



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries> Peach Bottom 3 > Quarterly Performance Indicators

## Peach Bottom 3 – Quarterly Performance Indicators

### 3Q/2017 Performance Indicators

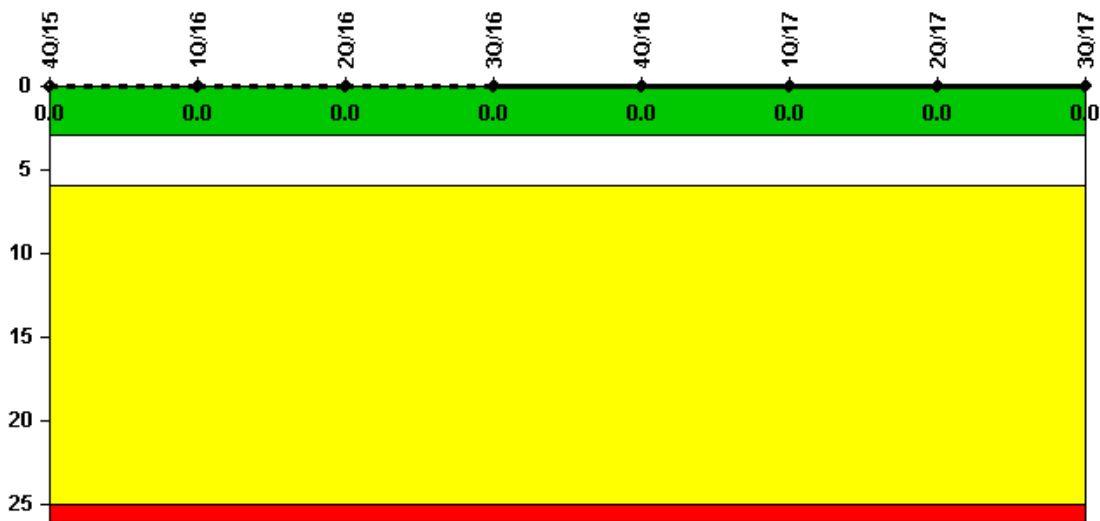
The solid trend line represents the current reporting period.

Licensee's General Comments: Update to improve accuracy in reporting. Does not result a change in threshold color.

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

#### Notes

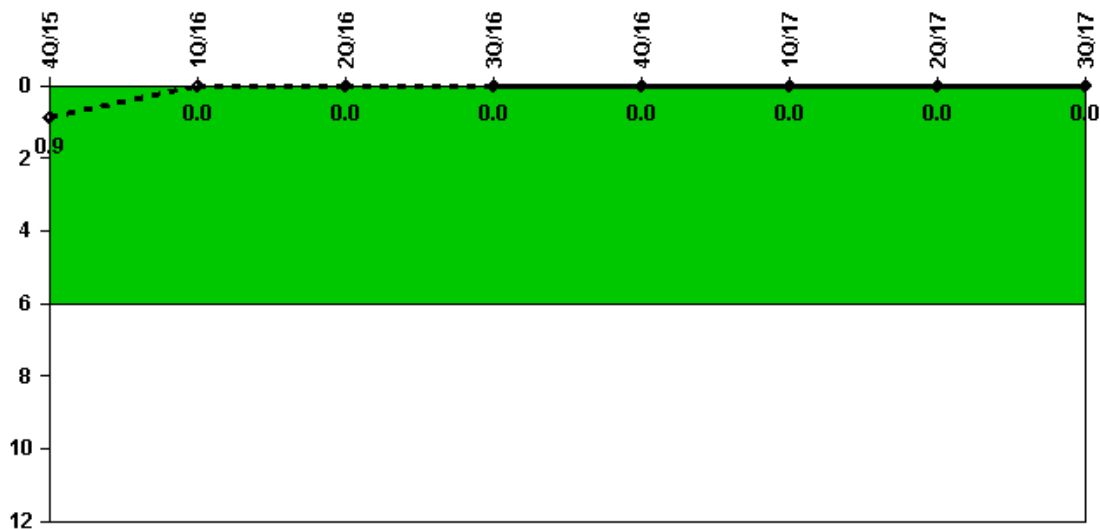
Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1722.9	2183.0	2184.0	2208.0	2209.0	2159.0	2184.0	2208.0

Indicator value: 0 0 0 0 0 0 0 0 0

TOP

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

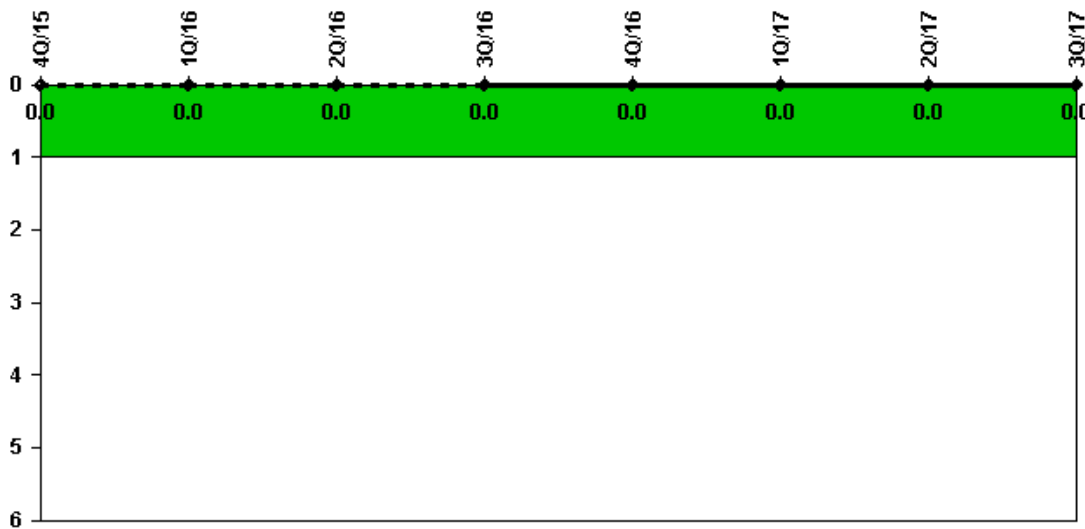
**Notes**

<b>Unplanned Power Changes per 7000 Critical Hrs</b>	<b>4Q/15</b>	<b>1Q/16</b>	<b>2Q/16</b>	<b>3Q/16</b>	<b>4Q/16</b>	<b>1Q/17</b>	<b>2Q/17</b>	<b>3Q/17</b>
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1722.9	2183.0	2184.0	2208.0	2209.0	2159.0	2184.0	2208.0
<b>Indicator value</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

▲ TOP

Licensee Comments: none

**Unplanned Scrams with Complications**



Thresholds: White > 1.0

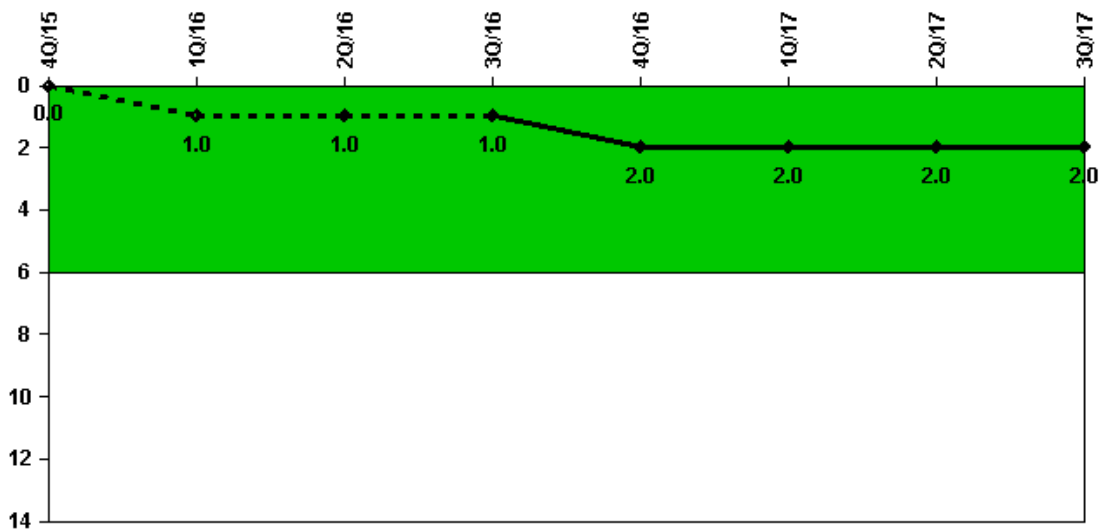
**Notes**

<b>Unplanned Scrams with Complications</b>	<b>4Q/15</b>	<b>1Q/16</b>	<b>2Q/16</b>	<b>3Q/16</b>	<b>4Q/16</b>	<b>1Q/17</b>	<b>2Q/17</b>	<b>3Q/17</b>
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>

▲ TOP

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR) 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

Safety System Functional Failures 0 1 0 0 1 1 0 0

Indicator value 0 1 1 1 2 2 2 2

▲ TOP

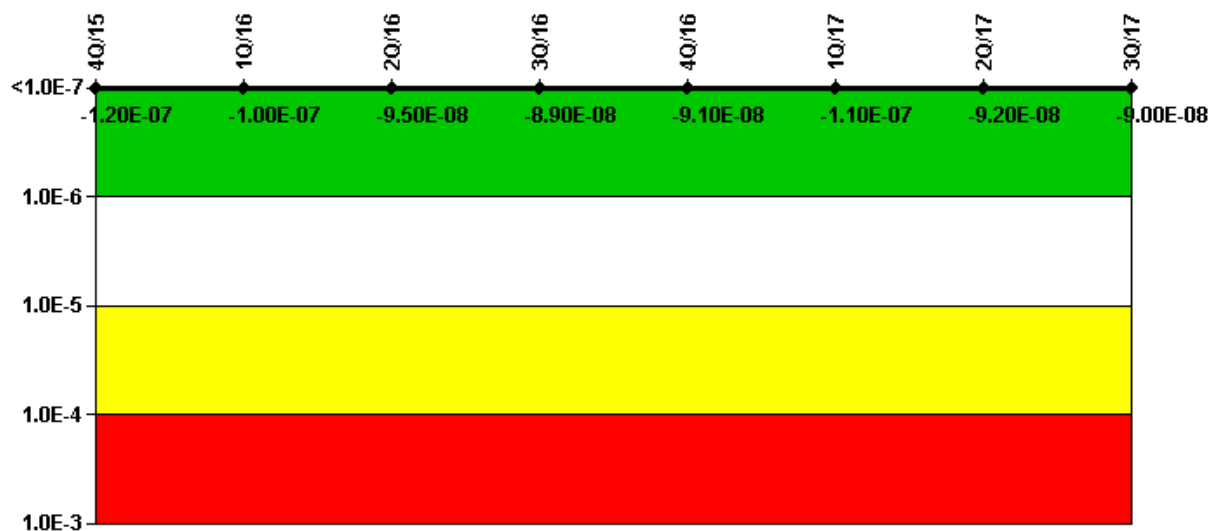
Licensee Comments:

1Q/17: LER 2-17-001

4Q/16: LER 3-16-001

1Q/16: LER 3-15-001

### Mitigating Systems Performance Index, Emergency AC Power System



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

#### Notes

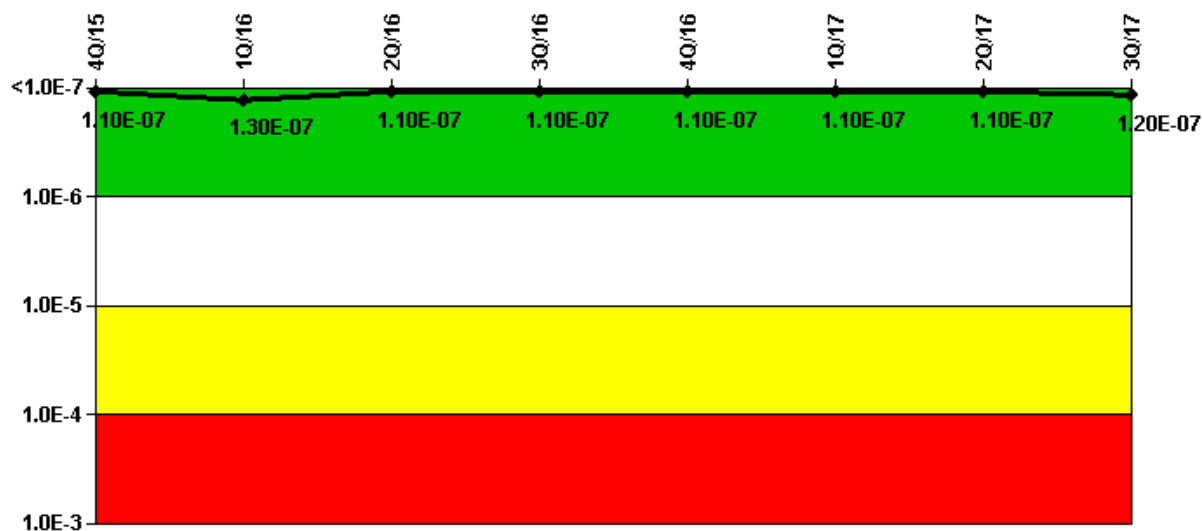
#### Mitigating Systems Performance Index, Emergency AC Power System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI ( $\Delta$ CDF)	-3.77E-09	-1.03E-08	-8.07E-10	4.01E-09	3.78E-09	-9.96E-09	5.28E-09	6.80E-09
URI ( $\Delta$ CDF)	-1.19E-07	-9.36E-08	-9.40E-08	-9.31E-08	-9.48E-08	-9.67E-08	-9.71E-08	-9.64E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-1.20E-07</b>	<b>-1.00E-07</b>	<b>-9.50E-08</b>	<b>-8.90E-08</b>	<b>-9.10E-08</b>	<b>-1.10E-07</b>	<b>-9.20E-08</b>	<b>-9.00E-08</b>

▲ TOP

Licensee Comments: none

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



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

**Notes**

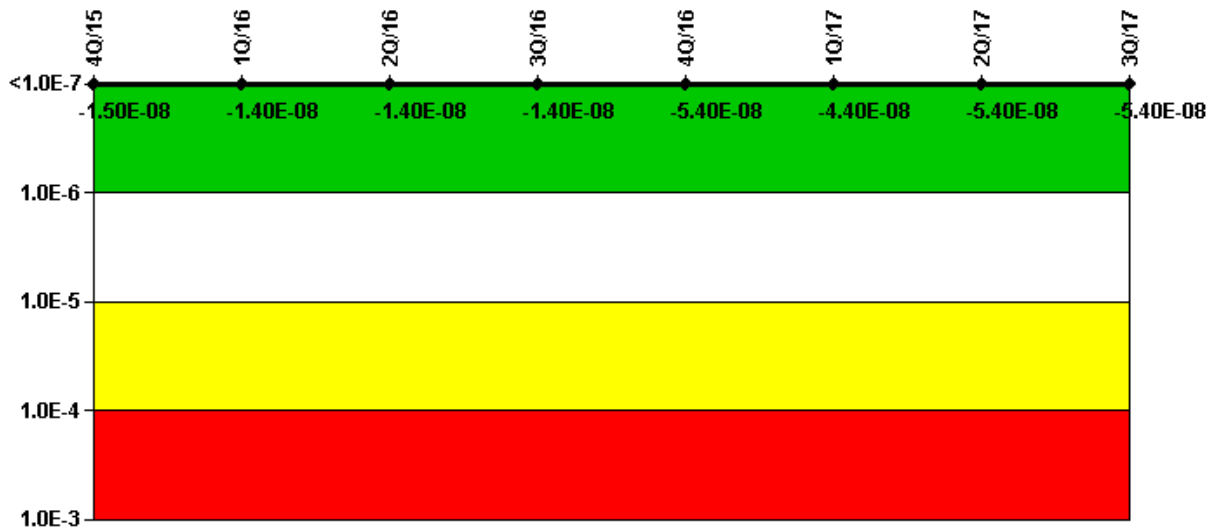
**Mitigating Systems Performance Index, High Pressure Injection System**

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI ( $\Delta$ CDF)	-1.97E-08	-1.89E-09	-2.35E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-1.54E-08
URI ( $\Delta$ CDF)	1.33E-07	1.31E-07	1.31E-07	1.31E-07	1.31E-07	1.31E-07	1.31E-07	1.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>1.10E-07</b>	<b>1.30E-07</b>	<b>1.10E-07</b>	<b>1.10E-07</b>	<b>1.10E-07</b>	<b>1.10E-07</b>	<b>1.10E-07</b>	<b>1.20E-07</b>

▲ TOP

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



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

**Notes**

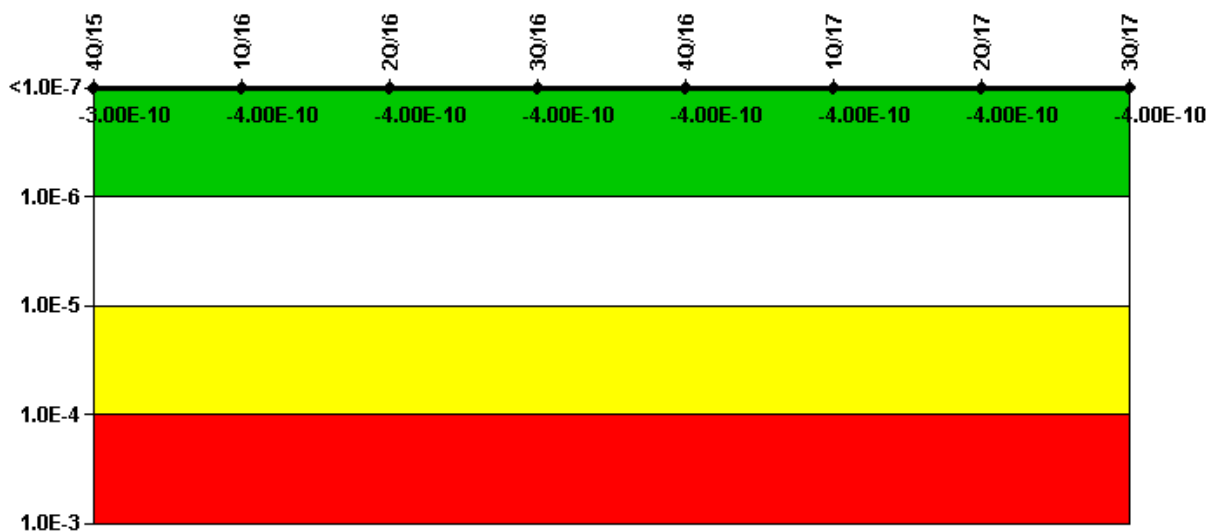
**Mitigating Systems Performance Index, Heat Removal System**

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI ( $\Delta$ CDF)	-1.68E-08	-1.63E-08	-1.63E-08	-1.63E-08	-1.80E-08	-7.67E-09	-1.80E-08	-1.80E-08
URI ( $\Delta$ CDF)	1.77E-09	2.51E-09	2.51E-09	2.51E-09	-3.62E-08	-3.62E-08	-3.62E-08	-3.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-1.50E-08</b>	<b>-1.40E-08</b>	<b>-1.40E-08</b>	<b>-1.40E-08</b>	<b>-5.40E-08</b>	<b>-4.40E-08</b>	<b>-5.40E-08</b>	<b>-5.40E-08</b>

▲ TOP

Licensee Comments: none

### 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**

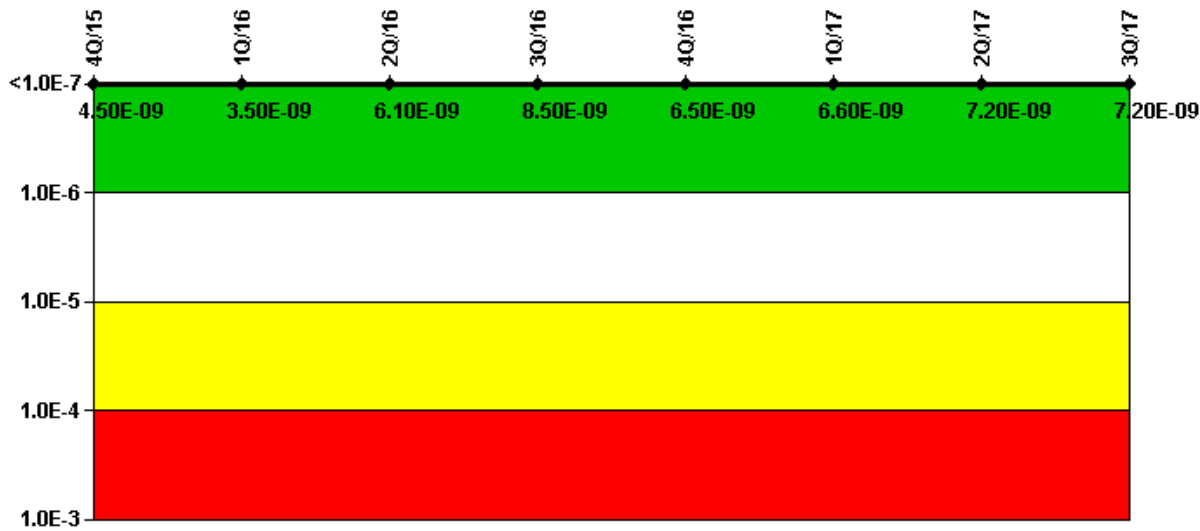
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI ( $\Delta$ CDF)	1.69E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
URI ( $\Delta$ CDF)	-4.67E-10	-4.04E-10	-4.04E-10	-4.04E-10	-4.04E-10	-4.04E-10	-4.04E-10	-4.04E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-3.00E-10</b>	<b>-4.00E-10</b>	<b>-4.00E-10</b>	<b>-4.00E-10</b>	<b>-4.00E-10</b>	<b>-4.00E-10</b>	<b>-4.00E-10</b>	<b>-4.00E-10</b>

▲ TOP

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



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

**Notes**

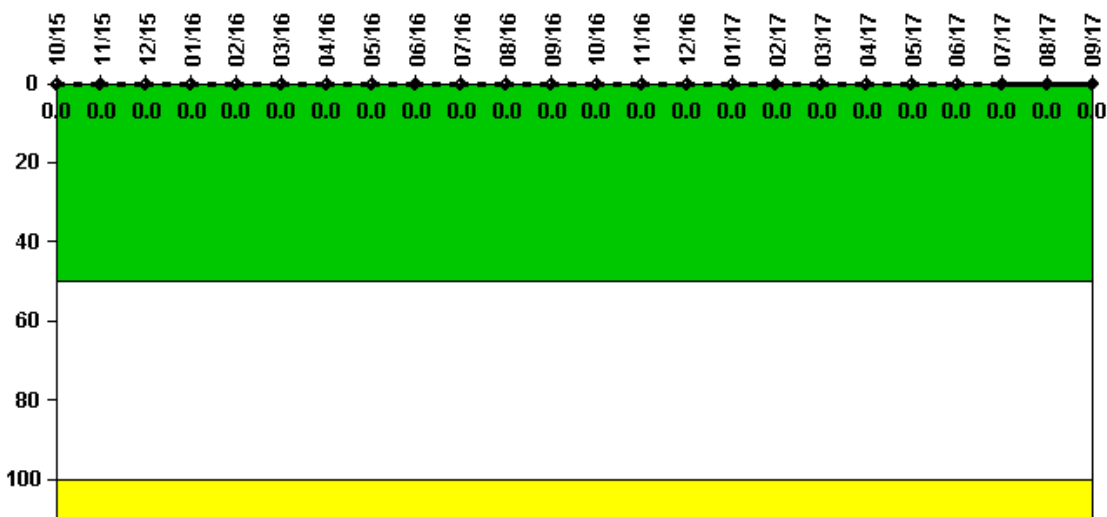
**Mitigating Systems Performance Index, Cooling Water Systems**

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI ( $\Delta$ CDF)	6.96E-09	5.79E-09	5.81E-09	5.52E-09	3.62E-09	3.67E-09	4.31E-09	4.26E-09
URI ( $\Delta$ CDF)	-2.44E-09	-2.26E-09	3.34E-10	2.93E-09	2.93E-09	2.93E-09	2.93E-09	2.93E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>4.50E-09</b>	<b>3.50E-09</b>	<b>6.10E-09</b>	<b>8.50E-09</b>	<b>6.50E-09</b>	<b>6.60E-09</b>	<b>7.20E-09</b>	<b>7.20E-09</b>

▲ TOP

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

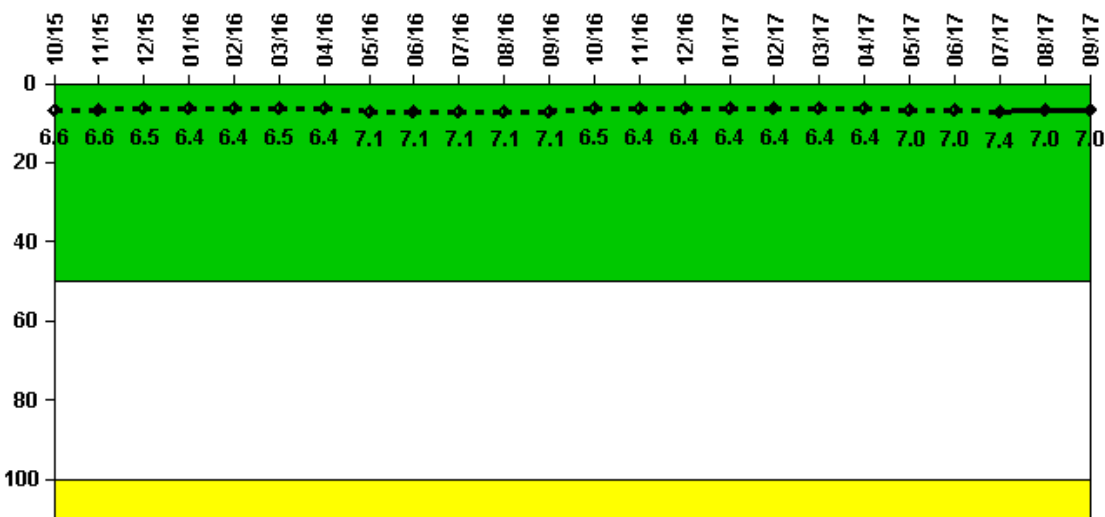
**Notes**

Reactor Coolant System Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	0.000014	0.000017	0.000018	0.000019	0.000020	0.000018	0.000020	0.000021	0.000024	0.000022	0.000025	0.000023
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
Reactor Coolant System Activity	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum activity	0.000024	0.000024	0.000023	0.000048	0.000026	0.000022	0.000021	0.000022	0.000030	0.000024	0.000028	0.000034
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

▲ TOP

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

Reactor Coolant System Leakage	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum leakage	1.640	1.640	1.630	1.610	1.590	1.620	1.590	1.780	1.770	1.780	1.780	1.770
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

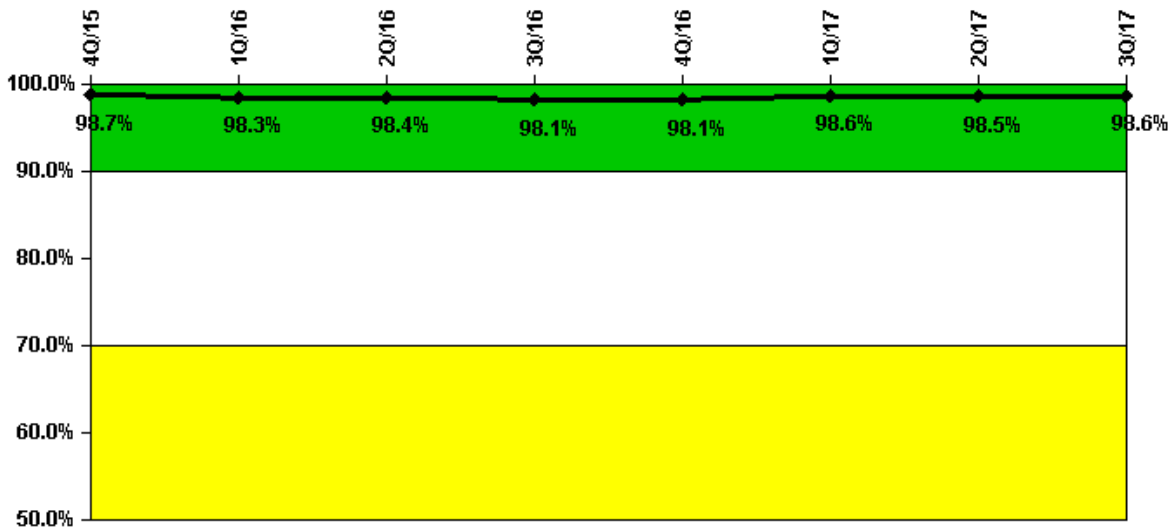
<b>Indicator value</b>	<b>6.6</b>	<b>6.6</b>	<b>6.5</b>	<b>6.4</b>	<b>6.4</b>	<b>6.5</b>	<b>6.4</b>	<b>7.1</b>	<b>7.1</b>	<b>7.1</b>	<b>7.1</b>	<b>7.1</b>
Reactor Coolant System Leakage	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum leakage	1.620	1.600	1.600	1.590	1.610	1.590	1.600	1.750	1.760	1.860	1.750	1.750
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

<b>Indicator value</b>	<b>6.5</b>	<b>6.4</b>	<b>6.4</b>	<b>6.4</b>	<b>6.4</b>	<b>6.4</b>	<b>6.4</b>	<b>7.0</b>	<b>7.0</b>	<b>7.4</b>	<b>7.0</b>	<b>7.0</b>
------------------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------

▲ TOP

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful opportunities	30.0	80.0	76.0	23.0	7.0	72.0	38.0	32.0
Total opportunities	30.0	81.0	77.0	24.0	7.0	73.0	39.0	32.0

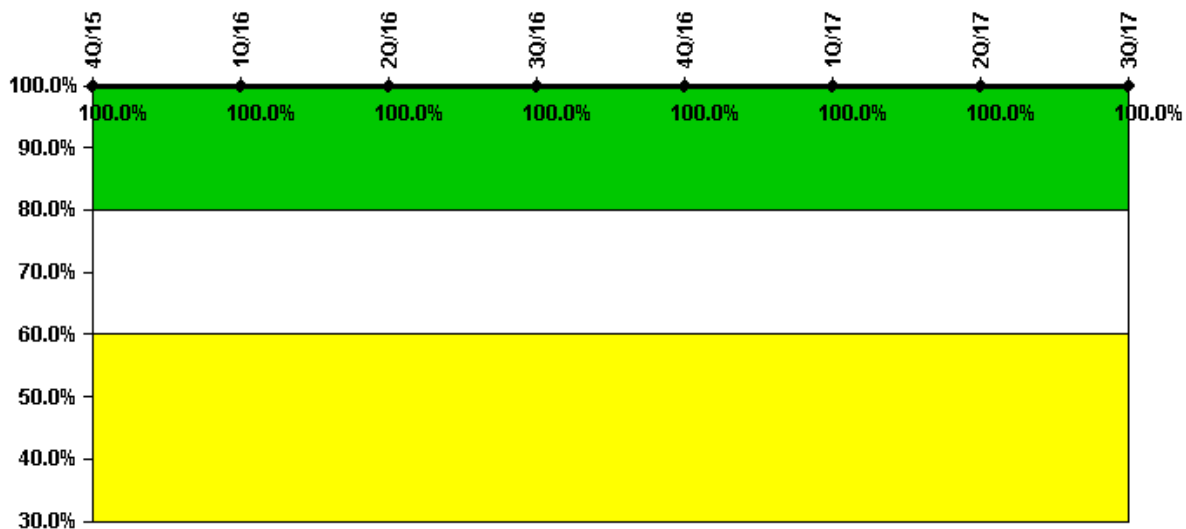
**Indicator value**                    **98.7% 98.3% 98.4% 98.1% 98.1% 98.6% 98.5% 98.6%**

▲ TOP

Licensee Comments:

2Q/16: Error in data reporting. Does not affect color of the indicator.

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

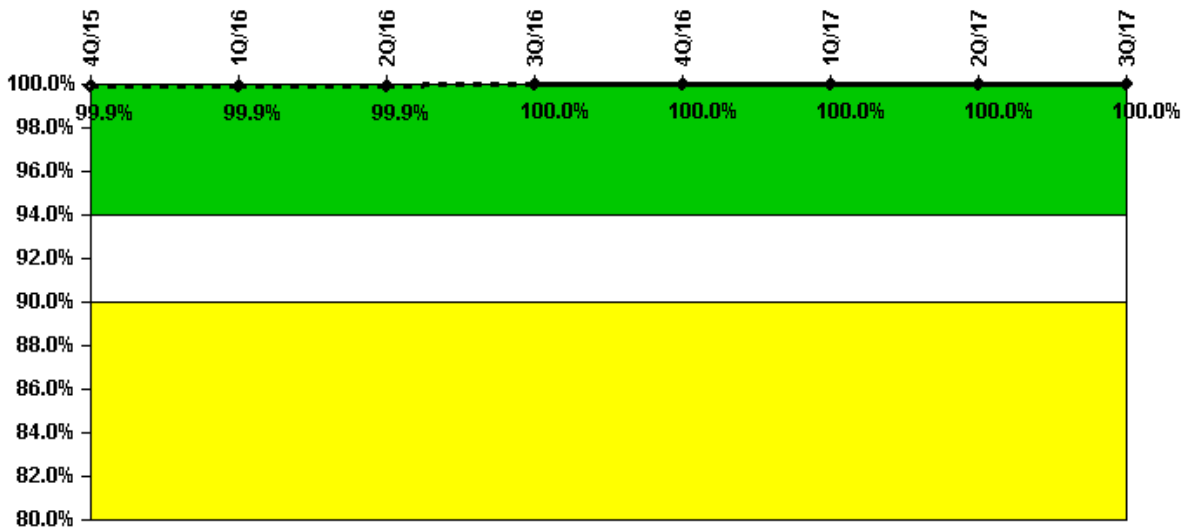
ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	78.0	72.0	74.0	75.0	72.0	74.0	71.0	72.0
Total Key personnel	78.0	72.0	74.0	75.0	72.0	74.0	71.0	72.0

**Indicator value**                    **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%**

▲ TOP

Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

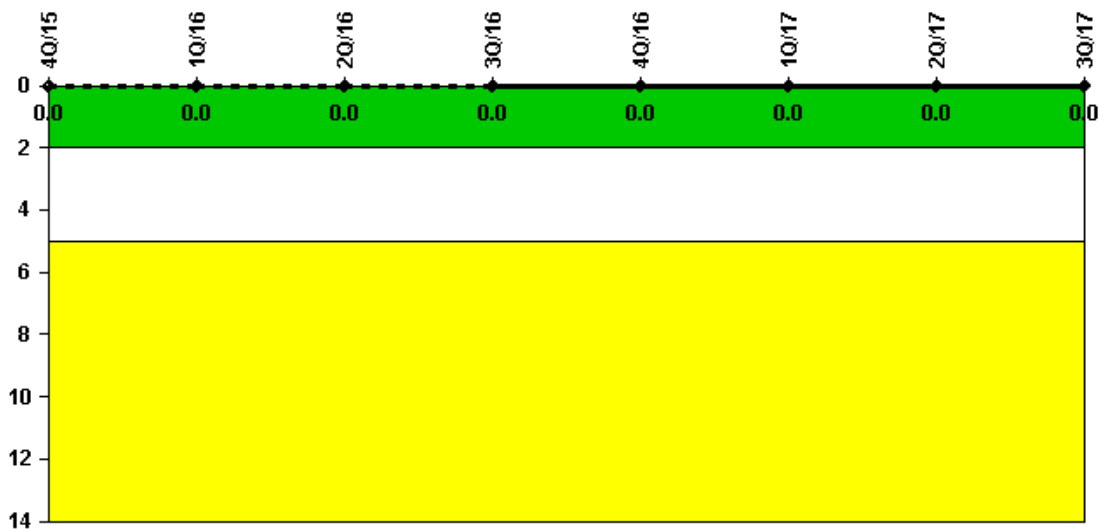
Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	1259	1261	1261	1261	1261	1260	1261	1261
Total sirens-tests	1261	1261	1261	1261	1261	1261	1261	1261

**Indicator value**                    **99.9%** **99.9%** **99.9%** **100.0%** **100.0%** **100.0%** **100.0%** **100.0%**

▲ TOP

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

**Notes**

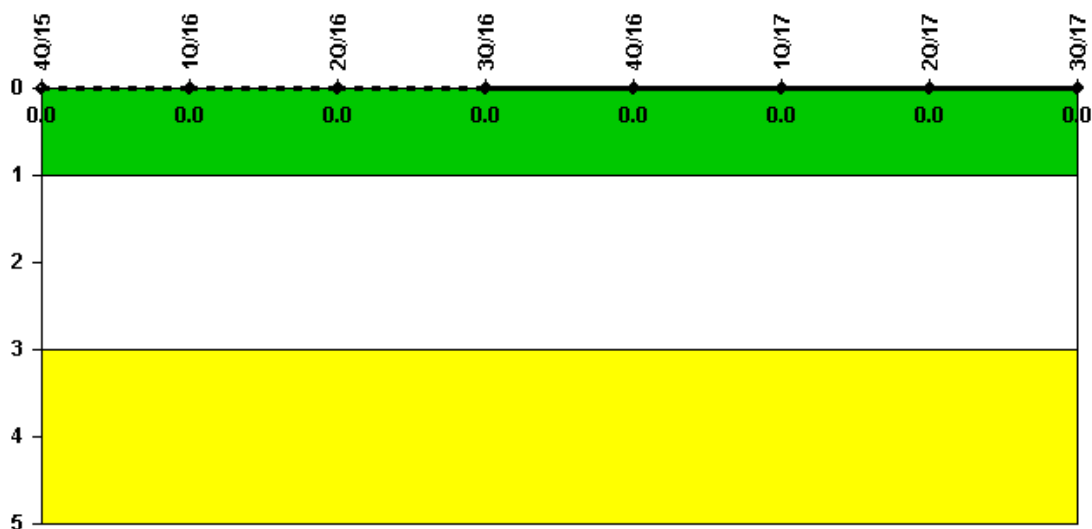
**Occupational Exposure Control Effectiveness** 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

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>

▲ TOP

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

#### RETS/ODCM Radiological Effluent 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

RETS/ODCM occurrences                    0    0    0    0    0    0    0    0

**Indicator value**                            0    0    0    0    0    0    0    0

[▲ TOP](#)

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.

*Current data as of: October 31, 2017*

*Page Last Reviewed/Updated Monday, November 06, 2017*