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## **Ginna – Quarterly Performance Indicators**

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

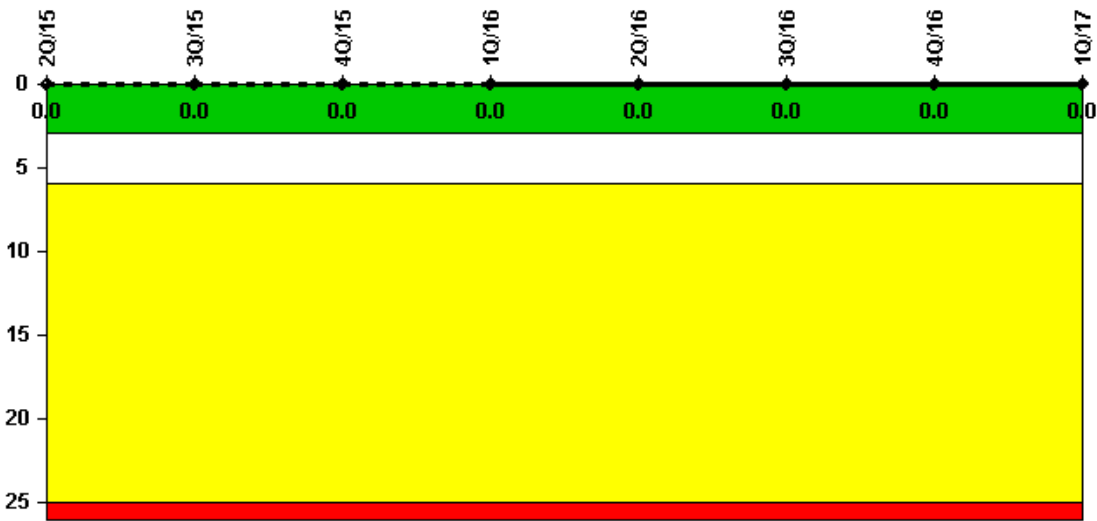
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

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- Unplanned Scrams with Complications (IE04)
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- Heat Removal Systems (MS08)
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- Cooling Water Systems (MS10)
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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

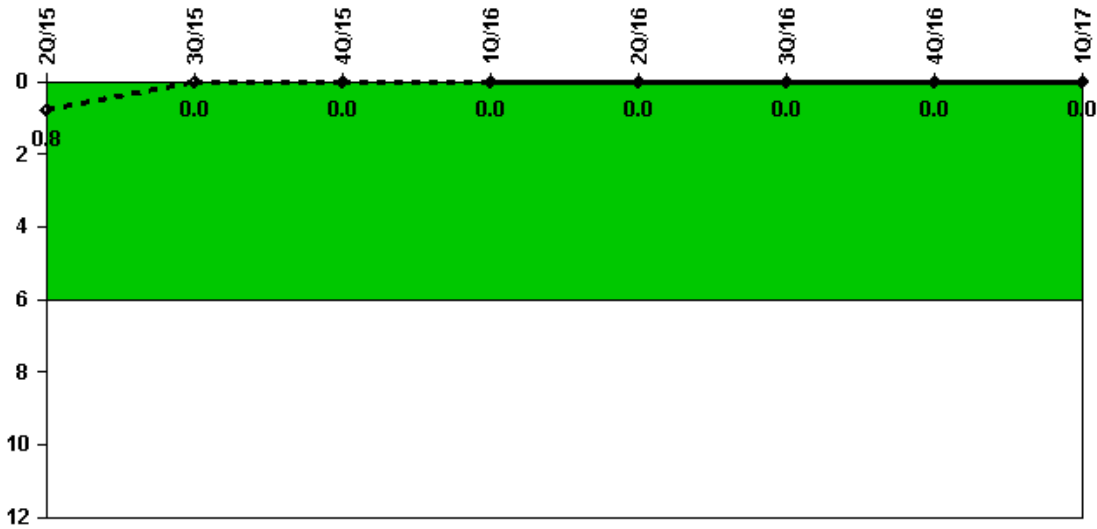
Unplanned Scrams per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	1783.0	2183.0	2184.0	2208.0	2209.0	2159.0

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

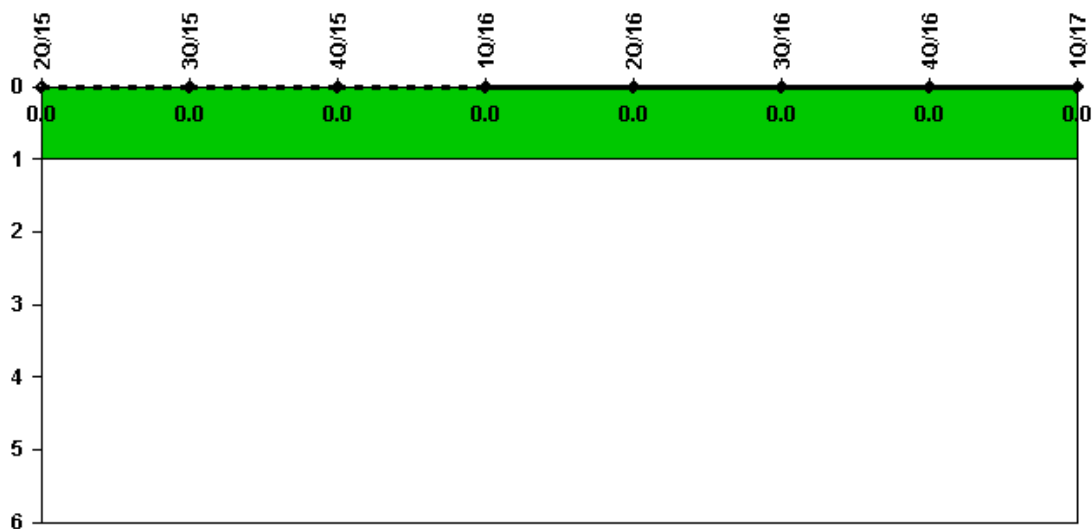
**Notes**

Unplanned Power Changes per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	1783.0	2183.0	2184.0	2208.0	2209.0	2159.0
<b>Indicator value</b>	<b>0.8</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

**Unplanned Scrams with Complications**



Thresholds: White > 1.0

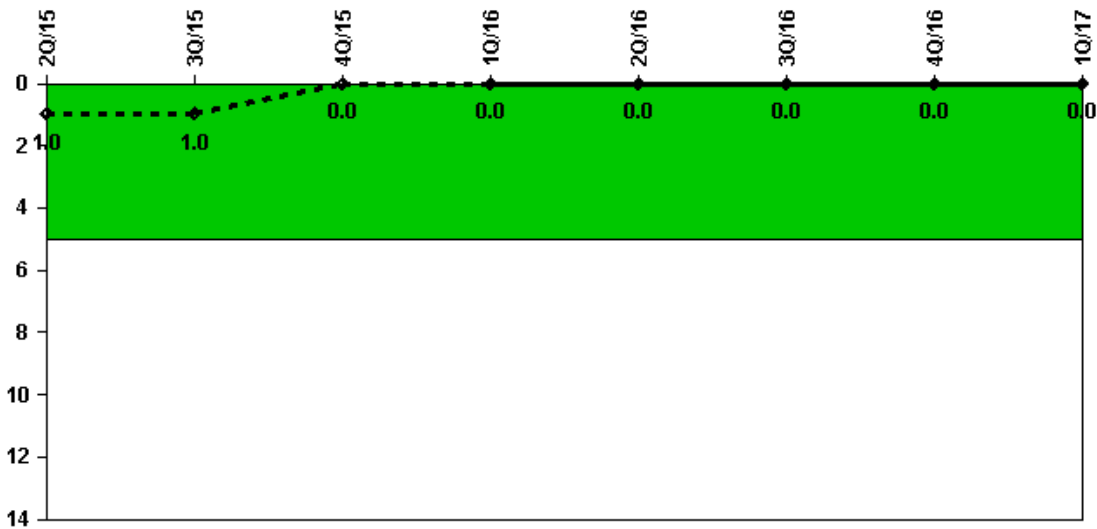
**Notes**

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 (PWR)



Thresholds: White > 5.0

#### Notes

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

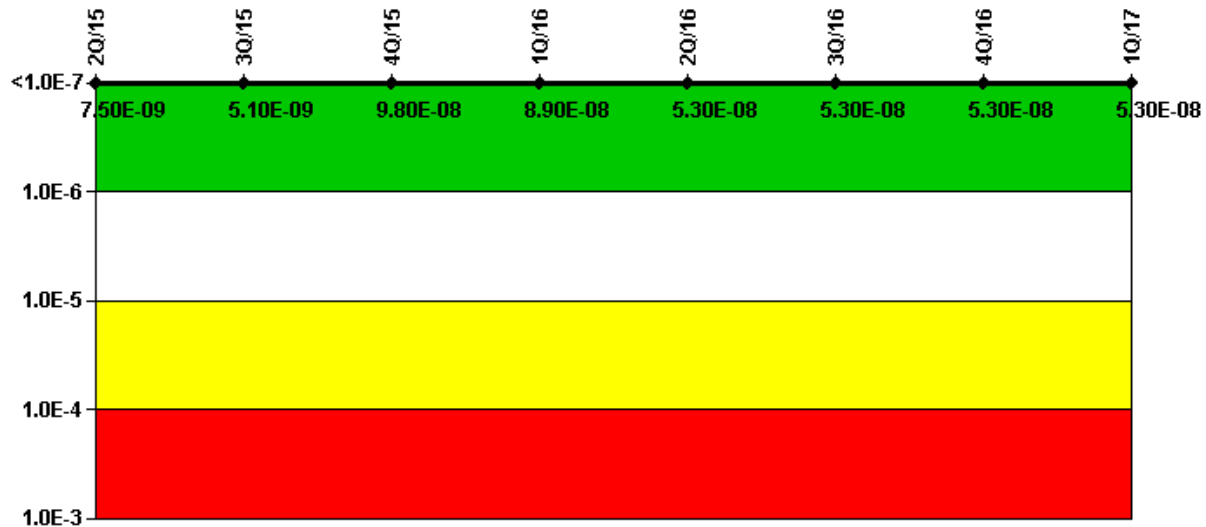
Safety System Functional Failures 0 0 0 0 0 0 0 0

Indicator value 1 1 0 0 0 0 0 0

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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**

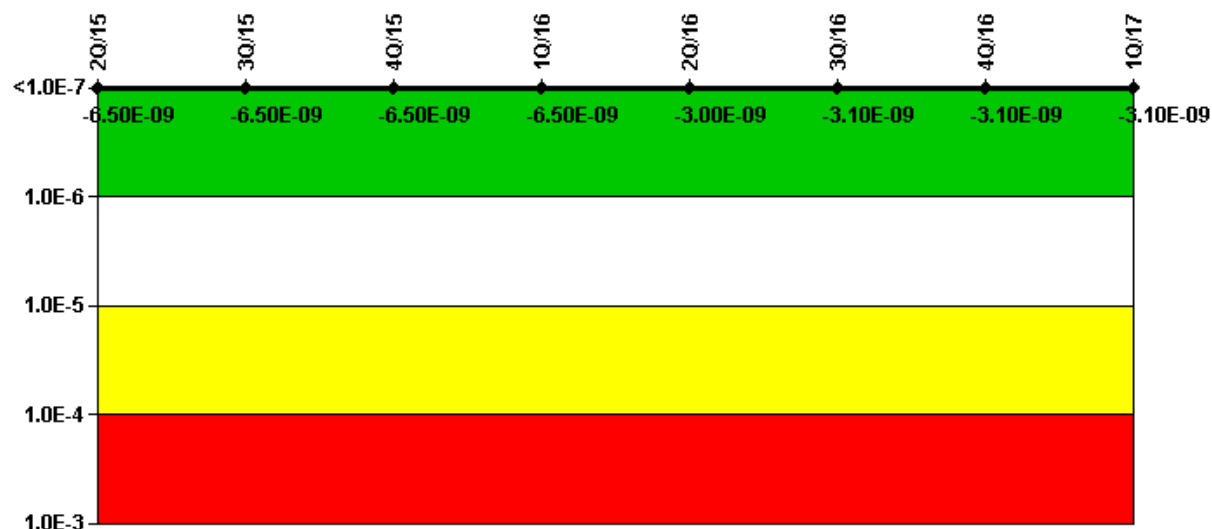
	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	1.38E-09	-9.91E-10	-1.78E-08	-2.53E-08	-2.64E-08	-2.64E-08	-2.64E-08	-2.64E-08
URI (ΔCDF)	6.07E-09	6.07E-09	1.16E-07	1.14E-07	7.92E-08	7.92E-08	7.92E-08	7.92E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>7.50E-09</b>	<b>5.10E-09</b>	<b>9.80E-08</b>	<b>8.90E-08</b>	<b>5.30E-08</b>	<b>5.30E-08</b>	<b>5.30E-08</b>	<b>5.30E-08</b>

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**Licensee Comments:**

2Q/15: Unavailable hours previously reported for EDG A for the month of June 2015 were classified as Unplanned, and are now being reported as planned because no failure of the EDG had occurred. This improves the resulting MSPPI value, and does not change the MSPPI indicator color (green) for June 2015.

**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 (ΔCDF)	-2.42E-09	-2.42E-09	-2.41E-09	-2.41E-09	-8.36E-10	-9.30E-10	-9.31E-10	-9.31E-10
URI (ΔCDF)	-4.07E-09	-4.07E-09	-4.07E-09	-4.07E-09	-2.20E-09	-2.20E-09	-2.20E-09	-2.20E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO

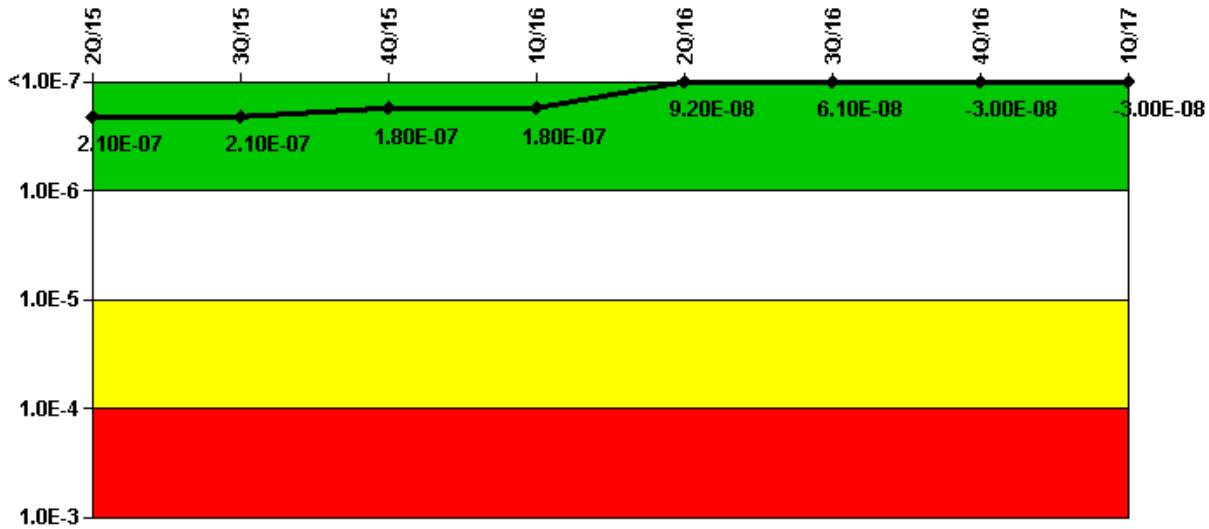
**Indicator value**

-6.50E-09   -6.50E-09   -6.50E-09   -6.50E-09   -3.00E-09   -3.10E-09   -3.10E-09   -3.10E-09

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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**

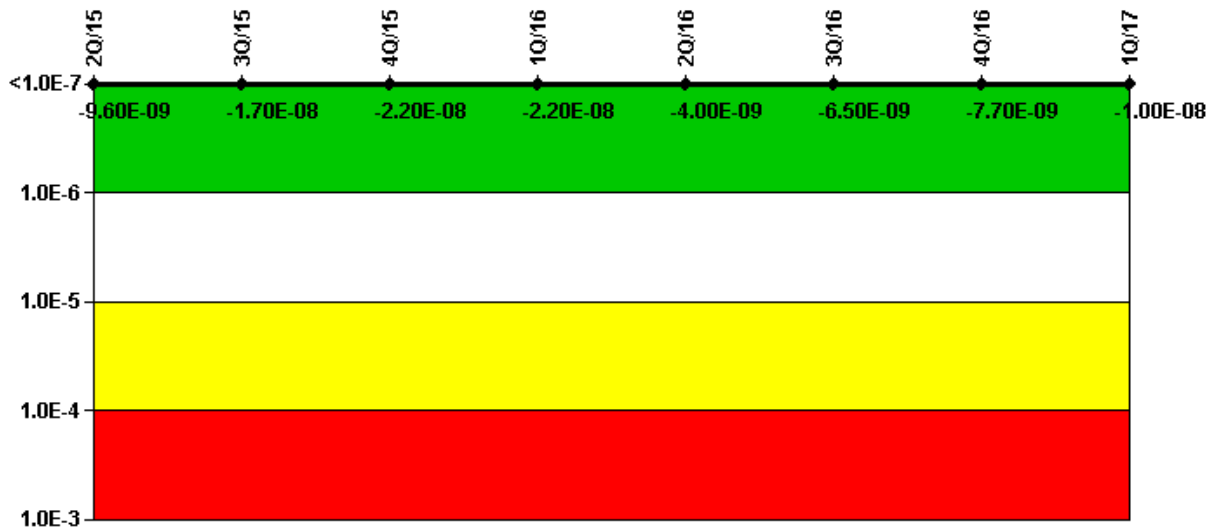
**Mitigating Systems Performance Index, Heat Removal System**

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	1.33E-08	1.33E-08	7.73E-09	7.67E-09	4.43E-09	9.88E-11	-1.22E-09	-1.22E-09
URI (ΔCDF)	1.93E-07	1.93E-07	1.75E-07	1.75E-07	8.79E-08	6.06E-08	-2.87E-08	-2.88E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>2.10E-07</b>	<b>2.10E-07</b>	<b>1.80E-07</b>	<b>1.80E-07</b>	<b>9.20E-08</b>	<b>6.10E-08</b>	<b>-3.00E-08</b>	<b>-3.00E-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**

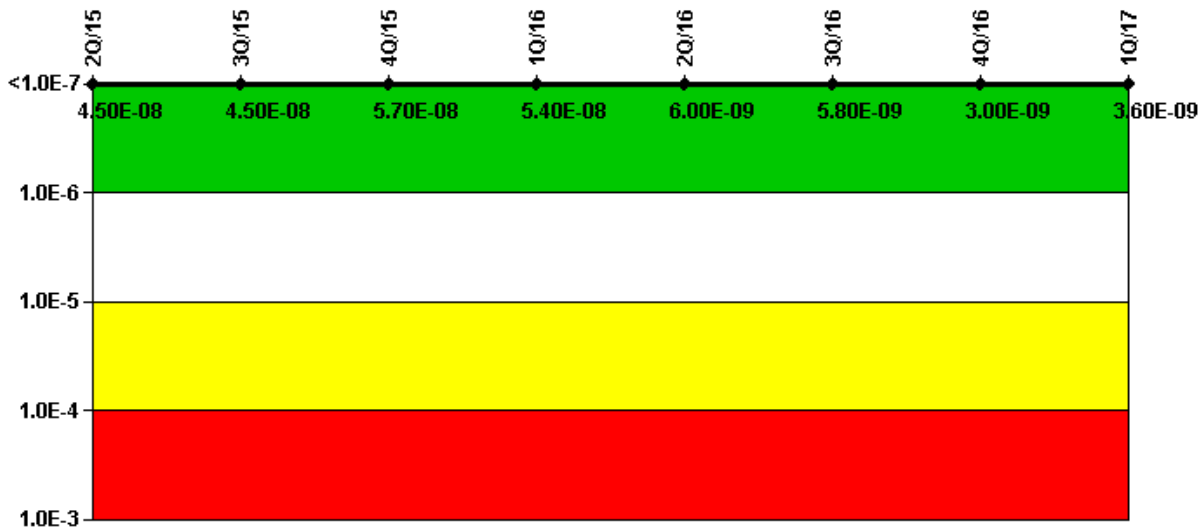
**Mitigating Systems Performance Index, Residual Heat Removal System**

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI ( $\Delta$ CDF)	$8.05E-09$	$6.12E-10$	$-3.84E-09$	$-4.49E-09$	$5.91E-09$	$3.41E-09$	$2.24E-09$	$-5.47E-10$
URI ( $\Delta$ CDF)	$-1.77E-08$	$-1.77E-08$	$-1.77E-08$	$-1.77E-08$	$-9.92E-09$	$-9.92E-09$	$-9.92E-09$	$-9.92E-09$
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b><math>-9.60E-09</math></b>	<b><math>-1.70E-08</math></b>	<b><math>-2.20E-08</math></b>	<b><math>-2.20E-08</math></b>	<b><math>-4.00E-09</math></b>	<b><math>-6.50E-09</math></b>	<b><math>-7.70E-09</math></b>	<b><math>-1.00E-08</math></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**

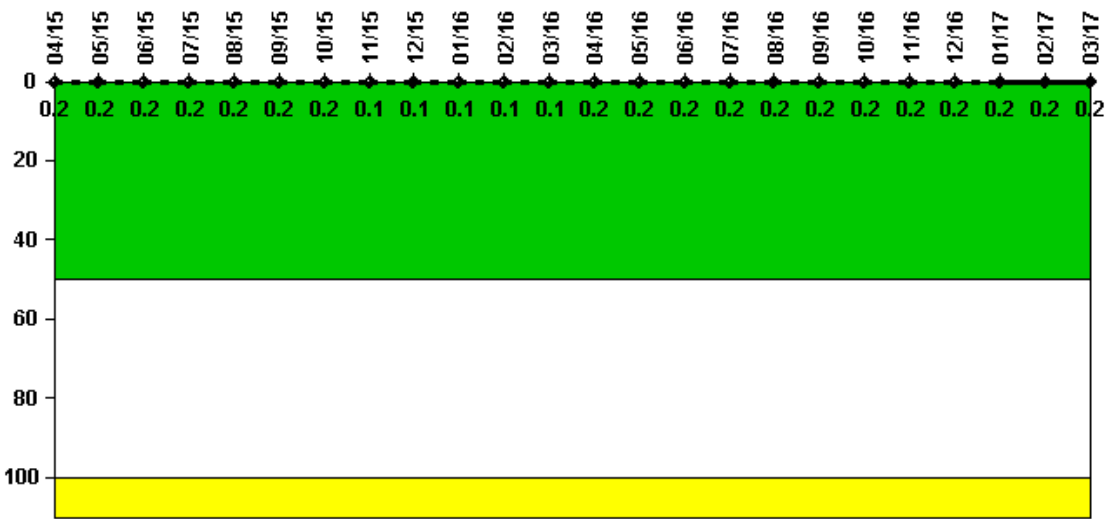
	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	3.44E-08	3.44E-08	4.69E-08	4.39E-08	9.62E-09	9.37E-09	8.85E-09	9.45E-09
URI (ΔCDF)	1.04E-08	1.04E-08	1.04E-08	1.04E-08	-3.62E-09	-3.62E-09	-5.84E-09	-5.84E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>4.50E-08</b>	<b>4.50E-08</b>	<b>5.70E-08</b>	<b>5.40E-08</b>	<b>6.00E-09</b>	<b>5.80E-09</b>	<b>3.00E-09</b>	<b>3.60E-09</b>

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Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

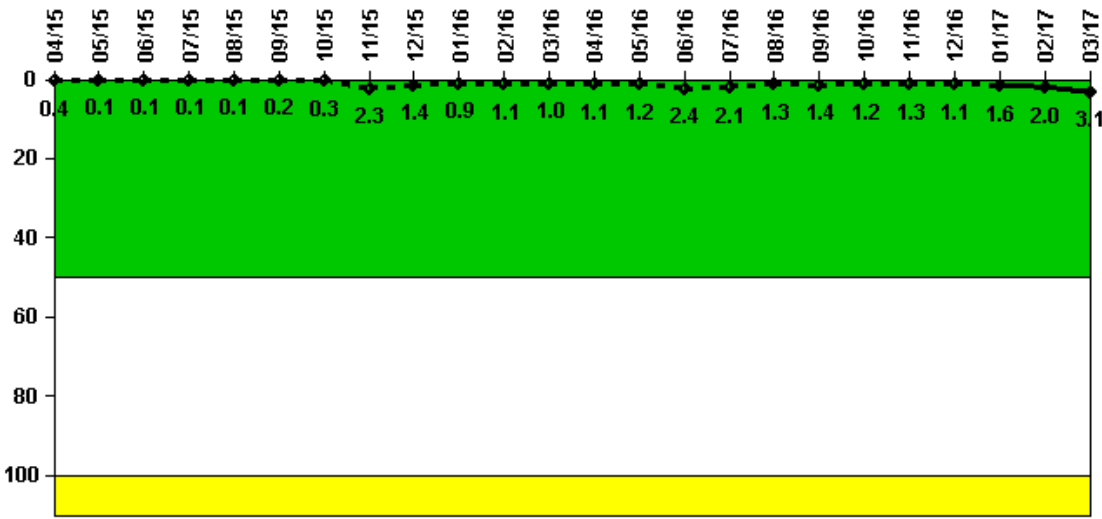
Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	0.001990	0.002140	0.002170	0.002400	0.002130	0.001980	0.002030	0.000997	0.001040	0.001310	0.001350	0.001420
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
<b>Indicator value</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>
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	0.001560	0.001610	0.001810	0.001720	0.001820	0.002010	0.002040	0.002250	0.002200	0.002200	0.002400	0.002200
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
<b>Indicator value</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>

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Licensee Comments:

6/15: Upon review of the previously submitted October 2014 Barrier Integrity Performance Indicator data an error was found for Iodine 131. The value submitted was obtained during a reactor down power which is expected to be excluded from the indicator. There was no change in indicator color resulting from the error.

### 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	0.044	0.007	0.007	0.010	0.009	0.015	0.031	0.234	0.136	0.092	0.113	0.104
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

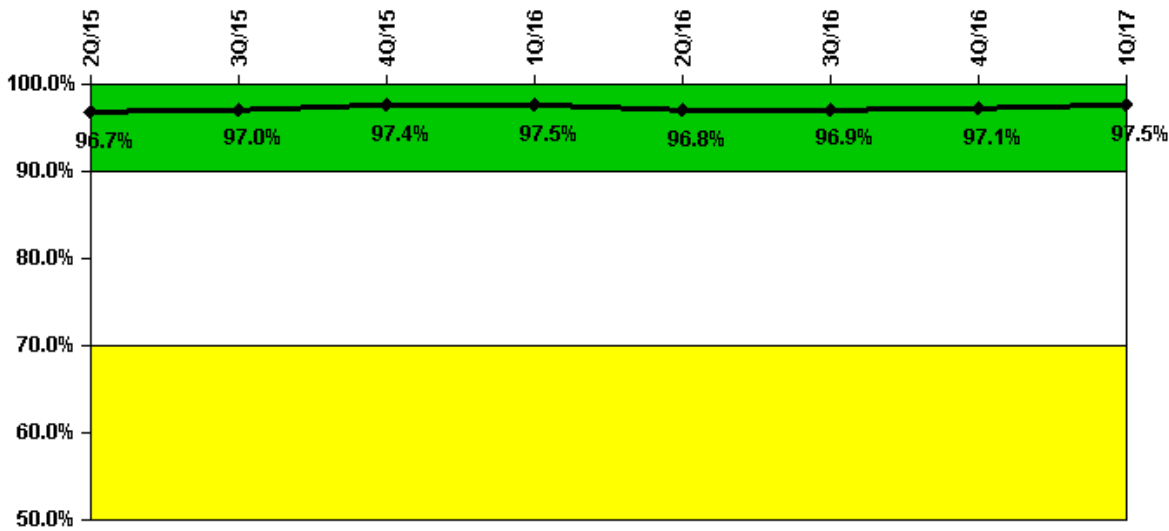
<b>Indicator value</b>	<b>0.4</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.2</b>	<b>0.3</b>	<b>2.3</b>	<b>1.4</b>	<b>0.9</b>	<b>1.1</b>	<b>1.0</b>
Reactor Coolant System Leakage	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum leakage	0.106	0.118	0.237	0.210	0.128	0.137	0.124	0.129	0.107	0.157	0.198	0.310
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>1.1</b>	<b>1.2</b>	<b>2.4</b>	<b>2.1</b>	<b>1.3</b>	<b>1.4</b>	<b>1.2</b>	<b>1.3</b>	<b>1.1</b>	<b>1.6</b>	<b>2.0</b>	<b>3.1</b>
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Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

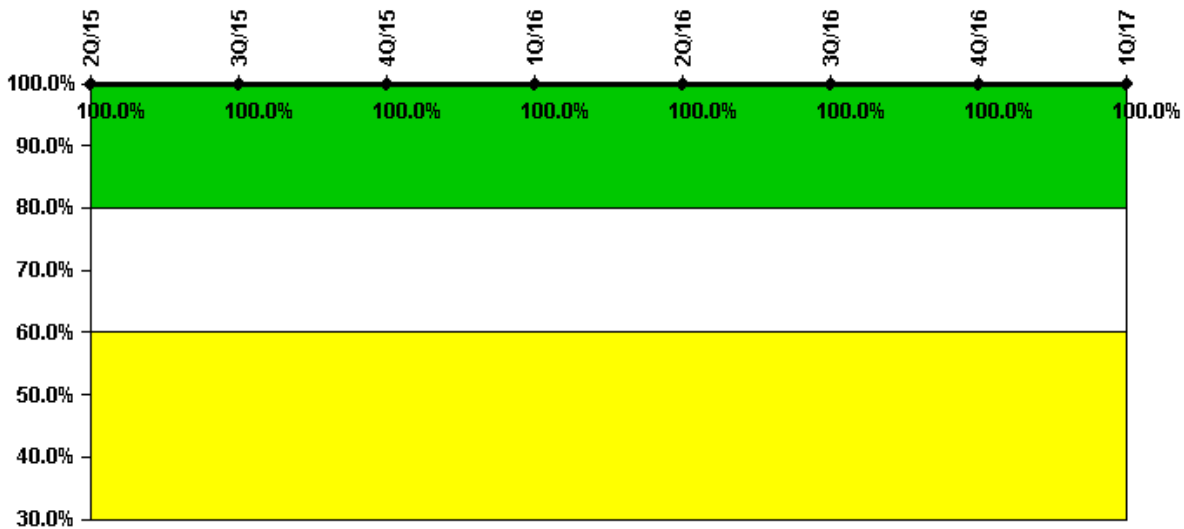
Drill/Exercise Performance	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful opportunities	50.0	38.0	66.0	46.0	42.0	22.0	44.0	46.0
Total opportunities	51.0	39.0	68.0	46.0	46.0	22.0	44.0	47.0

Indicator value                    96.7% 97.0% 97.4% 97.5% 96.8% 96.9% 97.1% 97.5%

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Licensee Comments: none

**ERO Drill Participation**



Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

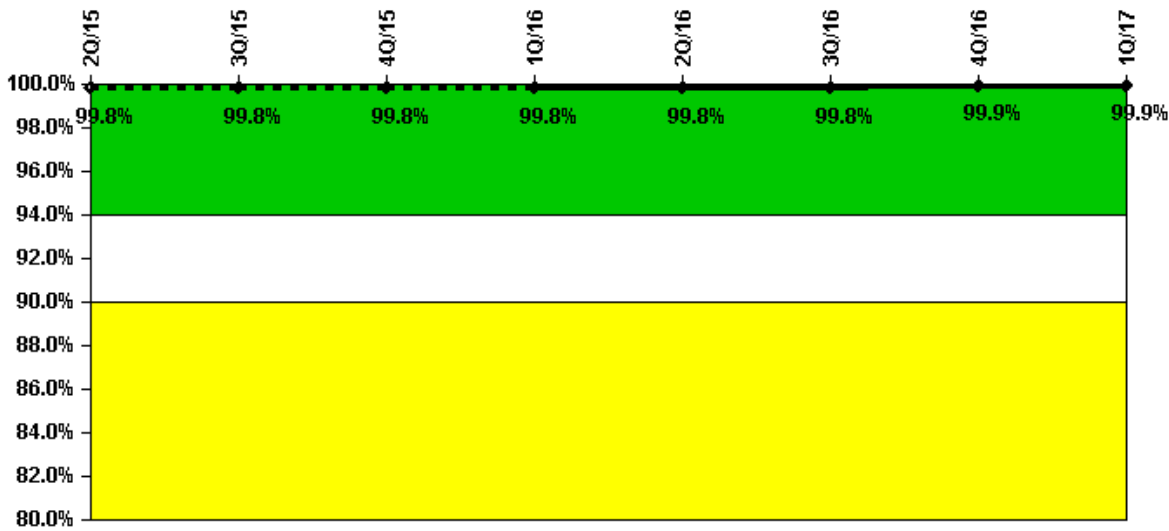
ERO Drill Participation	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Participating Key personnel	47.0	45.0	47.0	48.0	54.0	45.0	50.0	53.0
Total Key personnel	47.0	45.0	47.0	48.0	54.0	45.0	50.0	53.0

**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

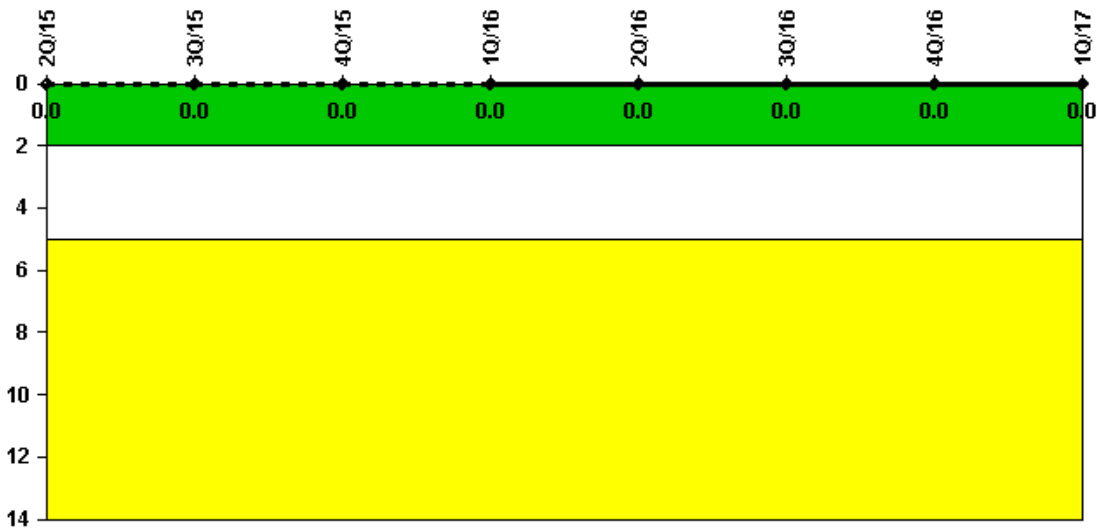
Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	1245	1245	1244	1248	1247	1149	1149	1152
Total sirens-tests	1248	1248	1248	1248	1248	1152	1152	1152

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

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Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

**Notes**

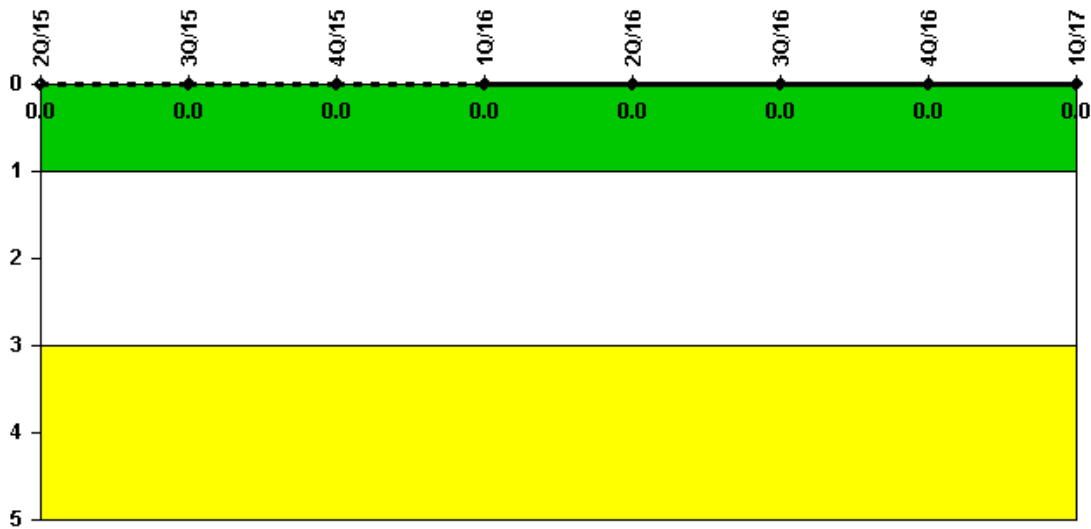
**Occupational Exposure Control Effectiveness** 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17

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>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 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