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## **Hatch 2 – Quarterly Performance Indicators**

### **1Q/2017 Performance Indicators**

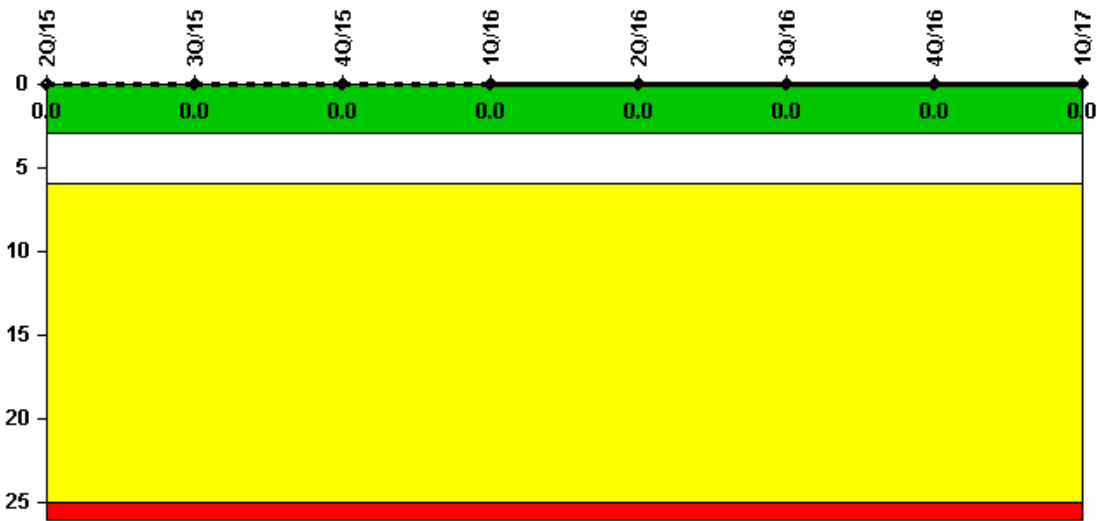
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
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- 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)
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- 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**

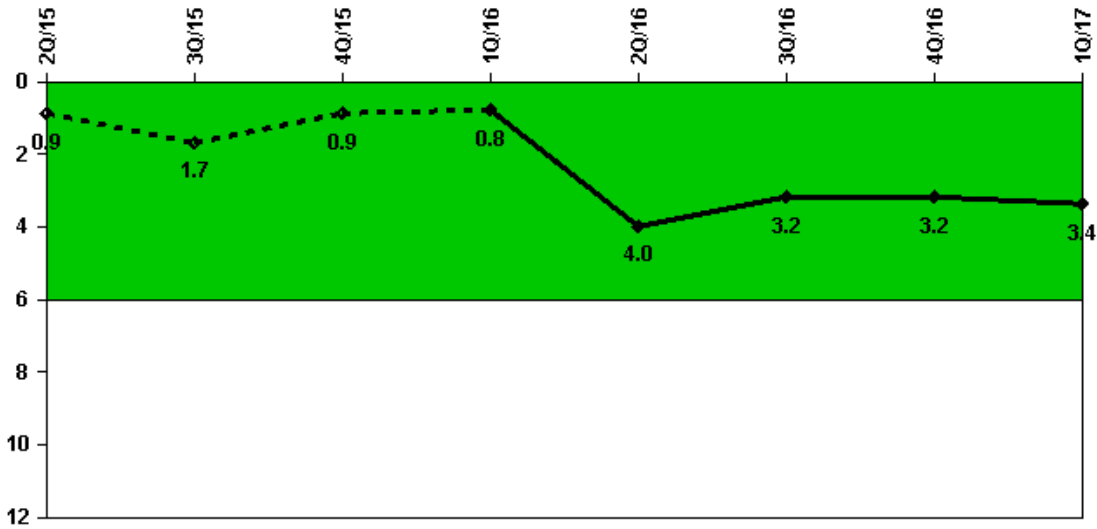
Unplanned Scrams per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2183.0	2079.9	2208.0	2209.0	1686.9

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

**NRC: Hatch 2 – Quarterly Quarterly Performance Indicators**

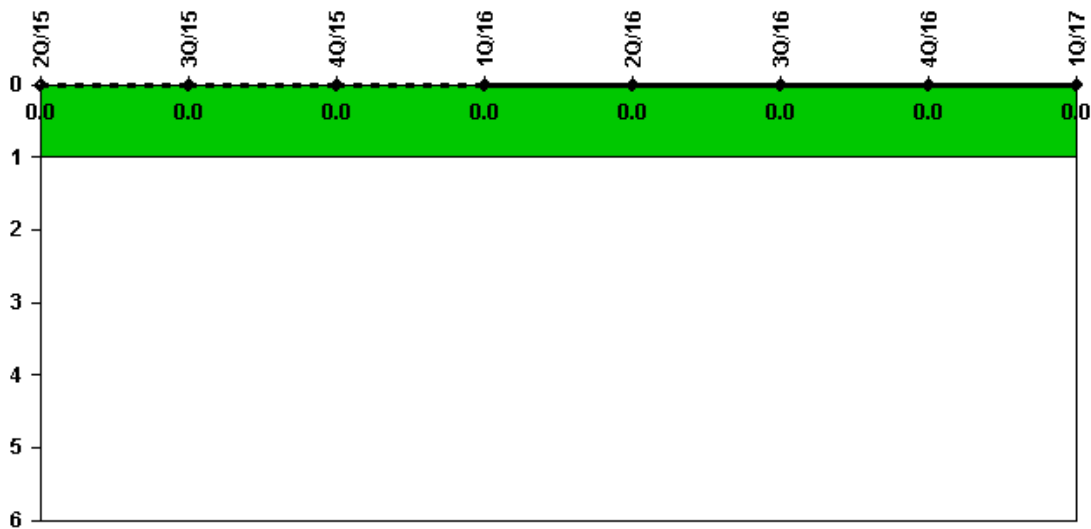
**Notes**

Unplanned Power Changes per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned power changes	0	1.0	0	0	4.0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2183.0	2079.9	2208.0	2209.0	1686.9
<b>Indicator value</b>	<b>0.9</b>	<b>1.7</b>	<b>0.9</b>	<b>0.8</b>	<b>4.0</b>	<b>3.2</b>	<b>3.2</b>	<b>3.4</b>

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Licensee Comments: none

**Unplanned Scrams with Complications**



Thresholds: White > 1.0

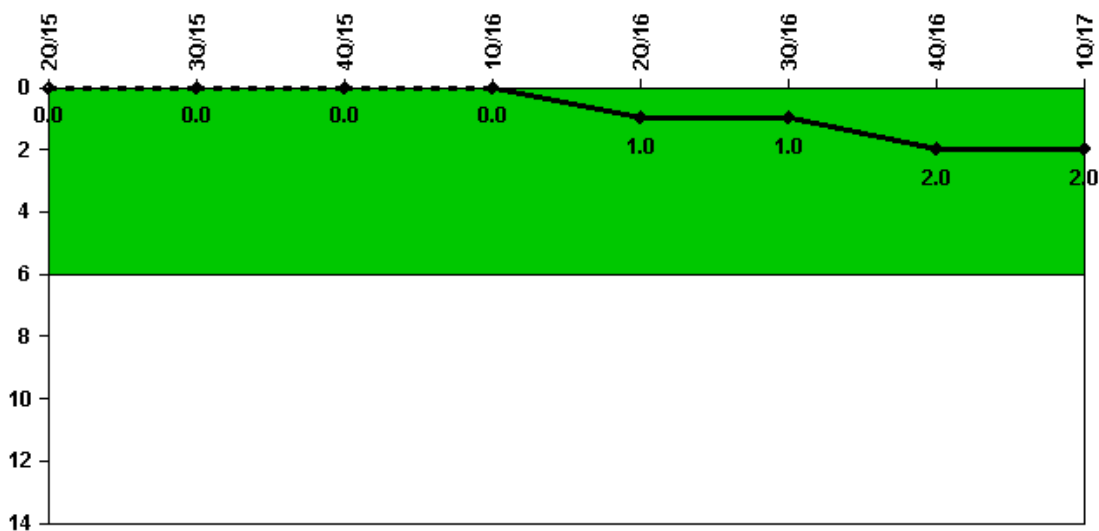
**Notes**

Unplanned Scrams with Complications	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/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) 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17

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

Indicator value    0   0   0   0   1   1   2   2

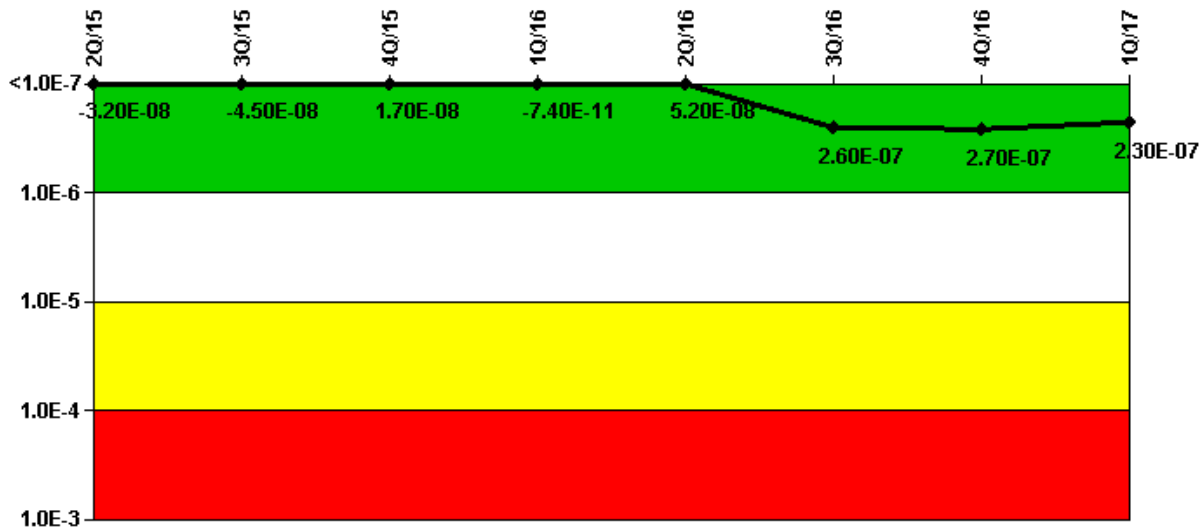
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Licensee Comments:

4Q/16: LER 2-2016-003 "2C Emergency Diesel Generator Inoperable Due to Low Lube Oil Pressure"

2Q/16: 2016-06 - LER 2-2016-001, "2C EDG Fuel Oil Relief Valve Leakage Caused Train Inoperability"

### 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/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	2.22E-08	5.53E-09	6.75E-08	5.92E-08	9.77E-08	1.25E-07	1.31E-07	1.16E-07
URI (ΔCDF)	-5.38E-08	-5.05E-08	-5.05E-08	-5.92E-08	-4.61E-08	1.38E-07	1.43E-07	1.13E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-3.20E-08</b>	<b>-4.50E-08</b>	<b>1.70E-08</b>	<b>-7.40E-11</b>	<b>5.20E-08</b>	<b>2.60E-07</b>	<b>2.70E-07</b>	<b>2.30E-07</b>

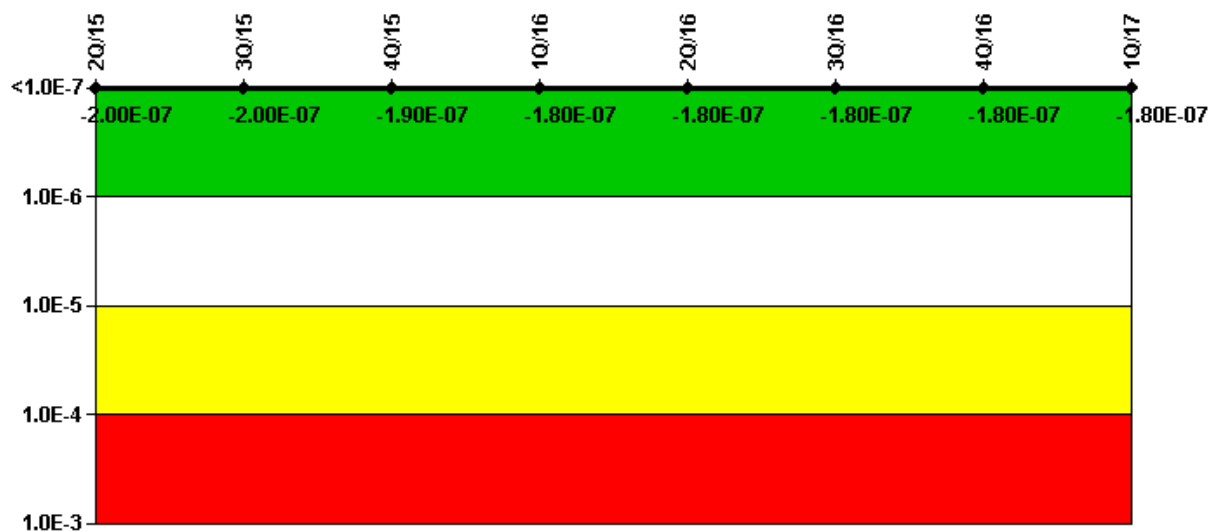
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Licensee Comments:

1Q/16: One fuel leak condition affecting the 2C diesel is under evaluation. Evaluation determined this was not an MSPI failure based on MSPI dictated main system function not affected by event.

1Q/16: One fuel leak condition affecting the 2C diesel is under evaluation.

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



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

**Notes**

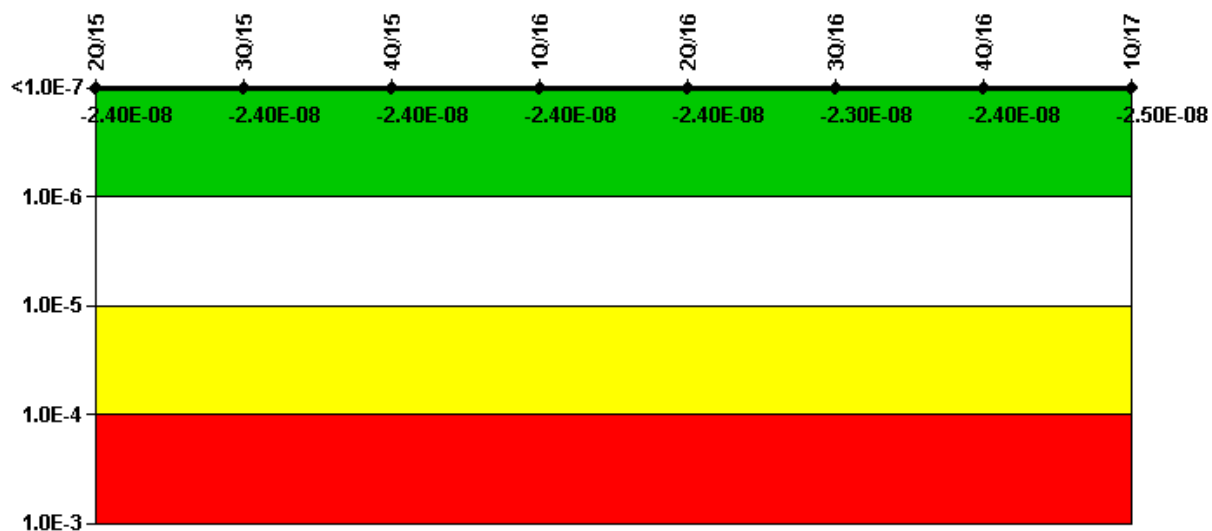
**Mitigating Systems Performance Index, High Pressure Injection System**

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI ( $\Delta$ CDF)	-7.82E-08	-7.82E-08	-7.82E-08	-7.82E-08	-7.82E-08	-7.82E-08	-7.82E-08	-7.82E-08
URI ( $\Delta$ CDF)	-1.26E-07	-1.26E-07	-1.12E-07	-1.01E-07	-1.01E-07	-1.01E-07	-1.01E-07	-1.02E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-2.00E-07</b>	<b>-2.00E-07</b>	<b>-1.90E-07</b>	<b>-1.80E-07</b>	<b>-1.80E-07</b>	<b>-1.80E-07</b>	<b>-1.80E-07</b>	<b>-1.80E-07</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**

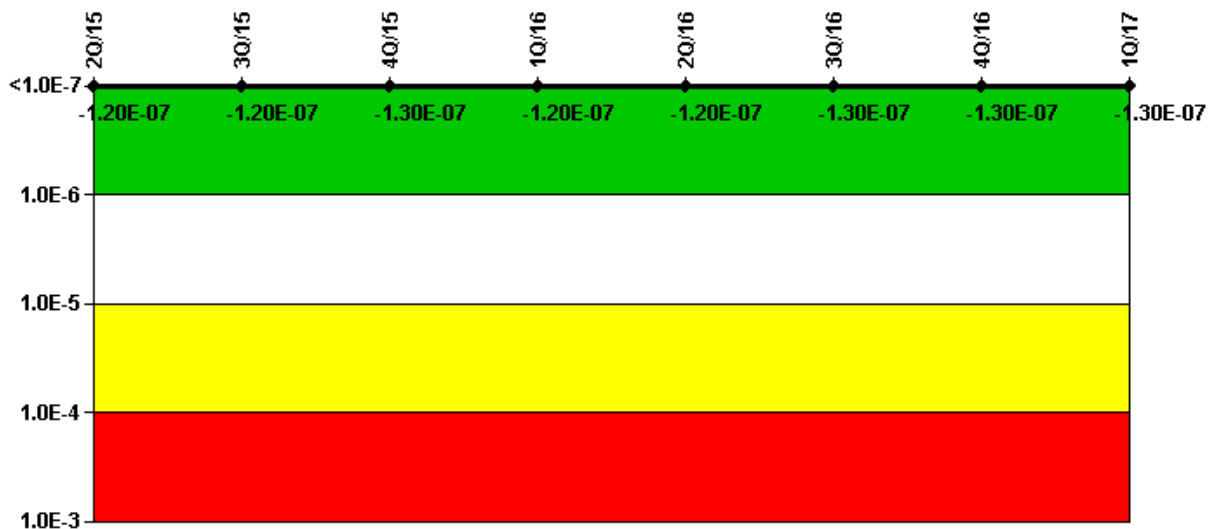
**Mitigating Systems Performance Index, Heat Removal System**

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI ( $\Delta$ CDF)	-6.19E-09	-6.69E-09	-6.69E-09	-6.69E-09	-6.69E-09	-6.69E-09	-6.69E-09	-6.69E-09
URI ( $\Delta$ CDF)	-1.77E-08	-1.76E-08	-1.76E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.84E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-2.40E-08</b>	<b>-2.40E-08</b>	<b>-2.40E-08</b>	<b>-2.40E-08</b>	<b>-2.40E-08</b>	<b>-2.30E-08</b>	<b>-2.40E-08</b>	<b>-2.50E-08</b>

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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**

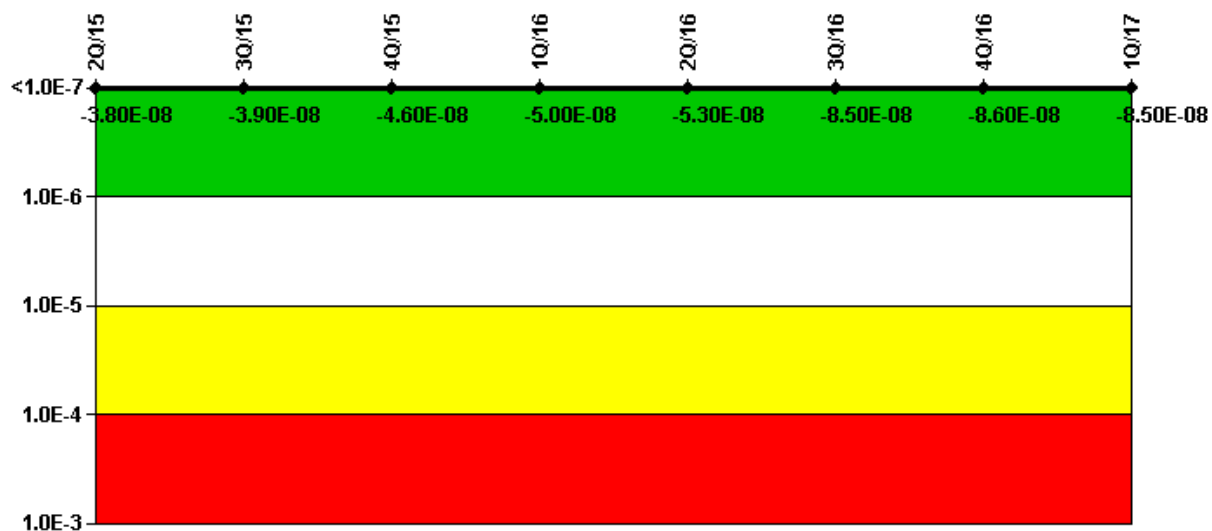
	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI ( $\Delta$ CDF)	-2.28E-09	-6.82E-09	-1.18E-08	-1.18E-08	-1.18E-08	-1.18E-08	-9.71E-09	-8.23E-09
URI ( $\Delta$ CDF)	-1.15E-07	-1.14E-07	-1.14E-07	-1.11E-07	-1.13E-07	-1.14E-07	-1.15E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-1.20E-07</b>	<b>-1.20E-07</b>	<b>-1.30E-07</b>	<b>-1.20E-07</b>	<b>-1.20E-07</b>	<b>-1.30E-07</b>	<b>-1.30E-07</b>	<b>-1.30E-07</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**

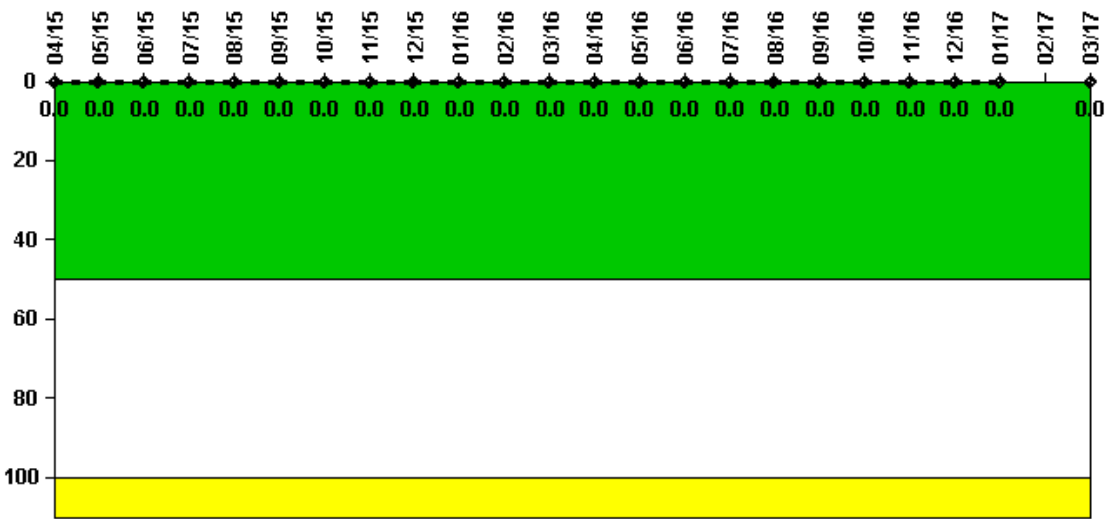
**Mitigating Systems Performance Index, Cooling Water Systems**

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	4.96E-08	4.96E-08	4.48E-08	3.91E-08	3.79E-08	3.68E-09	3.64E-09	3.81E-09
URI (ΔCDF)	-8.72E-08	-8.90E-08	-9.07E-08	-8.93E-08	-9.11E-08	-8.85E-08	-8.94E-08	-8.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-3.80E-08</b>	<b>-3.90E-08</b>	<b>-4.60E-08</b>	<b>-5.00E-08</b>	<b>-5.30E-08</b>	<b>-8.50E-08</b>	<b>-8.60E-08</b>	<b>-8.50E-08</b>

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Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

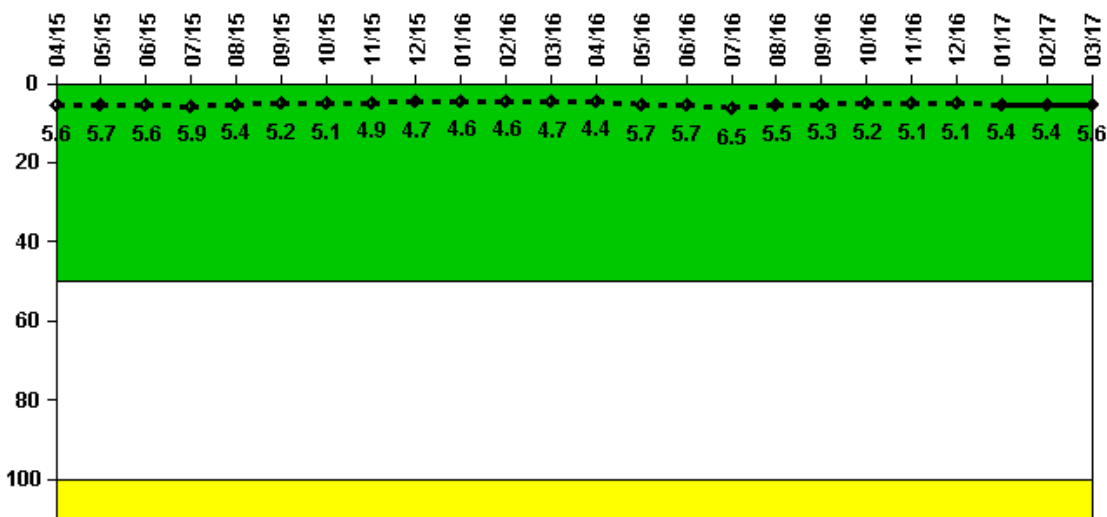
**Notes**

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	0.000012	0.000013	0.000016	0.000016	0.000016	0.000013	0.000013	0.000010	0.000005	0.000010	0.000008	0.000007
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	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum activity	0.000012	0.000030	0.000017	0.000017	0.000013	0.000017	0.000018	0.000021	0.000018	0.000014	N/A	0.000005
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	N/A	0

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Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

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	1.690	1.710	1.670	1.760	1.630	1.560	1.540	1.470	1.420	1.380	1.370	1.400
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

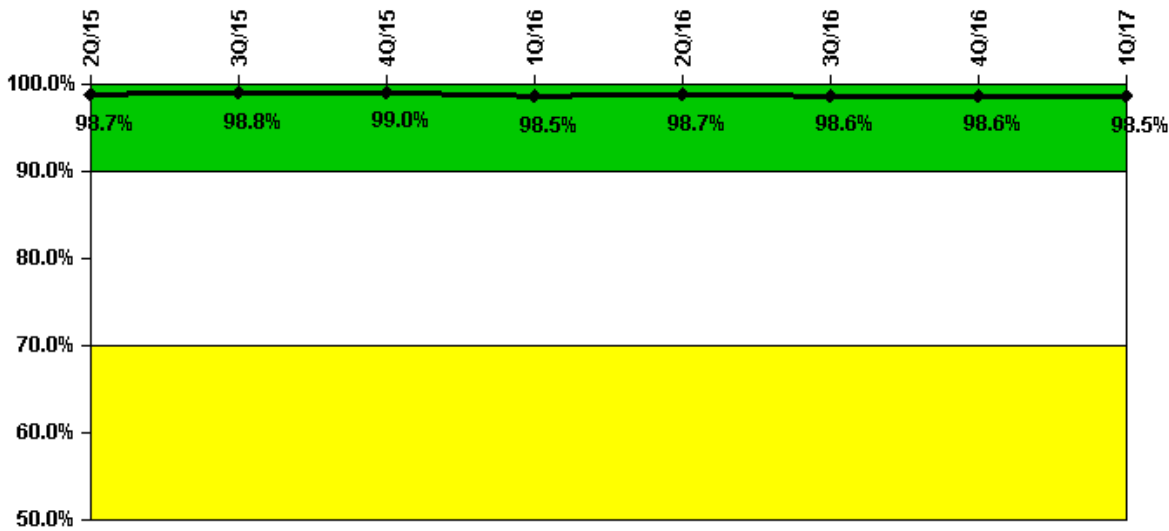
<b>Indicator value</b>	<b>5.6</b>	<b>5.7</b>	<b>5.6</b>	<b>5.9</b>	<b>5.4</b>	<b>5.2</b>	<b>5.1</b>	<b>4.9</b>	<b>4.7</b>	<b>4.6</b>	<b>4.6</b>	<b>4.7</b>
Reactor Coolant System Leakage	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum leakage	1.330	1.720	1.700	1.950	1.640	1.600	1.570	1.540	1.520	1.610	1.620	1.690
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

<b>Indicator value</b>	<b>4.4</b>	<b>5.7</b>	<b>5.7</b>	<b>6.5</b>	<b>5.5</b>	<b>5.3</b>	<b>5.2</b>	<b>5.1</b>	<b>5.1</b>	<b>5.4</b>	<b>5.4</b>	<b>5.6</b>
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Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

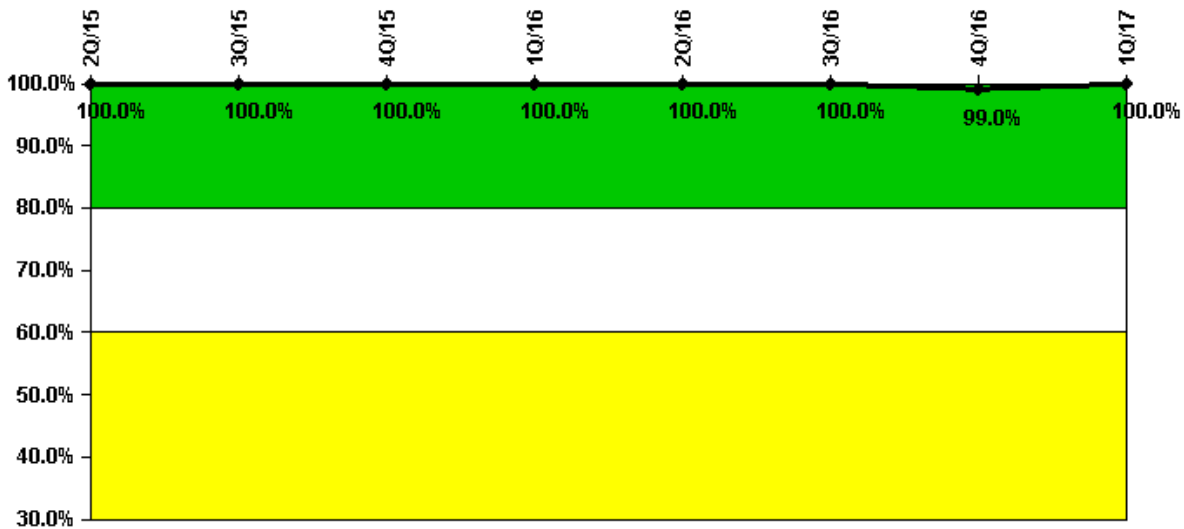
Drill/Exercise Performance	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful opportunities	53.0	58.0	41.0	22.0	55.0	53.0	36.0	14.0
Total opportunities	55.0	58.0	42.0	24.0	55.0	53.0	36.0	14.0

Indicator value            98.7% 98.8% 99.0% 98.5% 98.7% 98.6% 98.6% 98.5%

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Licensee Comments: none

**ERO Drill Participation**



Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

ERO Drill Participation	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Participating Key personnel	107.0	101.0	105.0	99.0	85.0	85.0	95.0	97.0
Total Key personnel	107.0	101.0	105.0	99.0	85.0	85.0	96.0	97.0

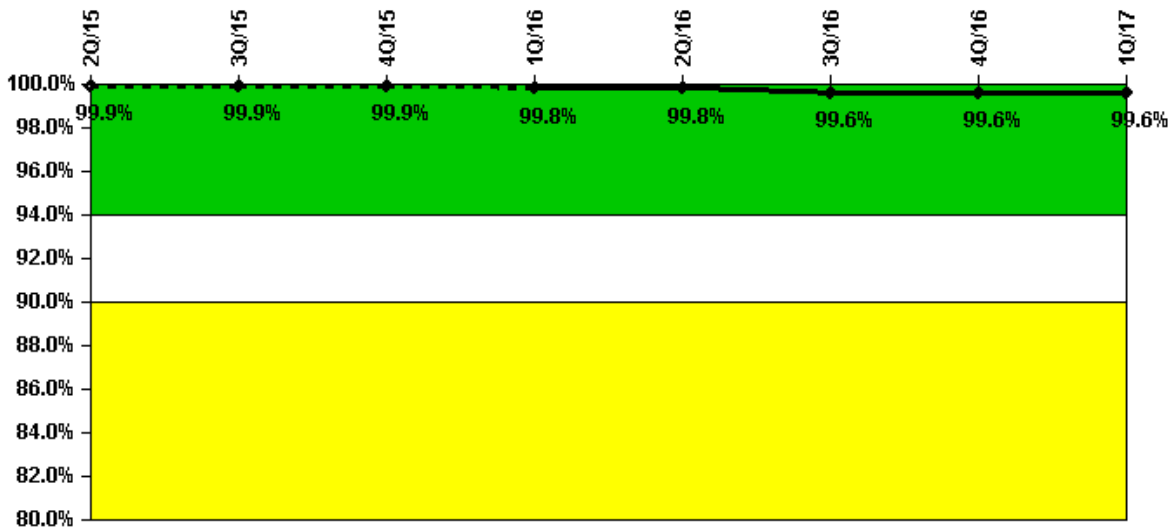
**Indicator value**                    **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 99.0% 100.0%**

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Licensee Comments:

4Q/15: November and December values revised due to a failure to remove an individual that no longer required to be tracked in the Control Room ENN Communicator position

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

**Notes**

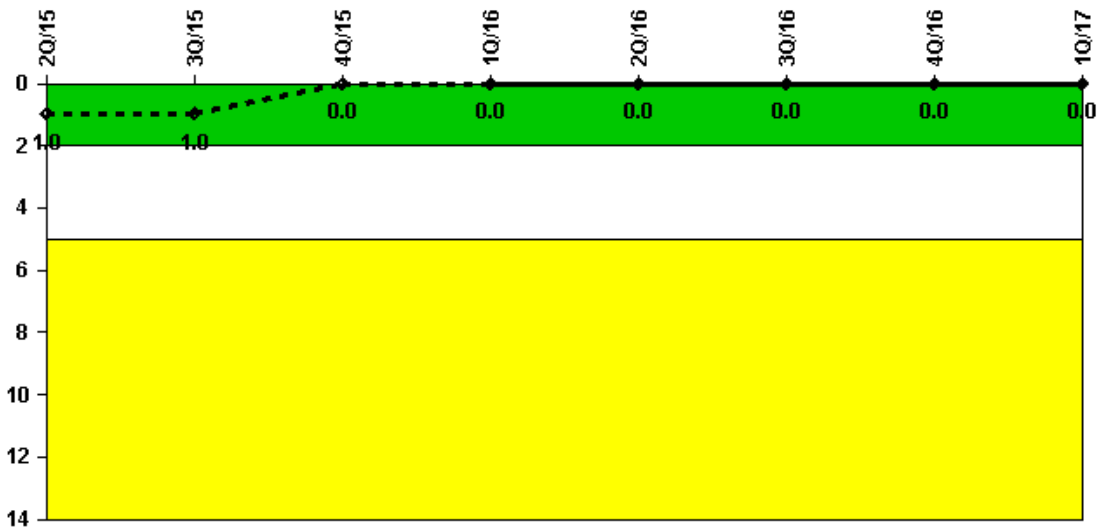
Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	1039	1117	1039	1038	1036	1032	1117	1039
Total sirens-tests	1040	1120	1040	1040	1040	1040	1120	1040

**Indicator value**                    99.9% 99.9% 99.9% 99.8% 99.8% 99.6% 99.6% 99.6%

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Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

**Notes**

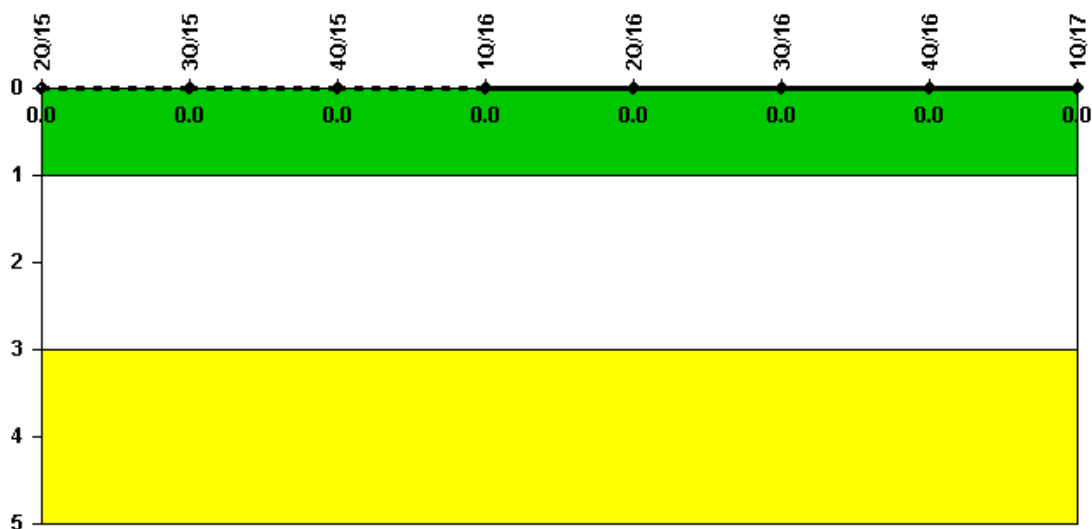
**Occupational Exposure Control Effectiveness** 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17

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>1</b>	<b>1</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 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/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: May 5, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017