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## Peach Bottom 2 – Quarterly Performance Indicators

### 4Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

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- Heat Removal Systems (MS08)
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- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
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- Emergency Response Organization Drill Participation (EP02)
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- Protected Area Equipment (PP01)

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

**Notes**

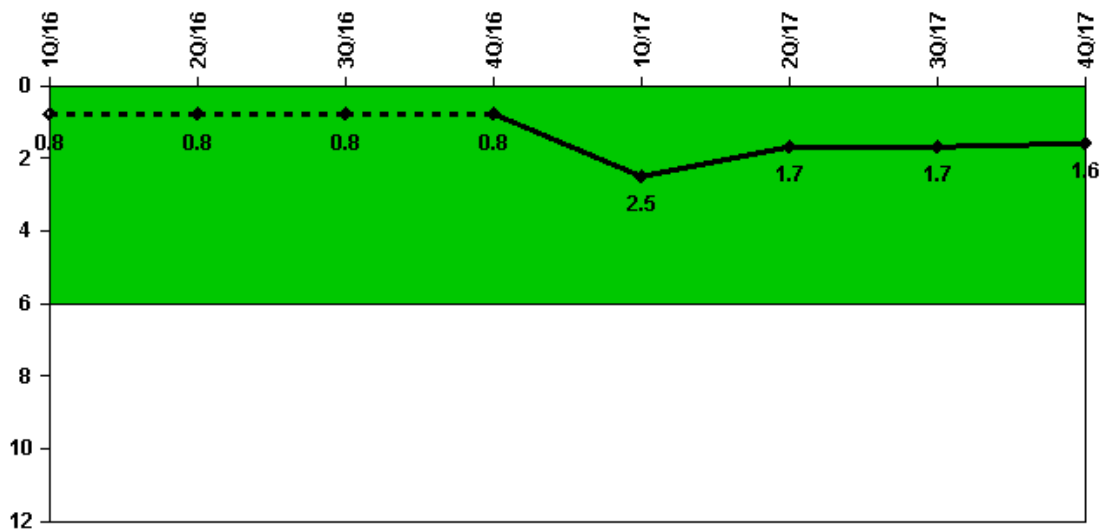
Unplanned Scrams per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	1797.1	2159.0	2184.0	2208.0	2209.0

Indicator value	0	0	0	0	0	0	0	0
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Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

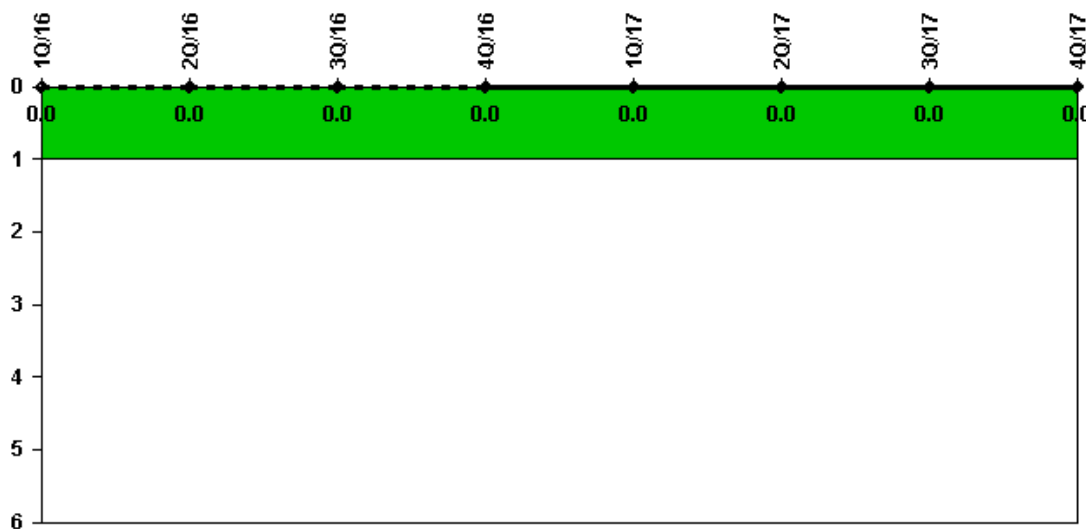
**Notes**

Unplanned Power Changes per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned power changes	0	1.0	0	0	2.0	0	0	0
Critical hours	2183.0	2184.0	2208.0	1797.1	2159.0	2184.0	2208.0	2209.0
<b>Indicator value</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>2.5</b>	<b>1.7</b>	<b>1.7</b>	<b>1.6</b>

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Licensee Comments: none

**Unplanned Scrams with Complications**



Thresholds: White > 1.0

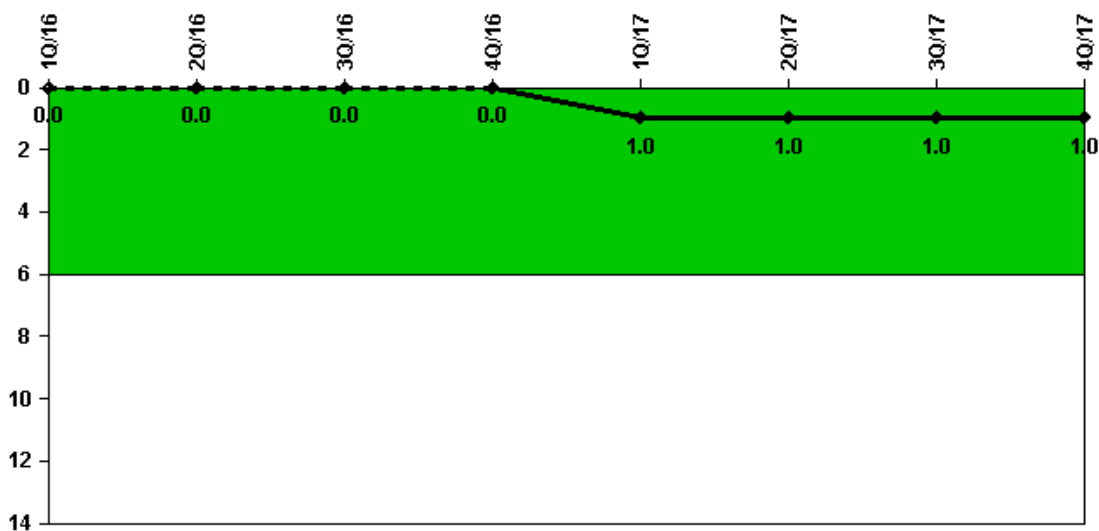
**Notes**

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

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Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

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

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

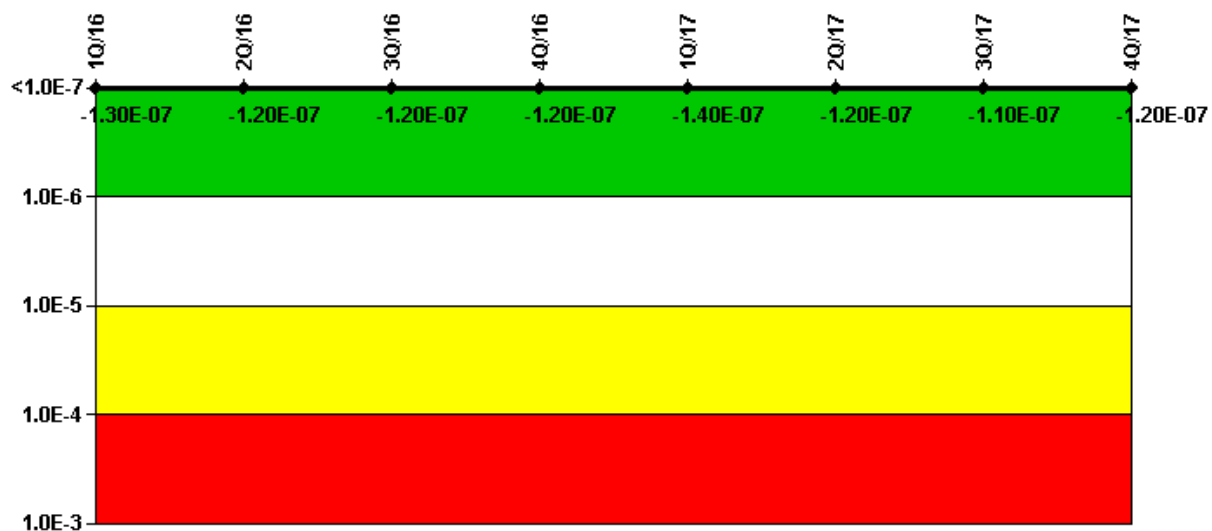
Indicator value 0 0 0 0 1 1 1 1

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Licensee Comments:

1Q/17: LER 2-17-001

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



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

**Notes**

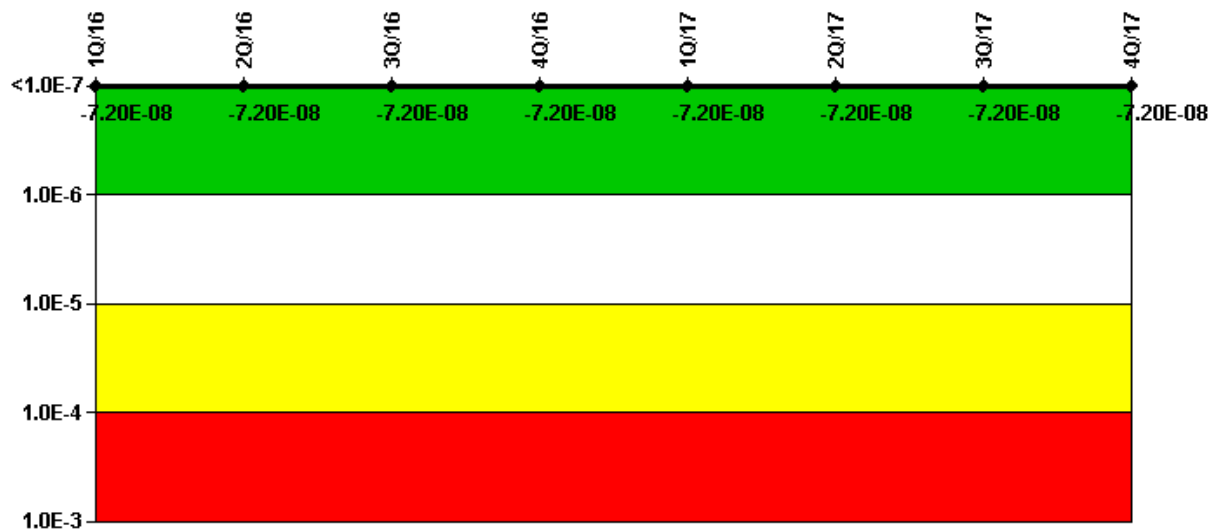
**Mitigating Systems Performance Index, Emergency AC Power System**

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-5.70E-09	4.33E-09	1.66E-09	4.04E-09	-1.02E-08	7.35E-09	1.75E-08	1.41E-08
URI (ΔCDF)	-1.25E-07	-1.26E-07	-1.24E-07	-1.27E-07	-1.29E-07	-1.30E-07	-1.29E-07	-1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-1.30E-07</b>	<b>-1.20E-07</b>	<b>-1.20E-07</b>	<b>-1.20E-07</b>	<b>-1.40E-07</b>	<b>-1.20E-07</b>	<b>-1.10E-07</b>	<b>-1.20E-07</b>

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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**

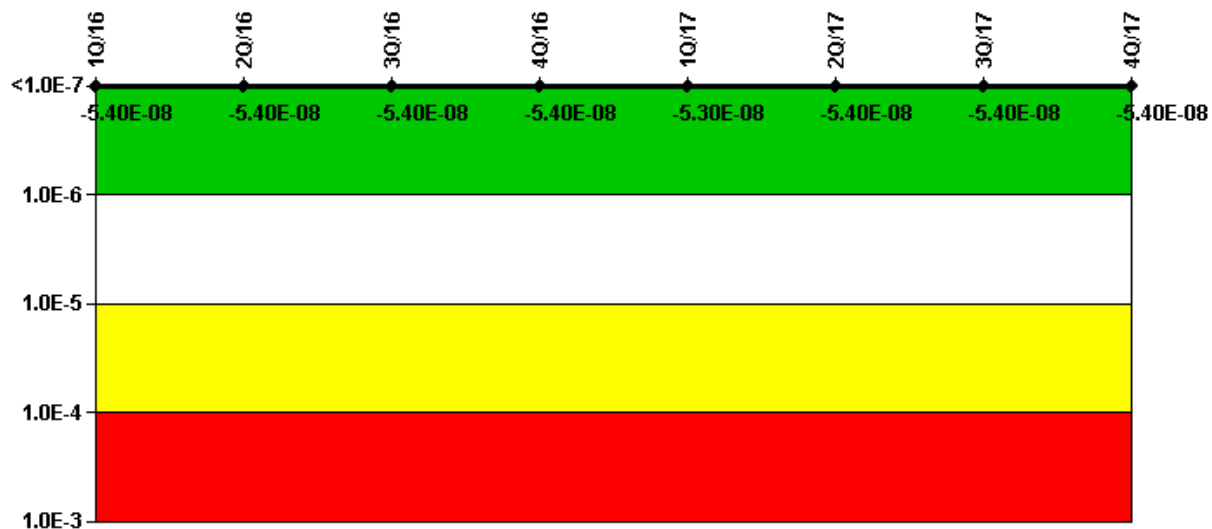
**Mitigating Systems Performance Index, High Pressure Injection System**

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI ( $\Delta$ CDF)	-2.86E-08	-2.86E-08	-2.86E-08	-2.86E-08	-2.86E-08	-2.86E-08	-2.86E-08	-2.86E-08
URI ( $\Delta$ CDF)	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-7.20E-08</b>	<b>-7.20E-08</b>	<b>-7.20E-08</b>	<b>-7.20E-08</b>	<b>-7.20E-08</b>	<b>-7.20E-08</b>	<b>-7.20E-08</b>	<b>-7.20E-08</b>

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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**

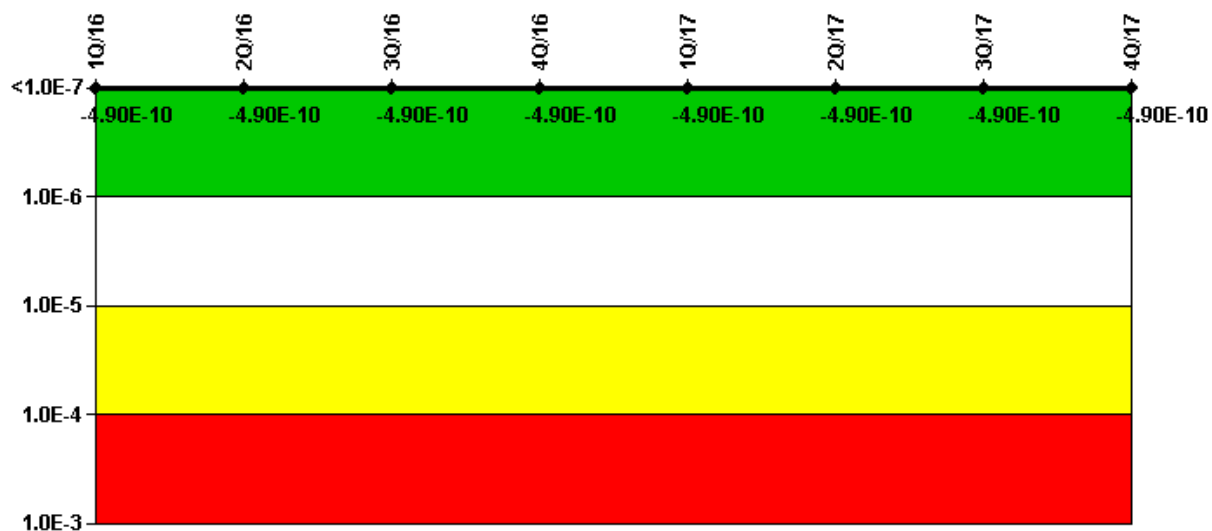
	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-1.79E-08	-1.79E-08	-1.79E-08	-1.79E-08	-1.66E-08	-1.79E-08	-1.79E-08	-1.76E-08
URI (ΔCDF)	-3.62E-08	-3.62E-08	-3.62E-08	-3.62E-08	-3.62E-08	-3.62E-08	-3.62E-08	-3.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-5.40E-08</b>	<b>-5.40E-08</b>	<b>-5.40E-08</b>	<b>-5.40E-08</b>	<b>-5.30E-08</b>	<b>-5.40E-08</b>	<b>-5.40E-08</b>	<b>-5.40E-08</b>

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Licensee Comments:

1Q/17: Change report for MO-2-13-132 determined not to be an MSPI failure.

### 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**

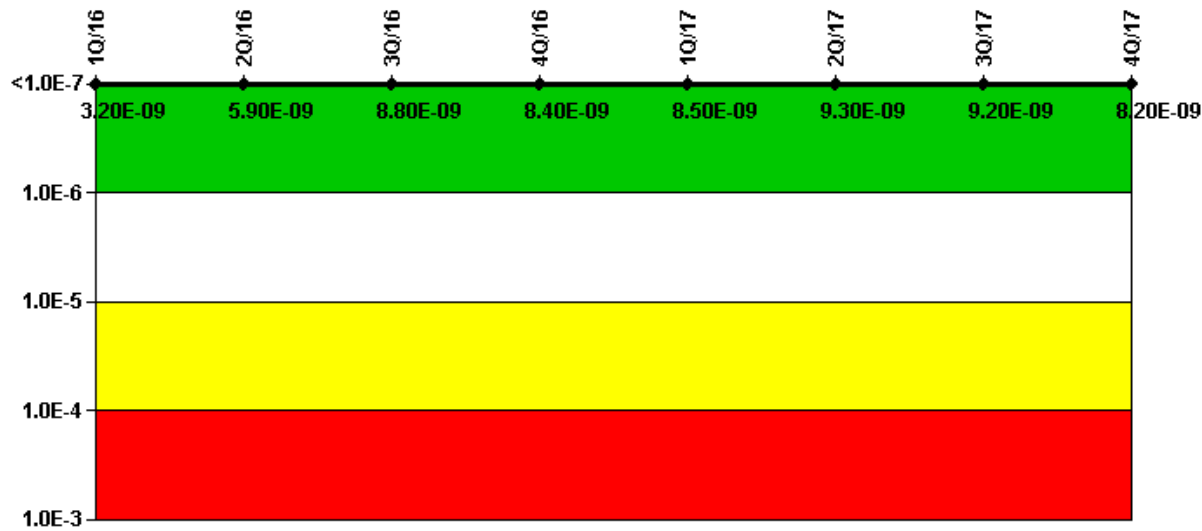
	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI ( $\Delta$ CDF)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
URI ( $\Delta$ CDF)	-4.86E-10	-4.86E-10	-4.86E-10	-4.86E-10	-4.86E-10	-4.86E-10	-4.86E-10	-4.86E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-4.90E-10</b>	<b>-4.90E-10</b>	<b>-4.90E-10</b>	<b>-4.90E-10</b>	<b>-4.90E-10</b>	<b>-4.90E-10</b>	<b>-4.90E-10</b>	<b>-4.90E-10</b>

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Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



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

**Notes**

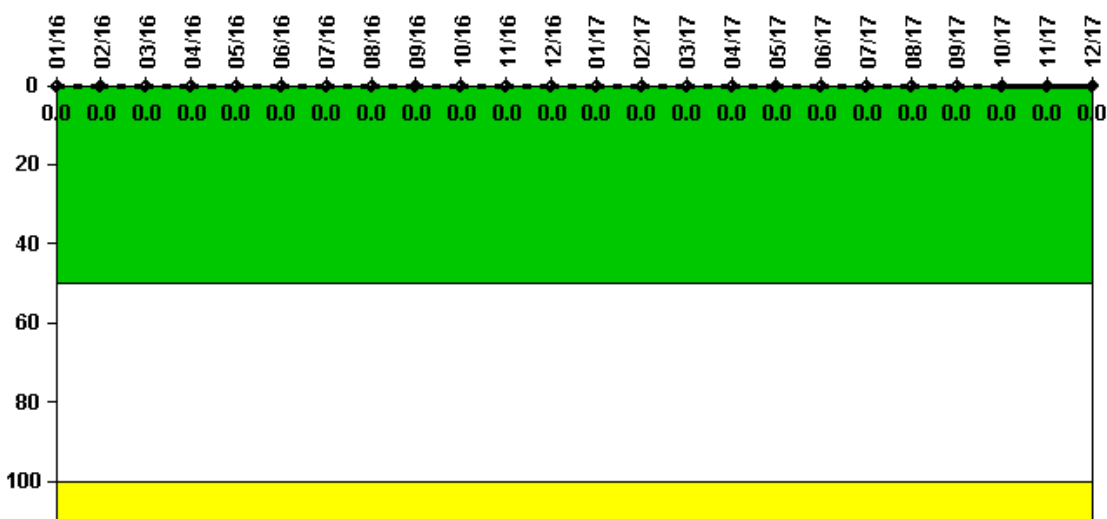
**Mitigating Systems Performance Index, Cooling Water Systems**

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	5.57E-09	5.40E-09	5.44E-09	5.14E-09	5.20E-09	6.07E-09	5.99E-09	4.91E-09
URI (ΔCDF)	-2.35E-09	5.18E-10	3.39E-09	3.26E-09	3.26E-09	3.26E-09	3.26E-09	3.26E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>3.20E-09</b>	<b>5.90E-09</b>	<b>8.80E-09</b>	<b>8.40E-09</b>	<b>8.50E-09</b>	<b>9.30E-09</b>	<b>9.20E-09</b>	<b>8.20E-09</b>

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Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

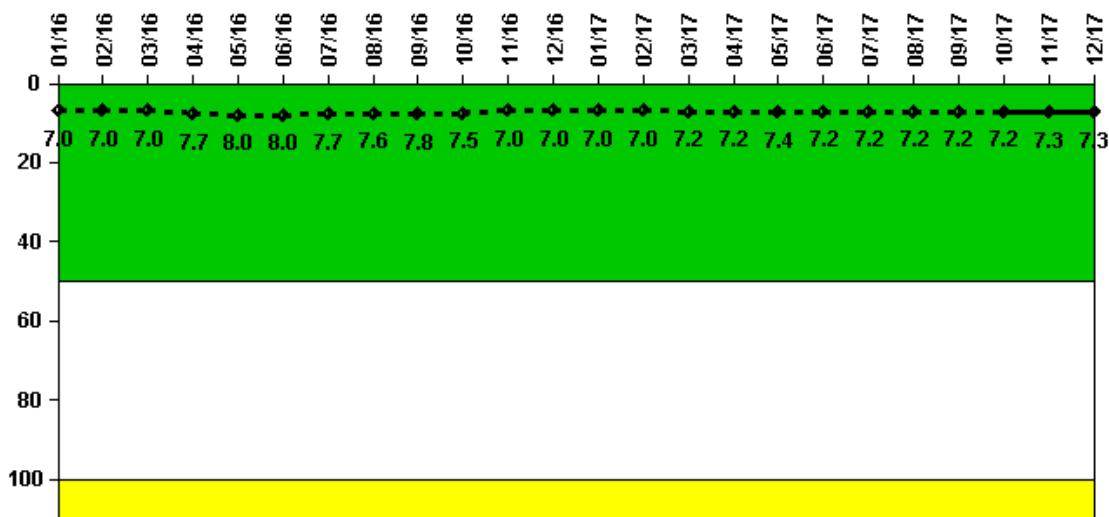
**Notes**

Reactor Coolant System Activity	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.000023	0.000025	0.000020	0.000021	0.000038	0.000026	0.000030	0.000026	0.000026	0.000023	0.000018	0.000020
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	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum activity	0.000020	0.000020	0.000020	0.000018	0.000021	0.000020	0.000020	0.000019	0.000020	0.000022	0.000053	0.000020
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

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Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	1.750	1.750	1.750	1.930	2.000	2.000	1.930	1.890	1.950	1.880	1.740	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

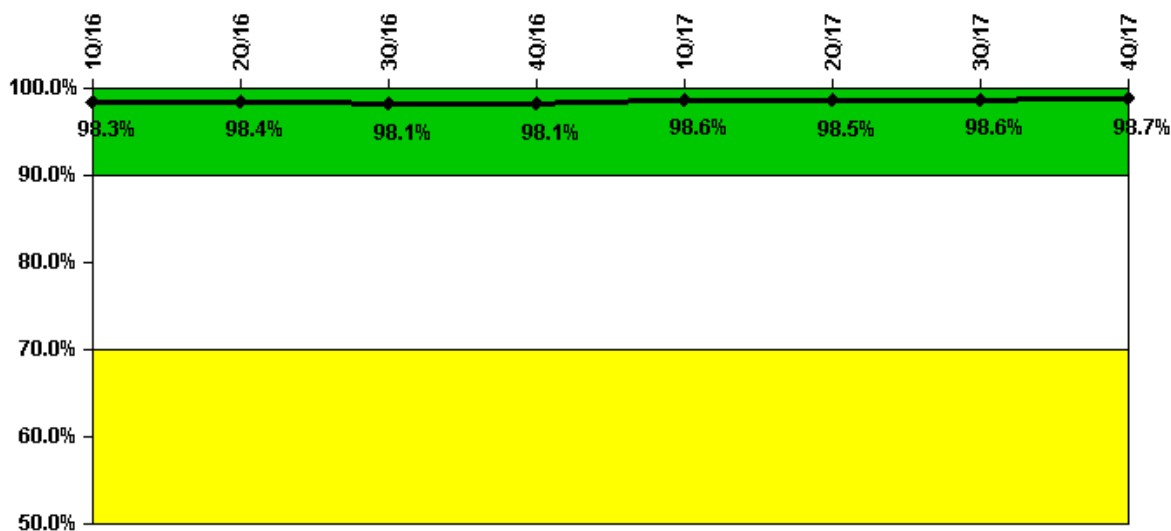
<b>Indicator value</b>	<b>7.0</b>	<b>7.0</b>	<b>7.0</b>	<b>7.7</b>	<b>8.0</b>	<b>8.0</b>	<b>7.7</b>	<b>7.6</b>	<b>7.8</b>	<b>7.5</b>	<b>7.0</b>	<b>7.0</b>
Reactor Coolant System Leakage	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum leakage	1.760	1.760	1.790	1.790	1.850	1.790	1.810	1.810	1.810	1.810	1.820	1.830
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>7.0</b>	<b>7.0</b>	<b>7.2</b>	<b>7.2</b>	<b>7.4</b>	<b>7.2</b>	<b>7.2</b>	<b>7.2</b>	<b>7.2</b>	<b>7.2</b>	<b>7.3</b>	<b>7.3</b>
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Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful opportunities	80.0	76.0	23.0	7.0	72.0	38.0	32.0	44.0
Total opportunities	81.0	77.0	24.0	7.0	73.0	39.0	32.0	44.0

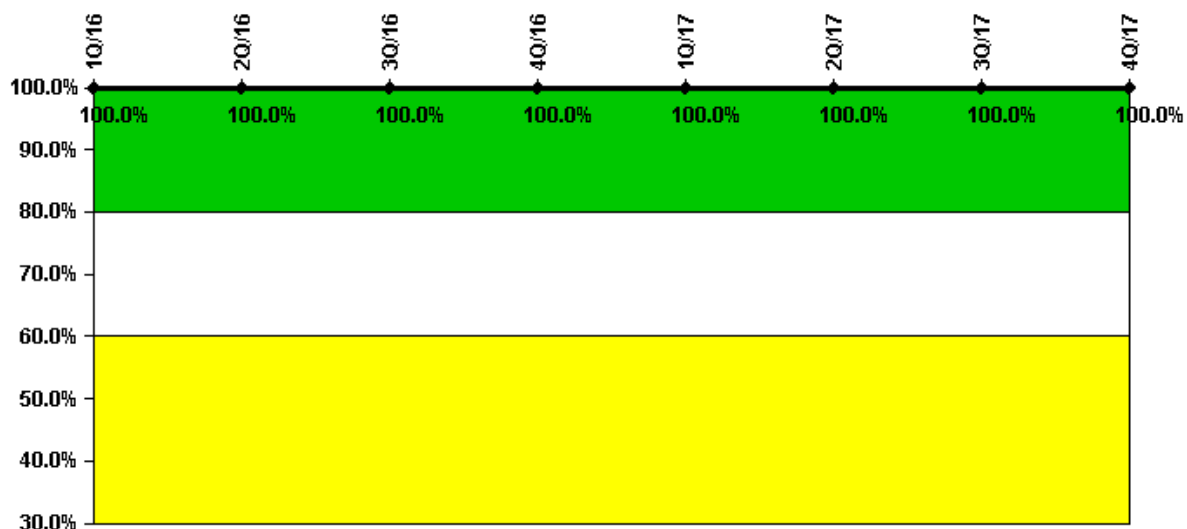
Indicator value                    98.3% 98.4% 98.1% 98.1% 98.6% 98.5% 98.6% 98.7%

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Licensee Comments:

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

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

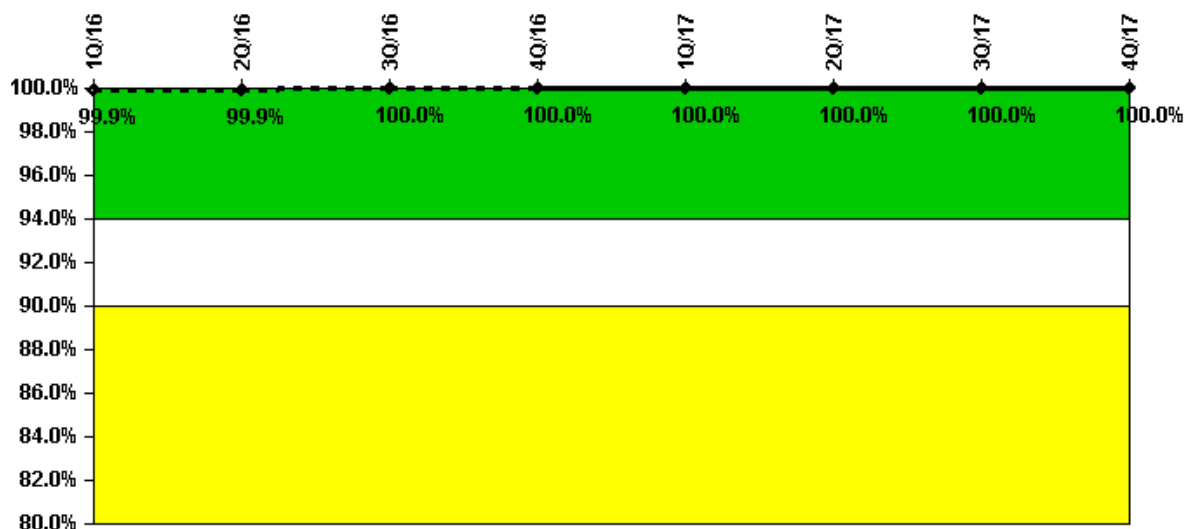
ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	72.0	74.0	75.0	72.0	74.0	71.0	72.0	77.0
Total Key personnel	72.0	74.0	75.0	72.0	74.0	71.0	72.0	77.0

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

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Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

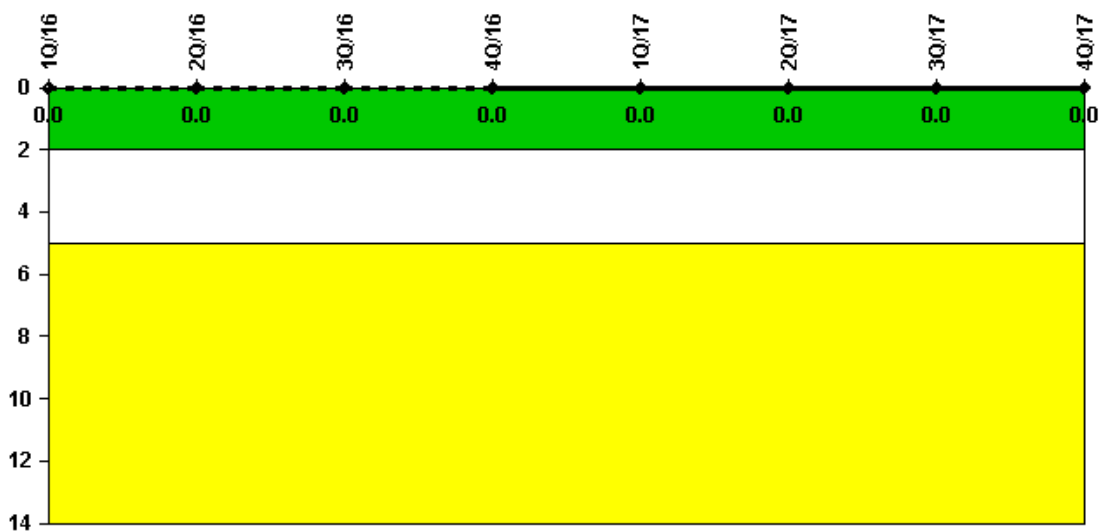
Alert & Notification System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful siren-tests	1261	1261	1261	1261	1260	1261	1261	1261
Total sirens-tests	1261	1261	1261	1261	1261	1261	1261	1261

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

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Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

**Notes**

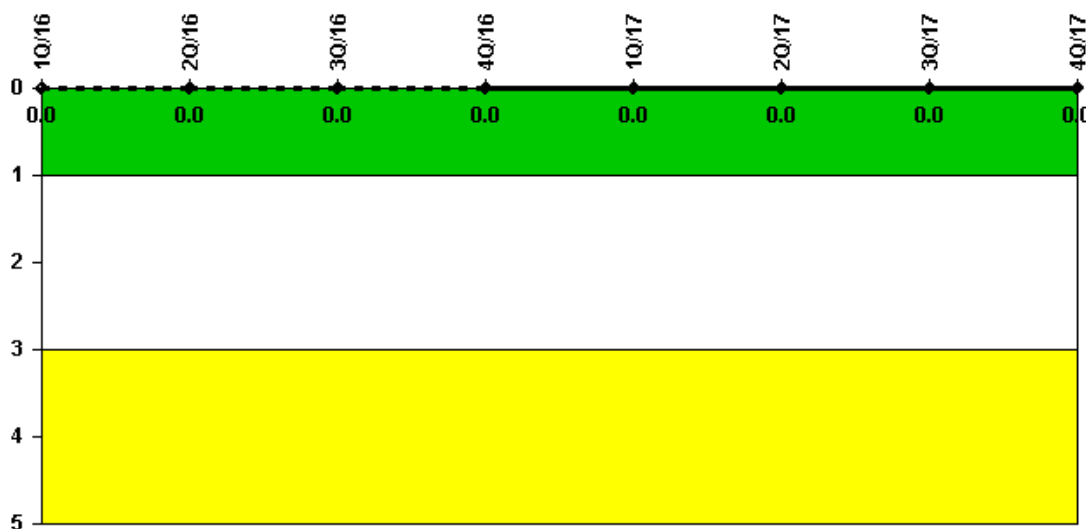
**Occupational Exposure Control Effectiveness** 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17

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>

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Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

**Notes**

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

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

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

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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: February 1, 2018*

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