



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries > Nine Mile Point 1 > Quarterly Performance Indicators

## **Nine Mile Point 1 – Quarterly Performance Indicators**

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

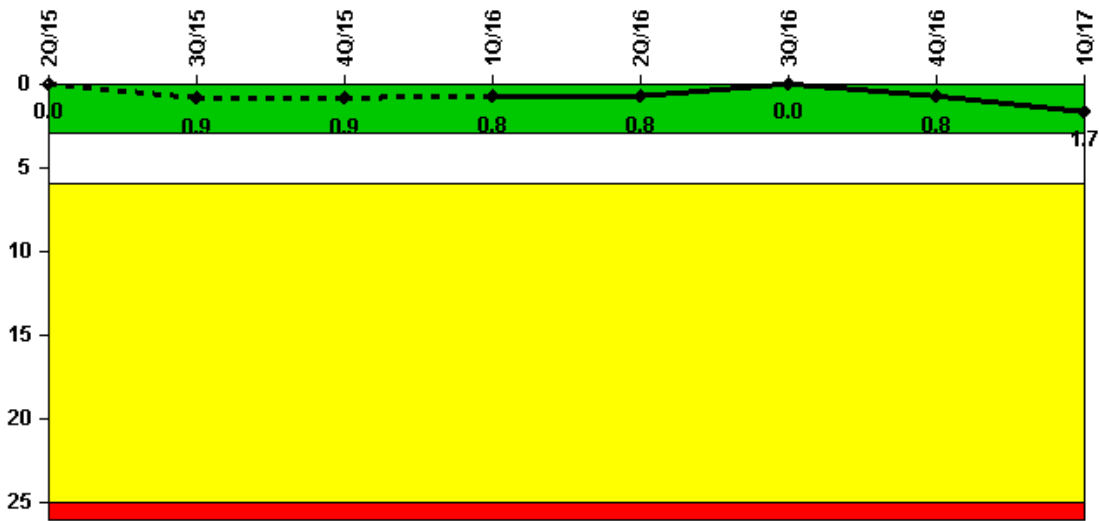
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

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

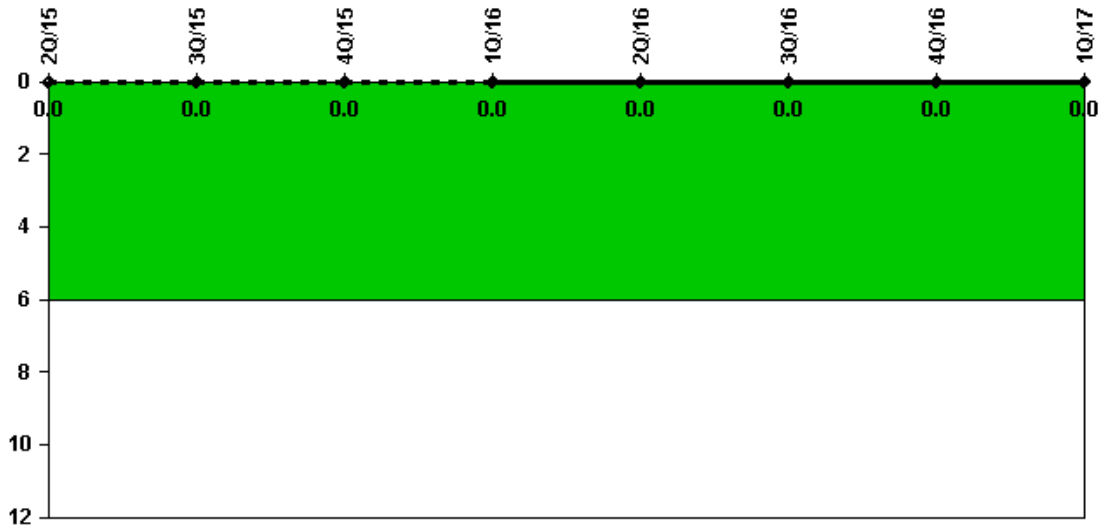
Unplanned Scrams per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned scrams	0	1.0	0	0	0	0	1.0	1.0
Critical hours	1975.8	2146.8	2209.0	2183.0	2184.0	2208.0	2155.6	1873.5

Indicator value	0	0.9	0.9	0.8	0.8	0	0.8	1.7
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TOP

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

**Notes**

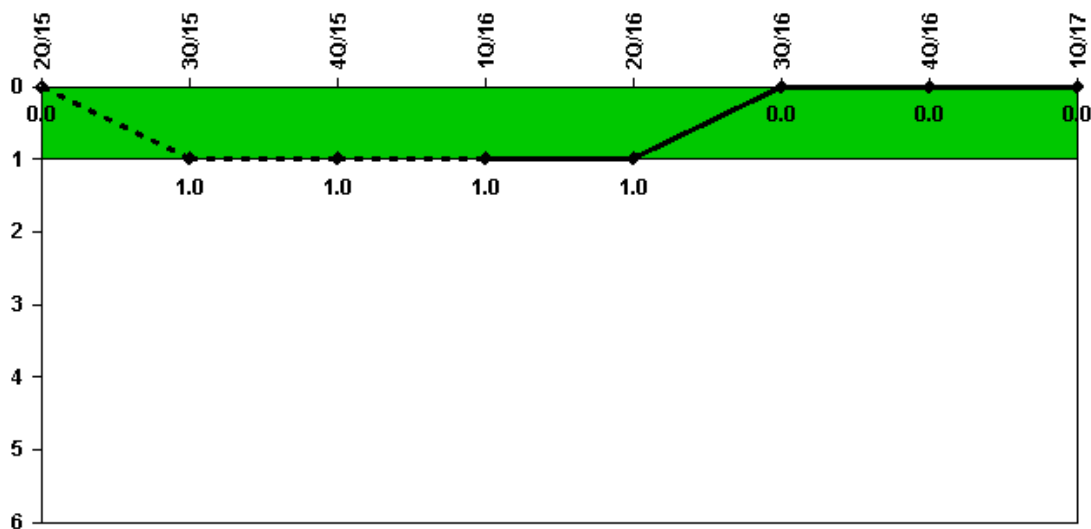
Unplanned Power Changes per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1975.8	2146.8	2209.0	2183.0	2184.0	2208.0	2155.6	1873.5

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

▲ TOP

Licensee Comments: none

**Unplanned Scrams with Complications**



Thresholds: White > 1.0

**Notes**

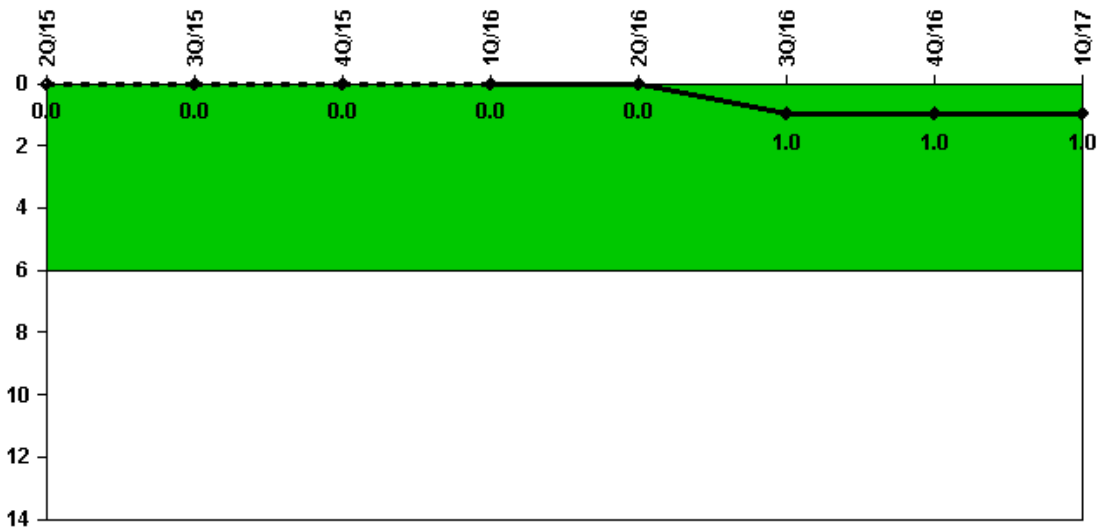
Unplanned Scrams with Complications	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Scrams with complications	0	1.0	1.0	1.0	1.0	0.0	0.0	0.0

**Indicator value** 0.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0

▲ TOP

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

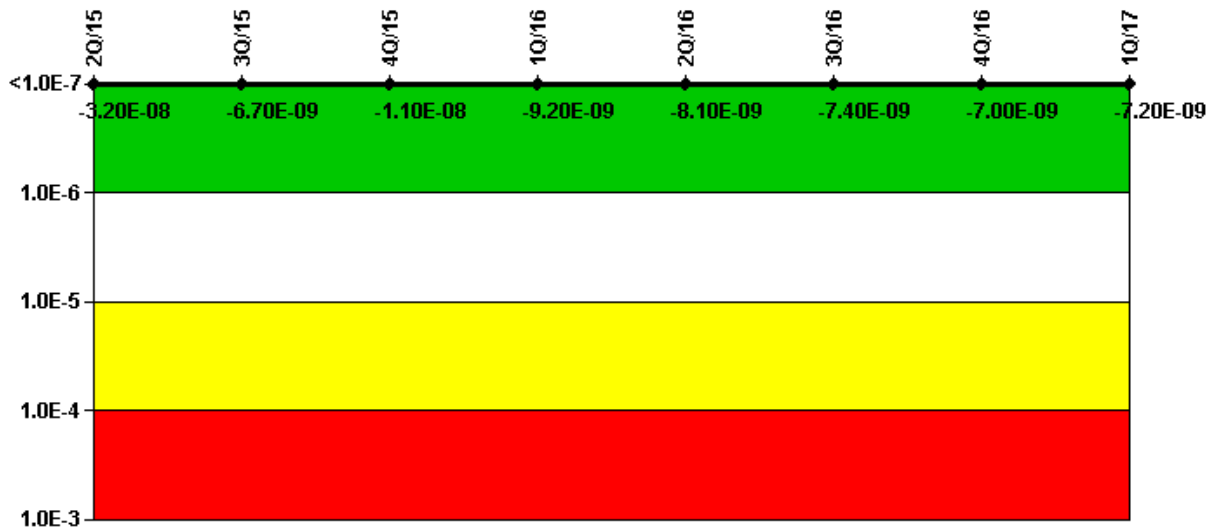
Safety System Functional Failures                    0    0    0    0    0    1    0    0

Indicator value    0    0    0    0    0    1    1    1

▲ TOP

Licensee Comments:  
3Q/16: LER 2016-002

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



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

**Notes**

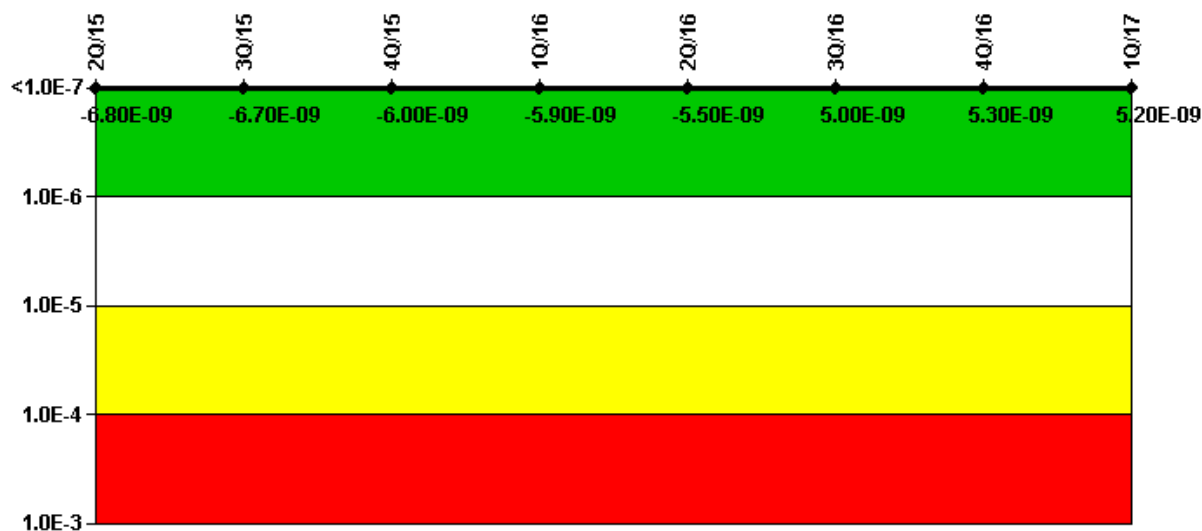
**Mitigating Systems Performance Index, Emergency AC Power System**

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI ( $\Delta$ CDF)	-5.87E-09	-4.29E-09	-4.31E-09	-2.34E-09	-2.43E-09	-2.44E-09	-2.43E-09	-2.39E-09
URI ( $\Delta$ CDF)	-2.57E-08	-2.40E-09	-6.45E-09	-6.84E-09	-5.71E-09	-4.96E-09	-4.52E-09	-4.82E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-3.20E-08</b>	<b>-6.70E-09</b>	<b>-1.10E-08</b>	<b>-9.20E-09</b>	<b>-8.10E-09</b>	<b>-7.40E-09</b>	<b>-7.00E-09</b>	<b>-7.20E-09</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**

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI ( $\Delta$ CDF)	-1.09E-08	-1.09E-08	-1.09E-08	-1.09E-08	-1.09E-08	-8.12E-09	-8.10E-09	-8.07E-09
URI ( $\Delta$ CDF)	4.07E-09	4.19E-09	4.89E-09	4.95E-09	5.39E-09	1.31E-08	1.34E-08	1.33E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-6.80E-09</b>	<b>-6.70E-09</b>	<b>-6.00E-09</b>	<b>-5.90E-09</b>	<b>-5.50E-09</b>	<b>5.00E-09</b>	<b>5.30E-09</b>	<b>5.20E-09</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**

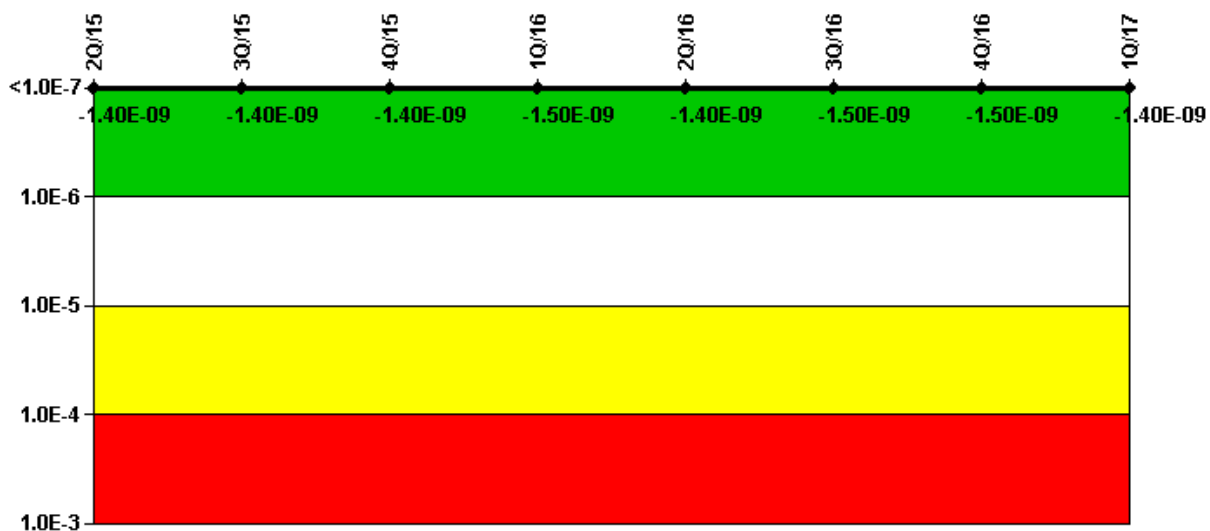
**Mitigating Systems Performance Index, Heat Removal System**

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-1.24E-09	-1.24E-09	-1.24E-09	-1.24E-09	-1.24E-09	-1.24E-09	-1.24E-09	-1.24E-09
URI (ΔCDF)	-4.86E-10	-4.92E-10	-4.80E-10	-4.77E-10	-4.21E-10	-4.21E-10	-4.21E-10	-4.36E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-1.70E-09</b>	<b>-1.70E-09</b>	<b>-1.70E-09</b>	<b>-1.70E-09</b>	<b>-1.70E-09</b>	<b>-1.70E-09</b>	<b>-1.70E-09</b>	<b>-1.70E-09</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**

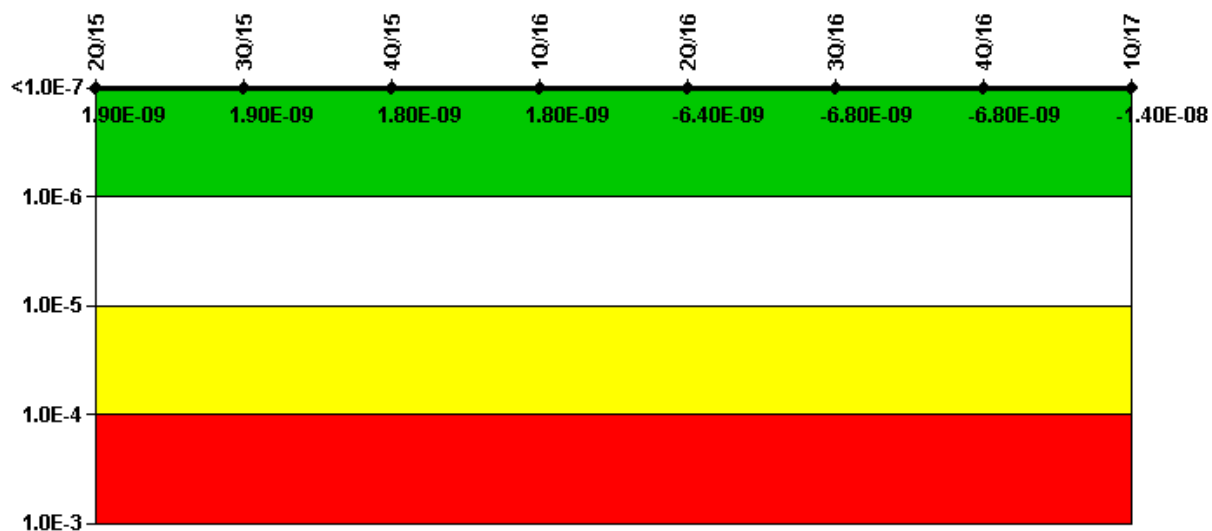
	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI ( $\Delta$ CDF)	7.64E-11	7.54E-11	7.16E-11	7.14E-11	6.62E-11	6.57E-11	6.62E-11	6.86E-11
URI ( $\Delta$ CDF)	-1.47E-09	-1.49E-09	-1.52E-09	-1.53E-09	-1.50E-09	-1.52E-09	-1.52E-09	-1.50E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-1.40E-09</b>	<b>-1.40E-09</b>	<b>-1.40E-09</b>	<b>-1.50E-09</b>	<b>-1.40E-09</b>	<b>-1.50E-09</b>	<b>-1.50E-09</b>	<b>-1.40E-09</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**

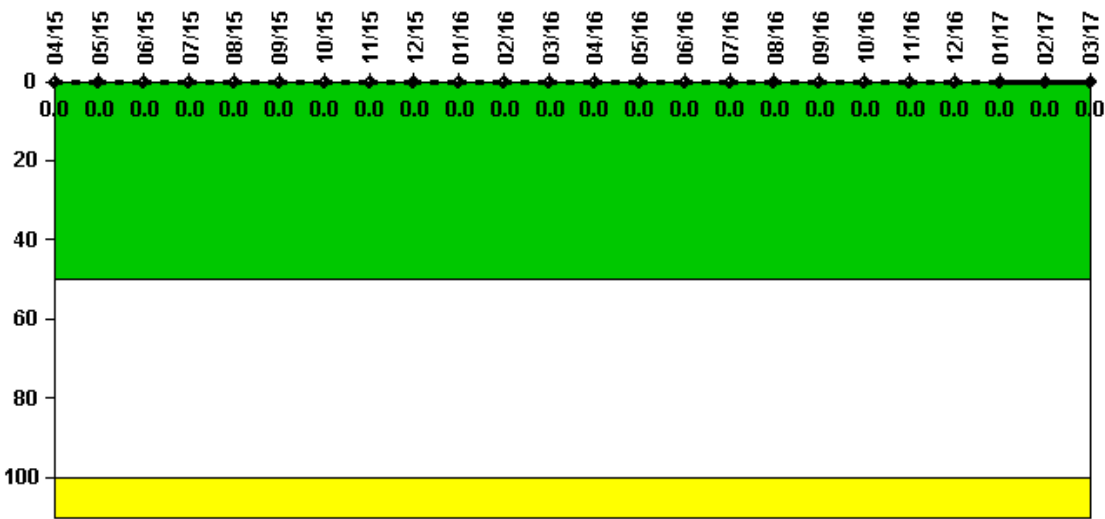
**Mitigating Systems Performance Index, Cooling Water Systems**

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI ( $\Delta$ CDF)	-1.41E-08	-1.41E-08	-1.42E-08	-1.42E-08	-1.53E-08	-1.53E-08	-1.53E-08	-1.54E-08
URI ( $\Delta$ CDF)	1.60E-08	1.60E-08	1.60E-08	1.60E-08	8.88E-09	8.47E-09	8.48E-09	1.02E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>1.90E-09</b>	<b>1.90E-09</b>	<b>1.80E-09</b>	<b>1.80E-09</b>	<b>-6.40E-09</b>	<b>-6.80E-09</b>	<b>-6.80E-09</b>	<b>-1.40E-08</b>

▲ TOP

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

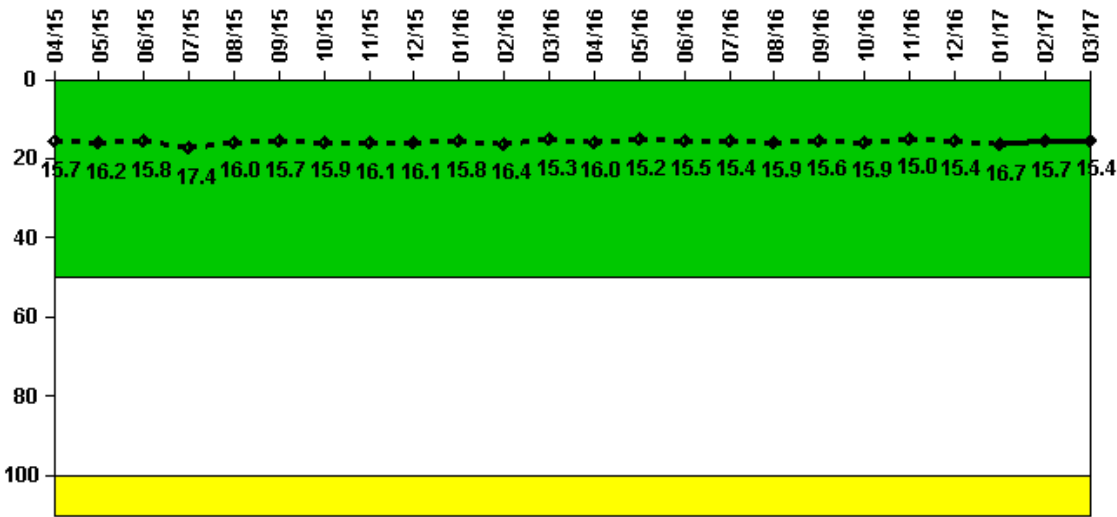
**Notes**

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	0.000002	0.000003	0.000003	0.000004	0.000002	0.000002	0.000002	0.000002	0.000001	0.000005	0.000005	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	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	0.000005	0.000005	0.000005	0.000006	0.000004	0.000004	0.000004	0.000004	0.000007	0.000004	0.000004	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	0	0

▲ TOP

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	3.931	4.049	3.942	4.340	4.002	3.920	3.978	4.018	4.022	3.946	4.106	3.820
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

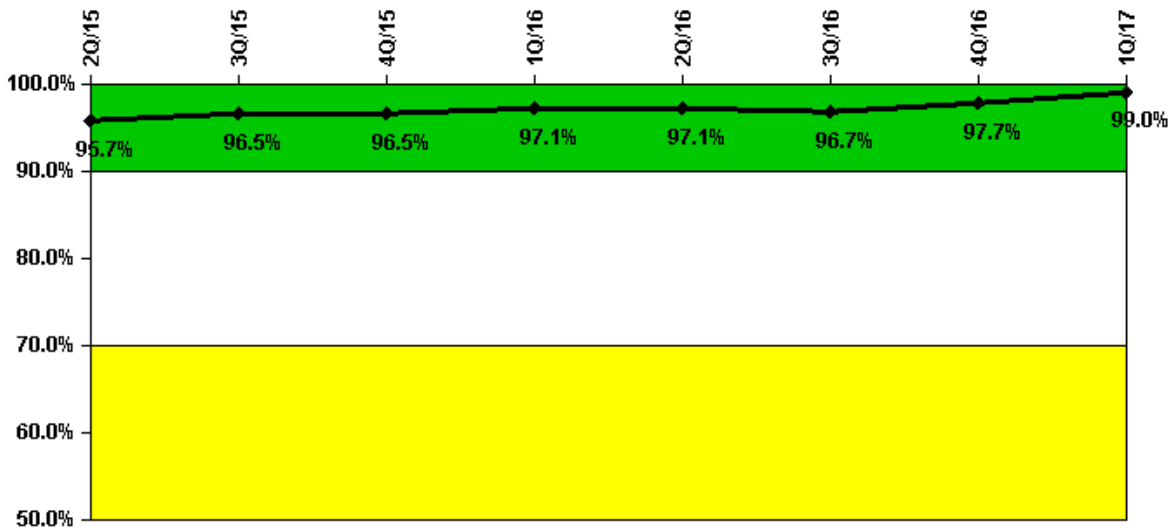
Indicator value	15.7	16.2	15.8	17.4	16.0	15.7	15.9	16.1	16.1	15.8	16.4	15.3
Reactor Coolant System Leakage	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum leakage	3.996	3.797	3.868	3.851	3.966	3.912	3.982	3.739	3.847	4.187	3.935	3.851
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

Indicator value	16.0	15.2	15.5	15.4	15.9	15.6	15.9	15.0	15.4	16.7	15.7	15.4
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Licensee Comments: none

**Drill/Exercise Performance**



Thresholds: White < 90.0% Yellow < 70.0%

**Notes**

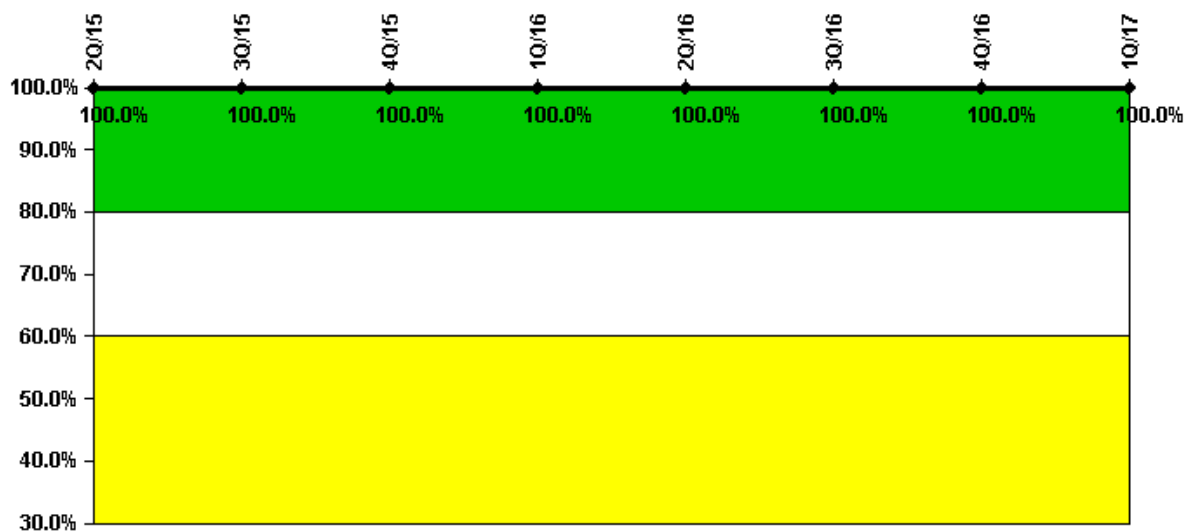
Drill/Exercise Performance	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful opportunities	0	25.0	54.0	38.0	14.0	51.0	70.0	31.0
Total opportunities	0	25.0	55.0	38.0	14.0	52.0	71.0	31.0

**Indicator value**                    **95.7% 96.5% 96.5% 97.1% 97.1% 96.7% 97.7% 99.0%**

▲ TOP

Licensee Comments: none

### ERO Drill Participation



**Thresholds: White < 80.0% Yellow < 60.0%**

**Notes**

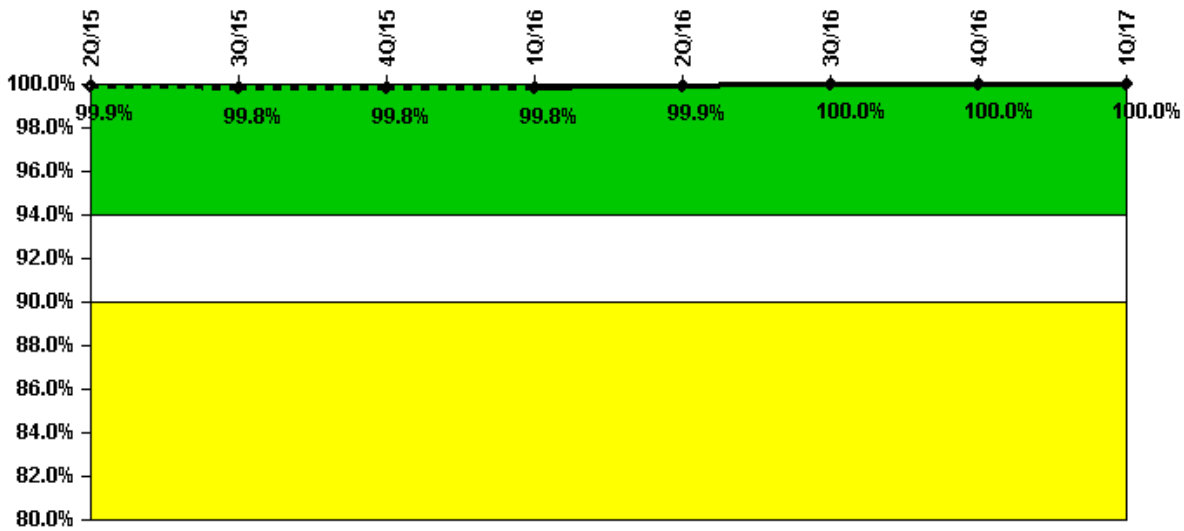
<b>ERO Drill Participation</b>	<b>2Q/15</b>	<b>3Q/15</b>	<b>4Q/15</b>	<b>1Q/16</b>	<b>2Q/16</b>	<b>3Q/16</b>	<b>4Q/16</b>	<b>1Q/17</b>
Participating Key personnel	78.0	82.0	83.0	82.0	85.0	92.0	93.0	85.0
Total Key personnel	78.0	82.0	83.0	82.0	85.0	92.0	93.0	85.0

**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

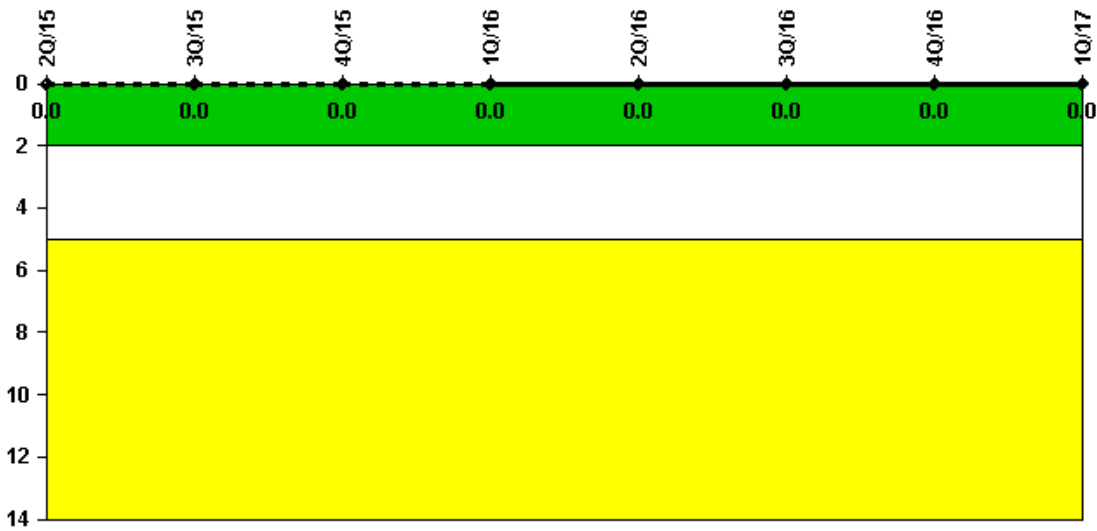
Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	258	258	296	348	520	520	520	520
Total sirens-tests	259	259	296	348	520	520	520	520

Indicator value                    99.9% 99.8% 99.8% 99.8% 99.9% 100.0% 100.0% 100.0%

▲ TOP

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

**Notes**

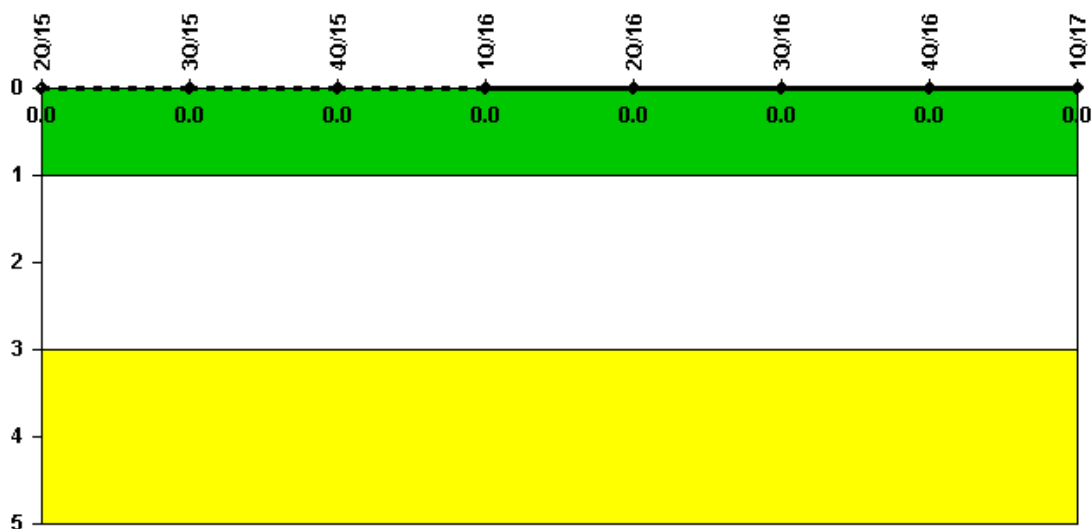
**Occupational Exposure Control Effectiveness** 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17

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>

TOP

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

[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: May 5, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017