

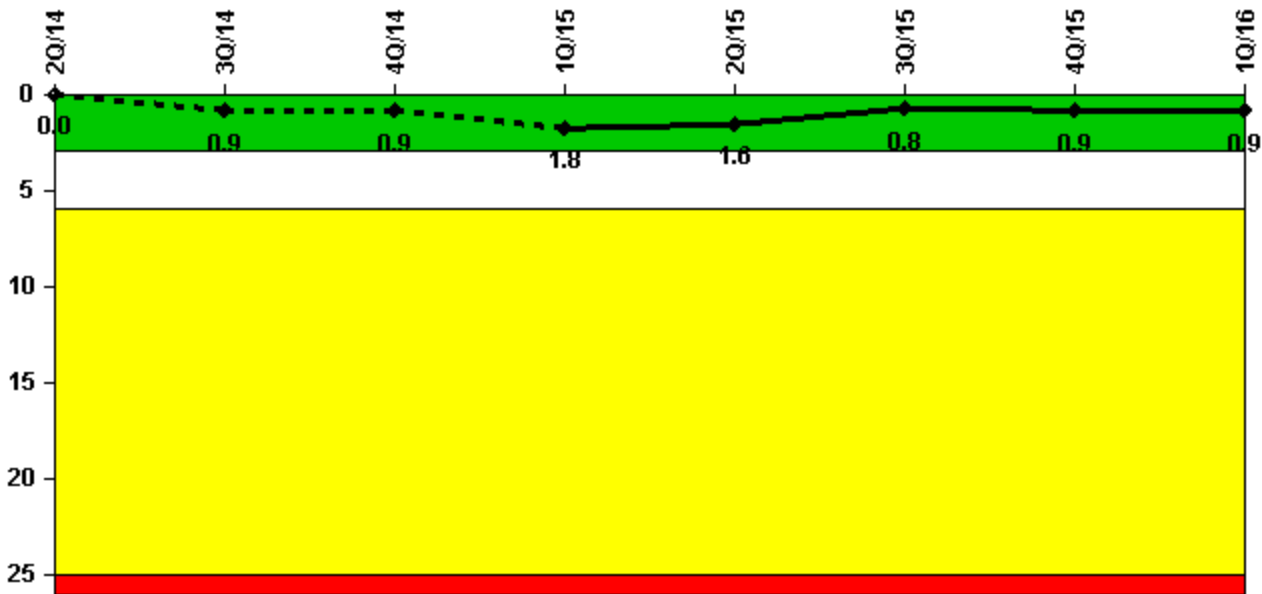
# Watts Bar 1

## 1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



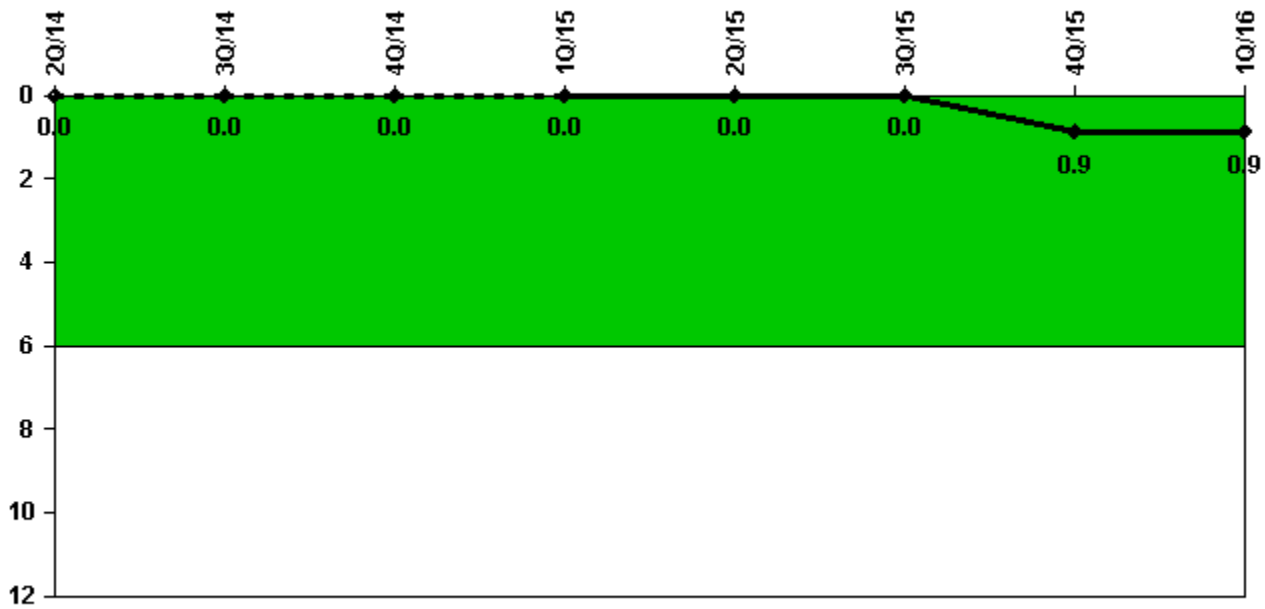
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned scrams	0	1.0	0	1.0	0	0	0	1.0
Critical hours	1446.9	2174.4	2209.0	1960.1	2184.0	1956.0	1565.9	2109.4
Indicator value	0	0.9	0.9	1.8	1.6	0.8	0.9	0.9

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	1446.9	2174.4	2209.0	1960.1	2184.0	1956.0	1565.9	2109.4
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>0.9</b>

Licensee Comments: none

### Unplanned Scrams with Complications



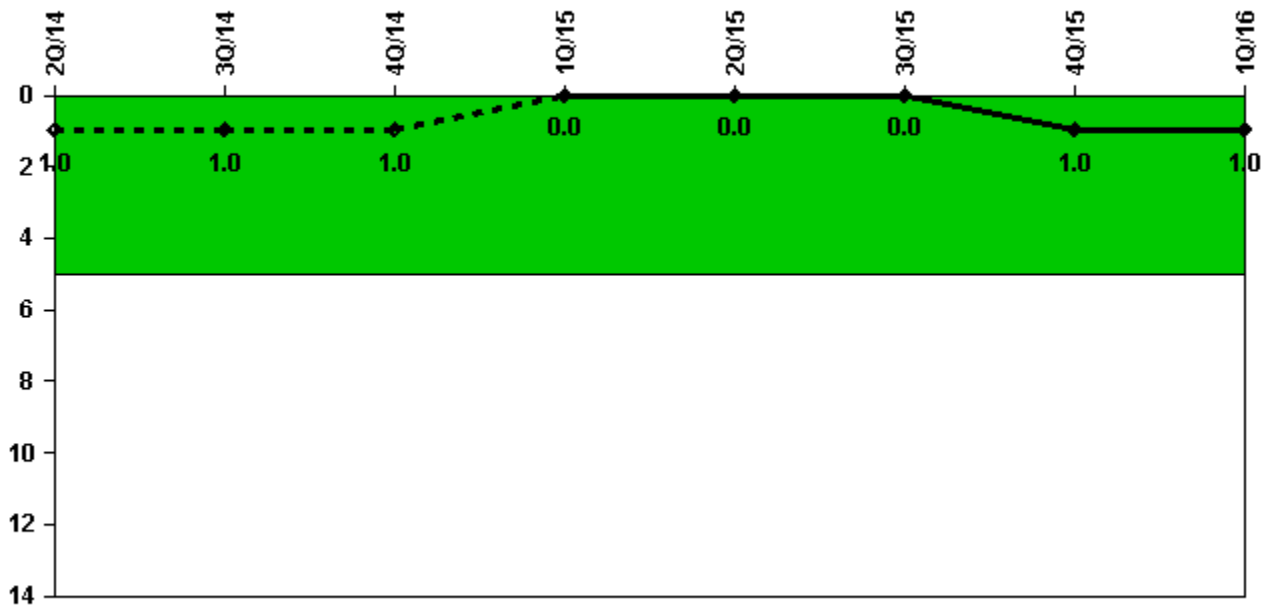
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</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 (PWR)



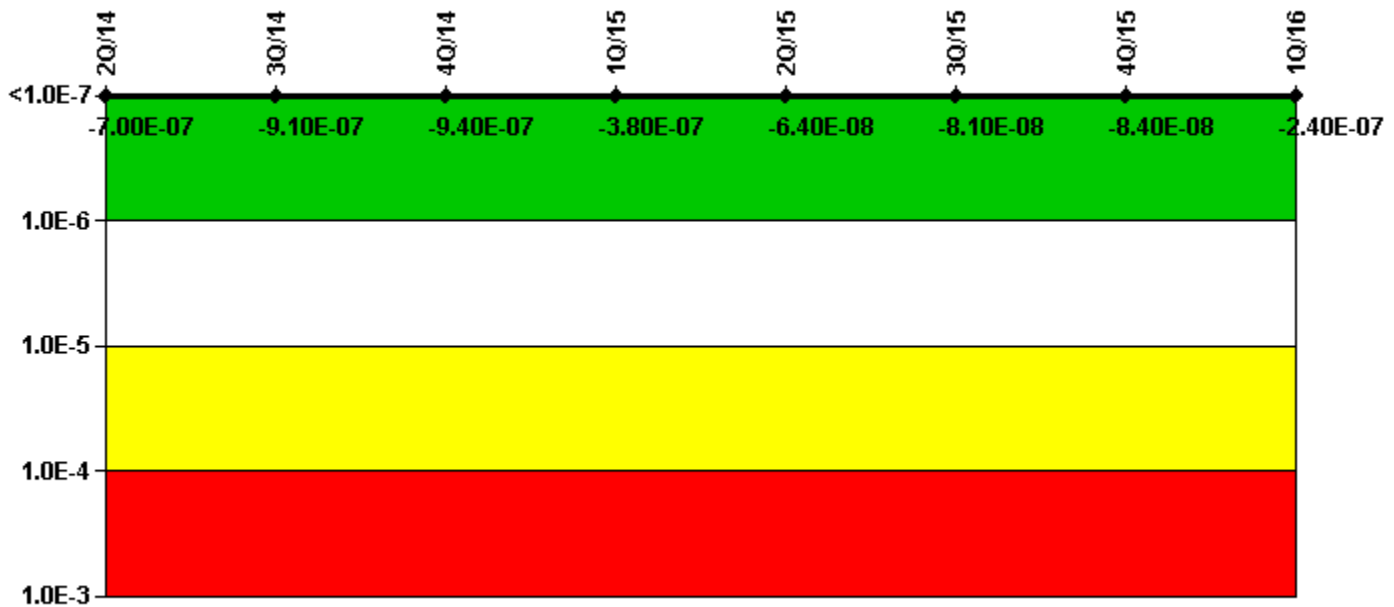
Thresholds: White > 5.0

#### Notes

Safety System Functional Failures (PWR)	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Safety System Functional Failures	0	0	0	0	0	0	1	0
<b>Indicator value</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</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

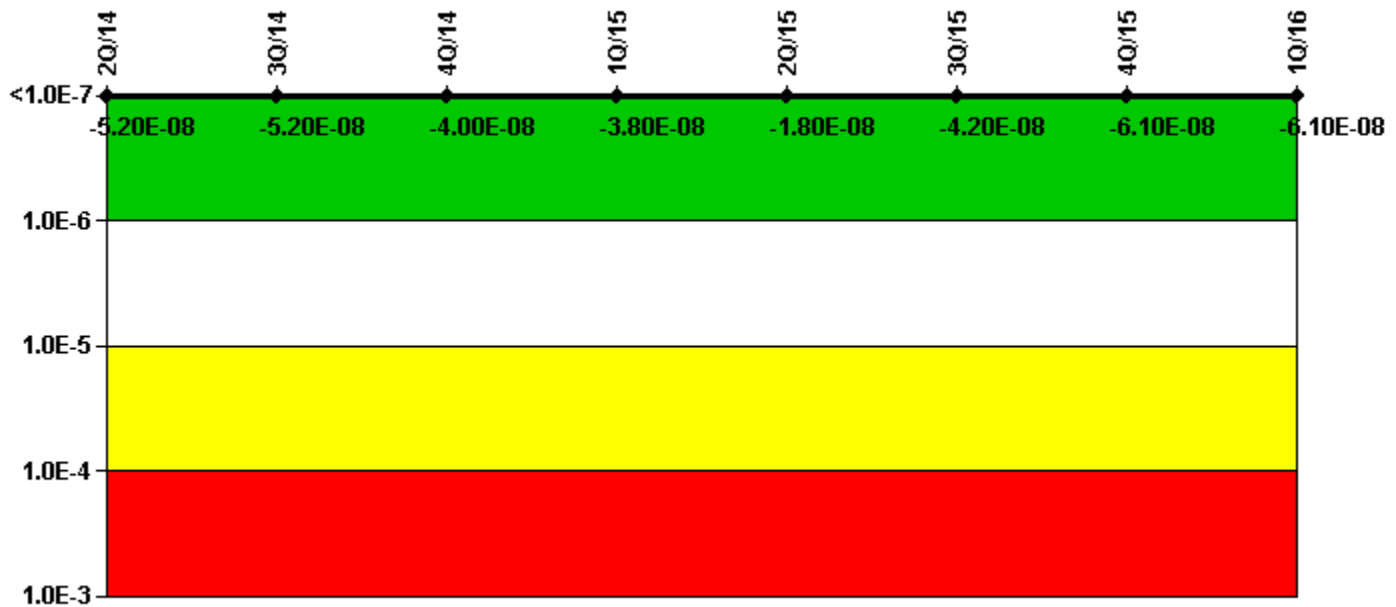
#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI ( $\Delta$ CDF)	8.78E-07	6.52E-07	5.97E-07	7.69E-07	6.96E-07	6.80E-07	6.66E-07	5.07E-07
URI ( $\Delta$ CDF)	-1.58E-06	-1.56E-06	-1.54E-06	-1.15E-06	-7.60E-07	-7.60E-07	-7.50E-07	-7.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.00E-07	-9.10E-07	-9.40E-07	-3.80E-07	-6.40E-08	-8.10E-08	-8.40E-08	-2.40E-07

Licensee Comments:

2Q/14: PRA update due to model R1- MSPI Basis Document R7

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



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

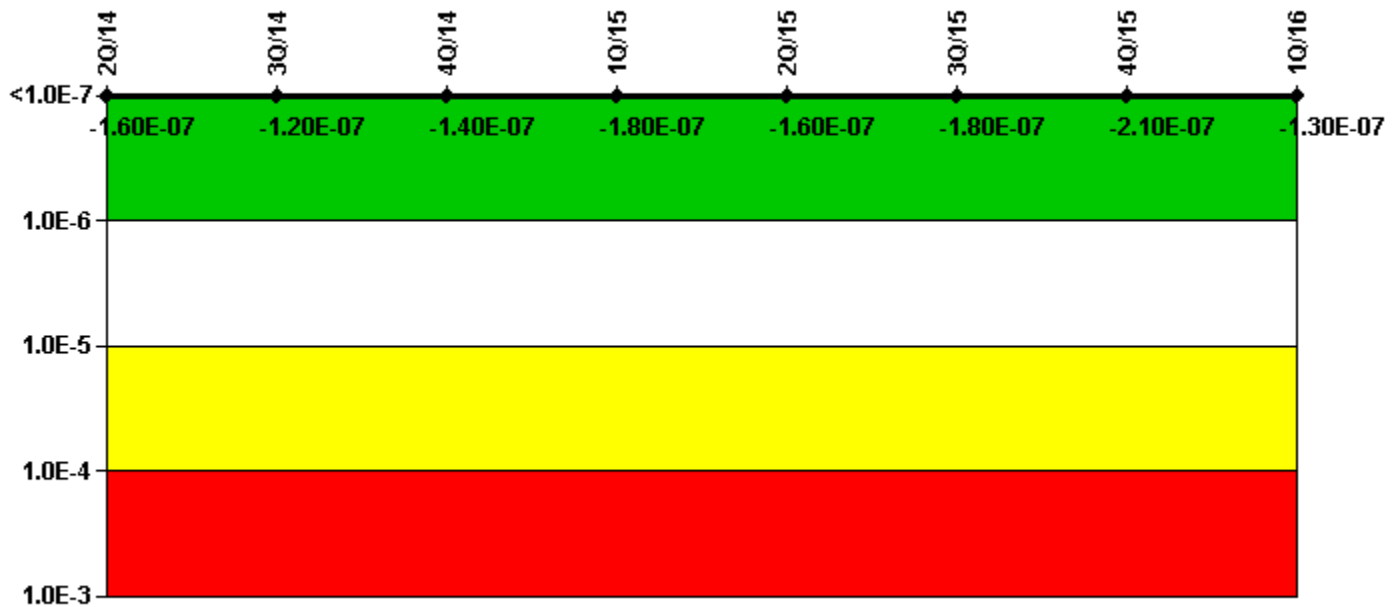
#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI ( $\Delta$ CDF)	-4.34E-08	-4.36E-08	-3.15E-08	-2.95E-08	-9.82E-09	-3.34E-08	-5.28E-08	-5.24E-08
URI ( $\Delta$ CDF)	-8.35E-09	-8.35E-09	-8.35E-09	-8.35E-09	-8.35E-09	-8.35E-09	-8.35E-09	-8.35E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.20E-08	-5.20E-08	-4.00E-08	-3.80E-08	-1.80E-08	-4.20E-08	-6.10E-08	-6.10E-08

Licensee Comments:

2Q/14: PRA update due to model R1- MSPI Basis Document R7

### Mitigating Systems Performance Index, Heat Removal System



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

#### Notes

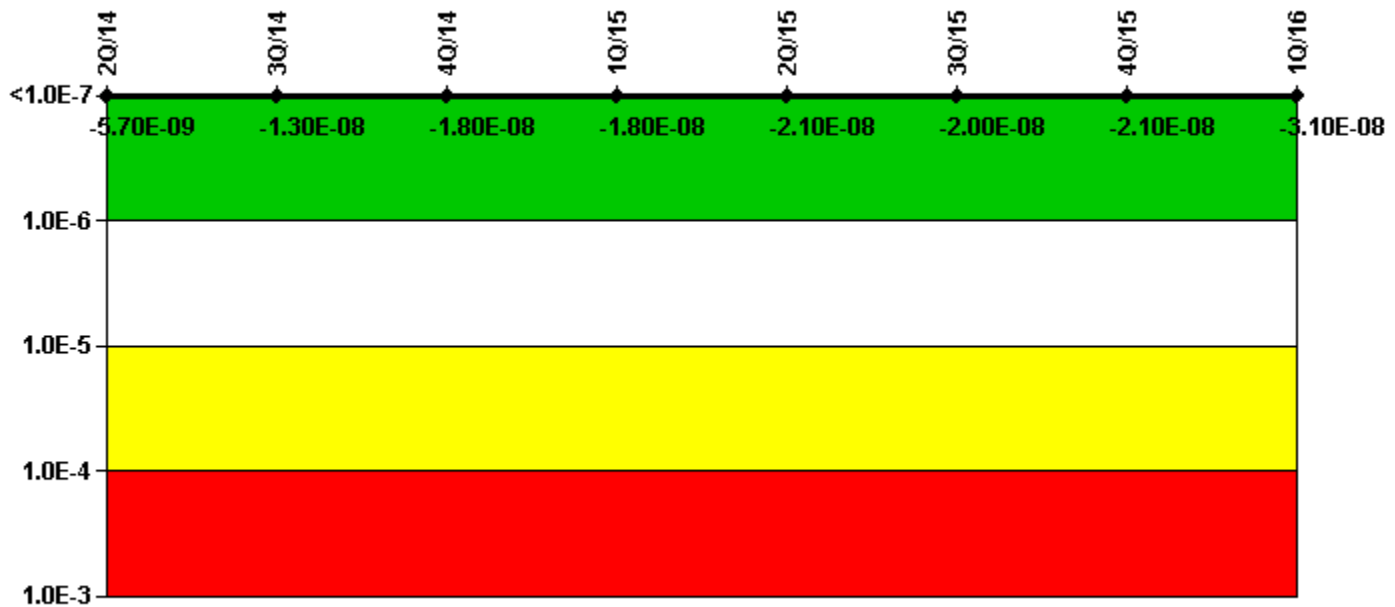
Mitigating Systems Performance Index, Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI ( $\Delta$ CDF)	1.37E-07	1.79E-07	1.59E-07	1.38E-07	1.60E-07	1.39E-07	1.08E-07	1.19E-07
URI ( $\Delta$ CDF)	-2.95E-07	-2.98E-07	-2.98E-07	-3.18E-07	-3.18E-07	-3.17E-07	-3.17E-07	-2.45E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-07	-1.20E-07	-1.40E-07	-1.80E-07	-1.60E-07	-1.80E-07	-2.10E-07	-1.30E-07

Licensee Comments:

2Q/14: PRA update due to model R1- MSPI Basis Document R7

2Q/14: PRA update due to model R1- MSPI Basis Document R7

### Mitigating Systems Performance Index, Residual Heat Removal System



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

#### Notes

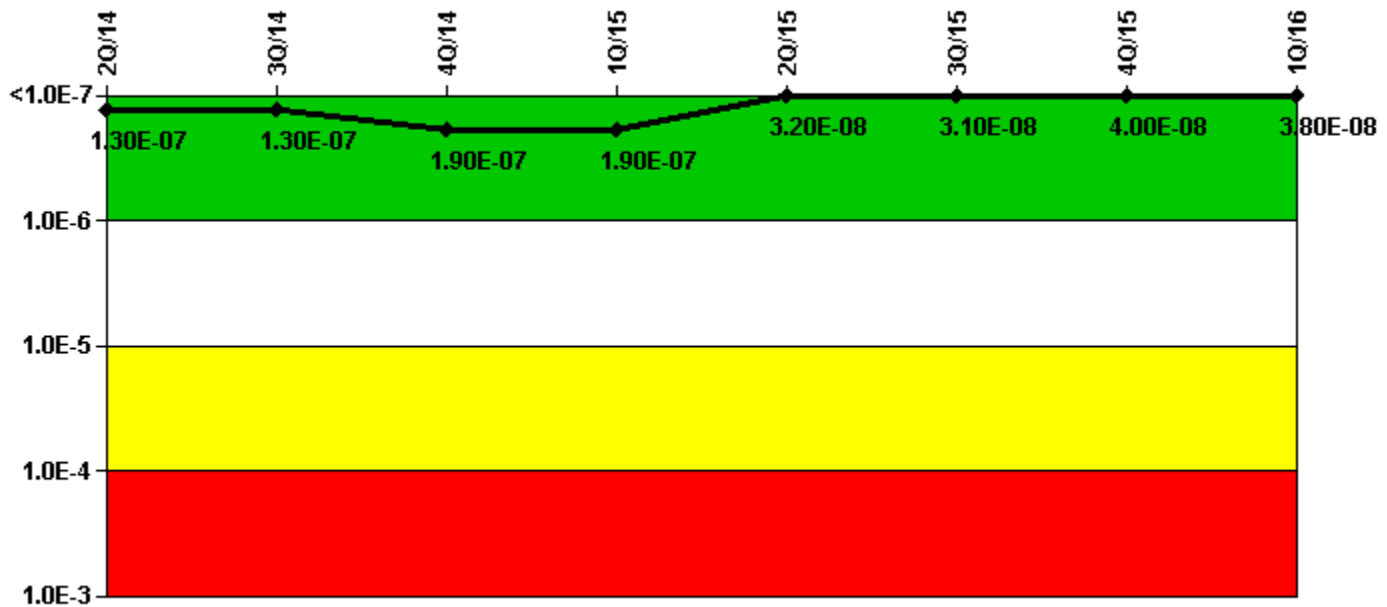
Mitigating Systems Performance Index, Residual Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI ( $\Delta$ CDF)	1.68E-08	9.99E-09	6.11E-09	6.21E-09	3.87E-09	6.10E-09	5.24E-09	-4.47E-09
URI ( $\Delta$ CDF)	-2.24E-08	-2.31E-08	-2.38E-08	-2.44E-08	-2.50E-08	-2.56E-08	-2.62E-08	-2.68E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.70E-09	-1.30E-08	-1.80E-08	-1.80E-08	-2.10E-08	-2.00E-08	-2.10E-08	-3.10E-08

Licensee Comments:

2Q/14: PRA update due to model R1- MSPI Basis Document R7



### Mitigating Systems Performance Index, Cooling Water Systems



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

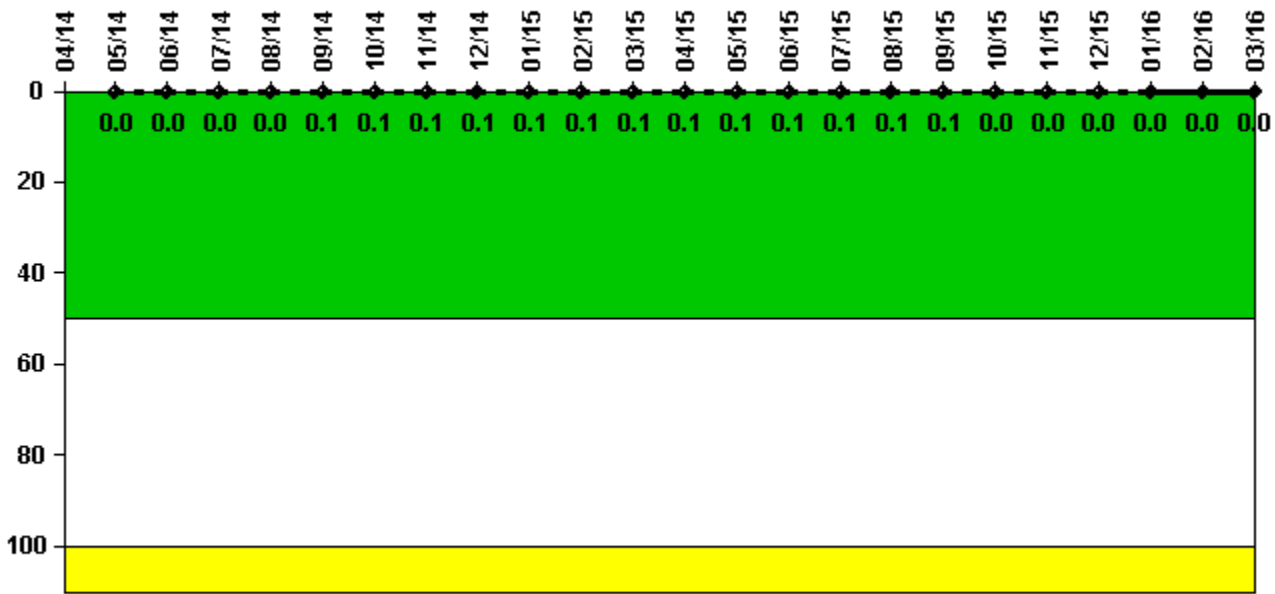
#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (ΔCDF)	1.30E-07	1.29E-07	1.91E-07	1.94E-07	3.06E-08	3.00E-08	3.86E-08	3.69E-08
URI (ΔCDF)	1.14E-09	1.14E-09	1.14E-09	1.14E-09	1.14E-09	1.14E-09	1.14E-09	1.14E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.30E-07	1.90E-07	1.90E-07	3.20E-08	3.10E-08	4.00E-08	3.80E-08

Licensee Comments:

2Q/14: PRA update due to model R1- MSPI Basis Document R7

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

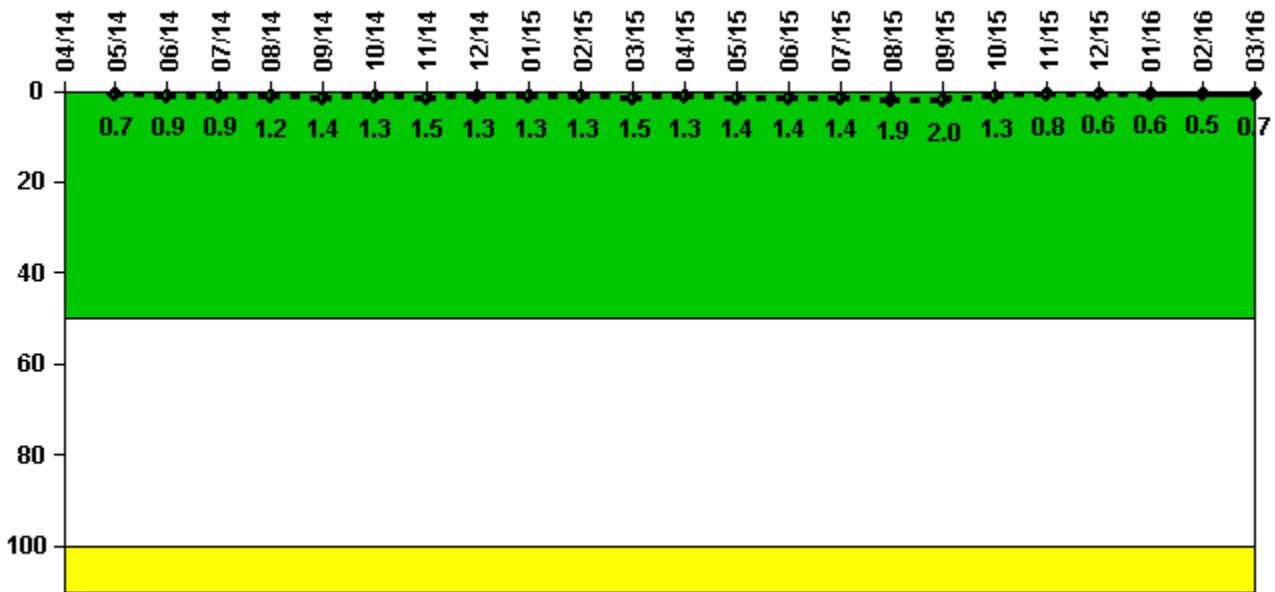
Reactor Coolant System Activity	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum activity	N/A	0.000113	0.000121	0.000130	0.000127	0.000133	0.000137	0.000149	0.000154	0.000158	0.000154	0.000168
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	N/A	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	0.000168	0.000172	0.000177	0.000188	0.000191	0.000182	0.000079	0.000088	0.000088	0.000094	0.000098	0.000106
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

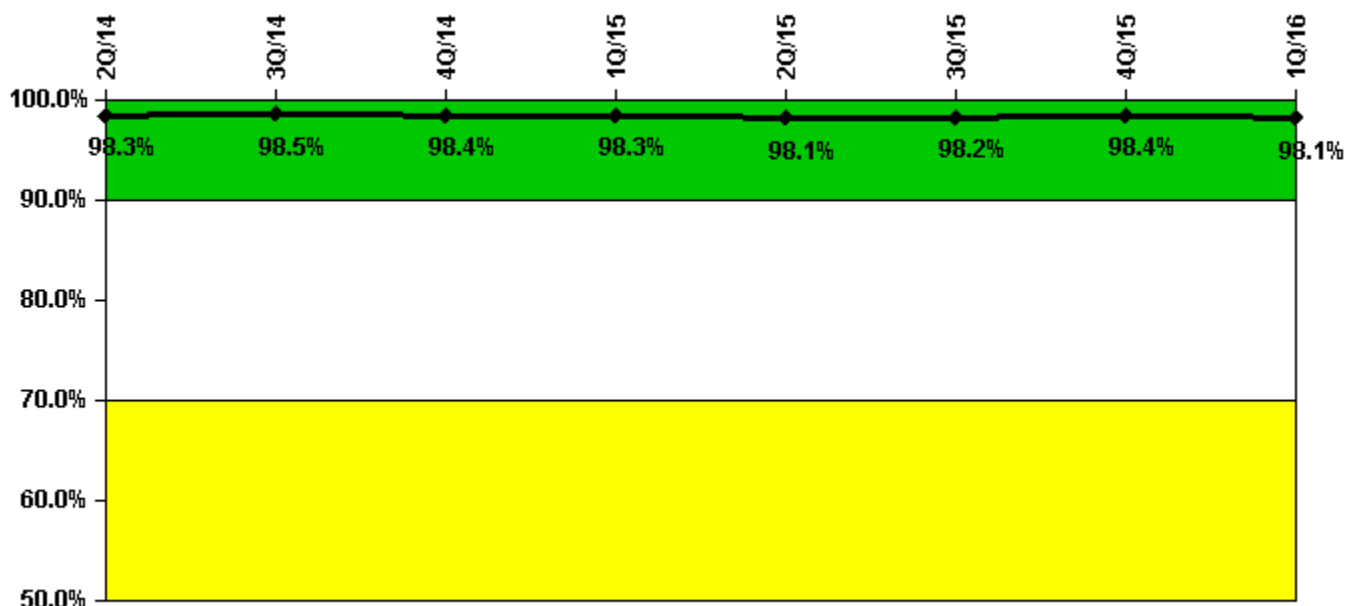
Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	N/A	0.070	0.090	0.090	0.120	0.140	0.130	0.150	0.130	0.130	0.130	0.150
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	N/A	0.7	0.9	0.9	1.2	1.4	1.3	1.5	1.3	1.3	1.3	1.5

Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	0.130	0.140	0.140	0.140	0.190	0.200	0.130	0.080	0.060	0.060	0.050	0.070
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	1.3	1.4	1.4	1.4	1.9	2.0	1.3	0.8	0.6	0.6	0.5	0.7

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful opportunities	73.0	41.0	77.0	61.0	11.0	22.0	49.0	34.0
Total opportunities	74.0	42.0	78.0	62.0	12.0	22.0	49.0	36.0
<b>Indicator value</b>	<b>98.3%</b>	<b>98.5%</b>	<b>98.4%</b>	<b>98.3%</b>	<b>98.1%</b>	<b>98.2%</b>	<b>98.4%</b>	<b>98.1%</b>

Licensee Comments: none

### ERO Drill Participation



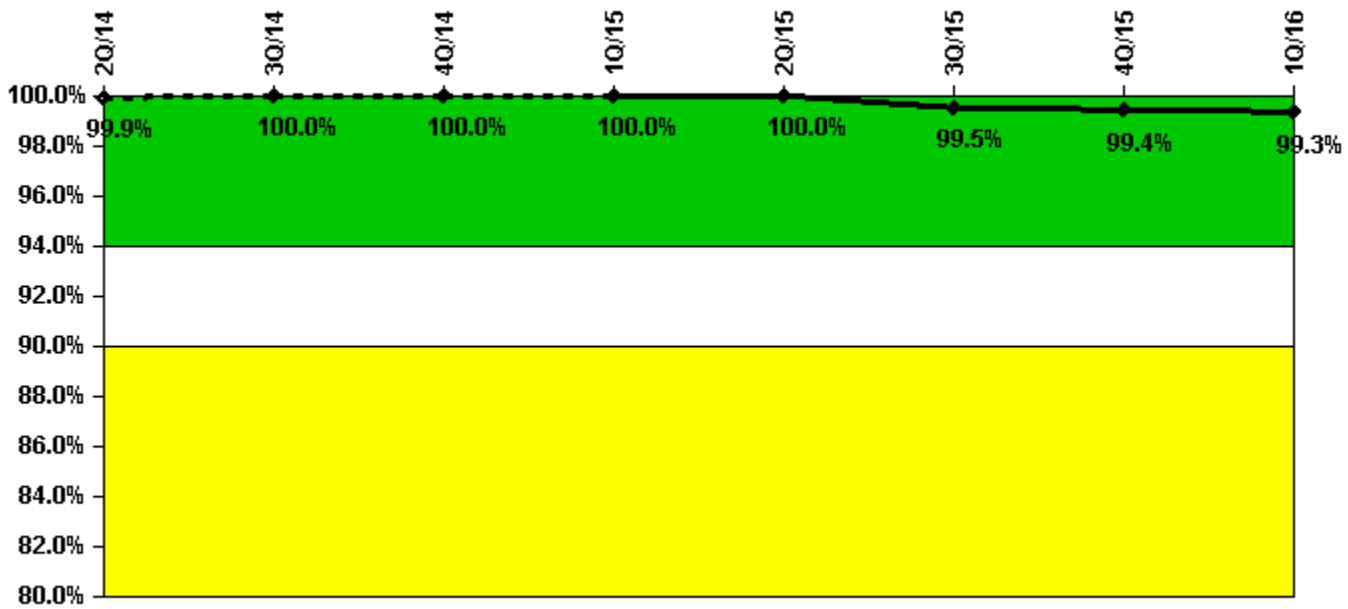
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Participating Key personnel	79.0	79.0	76.0	75.0	71.0	73.0	73.0	74.0
Total Key personnel	79.0	79.0	76.0	75.0	71.0	73.0	73.0	74.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



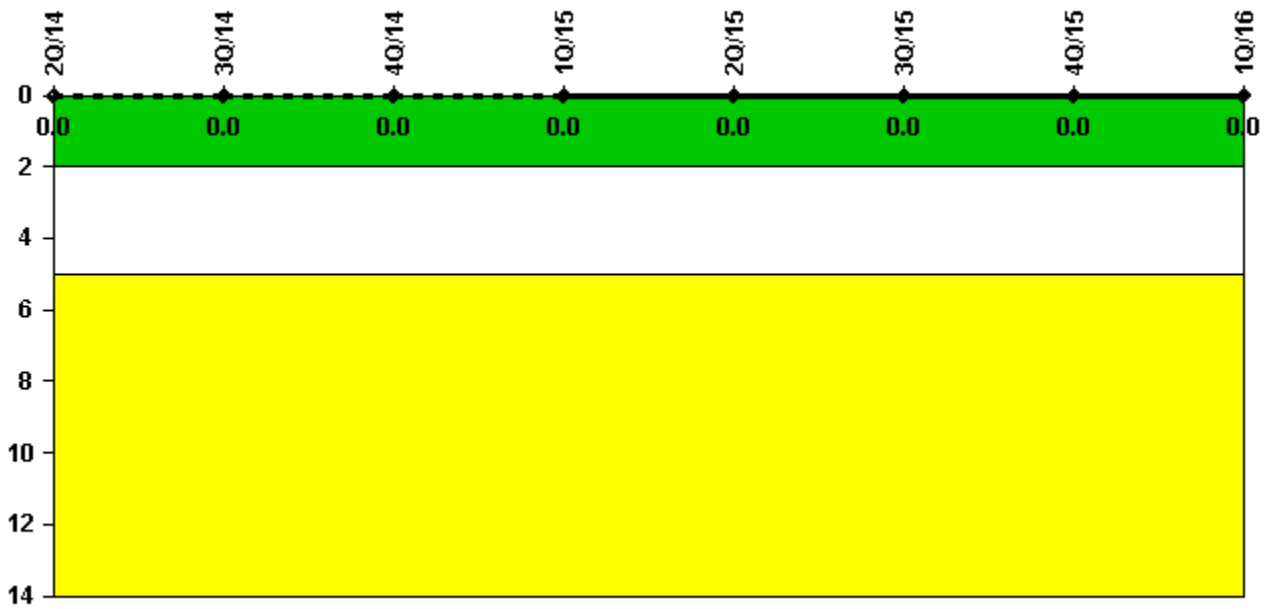
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful siren-tests	701	909	808	909	707	892	704	906
Total sirens-tests	701	909	808	909	707	909	707	909
Indicator value	99.9%	100.0%	100.0%	100.0%	100.0%	99.5%	99.4%	99.3%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



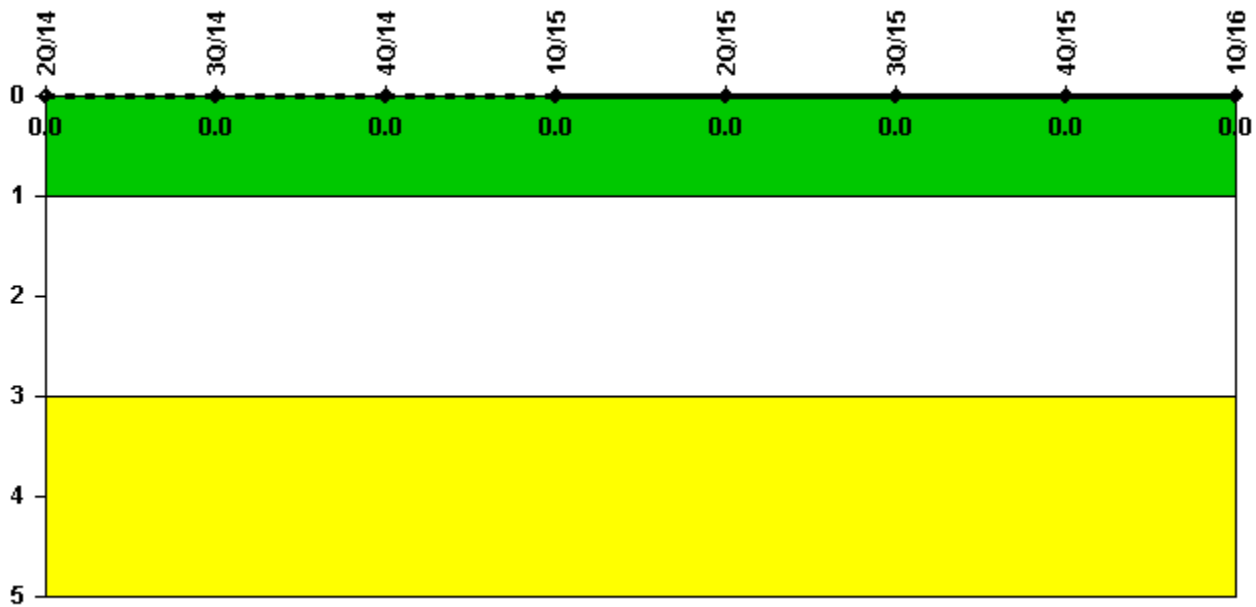
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
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>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
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: April 23, 2016*