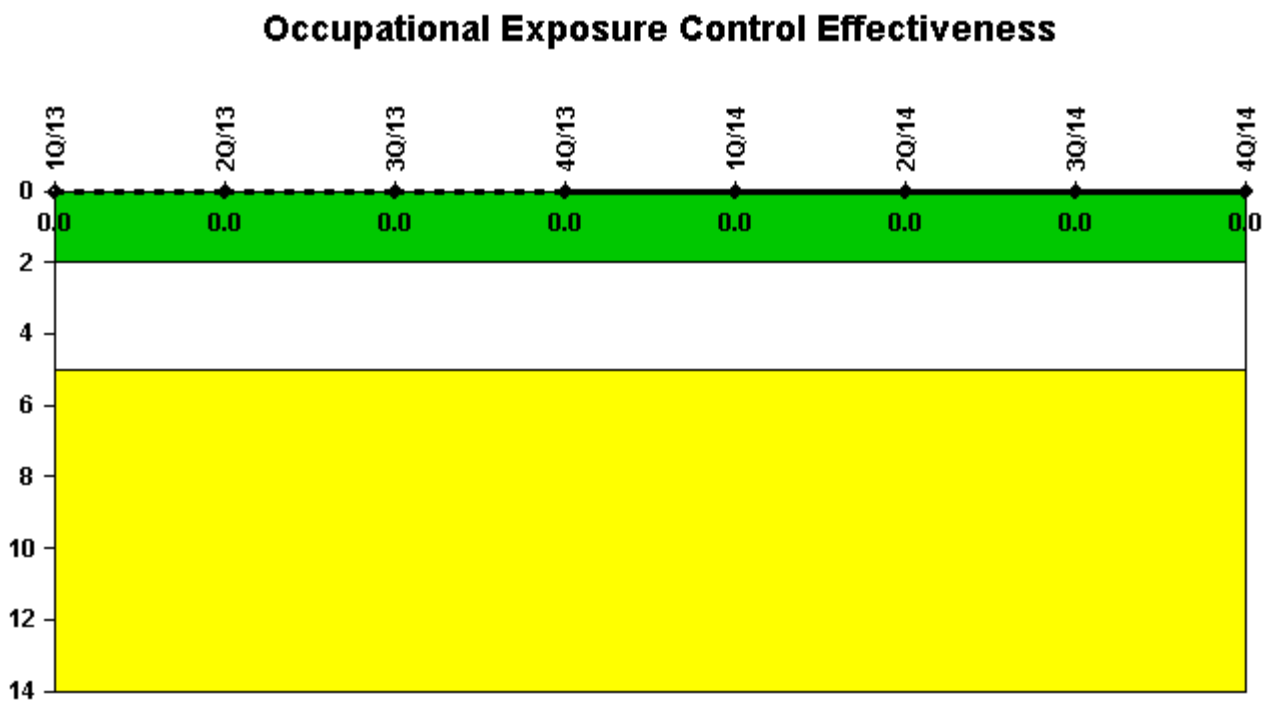
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful siren-tests	97	98	84	97	98	98	98	112
Total sirens-tests	98	98	84	98	98	98	98	112
Indicator value	**99.2%**	**99.7%**	**99.7%**	**99.5%**	**99.7%**	**99.7%**	**99.7%**	**100.0%**

Licensee Comments:

1Q/14: Point Beach ANS coverage takes credit for 8 sirens located in Kewaunee County that are owned and maintained by Kewaunee Power Station. As identified in FAQ 13-04, Point Beach is documenting the siren testing performance for these 8 sirens in the notes section of the Point Beach monthly ANS indicators.

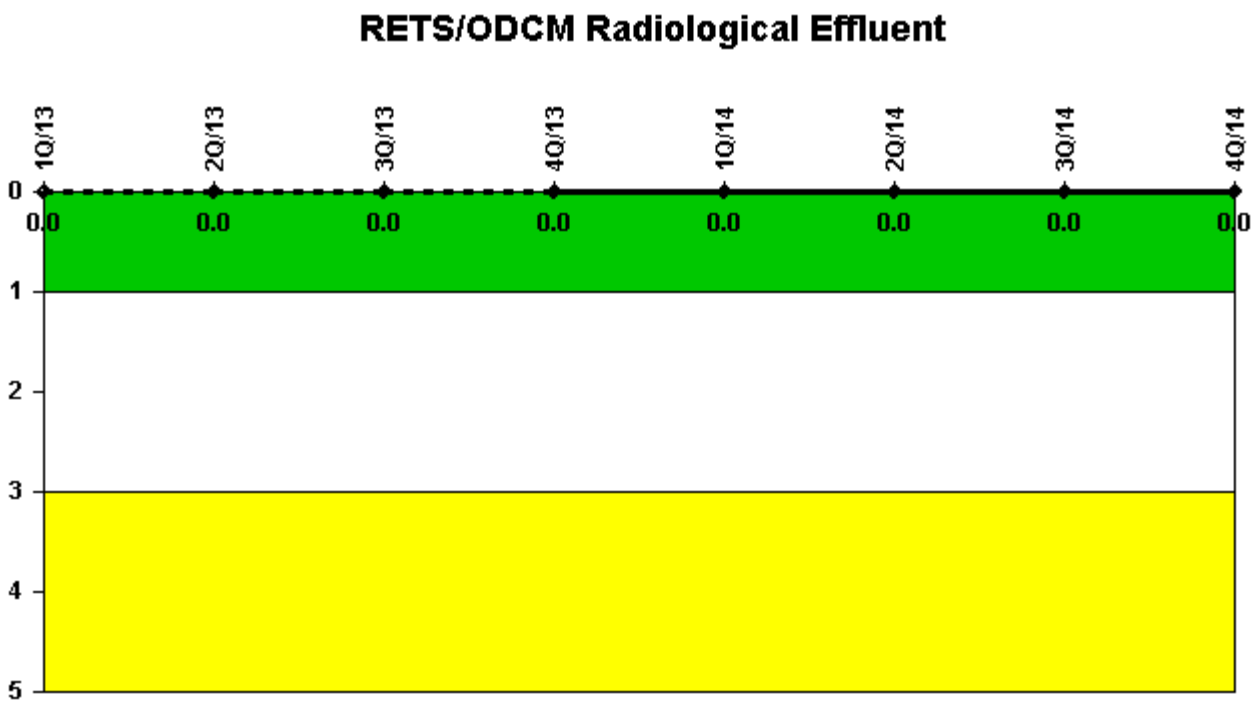


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
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



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
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: February 3, 2015