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Peach Bottom 2 – Quarterly Performance Indicators

2Q/2017 Performance Indicators

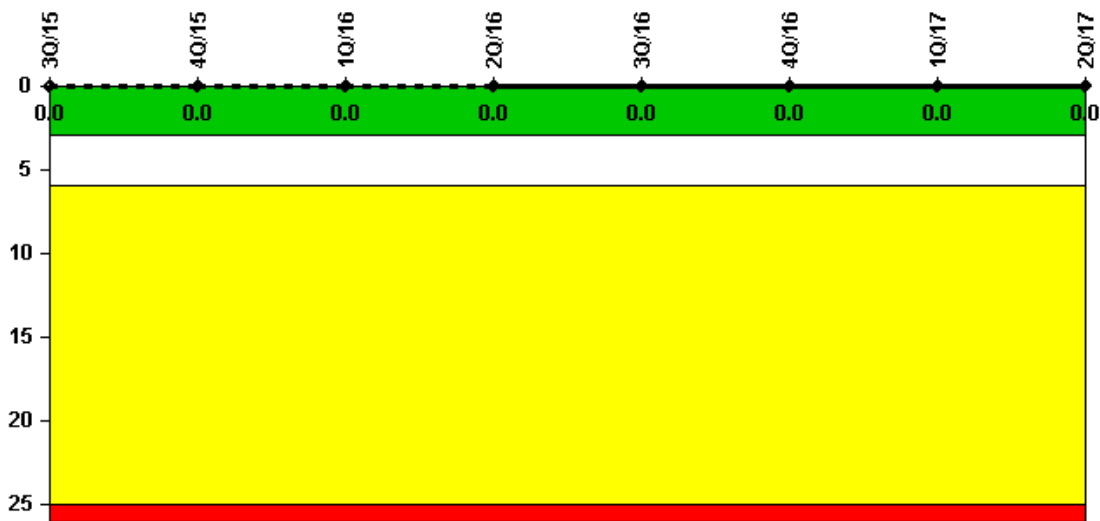
The solid trend line represents the current reporting period.

Licensee's General Comments: Change report for update in MSPI determination.

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 \(MS06\)](#)
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- [Reactor Coolant System Activity \(BI01\)](#)
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- [Alert and Notification System Reliability \(EP03\)](#)
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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

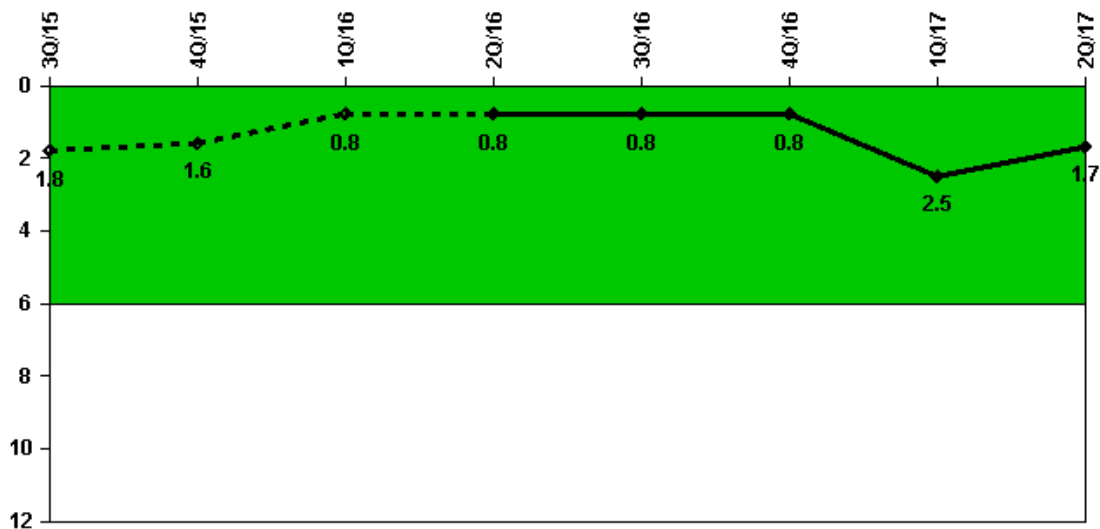
Unplanned Scrams per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2161.3	2183.0	2184.0	2208.0	1797.1	2159.0	2184.0

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

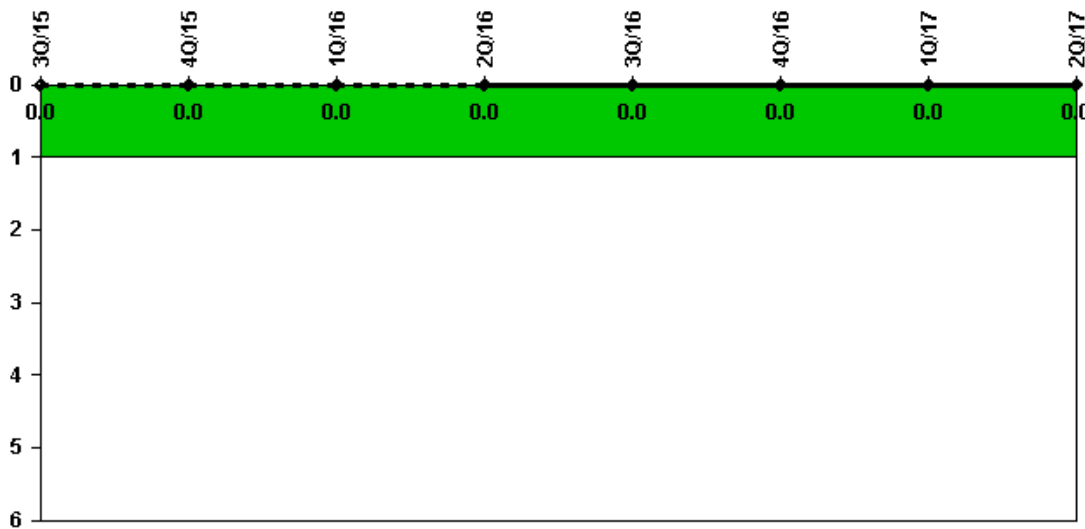
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned power changes	0	0	0	1.0	0	0	2.0	0
Critical hours	2208.0	2161.3	2183.0	2184.0	2208.0	1797.1	2159.0	2184.0
Indicator value	1.8	1.6	0.8	0.8	0.8	0.8	2.5	1.7

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Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

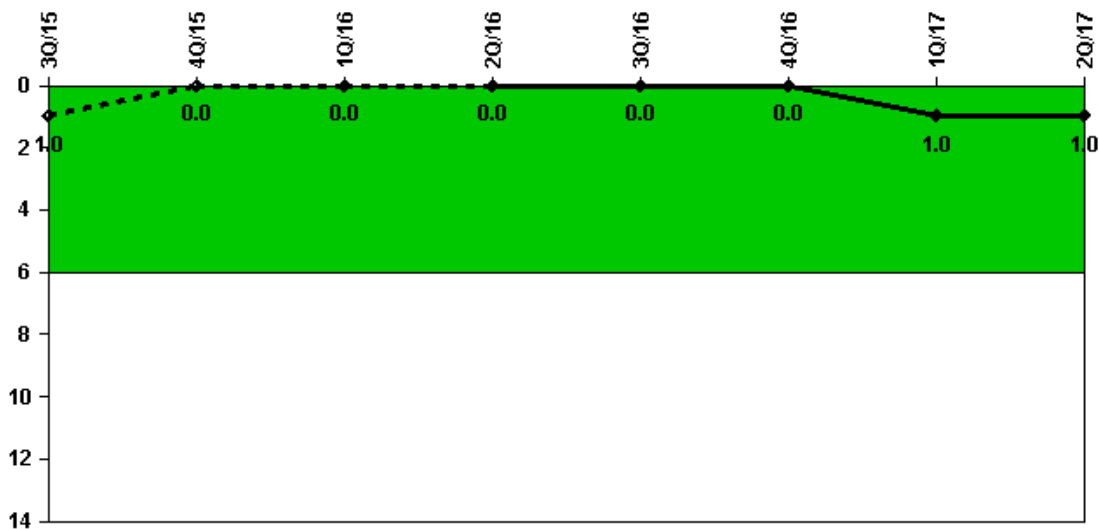
Notes

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

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Licensee Comments: none

Safety System Functional Failures (BWR)



Thresholds: White > 6.0

Notes

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

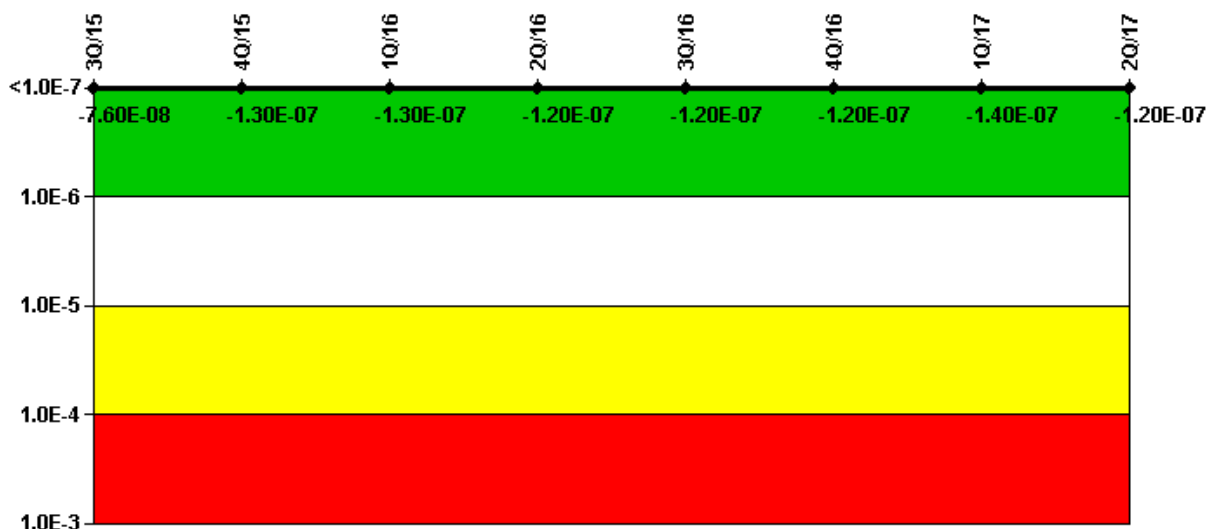
Safety System Functional Failures 0 0 0 0 0 0 1 0

Indicator value 1 0 0 0 0 0 1 1

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Licensee Comments:
1Q/17: LER 2-17-001

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

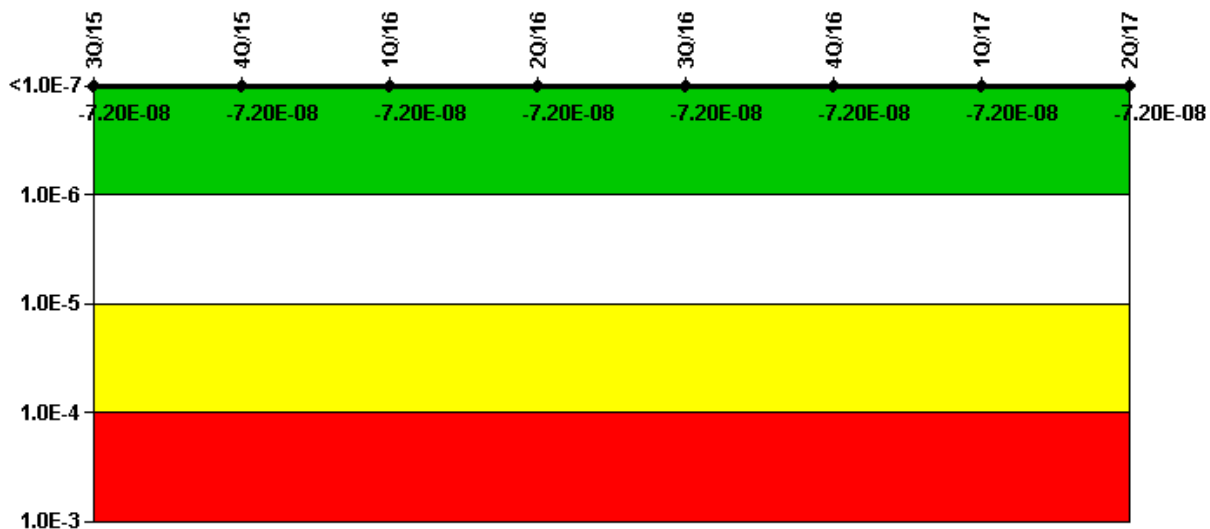
Mitigating Systems Performance Index, Emergency AC Power System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	4.45E-09	-1.57E-09	-5.70E-09	4.33E-09	1.66E-09	4.04E-09	-1.02E-08	7.35E-09
URI (ΔCDF)	-8.08E-08	-1.26E-07	-1.25E-07	-1.26E-07	-1.24E-07	-1.27E-07	-1.29E-07	-1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.60E-08	-1.30E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.40E-07	-1.20E-07

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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

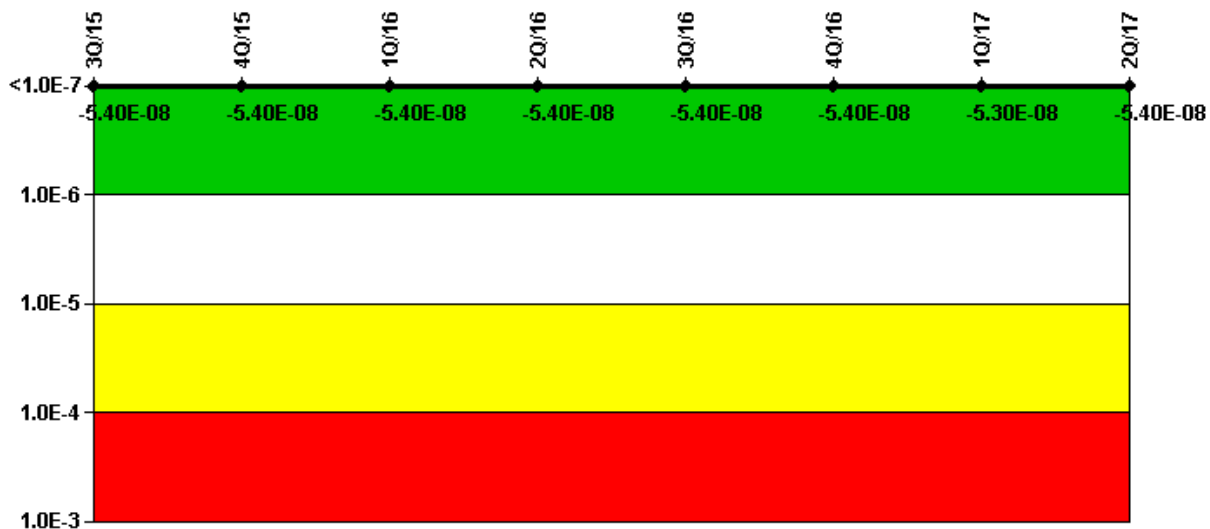
Mitigating Systems Performance Index, High Pressure Injection System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-2.86E-08	-2.86E-08	-2.86E-08	-2.86E-08	-2.86E-08	-2.86E-08	-2.86E-08	-2.86E-08
URI (ΔCDF)	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.20E-08	-7.20E-08	-7.20E-08	-7.20E-08	-7.20E-08	-7.20E-08	-7.20E-08	-7.20E-08

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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

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-1.79E-08	-1.79E-08	-1.79E-08	-1.79E-08	-1.79E-08	-1.79E-08	-1.66E-08	-1.79E-08
URI (Δ CDF)	-3.62E-08	-3.62E-08	-3.62E-08	-3.62E-08	-3.62E-08	-3.62E-08	-3.62E-08	-3.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.40E-08	-5.40E-08	-5.40E-08	-5.40E-08	-5.40E-08	-5.40E-08	-5.30E-08	-5.40E-08

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Licensee Comments:

1Q/17: Change report for MO-2-13-132 determined not to be an MSPI failure.

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

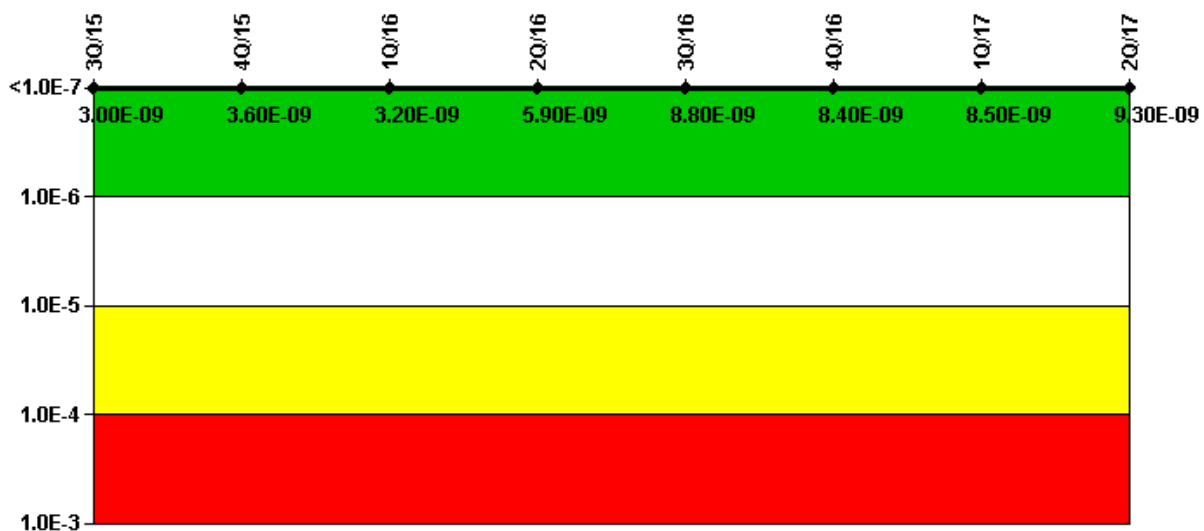
Mitigating Systems Performance Index, Residual Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-1.34E-10	-1.35E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
URI (Δ CDF)	-4.86E-10	-4.86E-10	-4.86E-10	-4.86E-10	-4.86E-10	-4.86E-10	-4.86E-10	-4.86E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.20E-10	-6.20E-10	-4.90E-10	-4.90E-10	-4.90E-10	-4.90E-10	-4.90E-10	-4.90E-10

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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

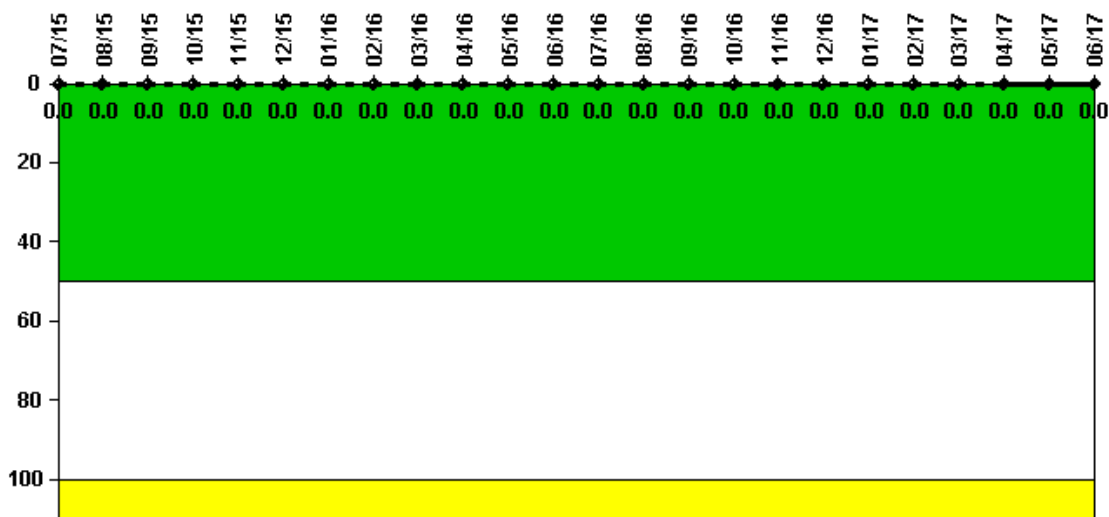
Mitigating Systems Performance Index, Cooling Water Systems

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	5.32E-09	5.99E-09	5.57E-09	5.40E-09	5.44E-09	5.14E-09	5.20E-09	6.07E-09
URI (ΔCDF)	-2.35E-09	-2.35E-09	-2.35E-09	5.18E-10	3.39E-09	3.26E-09	3.26E-09	3.26E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.00E-09	3.60E-09	3.20E-09	5.90E-09	8.80E-09	8.40E-09	8.50E-09	9.30E-09

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Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

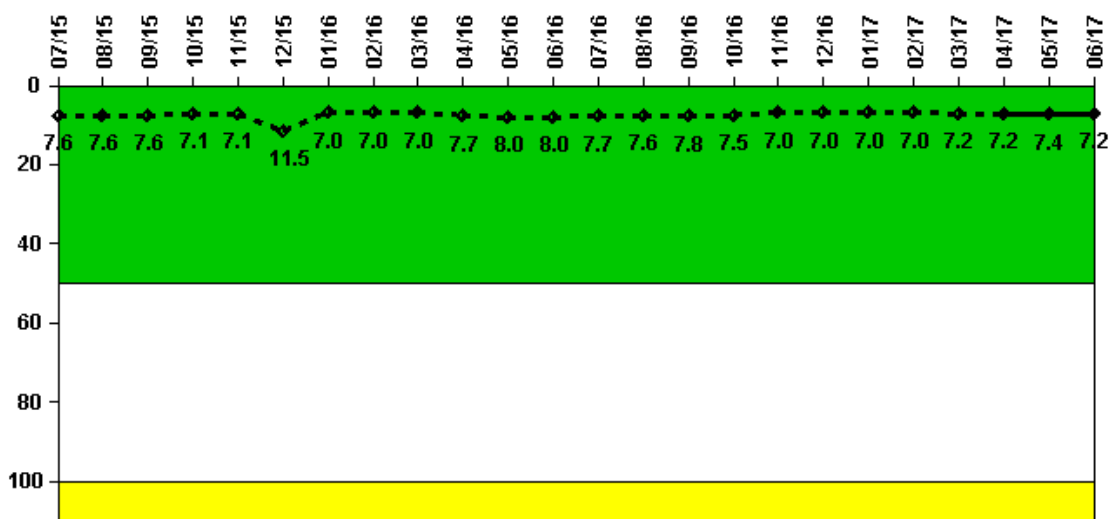
Notes

Reactor Coolant System Activity	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum activity	0.000019	0.000020	0.000020	0.000025	0.000021	0.000023	0.000023	0.000025	0.000020	0.000021	0.000038	0.000026
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	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum activity	0.000030	0.000026	0.000026	0.000023	0.000018	0.000020	0.000020	0.000020	0.000020	0.000018	0.000021	0.000020
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

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Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum leakage	1.900	1.890	1.890	1.780	1.780	2.880	1.750	1.750	1.750	1.930	2.000	2.000
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

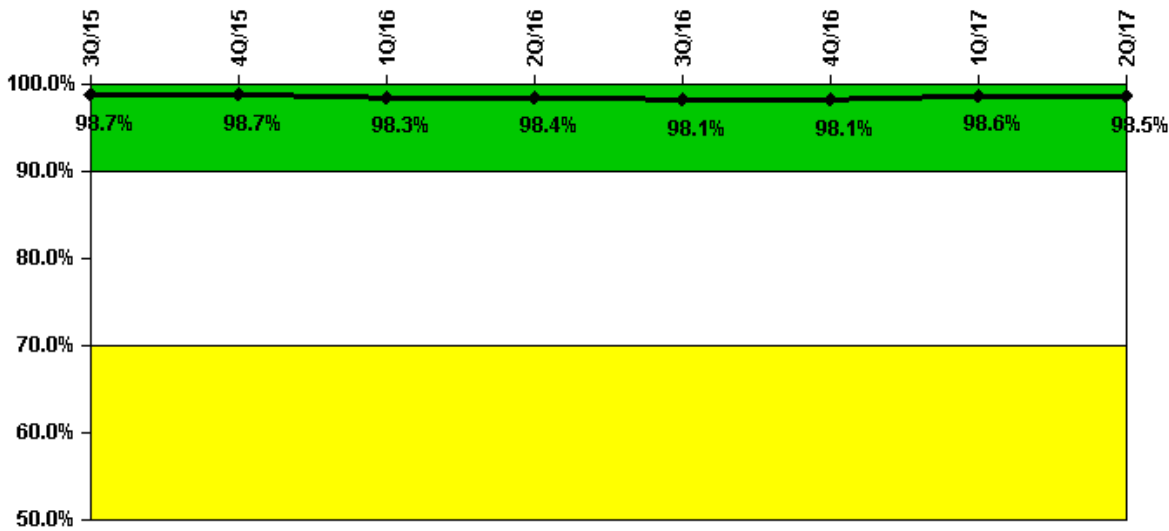
Indicator value	7.6	7.6	7.6	7.1	7.1	11.5	7.0	7.0	7.0	7.7	8.0	8.0
Reactor Coolant System Leakage	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum leakage	1.930	1.890	1.950	1.880	1.740	1.750	1.760	1.760	1.790	1.790	1.850	1.790
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

Indicator value	7.7	7.6	7.8	7.5	7.0	7.0	7.0	7.0	7.2	7.2	7.4	7.2
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Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful opportunities	10.0	30.0	80.0	76.0	23.0	7.0	72.0	38.0
Total opportunities	10.0	30.0	81.0	77.0	24.0	7.0	73.0	39.0

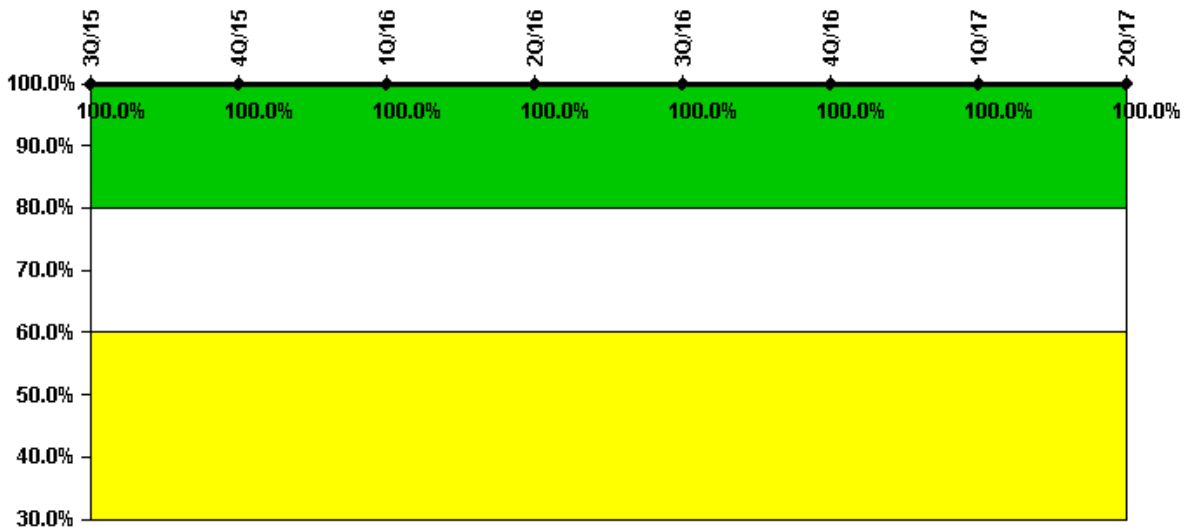
Indicator value **98.7% 98.7% 98.3% 98.4% 98.1% 98.1% 98.6% 98.5%**

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Licensee Comments:

2Q/16: Error in data reporting. Does not affect color indicator.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

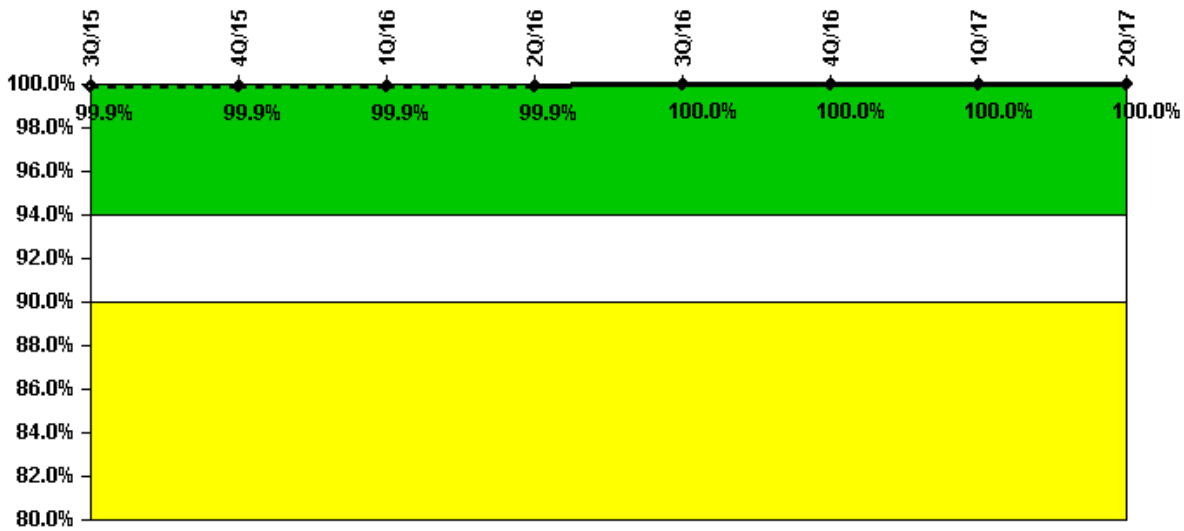
ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	78.0	78.0	72.0	74.0	75.0	72.0	74.0	71.0
Total Key personnel	78.0	78.0	72.0	74.0	75.0	72.0	74.0	71.0

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

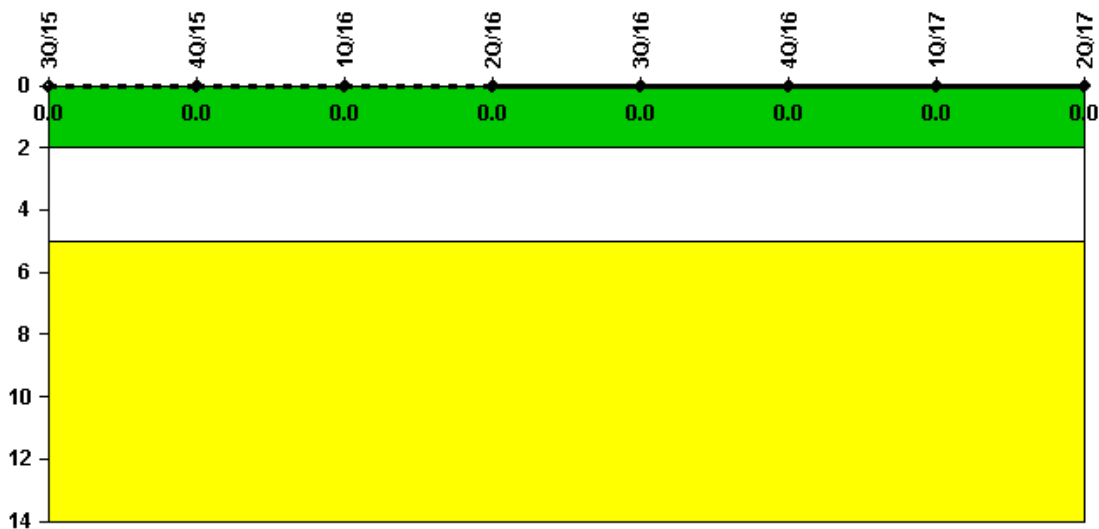
Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	1356	1259	1261	1261	1261	1261	1260	1261
Total sirens-tests	1358	1261	1261	1261	1261	1261	1261	1261

Indicator value **99.9%** **99.9%** **99.9%** **99.9%** **100.0%** **100.0%** **100.0%** **100.0%**

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

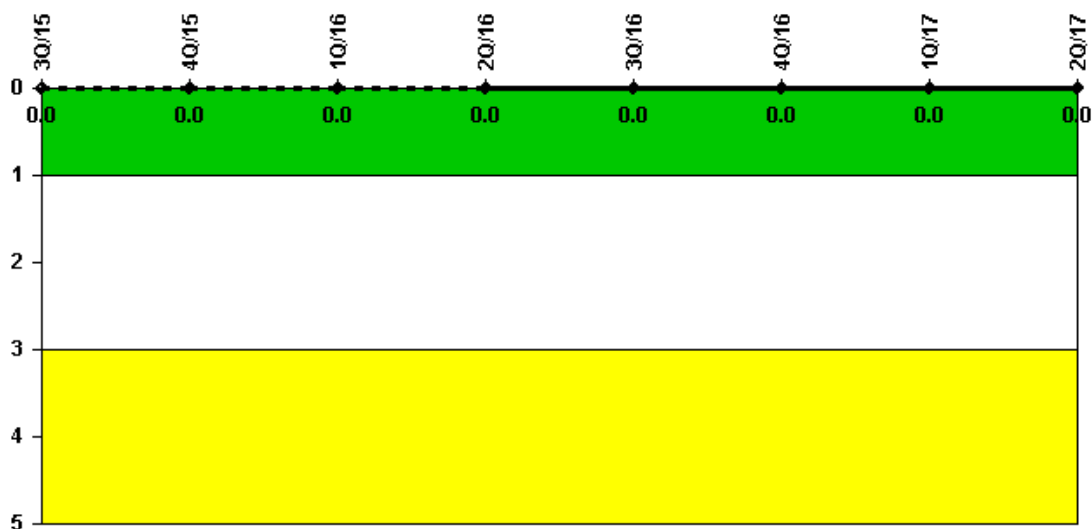
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

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Licensee Comments:

3Q/15: Update to remove High Radiation Area Occurrence per NEI reporting criteria. There was no color or threshold change.

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/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: July 26, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017