

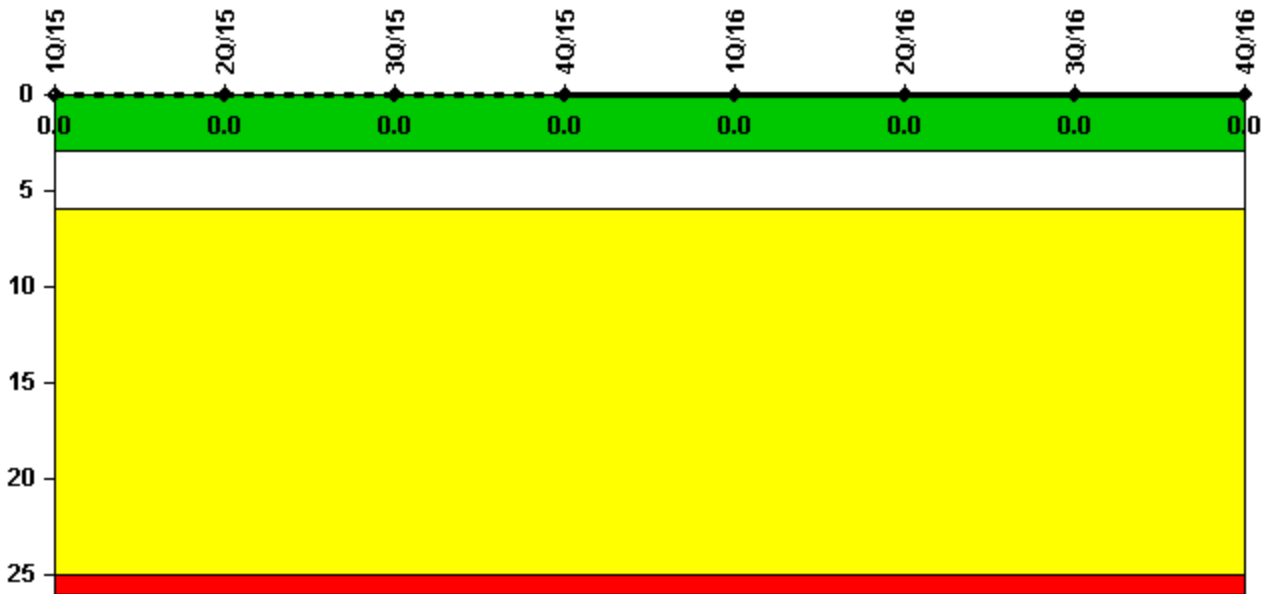
## Hatch 2

### 4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

#### Unplanned Scrams per 7000 Critical Hrs



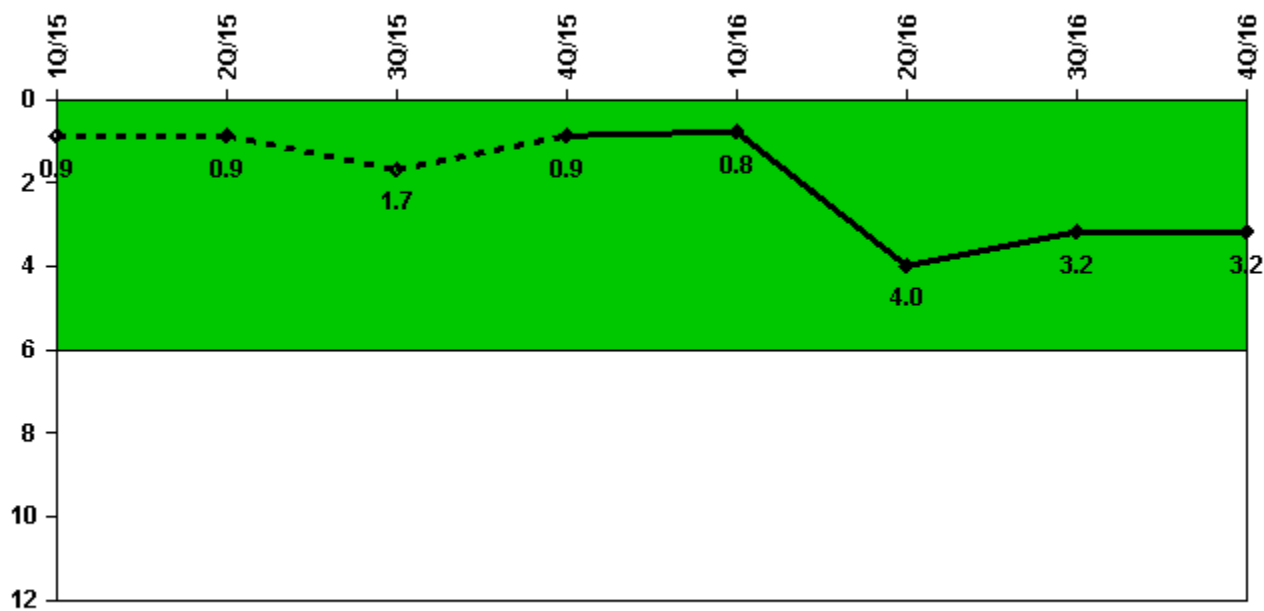
**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

#### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1424.6	2184.0	2208.0	2209.0	2183.0	2079.9	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



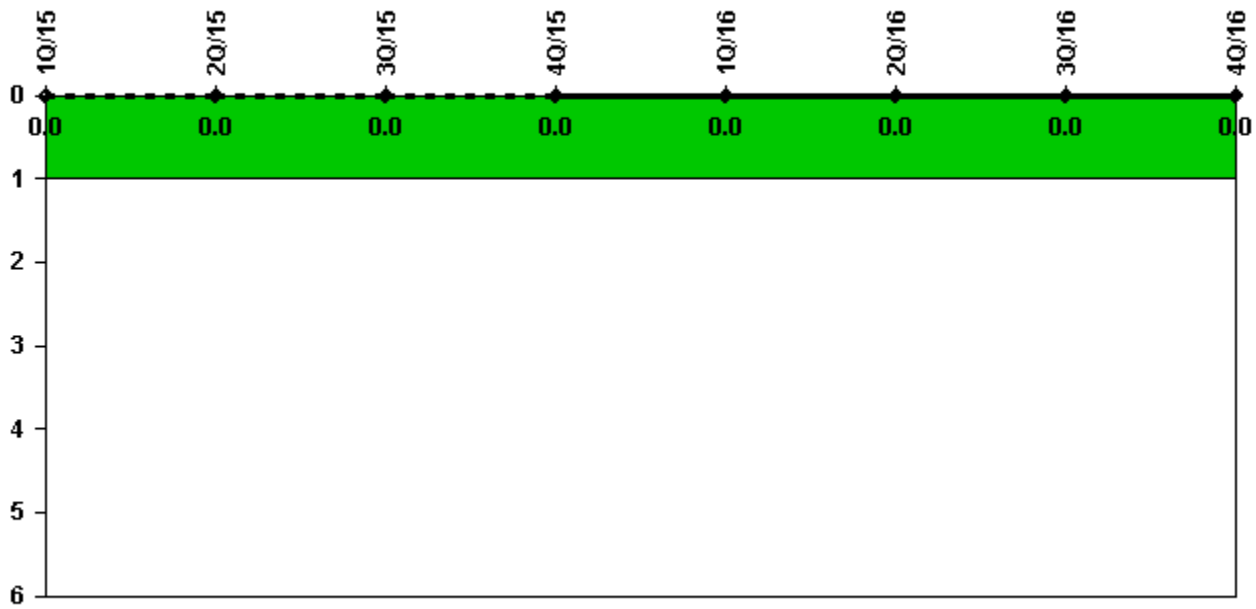
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	0	0	1.0	0	0	4.0	0	0
Critical hours	1424.6	2184.0	2208.0	2209.0	2183.0	2079.9	2208.0	2209.0
<b>Indicator value</b>	<b>0.9</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>

Licensee Comments: none

### Unplanned Scrams with Complications



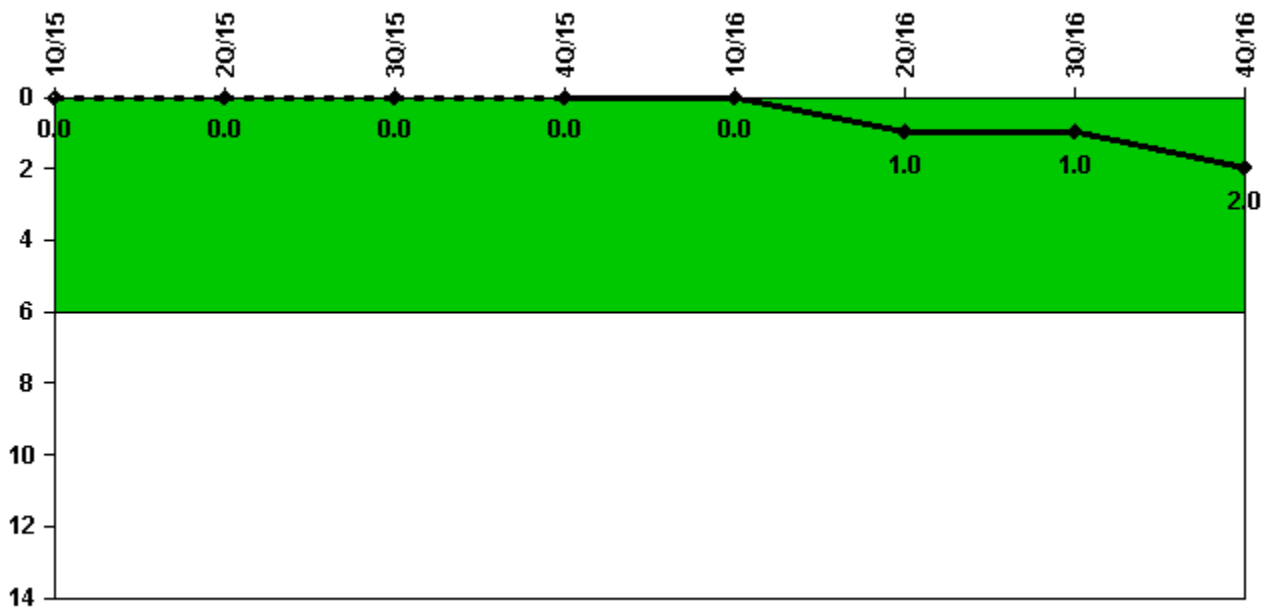
Thresholds: White > 1.0

#### Notes

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

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

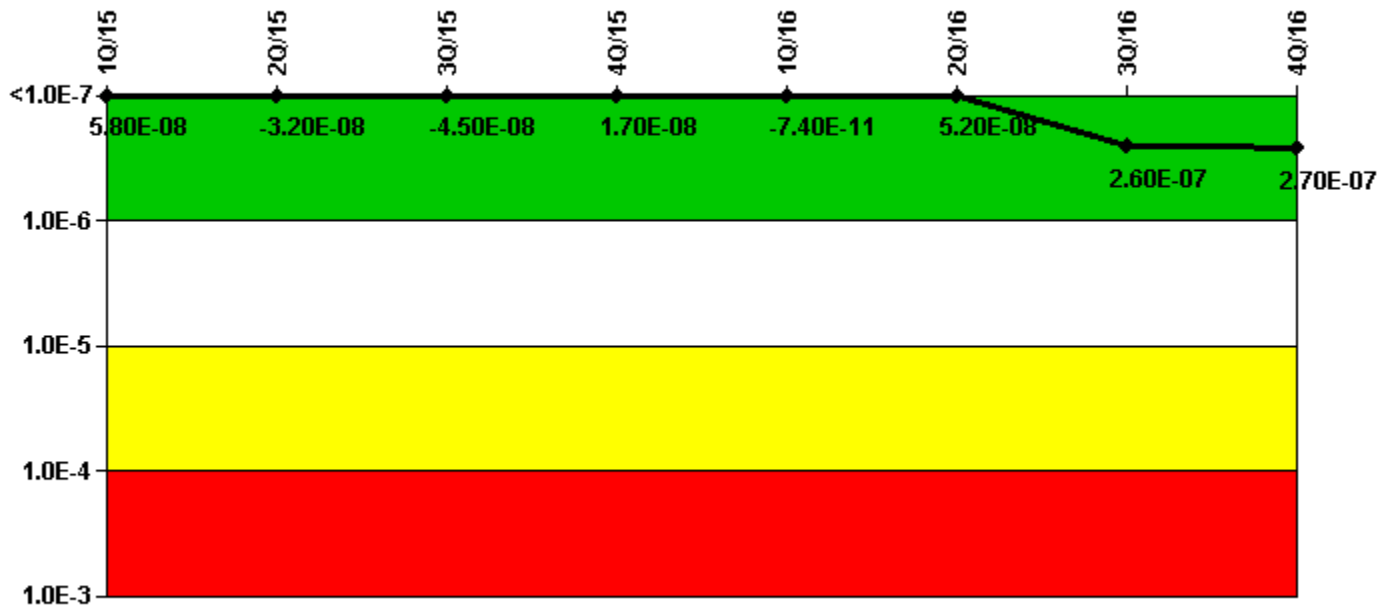
Safety System Functional Failures (BWR)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	0	0	0	0	0	1	0	1
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>

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

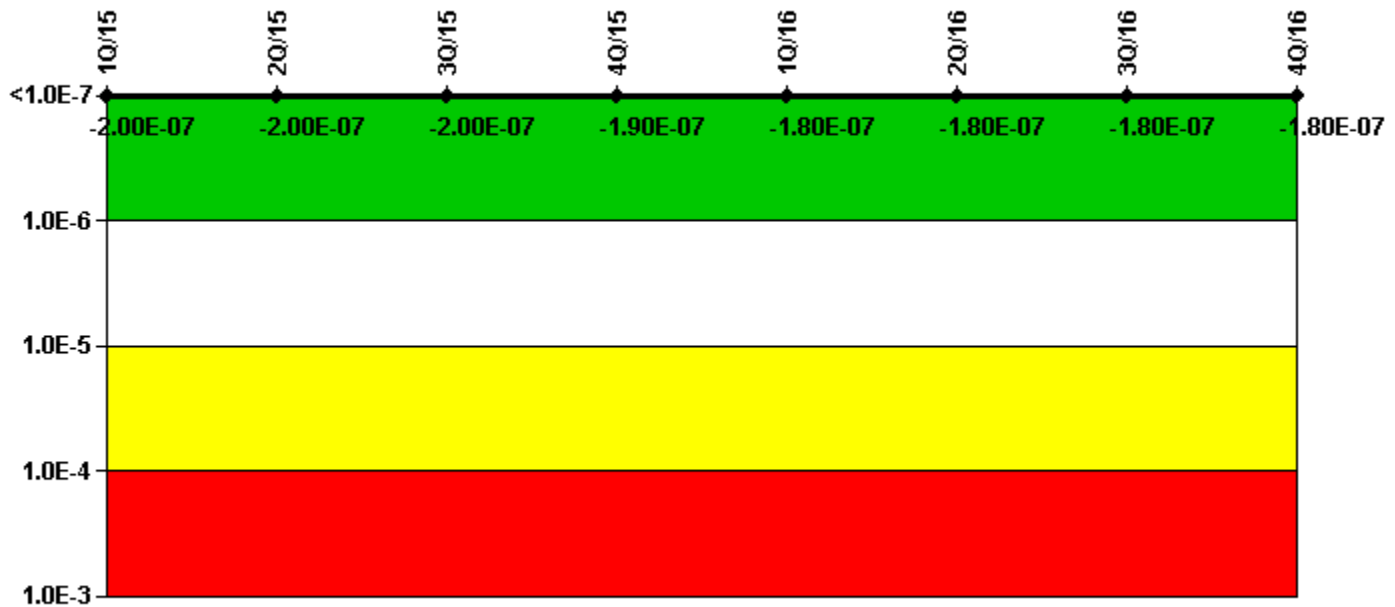
Mitigating Systems Performance Index, Emergency AC Power System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (ΔCDF)	1.12E-07	2.22E-08	5.53E-09	6.75E-08	5.92E-08	9.77E-08	1.25E-07	1.31E-07
URI (ΔCDF)	-5.42E-08	-5.38E-08	-5.05E-08	-5.05E-08	-5.92E-08	-4.61E-08	1.38E-07	1.43E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.80E-08	-3.20E-08	-4.50E-08	1.70E-08	-7.40E-11	5.20E-08	2.60E-07	2.70E-07

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	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
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	-1.26E-07	-1.12E-07	-1.01E-07	-1.01E-07	-1.01E-07	-1.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-07	-2.00E-07	-2.00E-07	-1.90E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



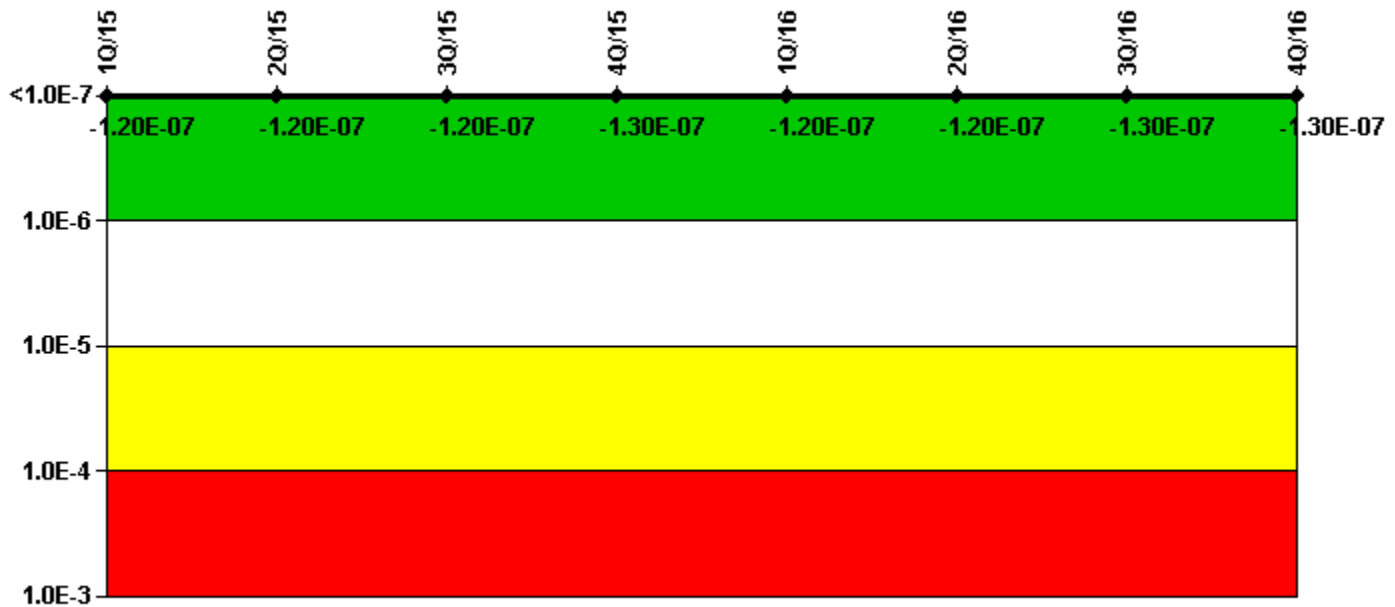
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	-6.18E-09	-6.19E-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	-1.77E-08	-1.76E-08	-1.76E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.40E-08

Licensee Comments: none

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



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

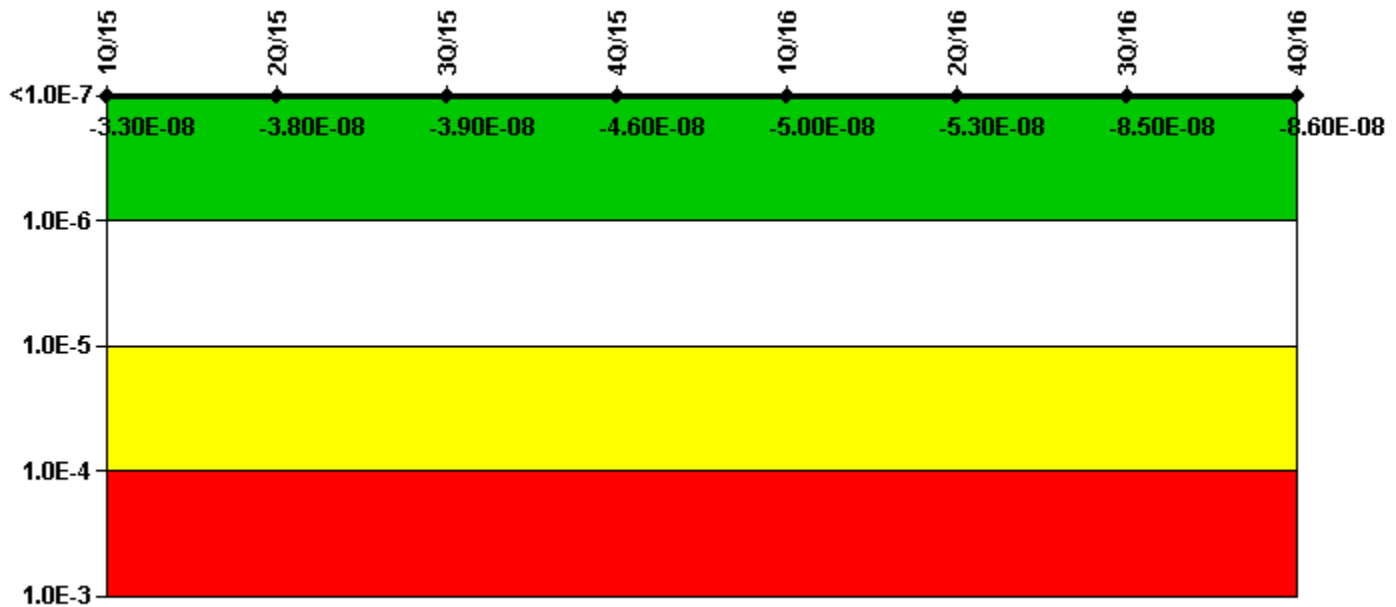
#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	-1.22E-09	-2.28E-09	-6.82E-09	-1.18E-08	-1.18E-08	-1.18E-08	-1.18E-08	-9.71E-09
URI ( $\Delta$ CDF)	-1.14E-07	-1.15E-07	-1.14E-07	-1.14E-07	-1.11E-07	-1.13E-07	-1.14E-07	-1.15E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-07	-1.20E-07	-1.20E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.30E-07	-1.30E-07

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



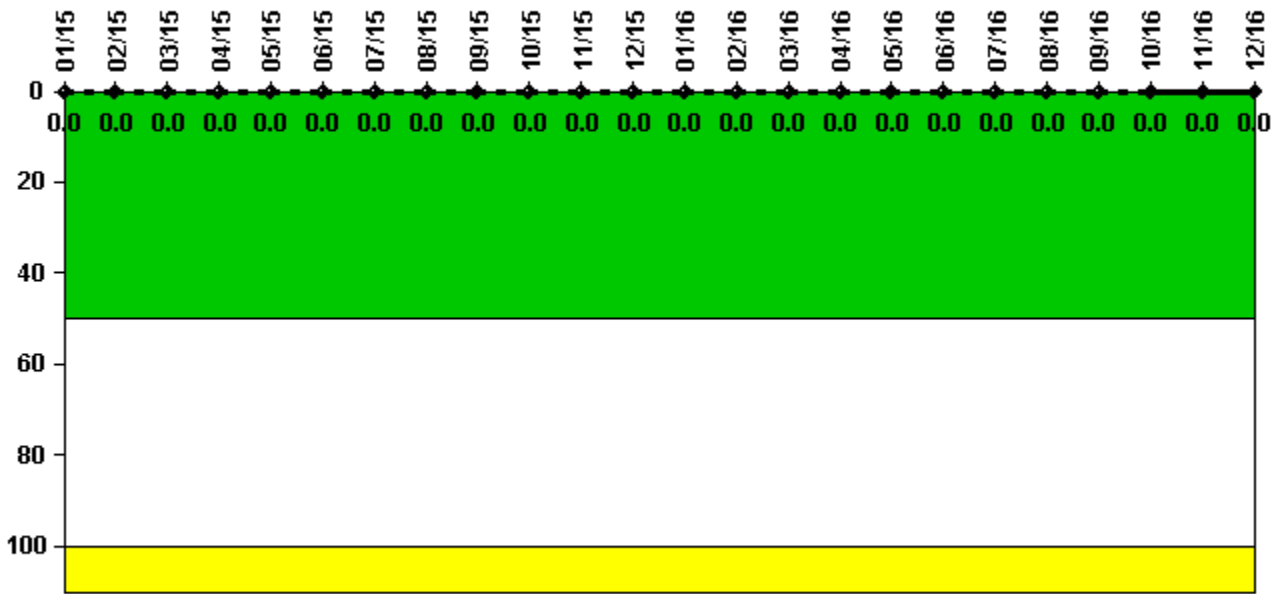
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	5.14E-08	4.96E-08	4.96E-08	4.48E-08	3.91E-08	3.79E-08	3.68E-09	3.64E-09
URI ( $\Delta$ CDF)	-8.47E-08	-8.72E-08	-8.90E-08	-9.07E-08	-8.93E-08	-9.11E-08	-8.85E-08	-8.94E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.30E-08	-3.80E-08	-3.90E-08	-4.60E-08	-5.00E-08	-5.30E-08	-8.50E-08	-8.60E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

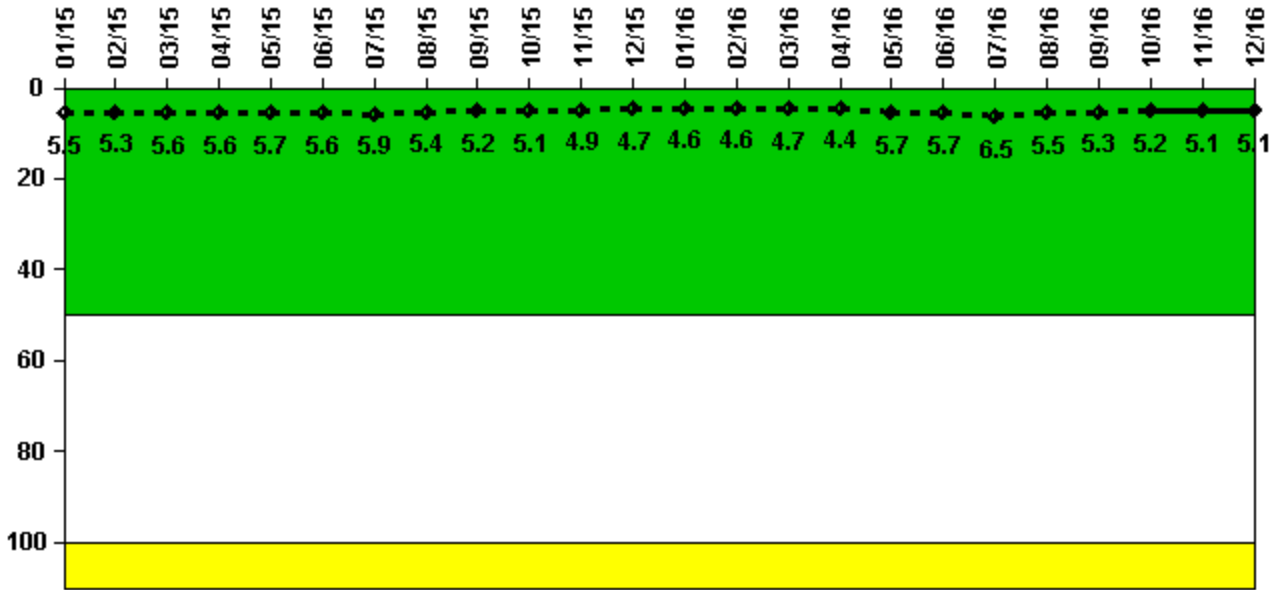
Reactor Coolant System Activity	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum activity	0.000016	0.000020	0.000010	0.000012	0.000013	0.000016	0.000016	0.000016	0.000013	0.000013	0.000010	0.000005
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	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	0.000010	0.000008	0.000007	0.000012	0.000030	0.000017	0.000017	0.000013	0.000017	0.000018	0.000021	0.000018
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

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

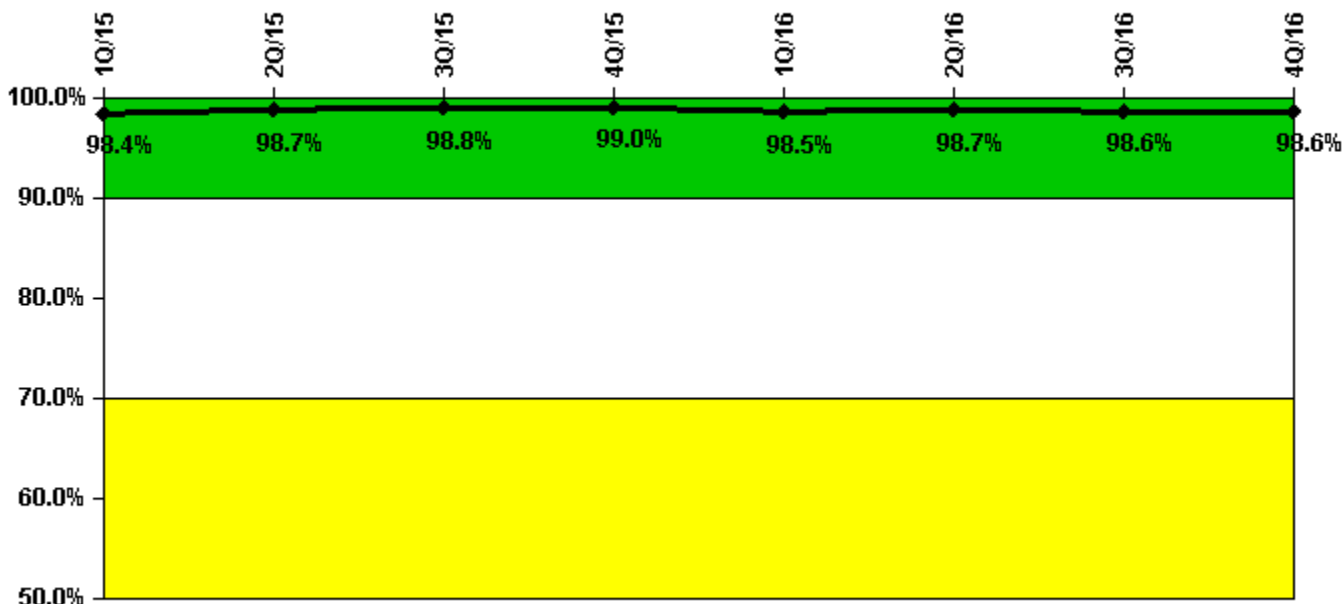
Reactor Coolant System Leakage	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum leakage	1.660	1.600	1.690	1.690	1.710	1.670	1.760	1.630	1.560	1.540	1.470	1.420
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	5.5	5.3	5.6	5.6	5.7	5.6	5.9	5.4	5.2	5.1	4.9	4.7

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	1.380	1.370	1.400	1.330	1.720	1.700	1.950	1.640	1.600	1.570	1.540	1.520
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
Indicator value	4.6	4.6	4.7	4.4	5.7	5.7	6.5	5.5	5.3	5.2	5.1	5.1

Licensee Comments: none

### Drill/Exercise Performance



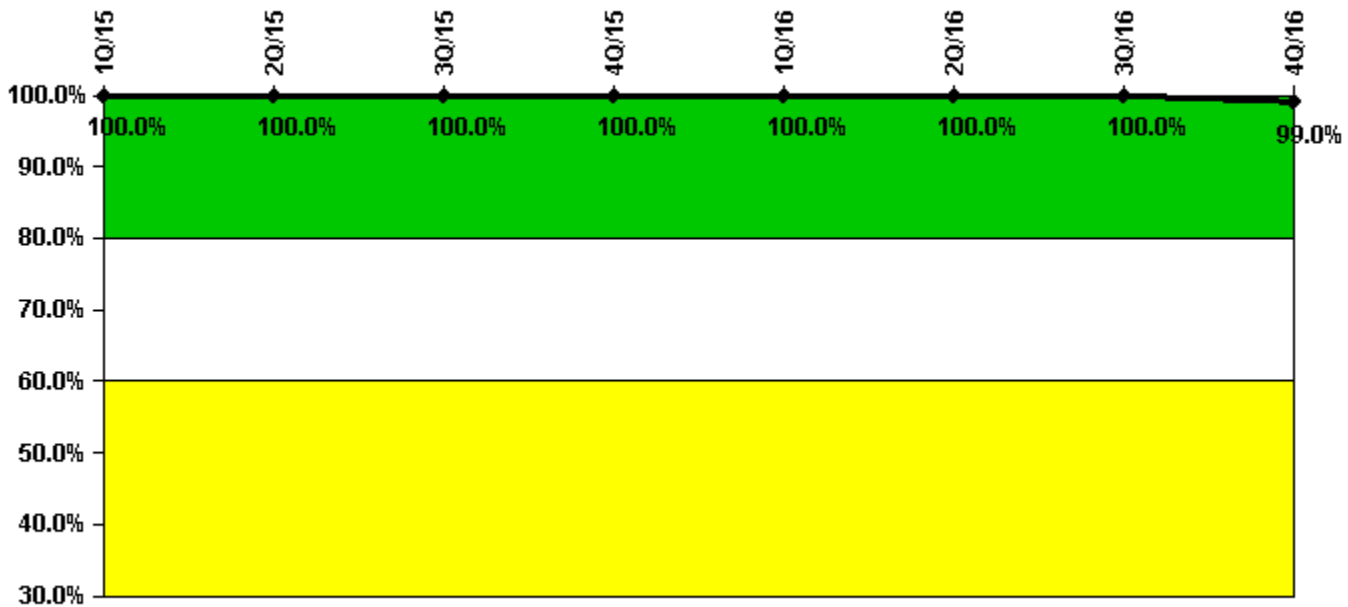
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful opportunities	26.0	53.0	58.0	41.0	22.0	55.0	53.0	36.0
Total opportunities	26.0	55.0	58.0	42.0	24.0	55.0	53.0	36.0
Indicator value	98.4%	98.7%	98.8%	99.0%	98.5%	98.7%	98.6%	98.6%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

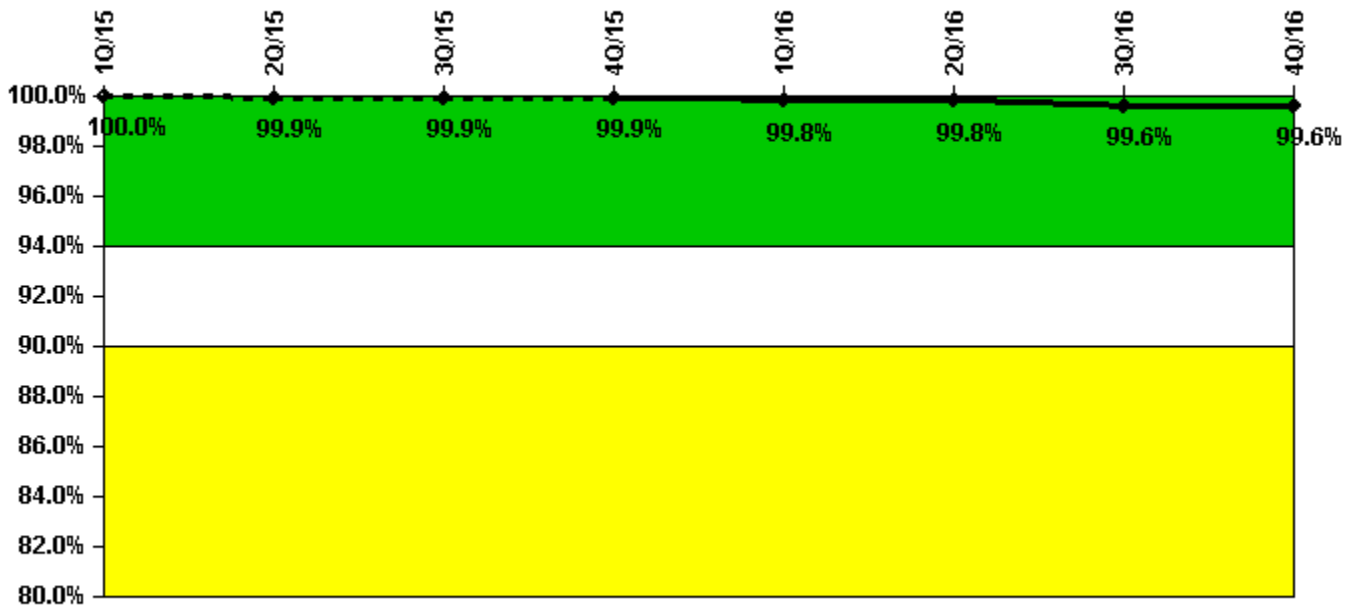
#### Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	109.0	107.0	101.0	105.0	99.0	85.0	85.0	95.0
Total Key personnel	109.0	107.0	101.0	105.0	99.0	85.0	85.0	96.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.0%

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



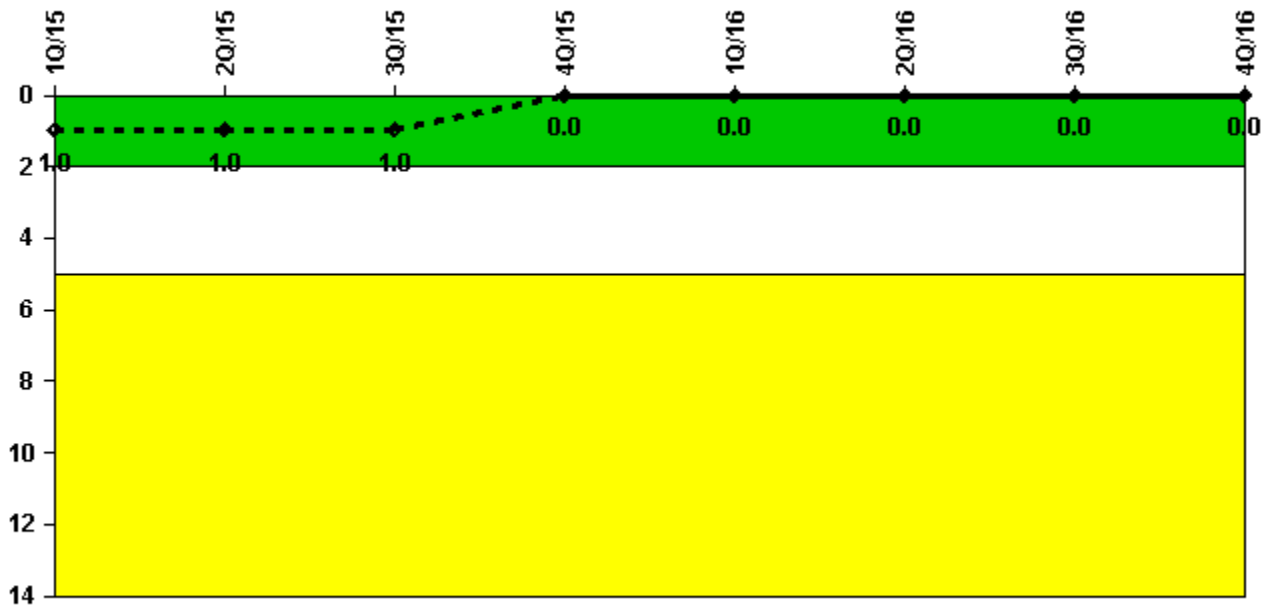
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful siren-tests	960	1039	1117	1039	1038	1036	1032	1117
Total sirens-tests	960	1040	1120	1040	1040	1040	1040	1120
Indicator value	100.0%	99.9%	99.9%	99.9%	99.8%	99.8%	99.6%	99.6%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
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>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

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.



▲ [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

*Last Modified: January 24, 2017*