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## Vogtle 2 – Quarterly Performance Indicators

### 3Q/2017 Performance Indicators

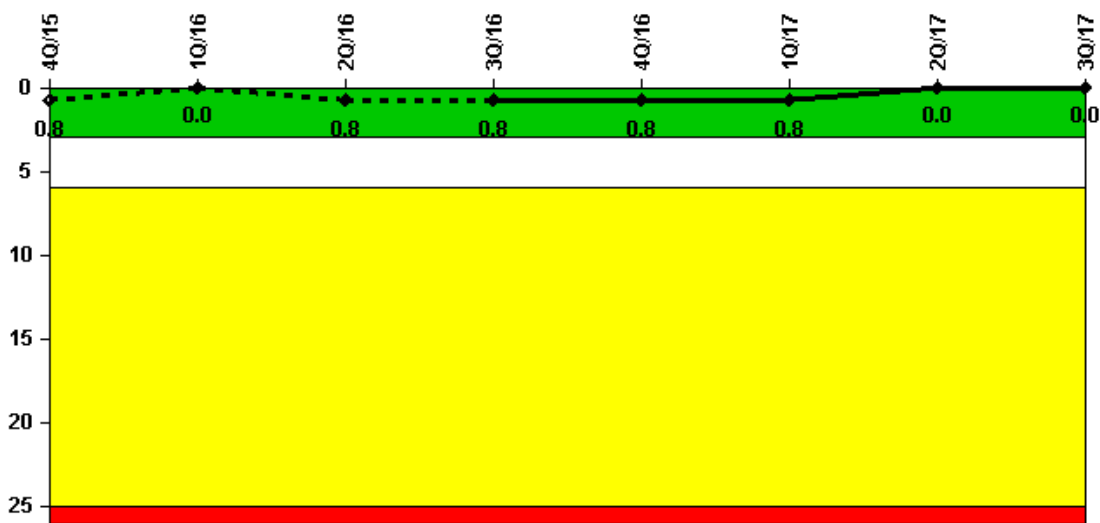
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

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- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
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### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

**Notes**

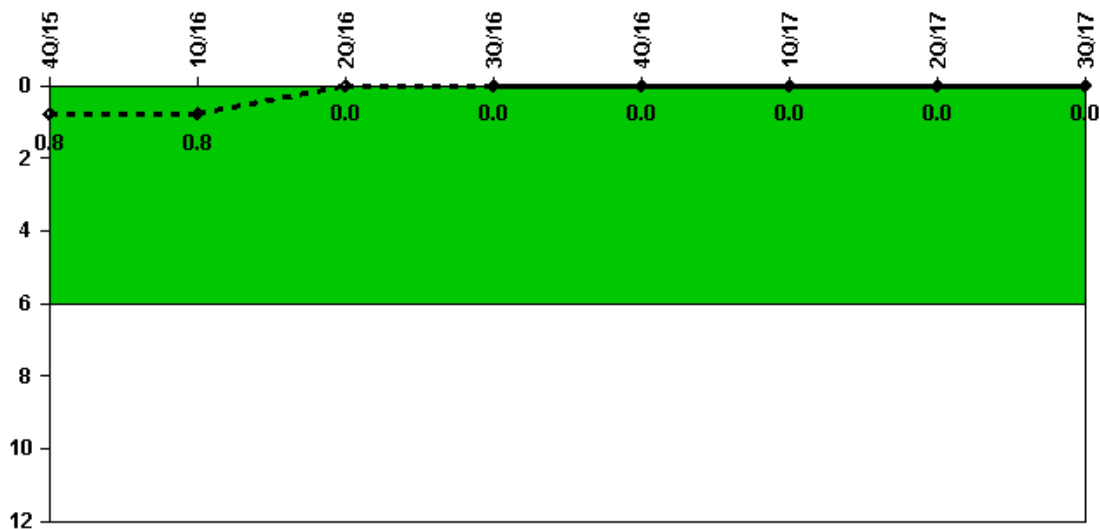
Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2209.0	1672.2	2160.7	2208.0	2209.0	2159.0	2184.0	1877.0

Indicator value	0.8	0	0.8	0.8	0.8	0.8	0	0
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Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

**Notes**

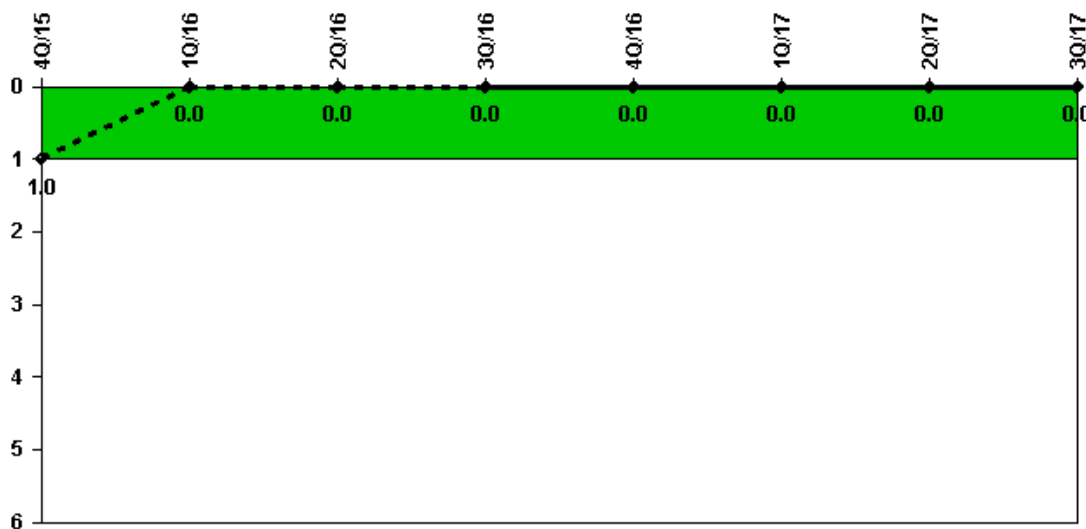
Unplanned Power Changes per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	1672.2	2160.7	2208.0	2209.0	2159.0	2184.0	1877.0

<b>Indicator value</b>	<b>0.8</b>	<b>0.8</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

**Unplanned Scrams with Complications**



Thresholds: White > 1.0

**Notes**

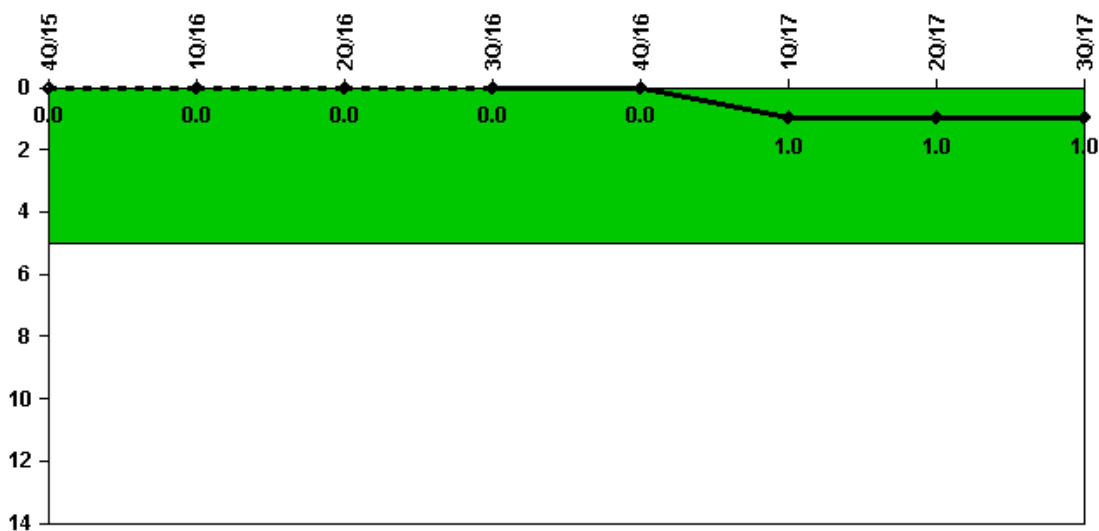
Unplanned Scrams with Complications	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Scrams with complications	0	0	0	0	0	0	0	0

<b>Indicator value</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>	<b>0.0</b>	<b>0.0</b>
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Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

**Notes**

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

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

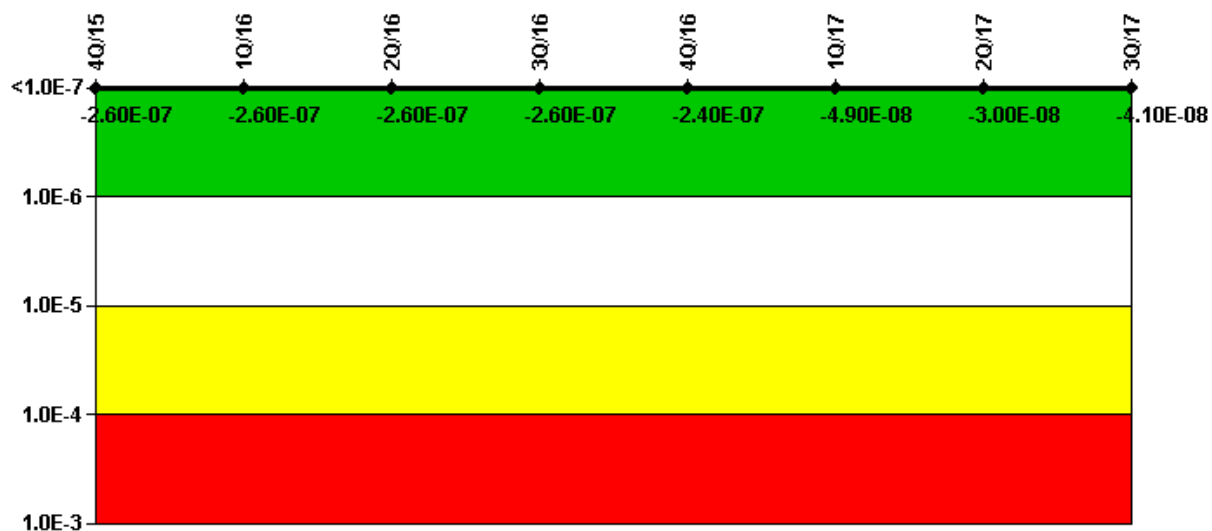
**Indicator value**    0   0   0   0   0   1   1   1

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Licensee Comments:

1Q/17: LER 2-2017-001-00

### 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**

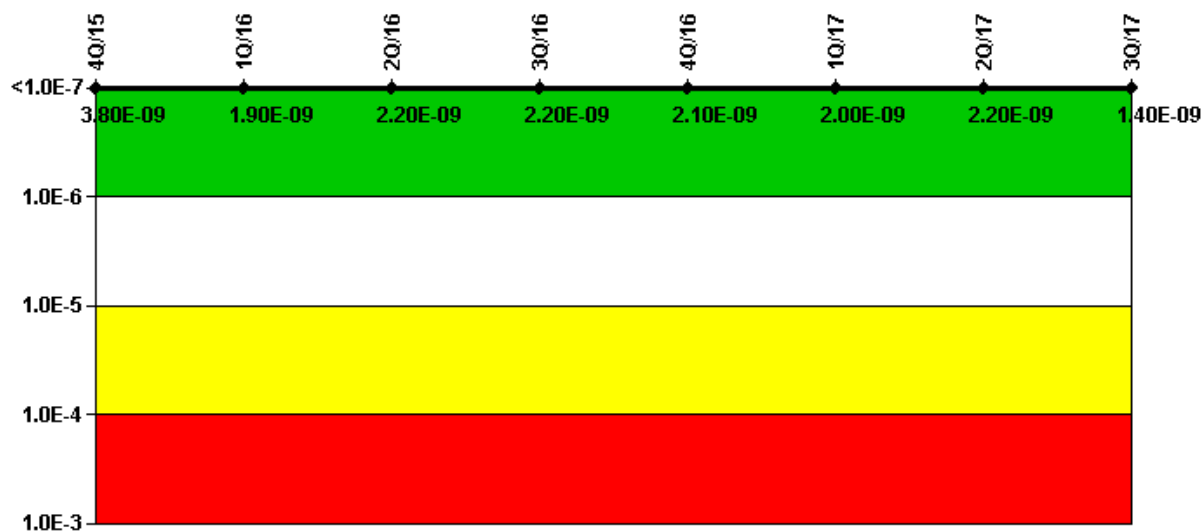
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-2.07E-08	-2.07E-08	-2.72E-08	-2.72E-08	-3.58E-09	3.85E-09	3.79E-09	3.68E-09
URI (ΔCDF)	-2.35E-07	-2.35E-07	-2.33E-07	-2.34E-07	-2.35E-07	-5.30E-08	-3.36E-08	-4.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-2.60E-07</b>	<b>-2.60E-07</b>	<b>-2.60E-07</b>	<b>-2.60E-07</b>	<b>-2.40E-07</b>	<b>-4.90E-08</b>	<b>-3.00E-08</b>	<b>-4.10E-08</b>

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Licensee Comments:

4Q/15: Changed PRA Parameter(s).

### 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**

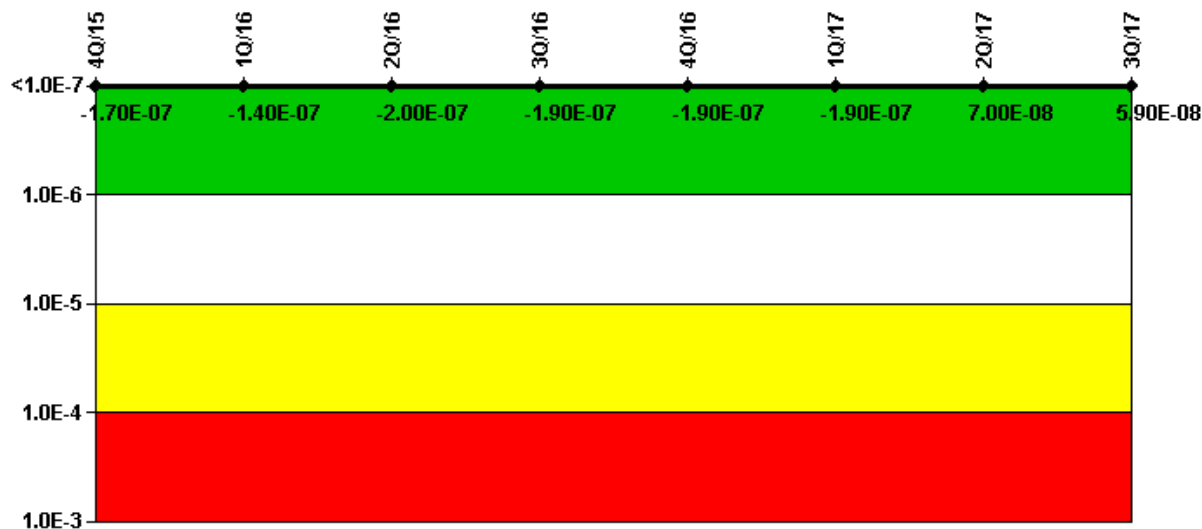
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI ( $\Delta$ CDF)	-2.94E-09	-2.91E-09	-2.91E-09	-2.91E-09	-2.91E-09	-2.91E-09	-2.91E-09	-2.85E-09
URI ( $\Delta$ CDF)	6.77E-09	4.80E-09	5.07E-09	5.09E-09	5.04E-09	4.87E-09	5.10E-09	4.25E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>3.80E-09</b>	<b>1.90E-09</b>	<b>2.20E-09</b>	<b>2.20E-09</b>	<b>2.10E-09</b>	<b>2.00E-09</b>	<b>2.20E-09</b>	<b>1.40E-09</b>

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Licensee Comments:

4Q/15: Changed PRA Parameter(s).

### 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 (ΔCDF)	4.94E-08	8.55E-08	2.60E-08	2.66E-08	2.67E-08	2.29E-08	3.39E-08	2.28E-08
URI (ΔCDF)	-2.24E-07	-2.23E-07	-2.21E-07	-2.21E-07	-2.12E-07	-2.12E-07	3.59E-08	3.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-1.70E-07</b>	<b>-1.40E-07</b>	<b>-2.00E-07</b>	<b>-1.90E-07</b>	<b>-1.90E-07</b>	<b>-1.90E-07</b>	<b>7.00E-08</b>	<b>5.90E-08</b>

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Licensee Comments:

2Q/17: Change file created due to revision of ICES Report#417612. Unit 2 TDAFW Functional Failure Ref CR#10384381  
 4Q/15: Changed PRA Parameter(s).

### 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 (ΔCDF)	1.74E-09	-1.81E-09	-1.11E-09	-1.12E-09	-1.16E-09	-1.35E-09	-1.53E-09	7.85E-09
URI (ΔCDF)	-2.37E-08	-2.35E-08	-2.26E-08	-2.26E-08	-2.26E-08	-2.26E-08	-2.26E-08	-2.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-2.20E-08</b>	<b>-2.50E-08</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>-1.60E-08</b>

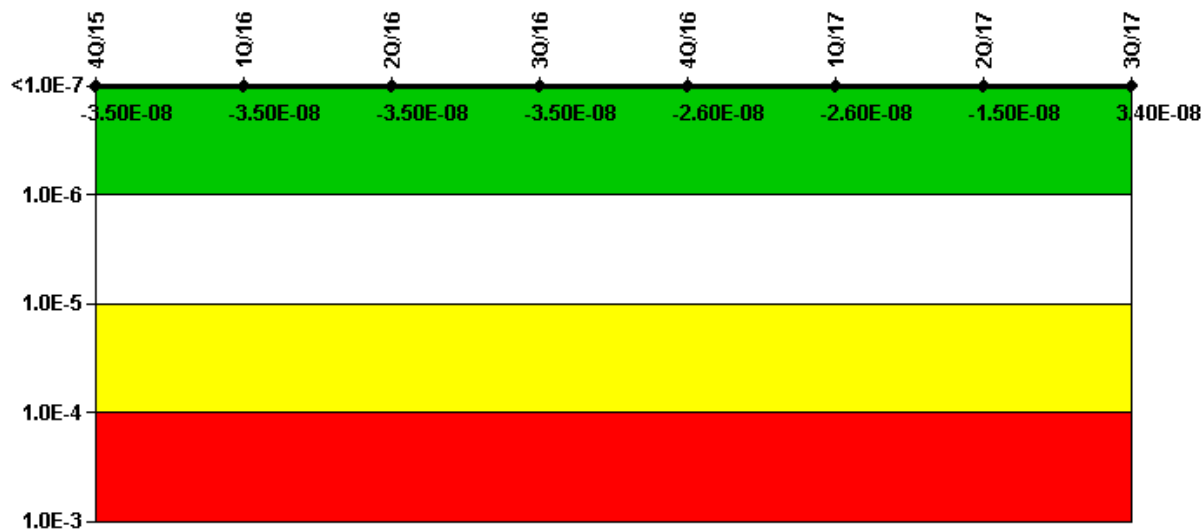
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Licensee Comments:

4Q/15: 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**

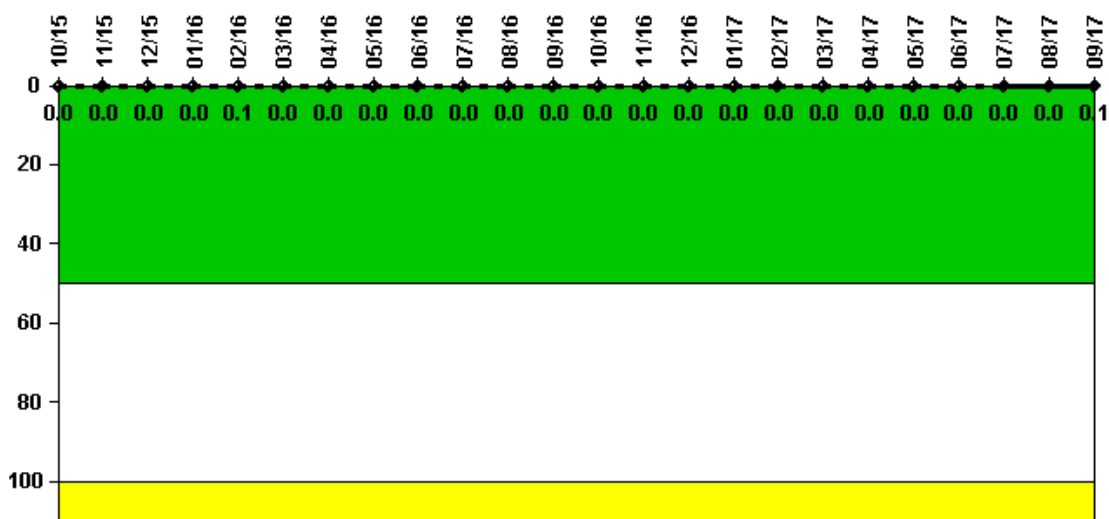
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-1.81E-08	-1.82E-08	-1.83E-08	-1.83E-08	-1.83E-08	-1.83E-08	-7.51E-09	4.22E-08
URI (ΔCDF)	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-7.92E-09	-7.75E-09	-7.70E-09	-8.00E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-3.50E-08</b>	<b>-3.50E-08</b>	<b>-3.50E-08</b>	<b>-3.50E-08</b>	<b>-2.60E-08</b>	<b>-2.60E-08</b>	<b>-1.50E-08</b>	<b>3.40E-08</b>

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Licensee Comments:

4Q/16: Pump Demands for NSCW Pump#5 were entered incorrectly. This Data error did not impact the KPI report. Ref CR#10331455  
 4Q/15: Changed PRA Parameter(s).

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

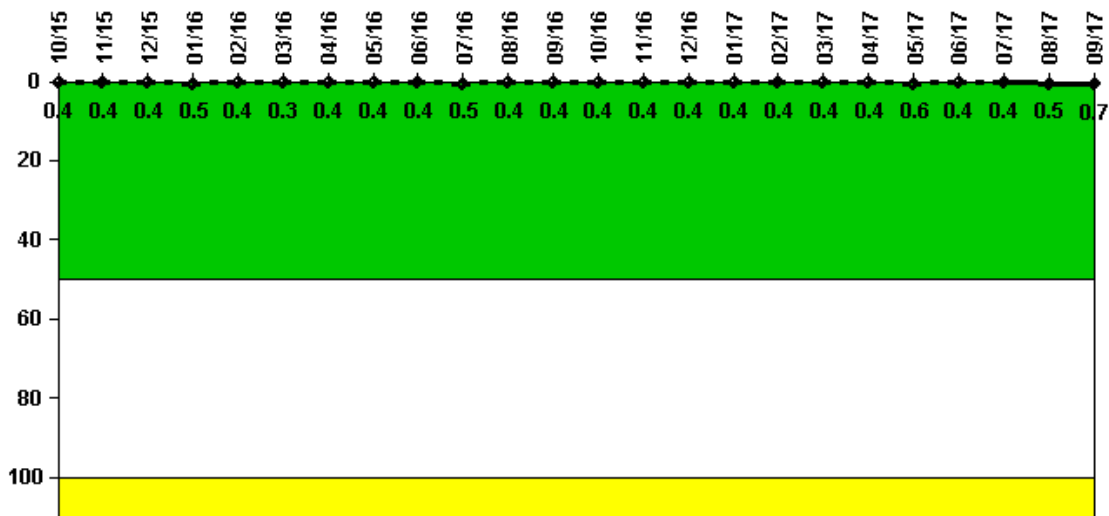
Reactor Coolant System Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	0.000336	0.000357	0.000381	0.000434	0.000509	0.000205	0.000143	0.000140	0.000161	0.000173	0.000174	0.000179
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0.1	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	0.000187	0.000205	0.000219	0.000224	0.000245	0.000236	0.000274	0.000262	0.000272	0.000284	0.000399	0.000981
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0.1

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#### Licensee Comments:

9/16: Department review of CDE for Maximum I-131 Activity (uCi/gm for 2016 identified three entries (U-1 Aug 2016, Sept 2016 and U-2 Sept 2016) with the incorrect number. These numbers have been revised. Incorrect data entry was a result of human error. Ref CR#10373664

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

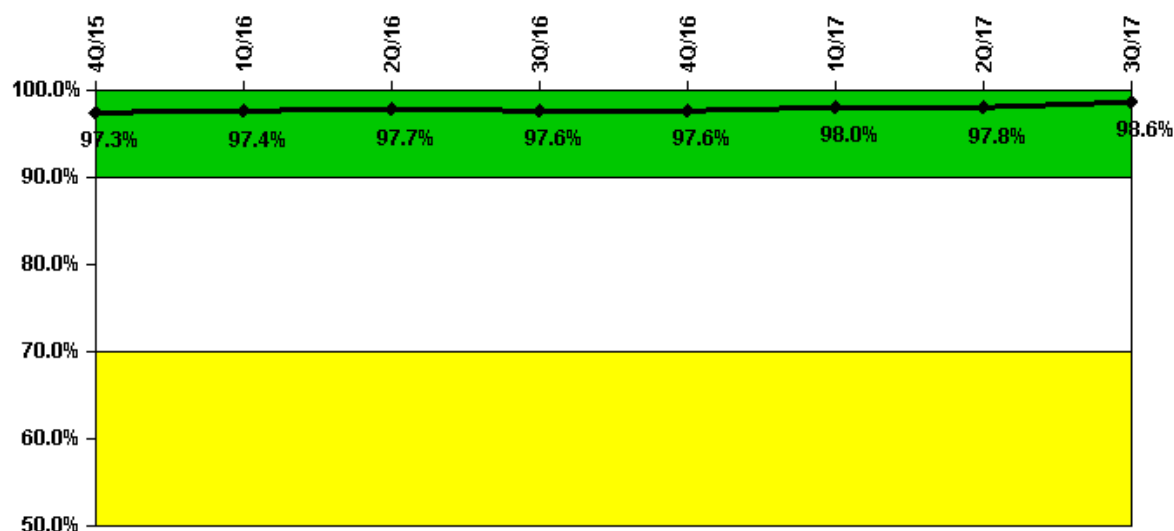
**Notes**

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	0.036	0.037	0.037	0.045	0.035	0.031	0.039	0.041	0.038	0.045	0.035	0.036
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
<b>Indicator value</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.5</b>	<b>0.4</b>	<b>0.3</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.5</b>	<b>0.4</b>	<b>0.4</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	0.042	0.039	0.040	0.041	0.043	0.039	0.039	0.055	0.036	0.036	0.049	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
<b>Indicator value</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.6</b>	<b>0.4</b>	<b>0.4</b>	<b>0.5</b>	<b>0.7</b>

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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	20.0	46.0	93.0	57.0	27.0	24.0	51.0	47.0
Total opportunities	20.0	46.0	94.0	58.0	28.0	24.0	52.0	48.0

**Indicator value**                    **97.3% 97.4% 97.7% 97.6% 97.6% 98.0% 97.8% 98.6%**

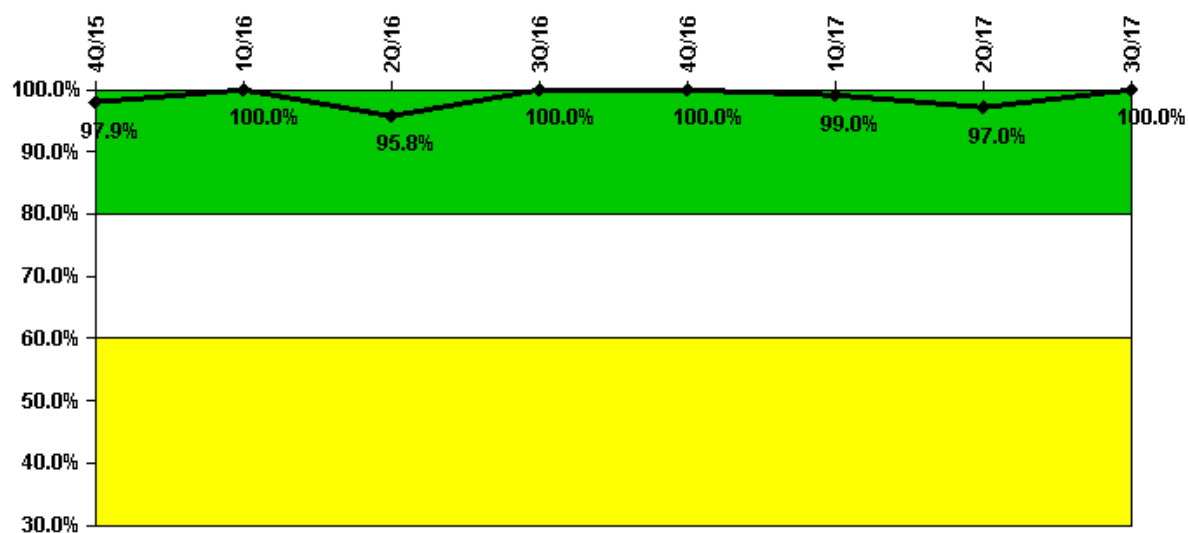
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#### Licensee Comments:

2Q/17: KPI records for June 2017 Drill Exercise Participation (DEP) have been changed from 0 of 0 to 18 of 18 to add opportunities from Operations Annual Exams. Ref CR#10421233

4Q/15: Two siren-tests determined to be unsuccessful upon review by Emergency Planning. This does not affect the indicator color.

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

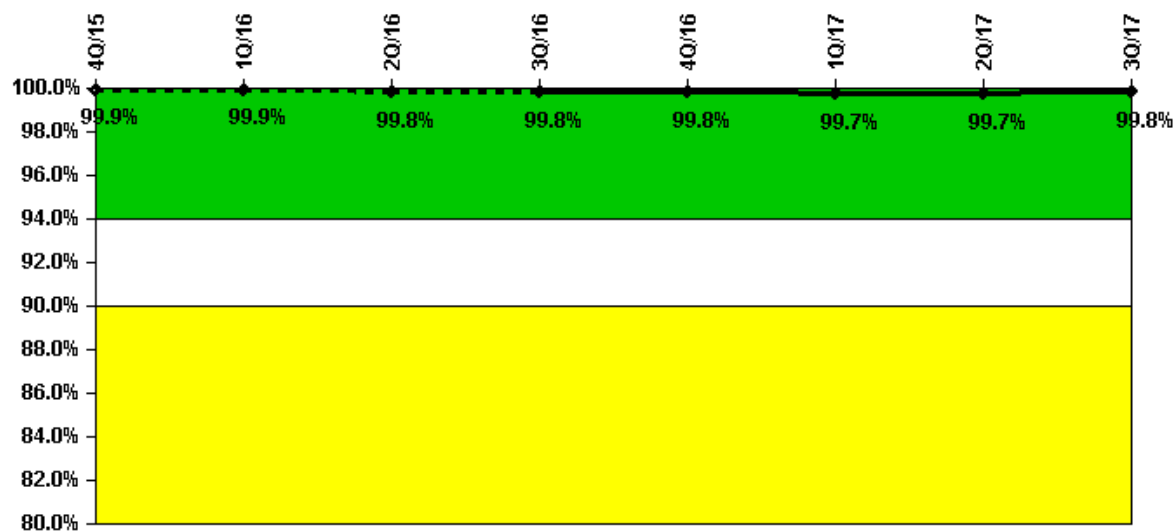
ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	93.0	89.0	92.0	96.0	105.0	103.0	97.0	87.0
Total Key personnel	95.0	89.0	96.0	96.0	105.0	104.0	100.0	87.0

Indicator value            97.9% 100.0% 95.8% 100.0% 100.0% 99.0% 97.0% 100.0%

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Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

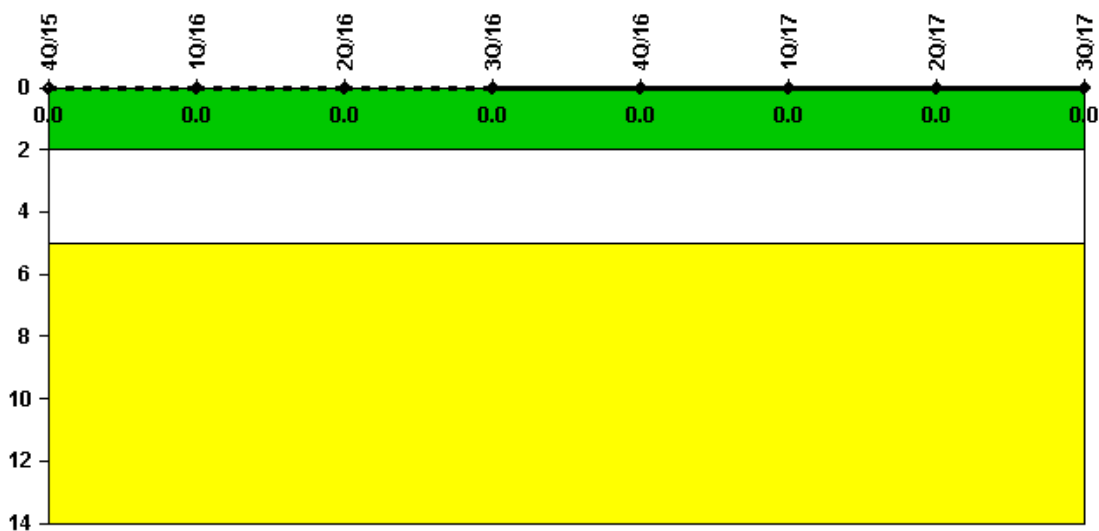
Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	609	611	608	610	609	610	608	611
Total sirens-tests	611	611	611	611	611	611	611	611

Indicator value                    99.9% 99.9% 99.8% 99.8% 99.8% 99.7% 99.7% 99.8%

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Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

**Notes**

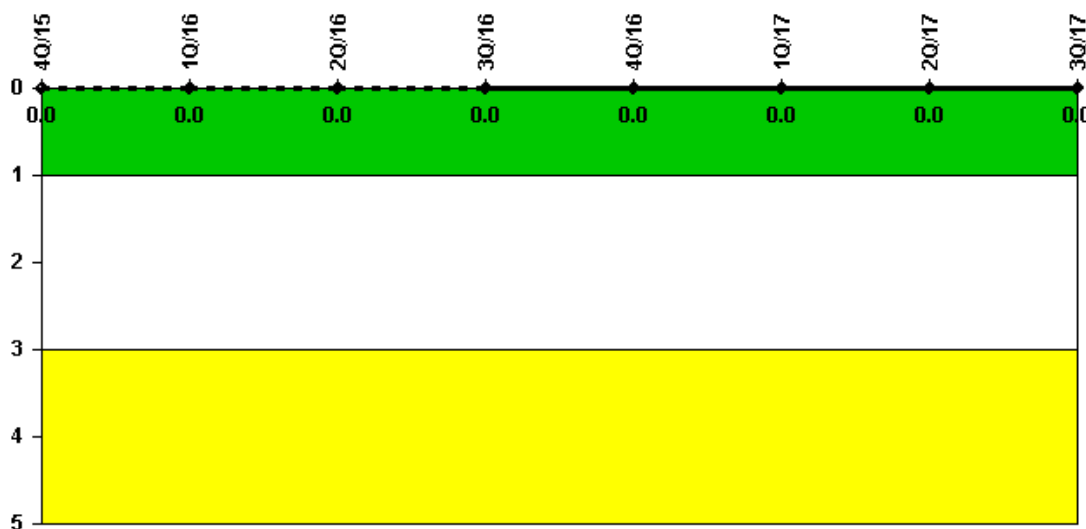
**Occupational Exposure Control Effectiveness** 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

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>

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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

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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: October 31, 2017*

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