

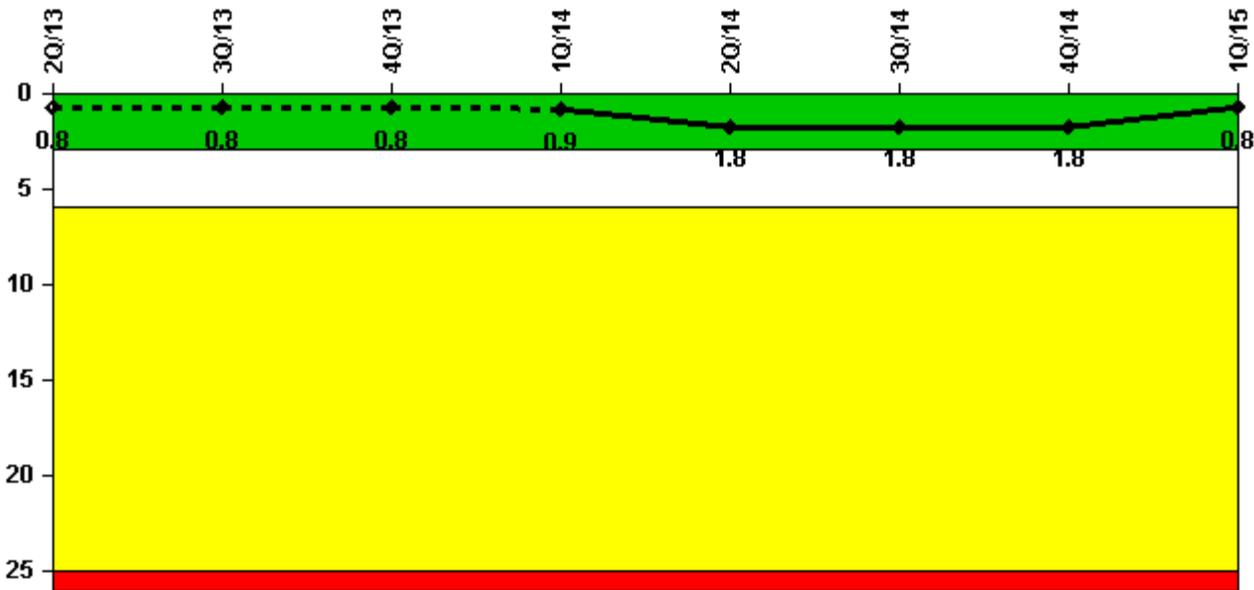
## Browns Ferry 3

### 1Q/2015 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

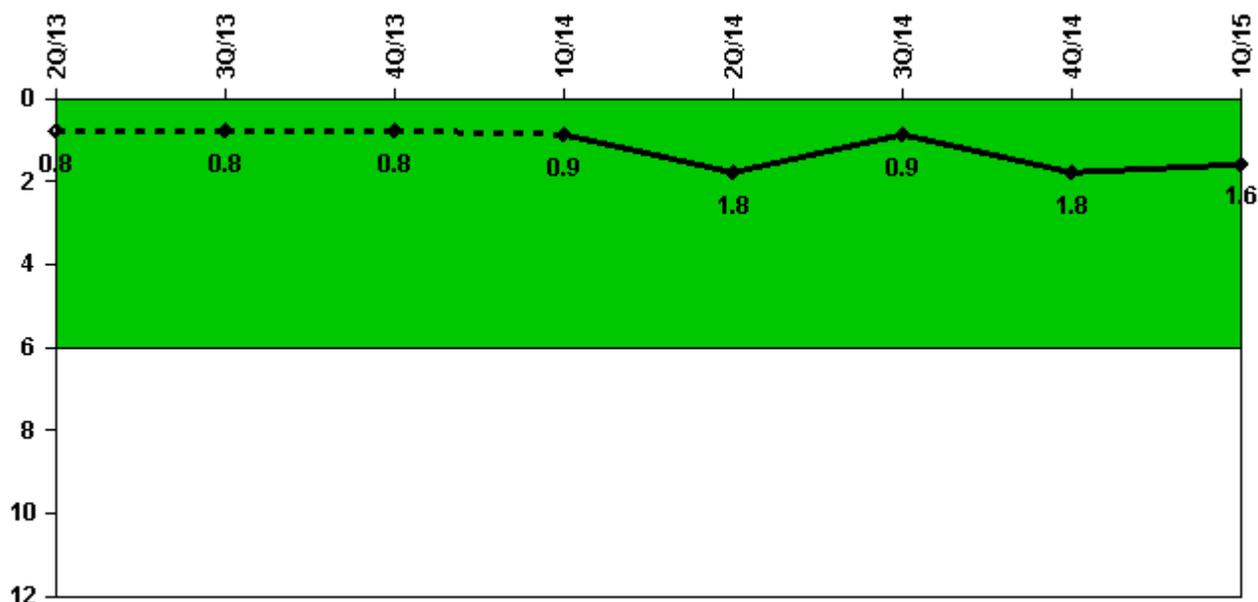
#### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned scrams	0	0	0	1.0	1.0	0	0	0
Critical hours	2184.0	2208.0	2209.0	1421.6	2130.0	2208.0	2209.0	2159.0
Indicator value	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>1.8</b>	<b>1.8</b>	<b>1.8</b>	<b>0.8</b>

Licensee Comments:

2Q/14: Automatic scram due to ATWS Initiation and loss of recirc pumps on 05/06/2014.

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

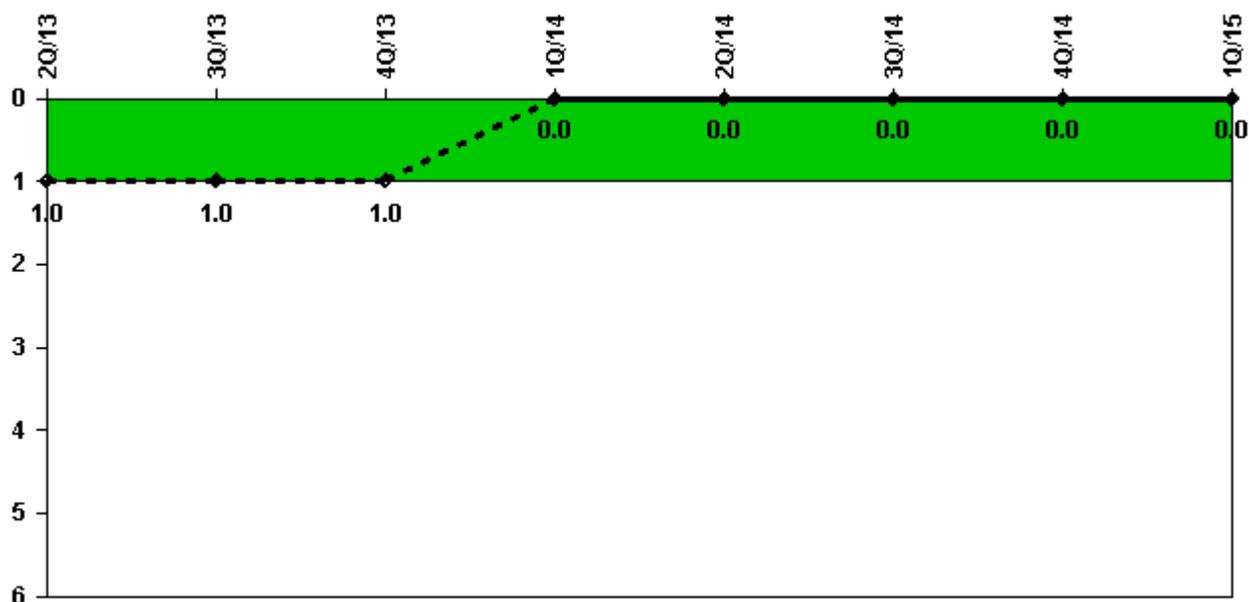
#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned power changes	0	1.0	0	0	1.0	0	1.0	0
Critical hours	2184.0	2208.0	2209.0	1421.6	2130.0	2208.0	2209.0	2159.0
<b>Indicator value</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>1.8</b>	<b>0.9</b>	<b>1.8</b>	<b>1.6</b>

Licensee Comments:

2Q/14: Removed 3A Condensate Booster Pump from service on 04/09/2014 due to report of water in oil reservoir.

### Unplanned Scrams with Complications



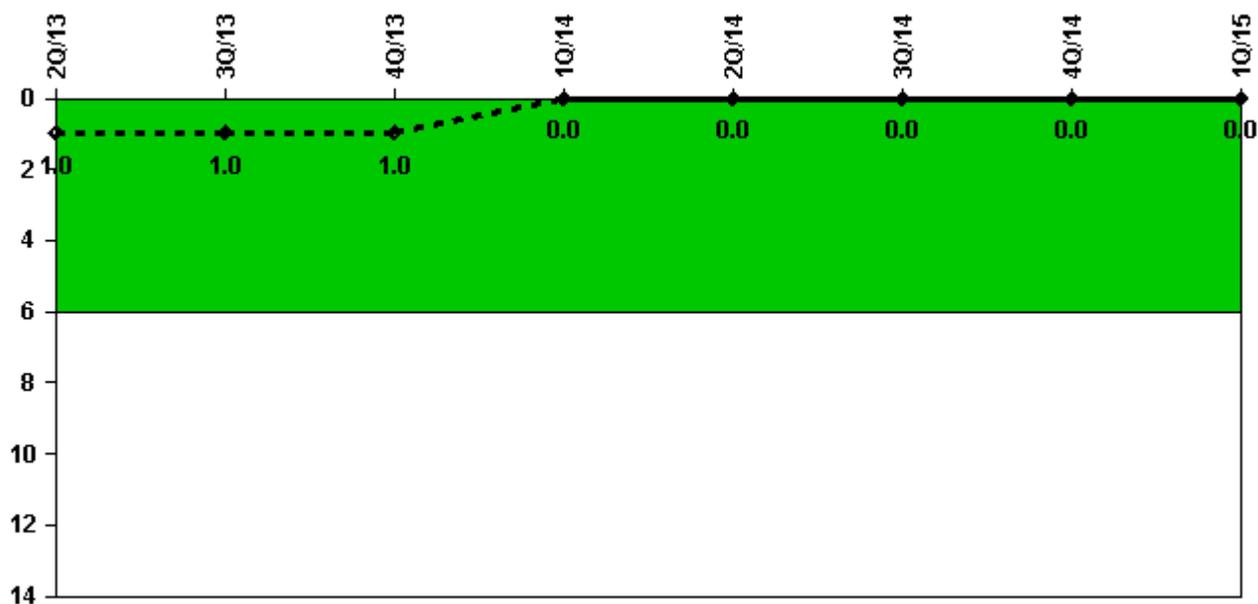
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



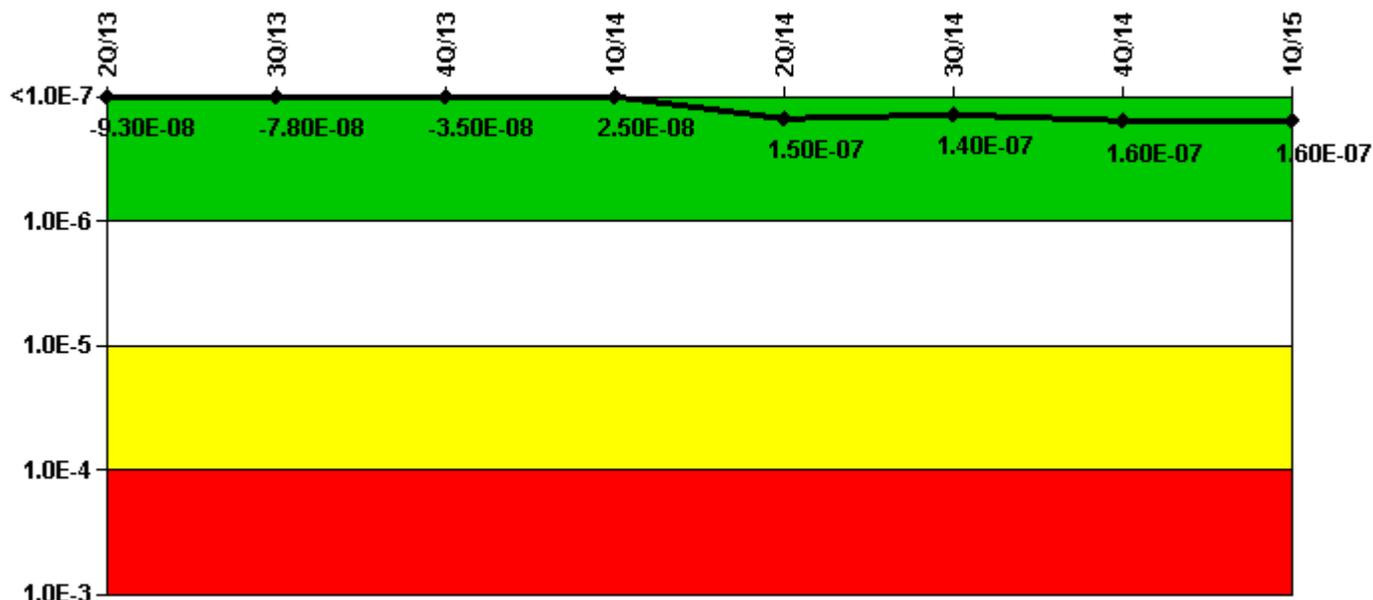
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI ( $\Delta$ CDF)	1.38E-07	1.39E-07	1.69E-07	2.15E-07	2.07E-07	1.58E-07	1.51E-07	1.46E-07
URI ( $\Delta$ CDF)	-2.30E-07	-2.17E-07	-2.04E-07	-1.90E-07	-5.40E-08	-2.13E-08	1.37E-08	1.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.30E-08	-7.80E-08	-3.50E-08	2.50E-08	1.50E-07	1.40E-07	1.60E-07	1.60E-07

#### Licensee Comments:

1Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.01E-06) has been replaced by a value of 5.00E-07.

4Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.01E-06) has been replaced by a value of 5.00E-07.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07.

2Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.87E-06) has been replaced by a value of 5.00E-07.

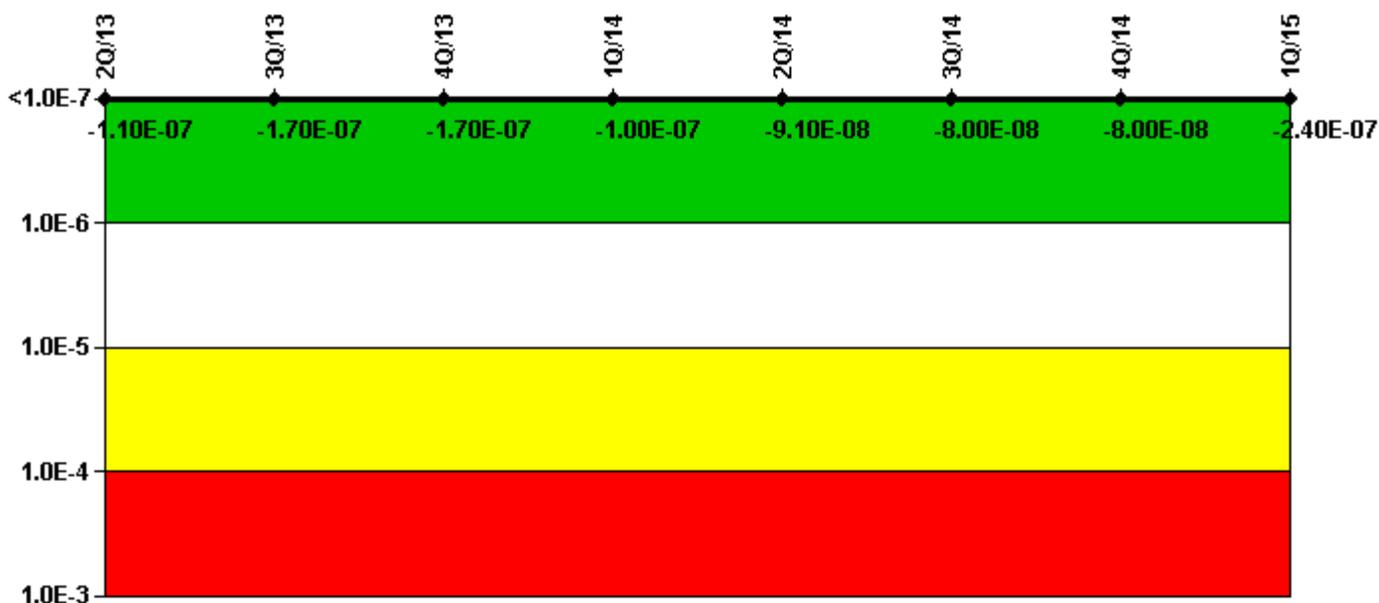
1Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.26E-06) has been replaced by a value of 5.00E-07.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.23E-06) has been replaced by a value of 5.00E-07.

3Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.21E-06) has been replaced by a value of 5.00E-07.

2Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.18E-06) has been replaced by a value of 5.00E-07.

### Mitigating Systems Performance Index, High Pressure Injection System



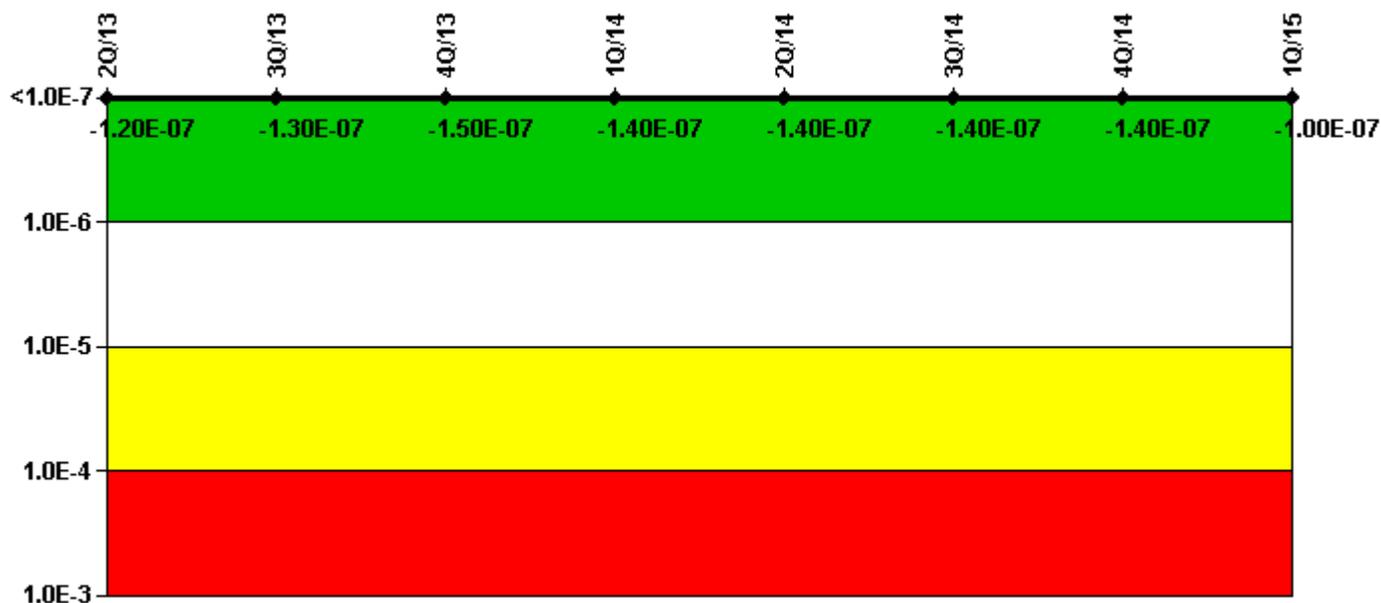
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	6.34E-08	1.72E-09	4.90E-10	6.97E-08	6.90E-08	8.05E-08	8.04E-08	-7.67E-08
URI (ΔCDF)	-1.75E-07	-1.75E-07	-1.75E-07	-1.75E-07	-1.60E-07	-1.60E-07	-1.60E-07	-1.60E-07
PLE	NO							
Indicator value	-1.10E-07	-1.70E-07	-1.70E-07	-1.00E-07	-9.10E-08	-8.00E-08	-8.00E-08	-2.40E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



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

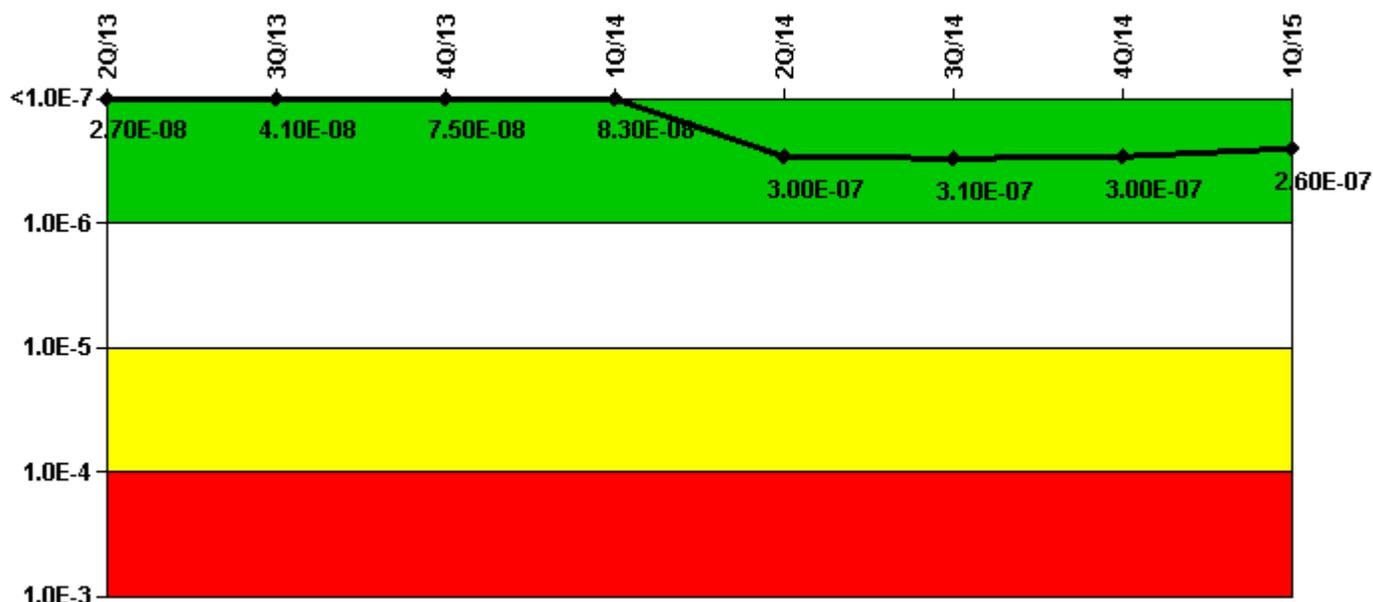
#### Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI ( $\Delta$ CDF)	5.37E-08	4.47E-08	2.66E-08	2.91E-08	2.14E-08	2.14E-08	2.04E-08	6.04E-08
URI ( $\Delta$ CDF)	-1.73E-07	-1.73E-07	-1.73E-07	-1.73E-07	-1.64E-07	-1.64E-07	-1.64E-07	-1.64E-07
PLE	NO							
Indicator value	-1.20E-07	-1.30E-07	-1.50E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.00E-07

Licensee Comments:

3Q/13: Added previously uncounted RCIC injection demands. Added demand data for Unit 3 in April 2011, May 2012, and February 2013. BFNs interpretation of what RCIC demands need to be counted changed for RCIC. This did not impact the MSPI color of RCIC.

### 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	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	1.96E-08	3.38E-08	6.79E-08	7.63E-08	1.25E-07	1.30E-07	1.20E-07	8.41E-08
URI (ΔCDF)	7.23E-09	6.99E-09	6.75E-09	6.51E-09	1.79E-07	1.79E-07	1.79E-07	1.79E-07
PLE	NO							
Indicator value	2.70E-08	4.10E-08	7.50E-08	8.30E-08	3.00E-07	3.10E-07	3.00E-07	2.60E-07

#### Licensee Comments:

2Q/14: Failure of the main control room handswitch for the 3-FCV-023-0052, 3D RHRSW HX Outlet Valve, discovered on 05/14/2014

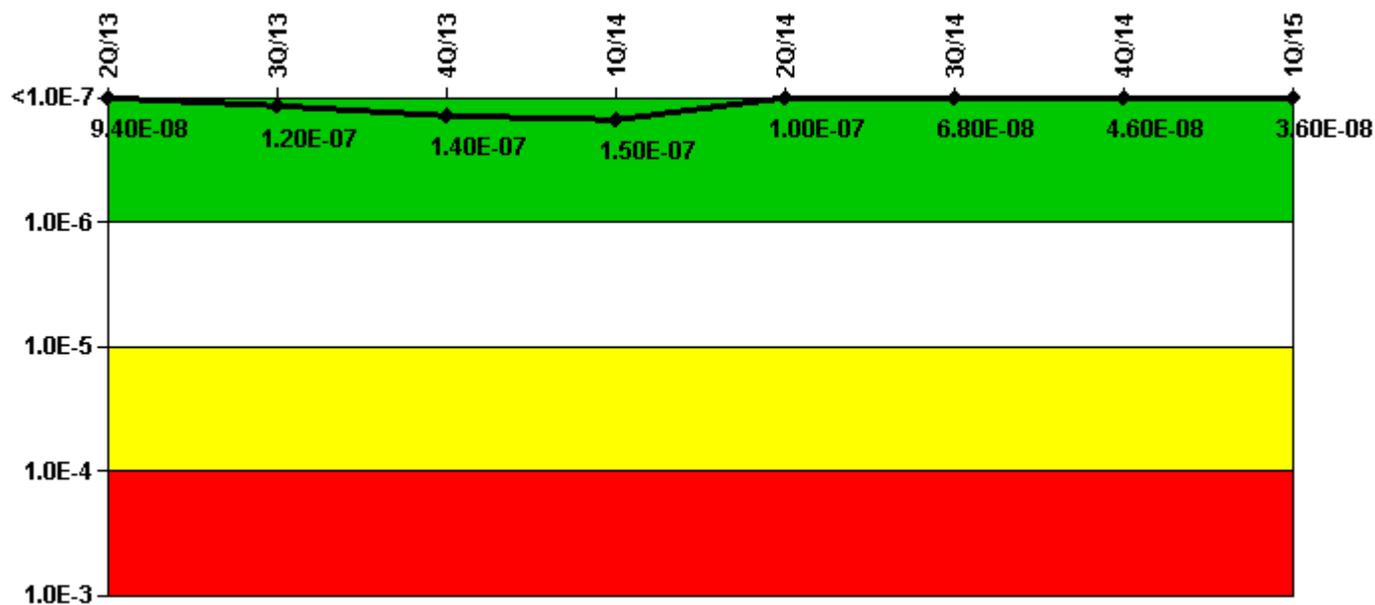
1Q/14: Changed PRA Parameter(s). During the first quarter of 2014, the following changes were made to numerical values in the INPO CDE database for the Browns Ferry Nuclear Plant (BFN). 1. Common Cause Factor (CCF) for 3-FCV-023-0034 was changed to the correct value of 2.00. Effective 2011-01 to present. 2. Operational Non-test demands(D) value for 2-FCV-023-0046 was changed to the correct value of 82. Effective 2012-01 to present. 3. Operational Non-test demands(D) value for 3-FCV-023-0040 was changed to the correct value of 88. Effective 2012-01 to present. 4. Operational Non-test run-hours value for 1-PMP-074-0039 was changed to the correct value of 333.54 hours. Effective 2011-01 to present. 5. Test run-hours value for 1-PMP-074-0039 was changed to the correct value of 31.87 hours. Effective 2011-01 to present. These changes result in the BFN Residual Heat Removal System MSPI indicator values for past reporting periods to be different than previously reported, as indicated by the effective dates identified above. No MSPI color changes resulted from these changes to the numerical values. Reference BFN Problem Evaluation Report (PER) 851845.

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).

### Mitigating Systems Performance Index, Cooling Water Systems



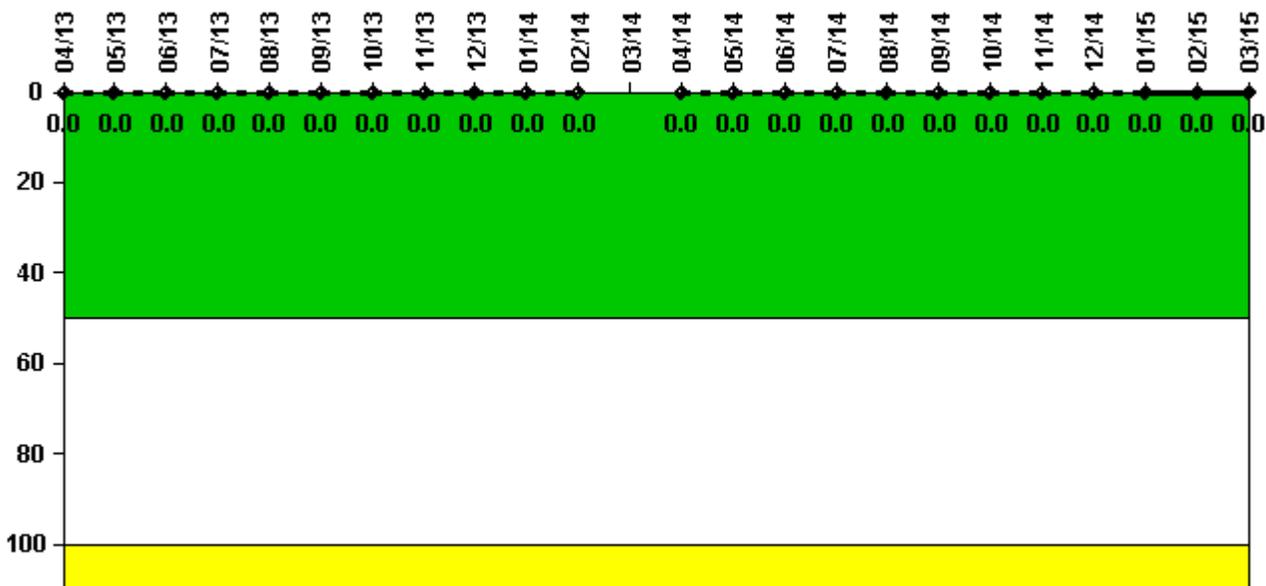
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	1.24E-07	1.53E-07	1.69E-07	1.75E-07	1.56E-07	1.20E-07	9.82E-08	9.83E-08
URI (ΔCDF)	-2.99E-08	-2.99E-08	-2.99E-08	-2.99E-08	-5.18E-08	-5.18E-08	-5.18E-08	-6.28E-08
PLE	NO							
Indicator value	9.40E-08	1.20E-07	1.40E-07	1.50E-07	1.00E-07	6.80E-08	4.60E-08	3.60E-08

Licensee Comments: none

### Reactor Coolant System Activity



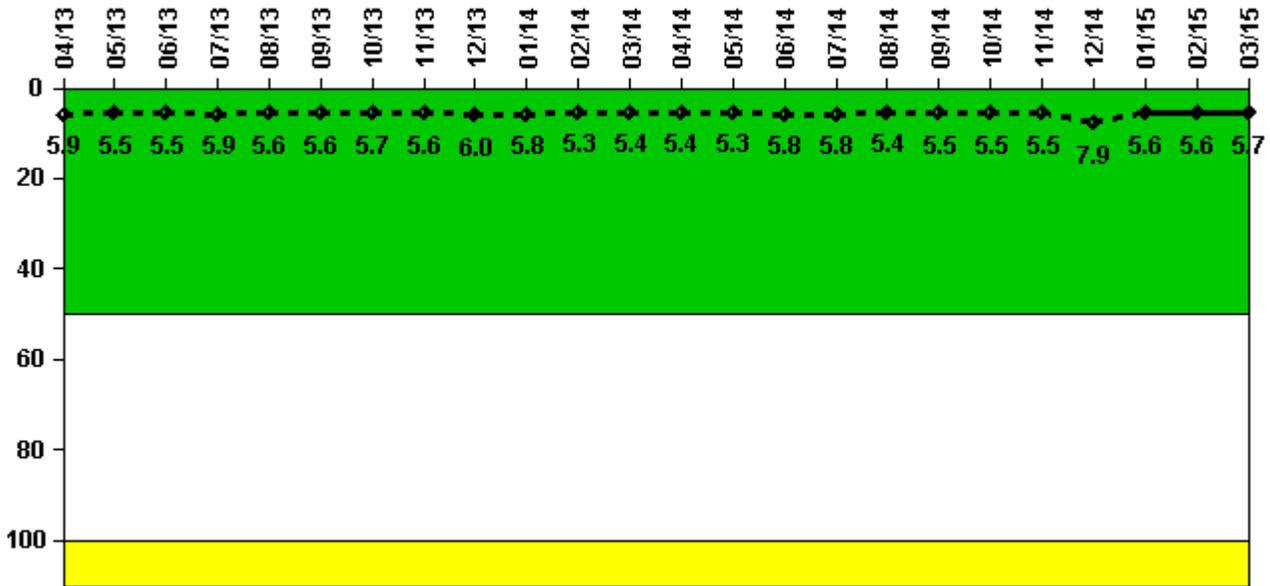
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum activity	0.000089	0.000244	0.000087	0.000071	0.000072	0.000127	0.000105	0.000080	0.000059	0.000094	0.000088	N/A
Technical specification limit	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	N/A
Reactor Coolant System Activity	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum activity	0.000080	0.000064	0.000086	0.000134	0.000084	0.000068	0.000099	0.000128	0.000124	0.000132	0.000081	0.000083
Technical specification limit	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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

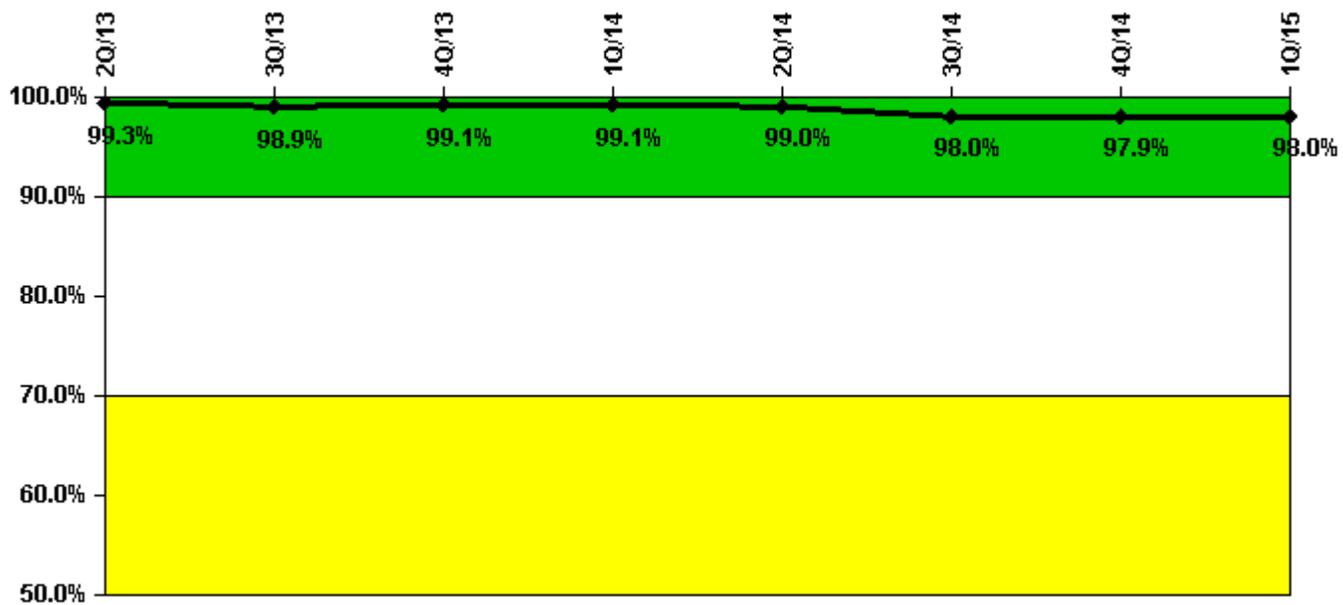
#### Notes

Reactor Coolant System Leakage	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum leakage	1.760	1.650	1.650	1.760	1.670	1.670	1.720	1.690	1.800	1.750	1.580	1.610
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	5.9	5.5	5.5	5.9	5.6	5.6	5.7	5.6	6.0	5.8	5.3	5.4
Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	1.610	1.580	1.750	1.740	1.630	1.650	1.660	1.660	2.370	1.670	1.690	1.710
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	5.4	5.3	5.8	5.8	5.4	5.5	5.5	5.5	7.9	5.6	5.6	5.7

Licensee Comments:

6/13: The Maximum RCS Identified Leakage (gpm) was updated to reflect the correct leakage. This condition was identified in PER 694496. This affected July 2012 to December 2012. There was no color change.

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

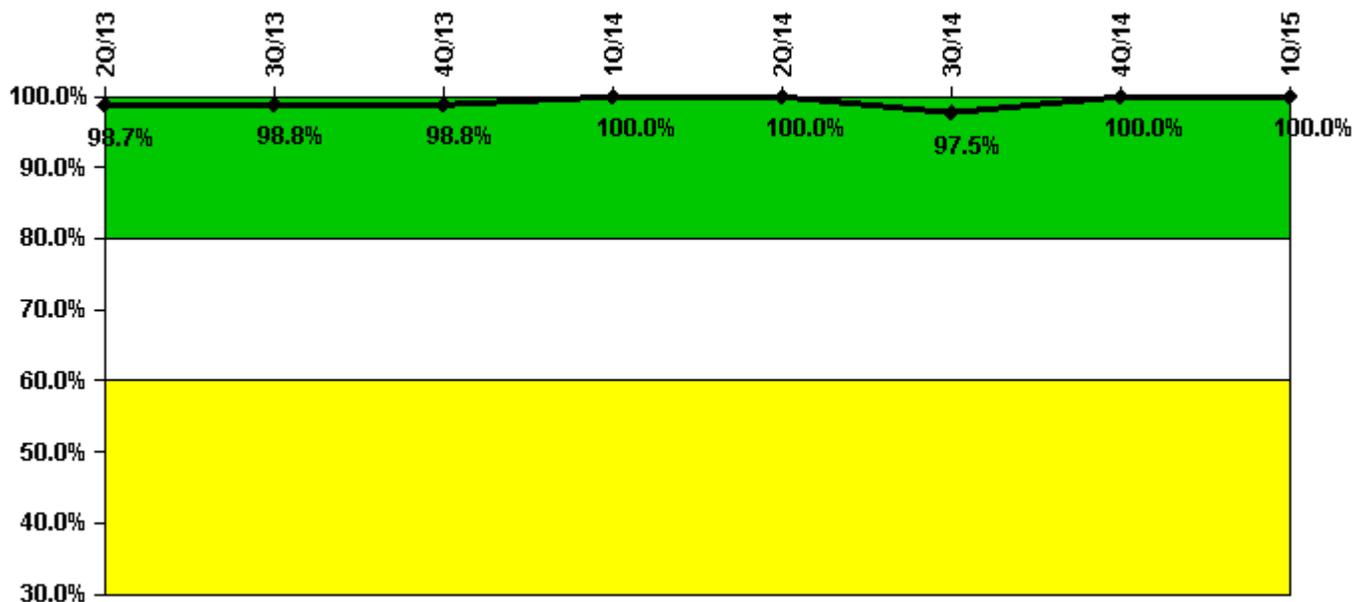
#### Notes

Drill/Exercise Performance	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful opportunities	26.0	40.0	70.0	12.0	63.0	86.0	4.0	46.0
Total opportunities	26.0	42.0	70.0	12.0	64.0	90.0	4.0	46.0
Indicator value	99.3%	98.9%	99.1%	99.1%	99.0%	98.0%	97.9%	98.0%

Licensee Comments:

1Q/14: Revised Successful drill, exer & event opportunities to reflect an additional DEP failure for the September (3rd quarter) 2013 report period. This revision did not result in a color change. PER # 836157

### ERO Drill Participation



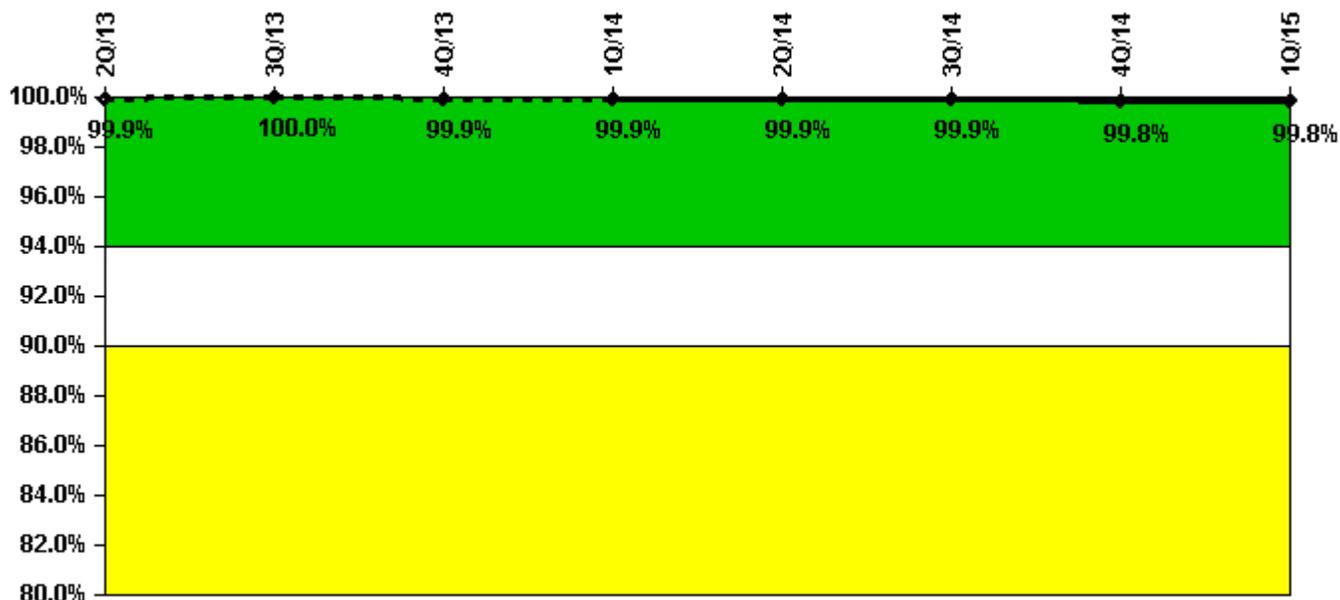
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Participating Key personnel	76.0	79.0	81.0	76.0	78.0	77.0	76.0	80.0
Total Key personnel	77.0	80.0	82.0	76.0	78.0	79.0	76.0	80.0
Indicator value	98.7%	98.8%	98.8%	100.0%	100.0%	97.5%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



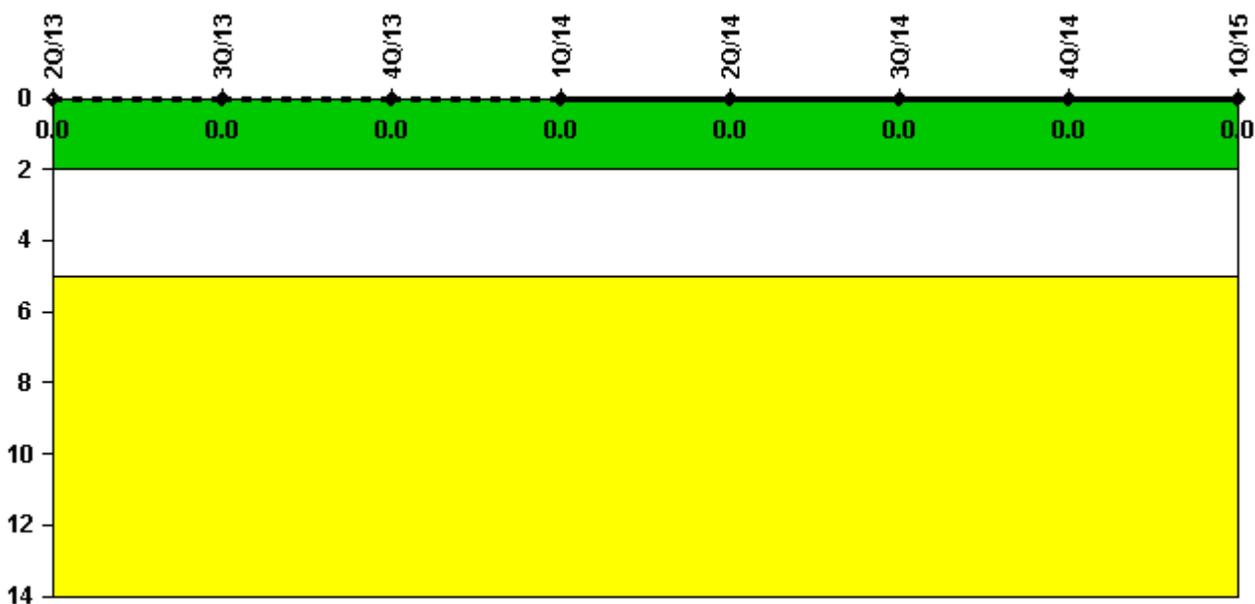
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful siren-tests	800	932	622	1040	624	1038	621	1040
Total sirens-tests	800	932	624	1040	624	1040	624	1040
Indicator value	99.9%	100.0%	99.9%	99.9%	99.9%	99.9%	99.8%	99.8%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



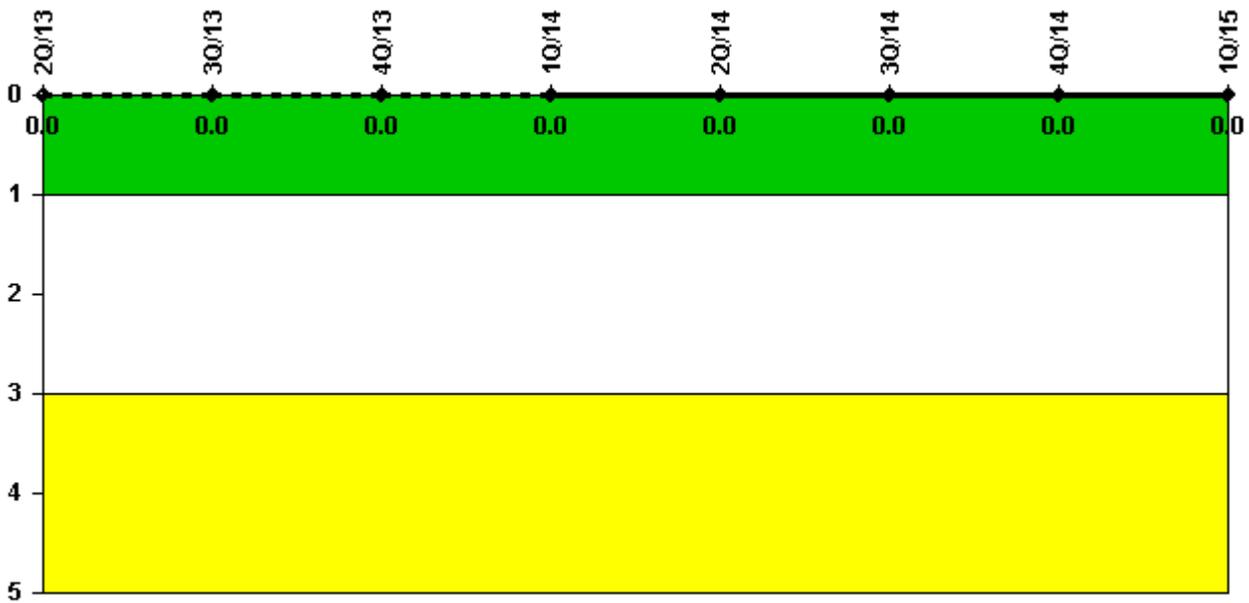
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
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
<b>Indicator value</b>	<b>0</b>							

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>							

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: April 23, 2015*