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Hatch 2 – Quarterly Performance Indicators

2Q/2017 Performance Indicators

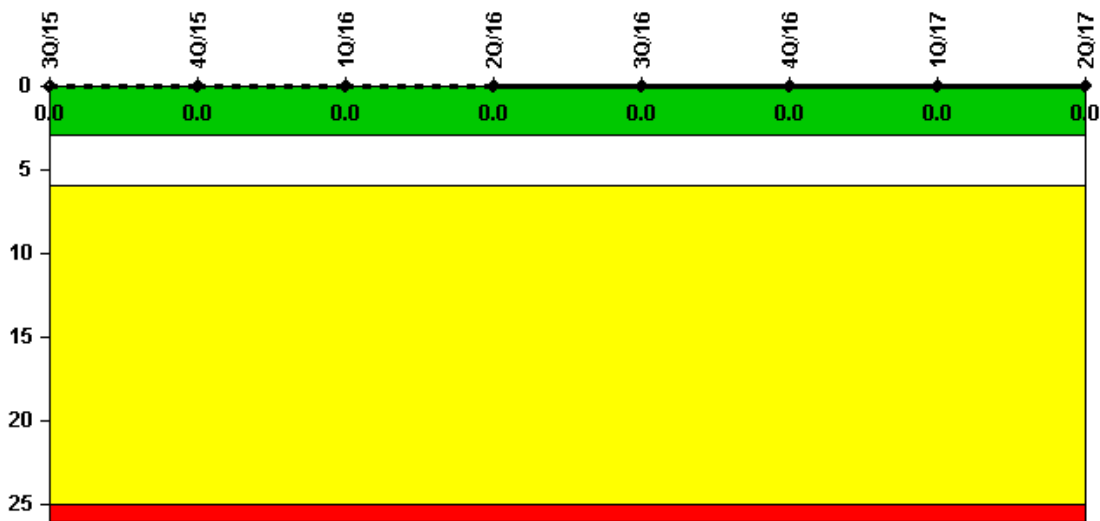
The solid trend line represents the current reporting period.

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)
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- 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

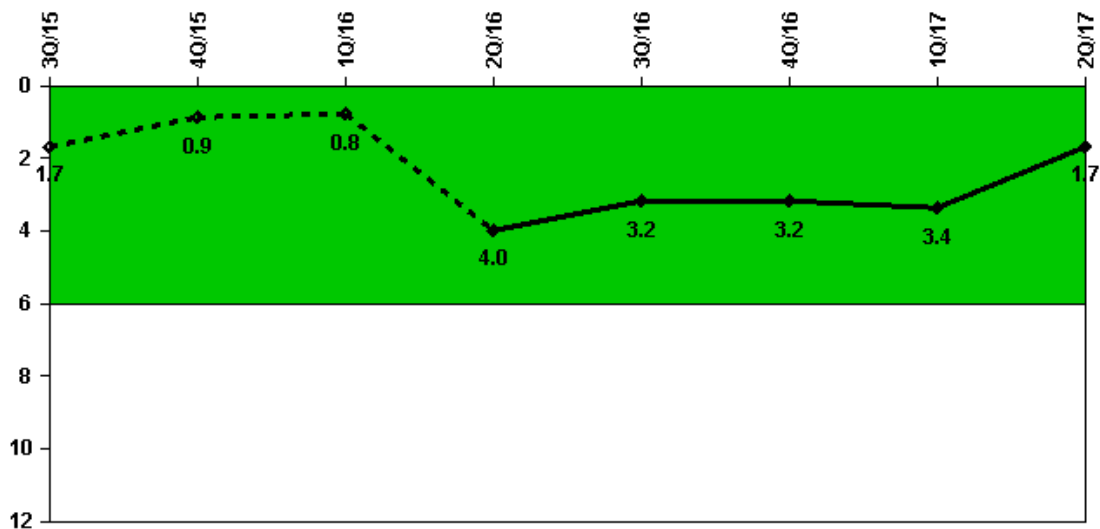
Unplanned Scrams per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	2079.9	2208.0	2209.0	1686.9	2184.0

Indicator value	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
	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

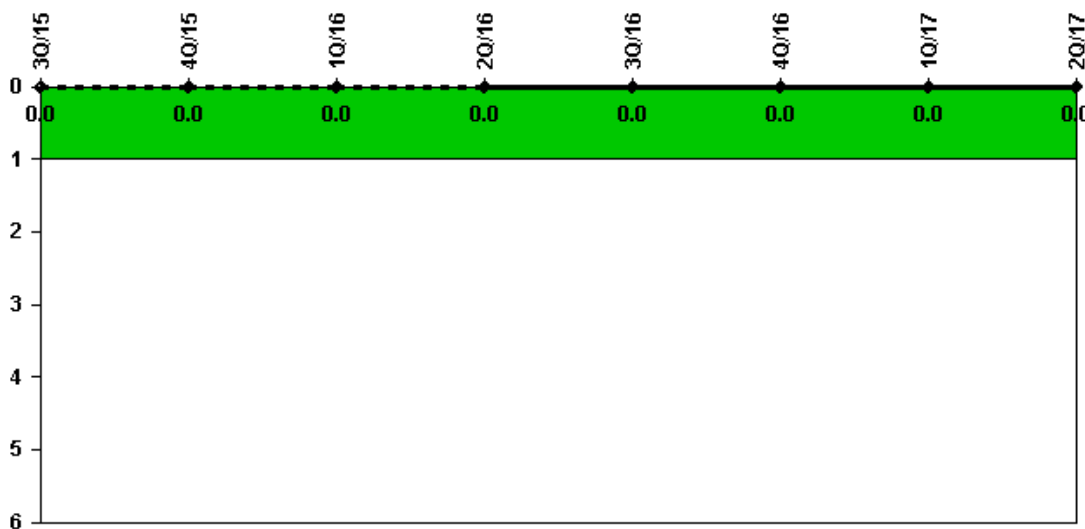
Notes

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	1.0	0	0	4.0	0	0	0	2.0
Critical hours	2208.0	2209.0	2183.0	2079.9	2208.0	2209.0	1686.9	2184.0
Indicator value	1.7	0.9	0.8	4.0	3.2	3.2	3.4	1.7

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Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

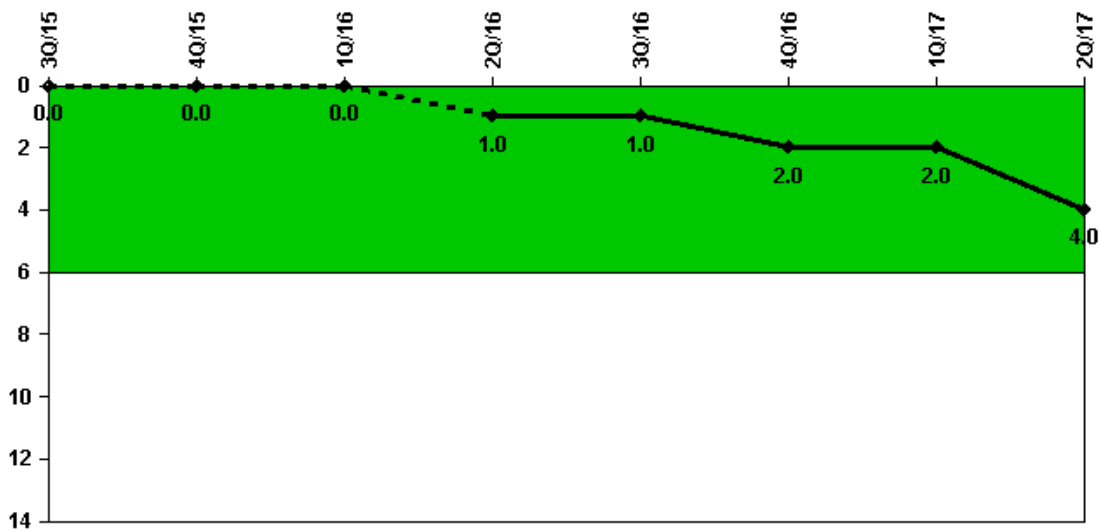
Notes

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 1 0 1 0 3

Indicator value 0 0 0 1 1 2 2 4

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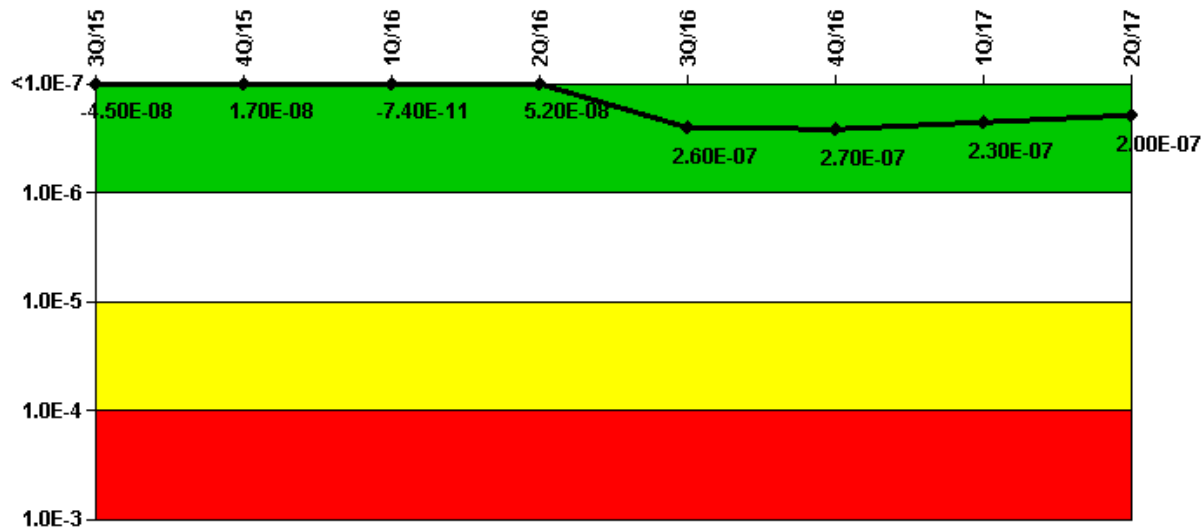
Licensee Comments:

2Q/17: LER's 1-2017-003, 2-2017-003, 1-2017-004

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

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	5.53E-09	6.75E-08	5.92E-08	9.77E-08	1.25E-07	1.31E-07	1.16E-07	5.65E-08
URI (ΔCDF)	-5.05E-08	-5.05E-08	-5.92E-08	-4.61E-08	1.38E-07	1.43E-07	1.13E-07	1.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.50E-08	1.70E-08	-7.40E-11	5.20E-08	2.60E-07	2.70E-07	2.30E-07	2.00E-07

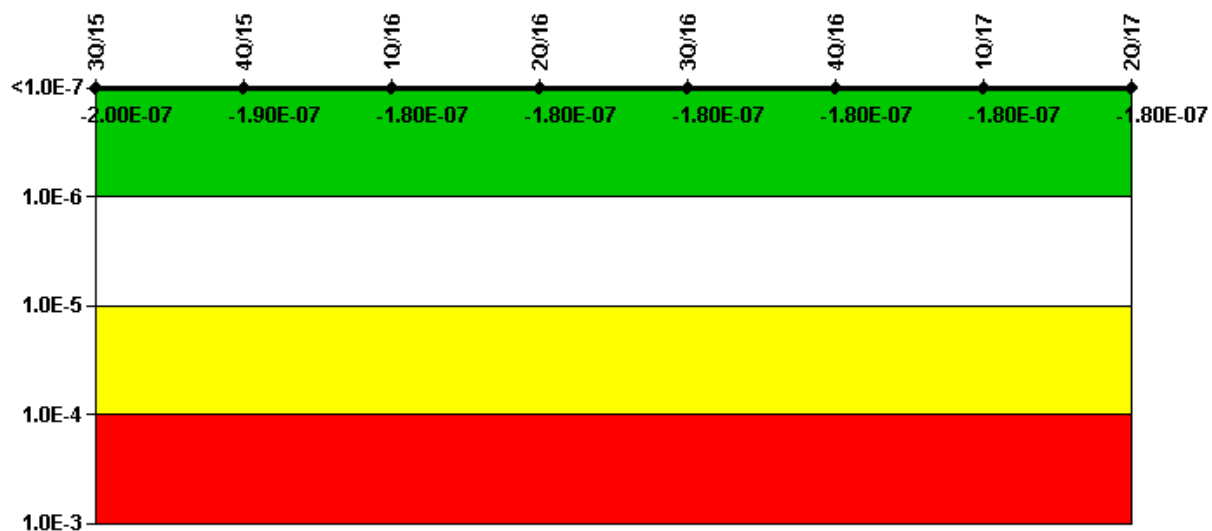
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Licensee Comments:

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

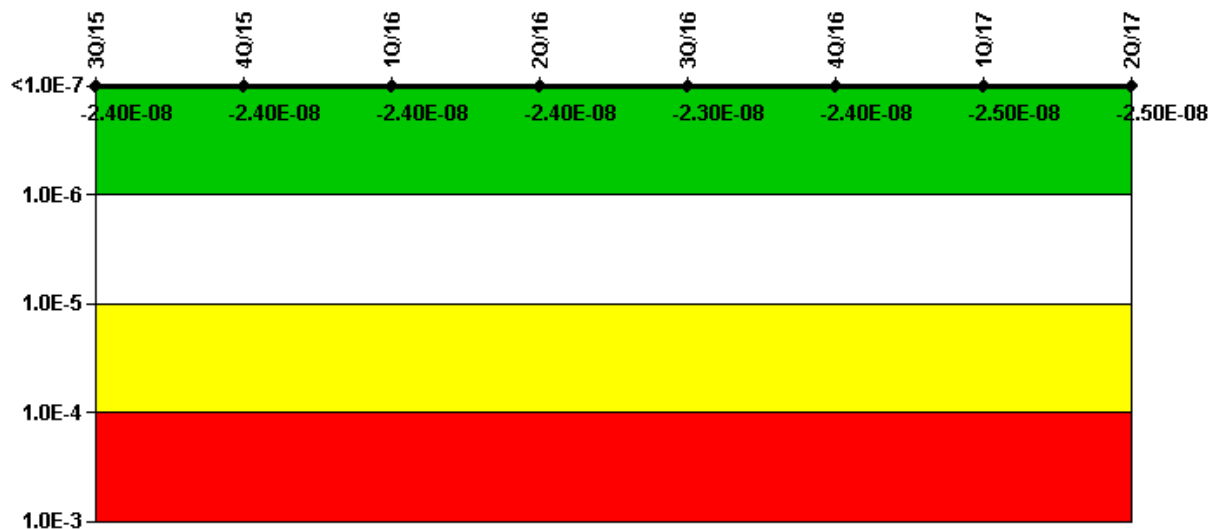
Mitigating Systems Performance Index, High Pressure Injection System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ 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 (Δ CDF)	-1.26E-07	-1.12E-07	-1.01E-07	-1.01E-07	-1.01E-07	-1.01E-07	-1.02E-07	-1.02E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-07	-1.90E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07

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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

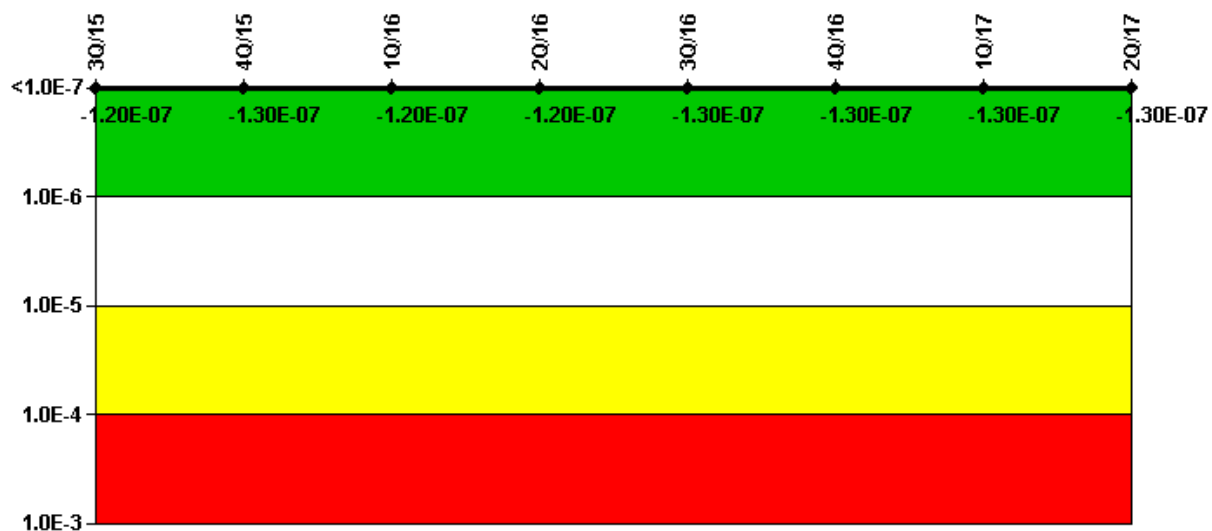
Mitigating Systems Performance Index, Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-6.69E-09	-6.69E-09	-6.69E-09	-6.69E-09	-6.69E-09	-6.69E-09	-6.69E-09	-6.69E-09
URI (Δ CDF)	-1.76E-08	-1.76E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.84E-08	-1.84E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.40E-08	-2.50E-08	-2.50E-08

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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

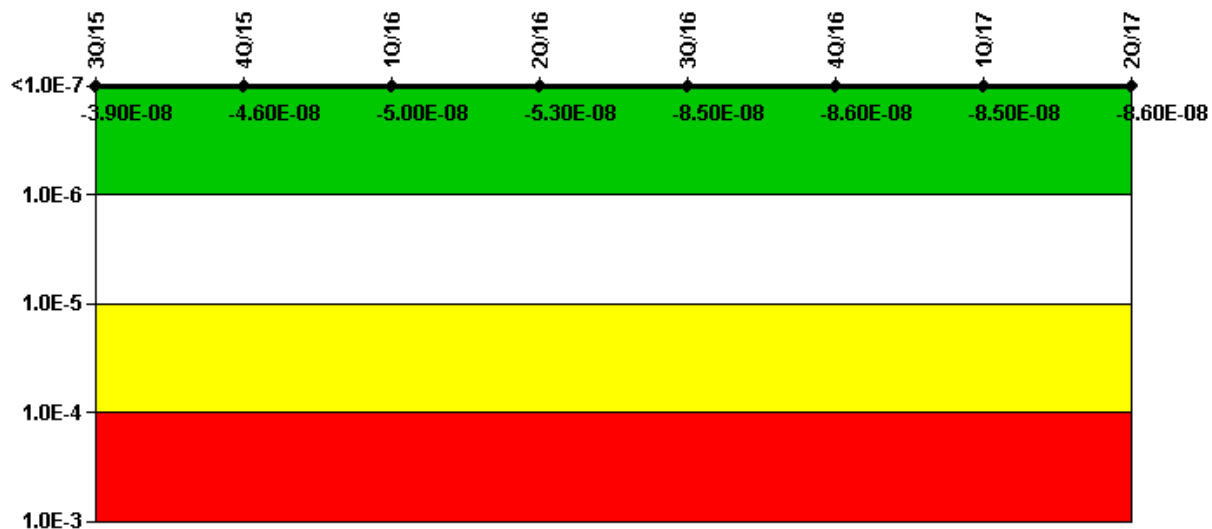
Mitigating Systems Performance Index, Residual Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-6.82E-09	-1.18E-08	-1.18E-08	-1.18E-08	-1.18E-08	-9.71E-09	-8.23E-09	-8.23E-09
URI (Δ CDF)	-1.14E-07	-1.14E-07	-1.11E-07	-1.13E-07	-1.14E-07	-1.15E-07	-1.20E-07	-1.21E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07

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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

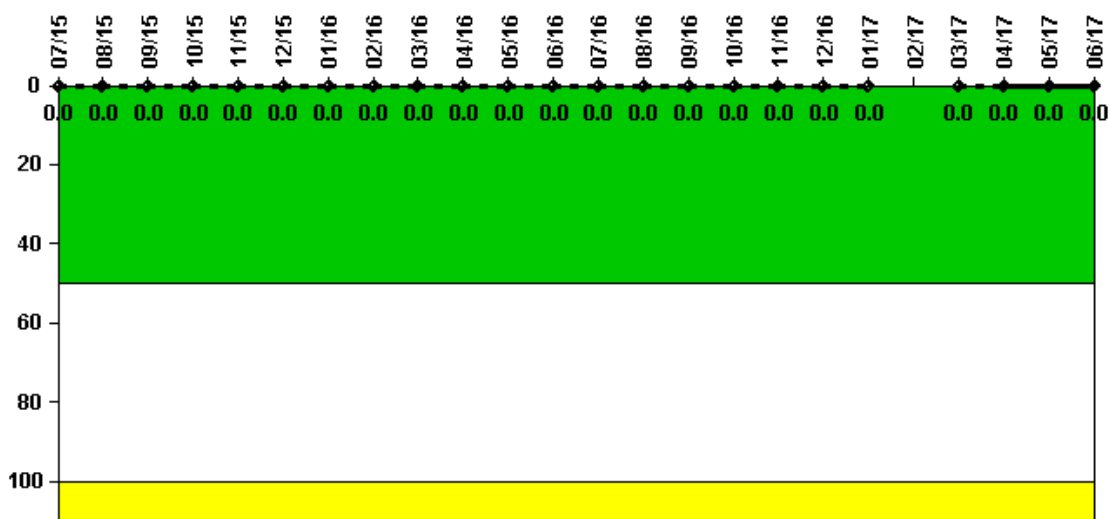
Mitigating Systems Performance Index, Cooling Water Systems

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	4.96E-08	4.48E-08	3.91E-08	3.79E-08	3.68E-09	3.64E-09	3.81E-09	3.81E-09
URI (ΔCDF)	-8.90E-08	-9.07E-08	-8.93E-08	-9.11E-08	-8.85E-08	-8.94E-08	-8.90E-08	-8.93E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.90E-08	-4.60E-08	-5.00E-08	-5.30E-08	-8.50E-08	-8.60E-08	-8.50E-08	-8.60E-08

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Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

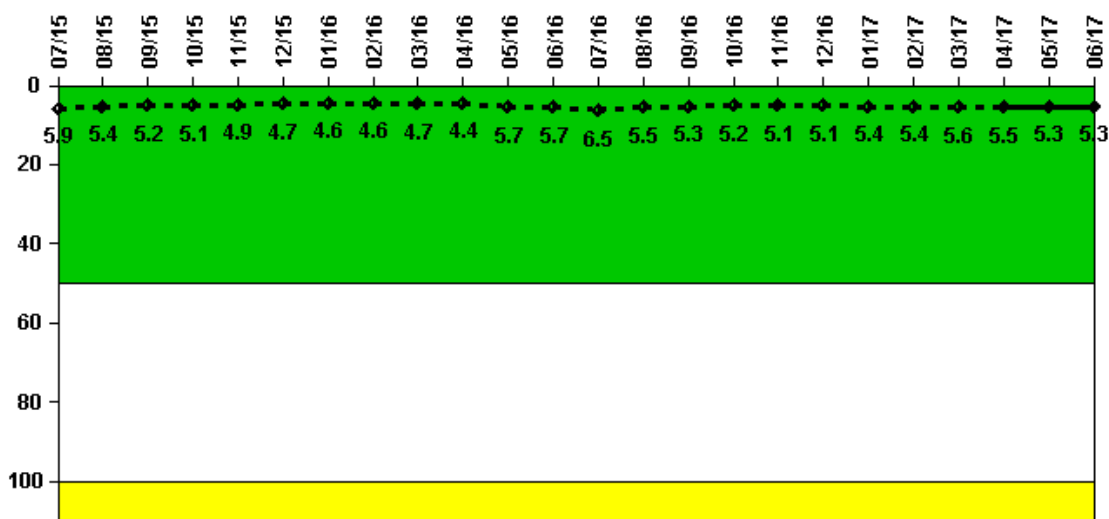
Notes

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	0.000016	0.000016	0.000013	0.000013	0.000010	0.000005	0.000010	0.000008	0.000007	0.000012	0.000030	0.000017
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	0.000017	0.000013	0.000017	0.000018	0.000021	0.000018	0.000014	N/A	0.000005	0.000009	0.000005	0.000006
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	N/A	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	1.760	1.630	1.560	1.540	1.470	1.420	1.380	1.370	1.400	1.330	1.720	1.700
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

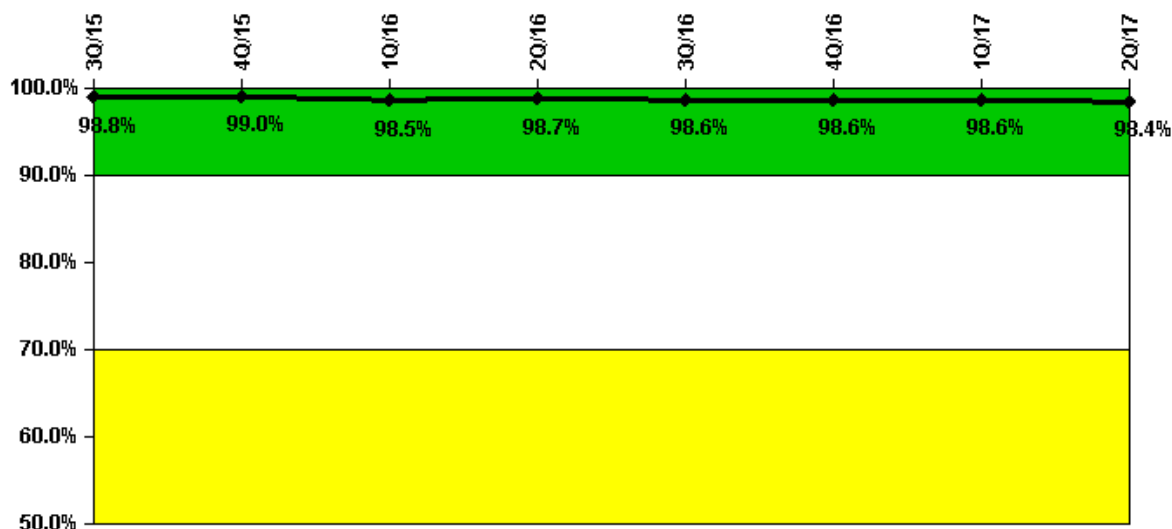
Indicator value	5.9	5.4	5.2	5.1	4.9	4.7	4.6	4.6	4.7	4.4	5.7	5.7
Reactor Coolant System Leakage	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum leakage	1.950	1.640	1.600	1.570	1.540	1.520	1.610	1.620	1.690	1.660	1.600	1.580
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0

Indicator value	6.5	5.5	5.3	5.2	5.1	5.1	5.4	5.4	5.6	5.5	5.3	5.3
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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	58.0	41.0	22.0	55.0	53.0	36.0	24.0	27.0
Total opportunities	58.0	42.0	24.0	55.0	53.0	36.0	24.0	29.0

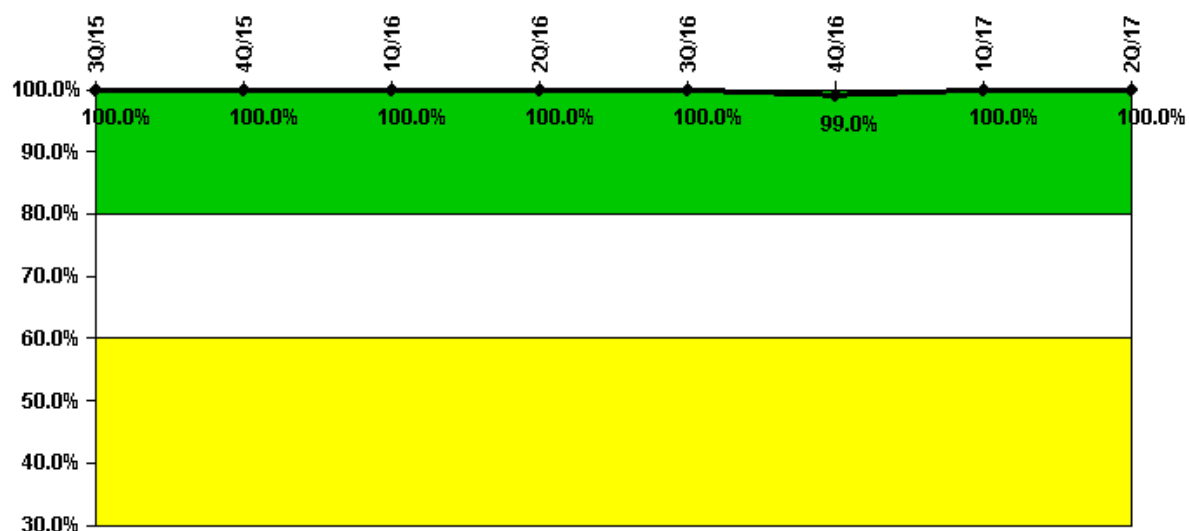
Indicator value **98.8% 99.0% 98.5% 98.7% 98.6% 98.6% 98.6% 98.4%**

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Licensee Comments:

1Q/17: The value for March 2017 was changed to correct previously reported data to include an additional 10 opportunities. The change did not affect the color of the 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	101.0	105.0	99.0	85.0	85.0	95.0	97.0	86.0
Total Key personnel	101.0	105.0	99.0	85.0	85.0	96.0	97.0	86.0

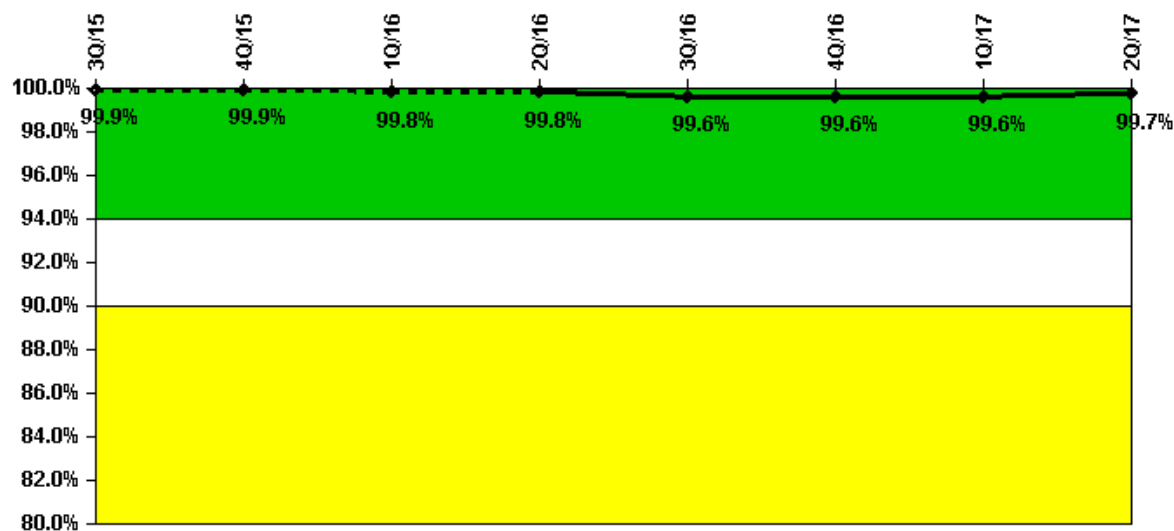
Indicator value **100.0% 100.0% 100.0% 100.0% 100.0% 99.0% 100.0% 100.0%**

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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

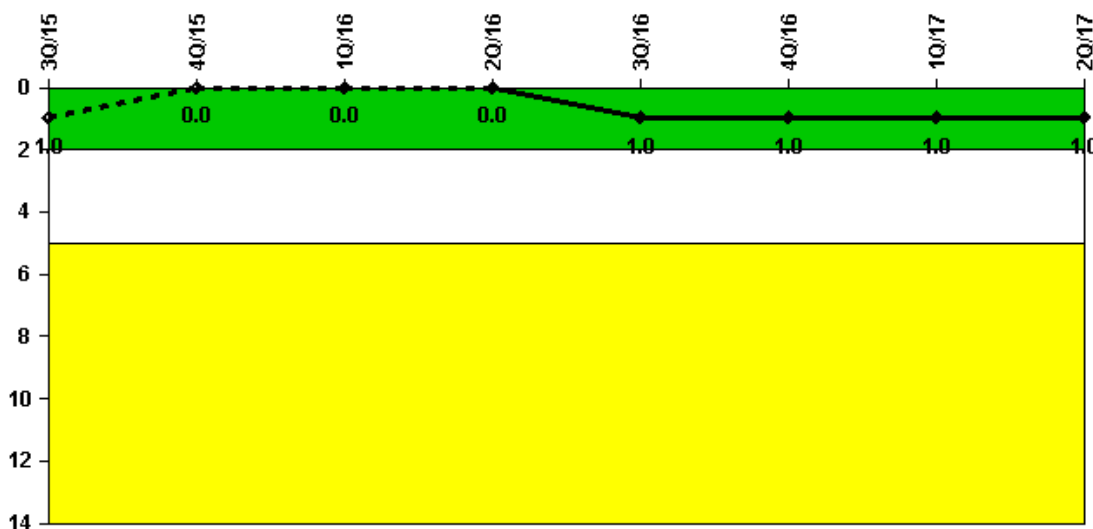
Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	1117	1039	1038	1036	1032	1117	1039	1039
Total sirens-tests	1120	1040	1040	1040	1040	1120	1040	1040

Indicator value **99.9%** **99.9%** **99.8%** **99.8%** **99.6%** **99.6%** **99.6%** **99.7%**

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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

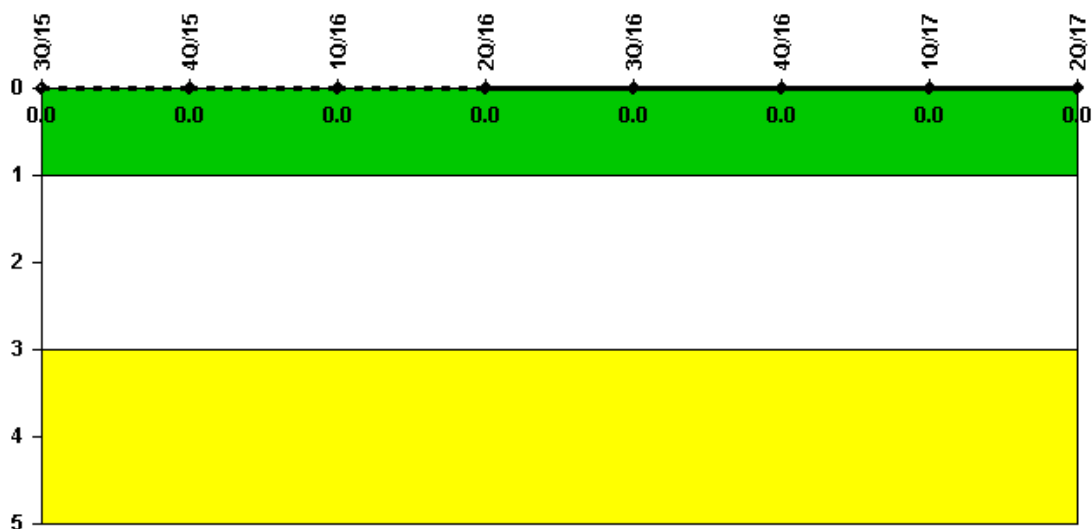
High radiation area occurrences	0	0	0	0	1	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	0	0	0	1	1	1	1

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Licensee Comments:

3Q/16: The number of high radiation area occurrences was changed value from 0 to 1 for the month of September 2016 to include a previously omitted occurrence. The change does not affect the color of the indicator.

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

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: July 26, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017