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Farley 2 – Quarterly Performance Indicators

3Q/2017 Performance Indicators

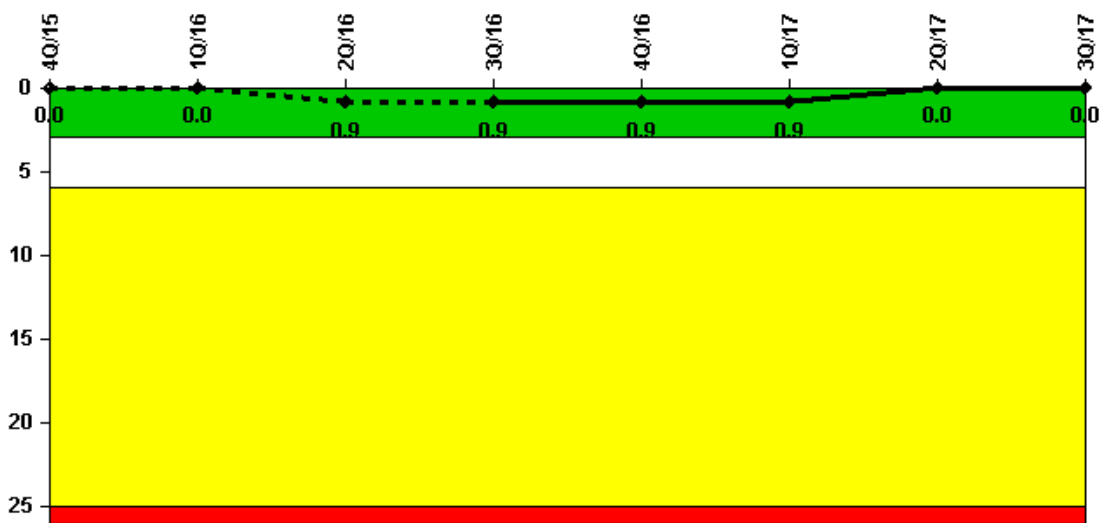
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

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

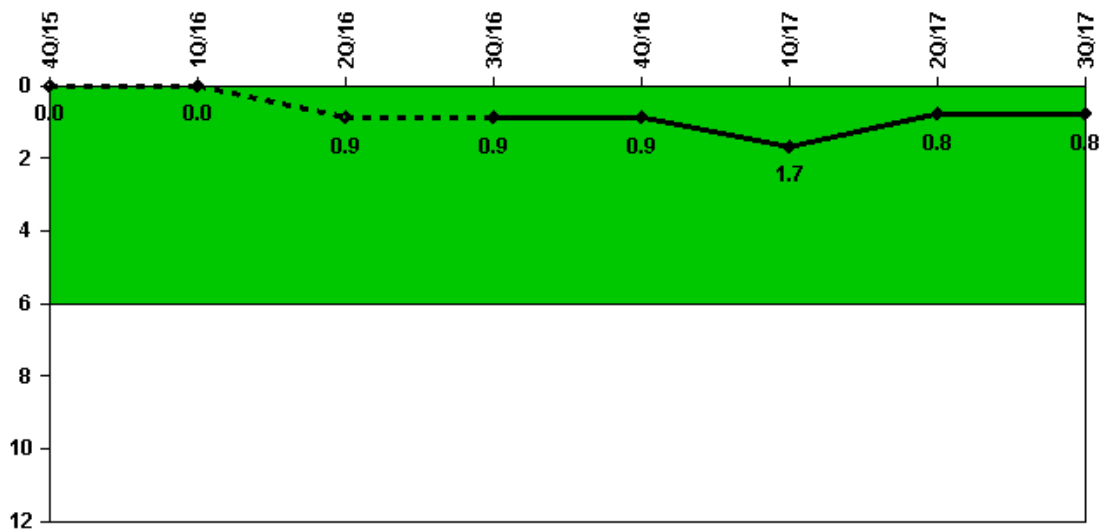
Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2080.2	2183.0	1453.8	2208.0	2209.0	2159.0	2184.0	2208.0

Indicator value	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Indicator value	0	0	0.9	0.9	0.9	0.9	0	0

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Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

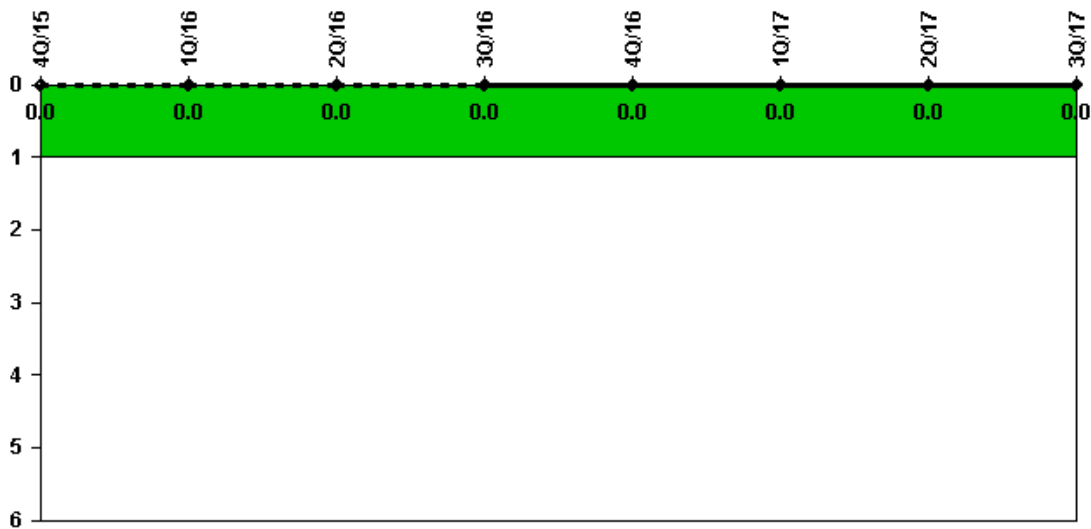
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned power changes	0	0	1.0	0	0	1.0	0	0
Critical hours	2080.2	2183.0	1453.8	2208.0	2209.0	2159.0	2184.0	2208.0
Indicator value	0	0	0.9	0.9	0.9	1.7	0.8	0.8

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Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

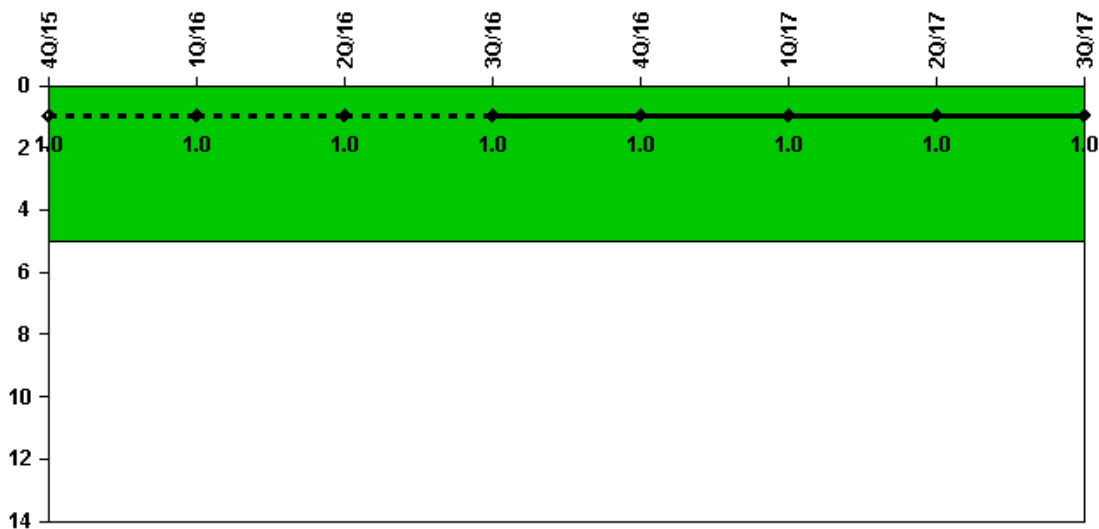
Notes

Unplanned Scrams with Complications	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/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 (PWR)



Thresholds: White > 5.0

Notes

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

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

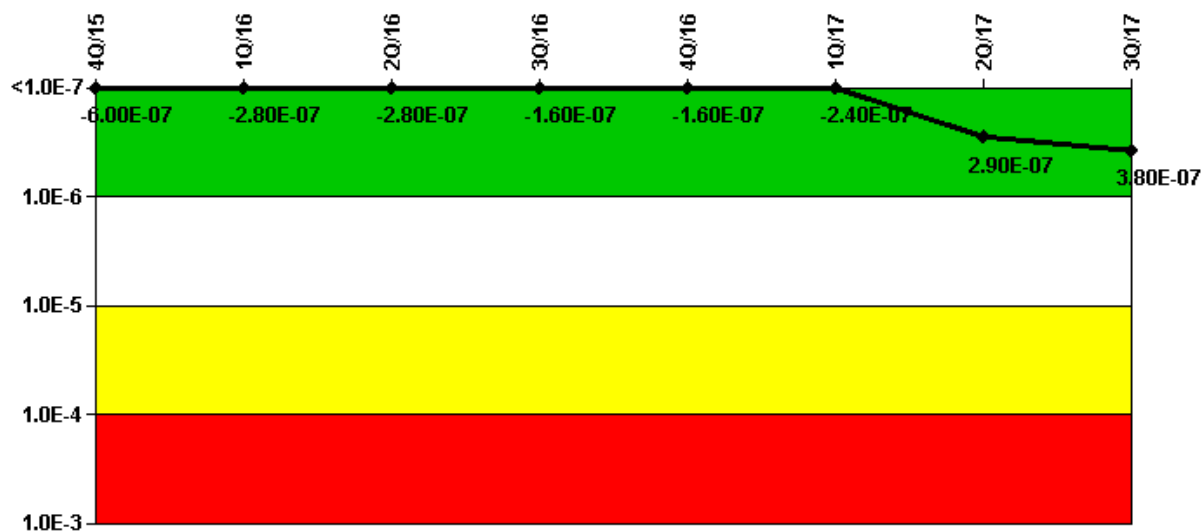
Indicator value 1 1 1 1 1 1 1 1

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Licensee Comments:

1Q/16: LER - 2015 005-00 Turbine Driven Auxiliary Feedwater in a Condition Prohibited by Technical Specifications due to a Design Issue per 10 CFR 50.73(a)(2)(v)(B)

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

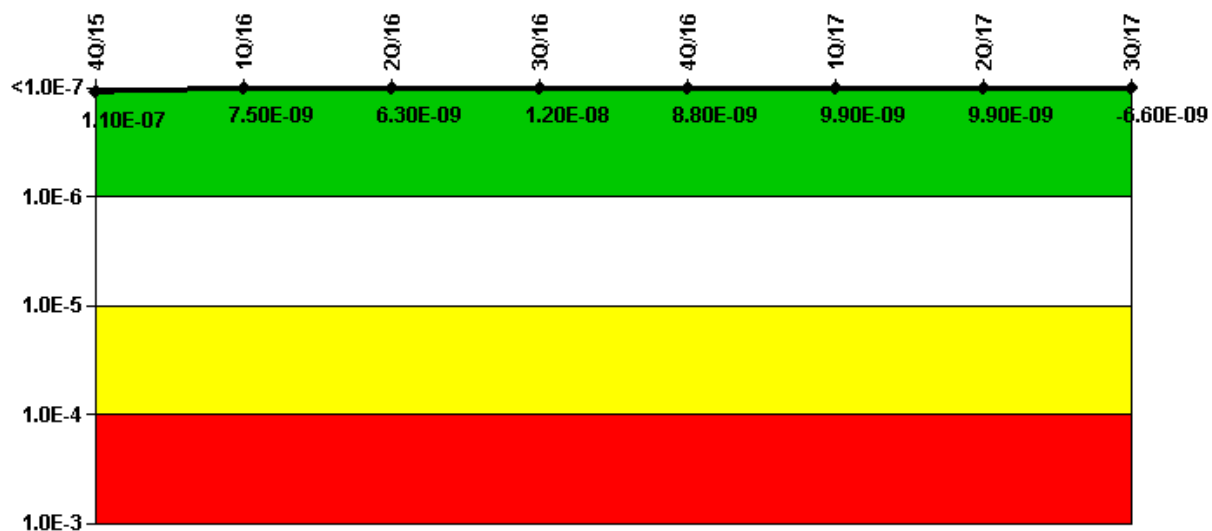
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-3.75E-08	-3.03E-08	-3.01E-08	-1.78E-08	-1.78E-08	-2.55E-08	-1.29E-08	7.01E-08
URI (Δ CDF)	-5.60E-07	-2.47E-07	-2.47E-07	-1.41E-07	-1.42E-07	-2.10E-07	3.05E-07	3.05E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.00E-07	-2.80E-07	-2.80E-07	-1.60E-07	-1.60E-07	-2.40E-07	2.90E-07	3.80E-07

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Licensee Comments:

3Q/16: Changed PRA Parameter(s).

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

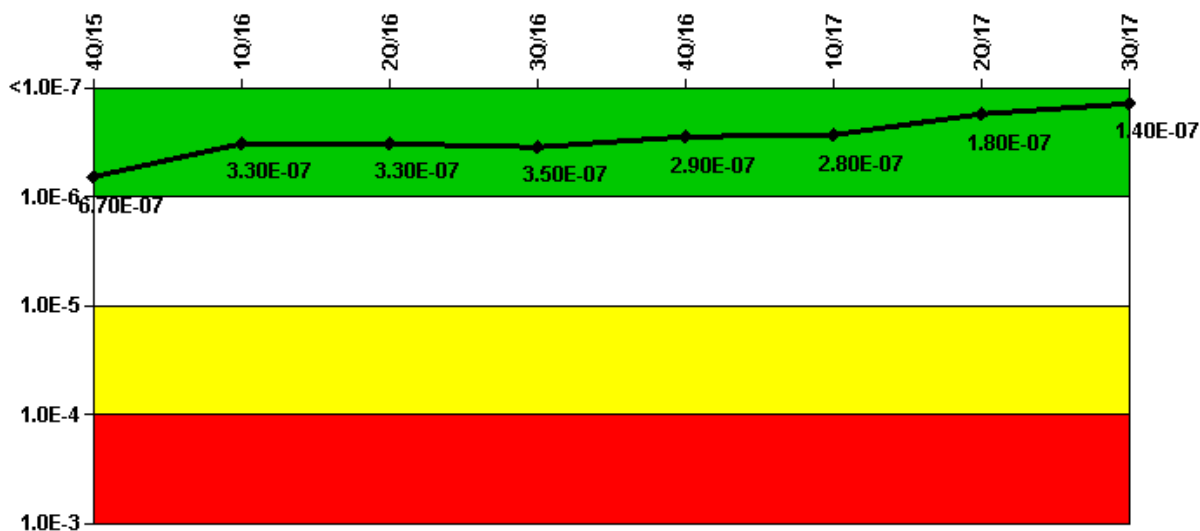
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	1.40E-07	2.19E-08	2.07E-08	1.53E-08	1.20E-08	1.31E-08	1.27E-08	-3.76E-09
URI (Δ CDF)	-2.82E-08	-1.43E-08	-1.43E-08	-3.23E-09	-3.23E-09	-3.23E-09	-2.80E-09	-2.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.10E-07	7.50E-09	6.30E-09	1.20E-08	8.80E-09	9.90E-09	9.90E-09	-6.60E-09

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Licensee Comments:

3Q/16: Changed PRA Parameter(s).

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

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	2.22E-07	1.09E-07	1.03E-07	1.28E-07	6.44E-08	5.06E-08	3.63E-08	-2.50E-09
URI (ΔCDF)	4.44E-07	2.23E-07	2.23E-07	2.26E-07	2.26E-07	2.26E-07	1.42E-07	1.42E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.70E-07	3.30E-07	3.30E-07	3.50E-07	2.90E-07	2.80E-07	1.80E-07	1.40E-07

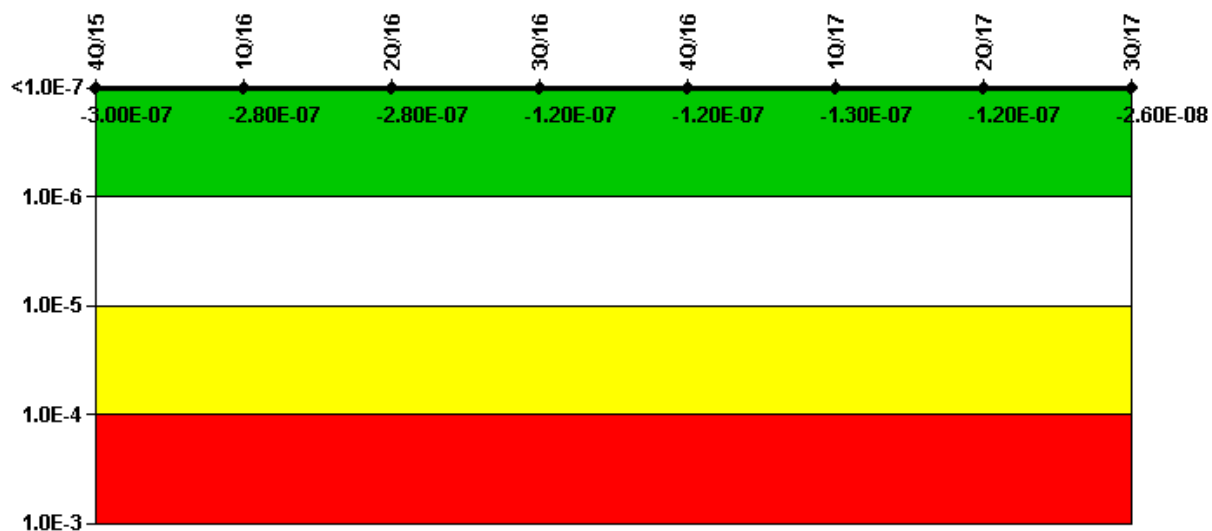
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Licensee Comments:

3Q/16: Changed PRA Parameter(s).

4Q/15: An evaluation is pending for the Nov 2015 failure on Unit 2 Heat Removal.

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

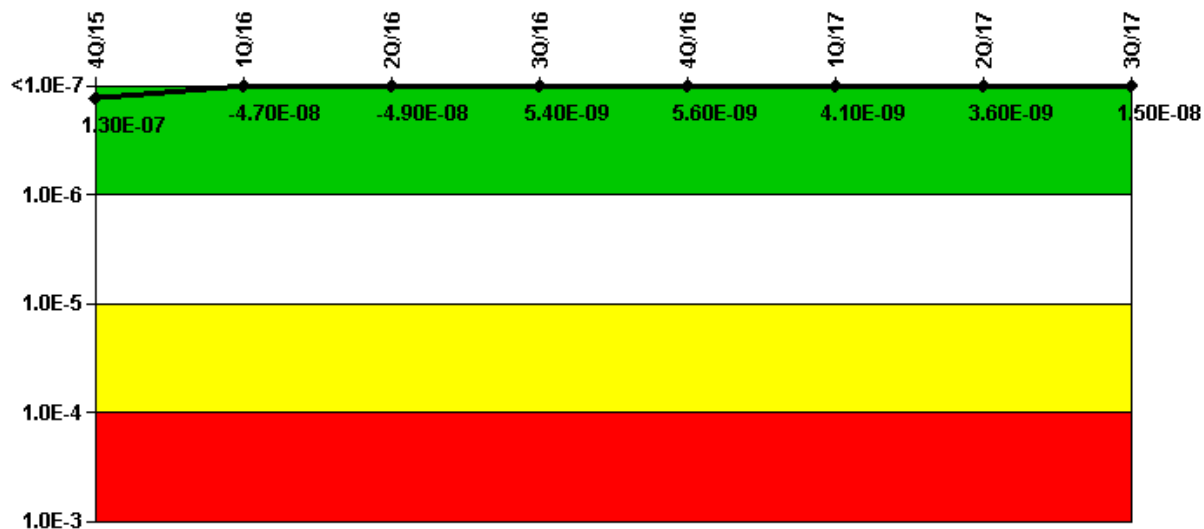
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-7.74E-08	-7.60E-08	-7.60E-08	-3.01E-08	-3.01E-08	-3.01E-08	-2.53E-08	6.93E-08
URI (Δ CDF)	-2.25E-07	-2.05E-07	-2.05E-07	-9.49E-08	-9.49E-08	-9.49E-08	-9.49E-08	-9.49E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-07	-2.80E-07	-2.80E-07	-1.20E-07	-1.20E-07	-1.30E-07	-1.20E-07	-2.60E-08

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Licensee Comments:

3Q/16: Changed PRA Parameter(s).

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

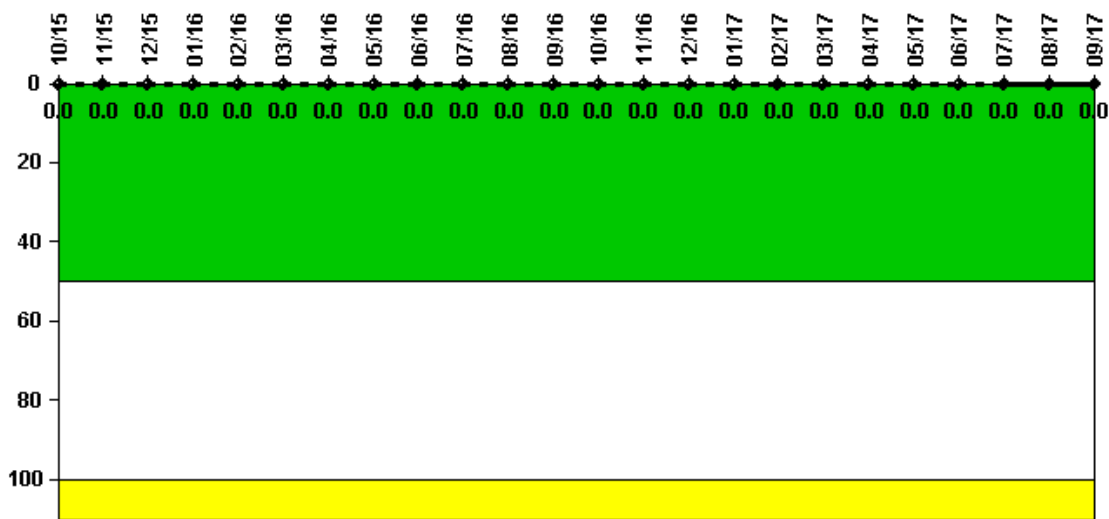
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	2.71E-08	3.82E-08	3.63E-08	3.59E-09	3.76E-09	2.25E-09	1.75E-09	1.29E-08
URI (Δ CDF)	9.84E-08	-8.50E-08	-8.50E-08	1.83E-09	1.83E-09	1.83E-09	1.83E-09	1.83E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	-4.70E-08	-4.90E-08	5.40E-09	5.60E-09	4.10E-09	3.60E-09	1.50E-08

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Licensee Comments:

3Q/16: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

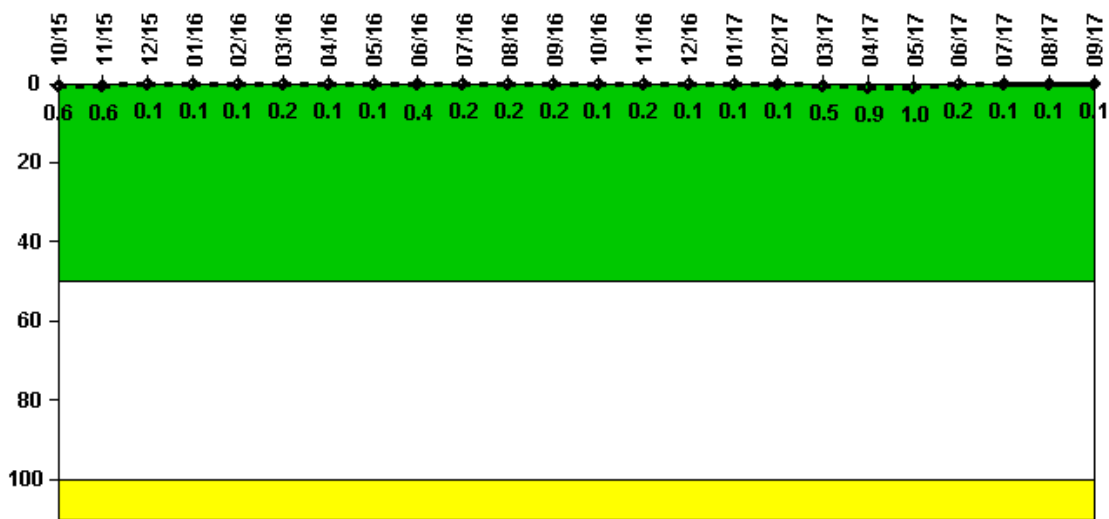
Notes

Reactor Coolant System Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	0.000043	0.000040	0.000045	0.000042	0.000046	0.000047	0.000042	0.000025	0.000023	0.000041	0.000038	0.000035
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum activity	0.000057	0.000034	0.000036	0.000034	0.000038	0.000042	0.000049	0.000047	0.000040	0.000047	0.000049	0.000052
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum leakage	0.064	0.062	0.014	0.014	0.012	0.017	0.011	0.014	0.042	0.024	0.020	0.016
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

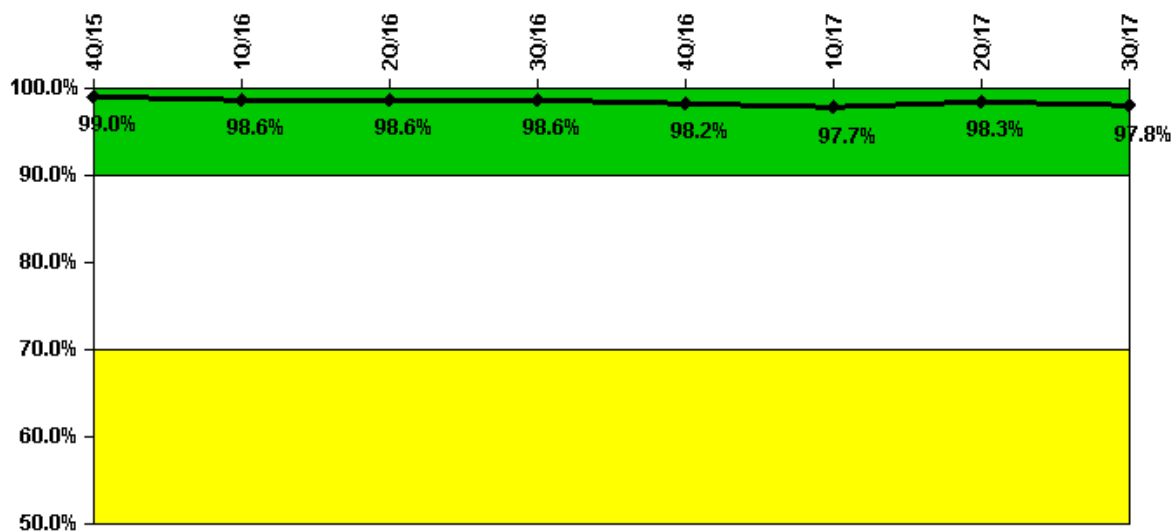
Indicator value	0.6	0.6	0.1	0.1	0.1	0.2	0.1	0.1	0.4	0.2	0.2	0.2
Reactor Coolant System Leakage	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum leakage	0.013	0.016	0.010	0.011	0.013	0.050	0.090	0.104	0.018	0.010	0.013	0.008
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Indicator value	0.1	0.2	0.1	0.1	0.1	0.5	0.9	1.0	0.2	0.1	0.1	0.1
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Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

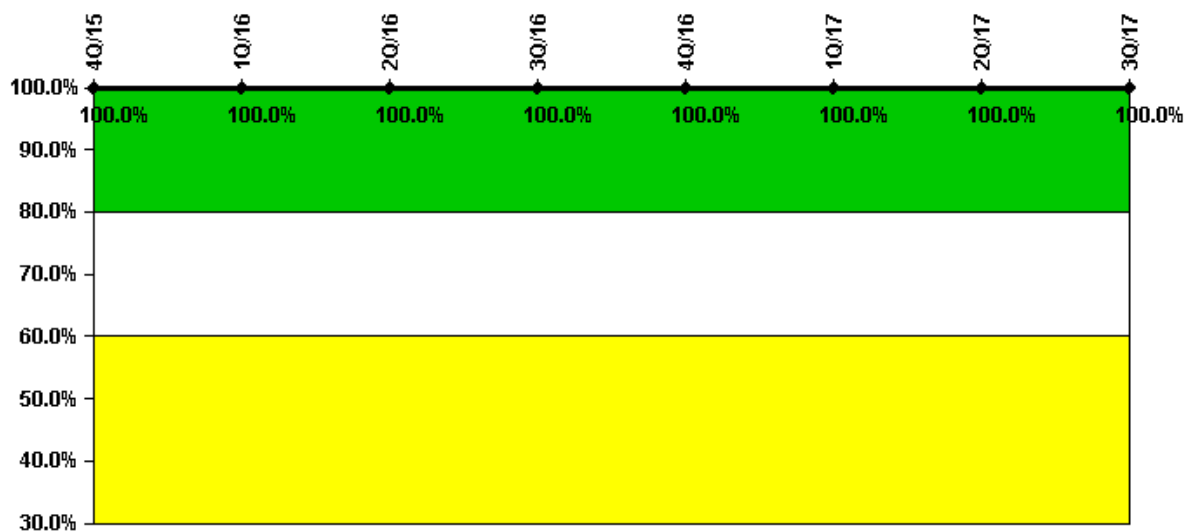
Drill/Exercise Performance	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful opportunities	22.0	84.0	39.0	37.0	6.0	35.0	64.0	23.0
Total opportunities	22.0	87.0	40.0	37.0	7.0	36.0	64.0	24.0

Indicator value 99.0% 98.6% 98.6% 98.6% 98.2% 97.7% 98.3% 97.8%

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Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

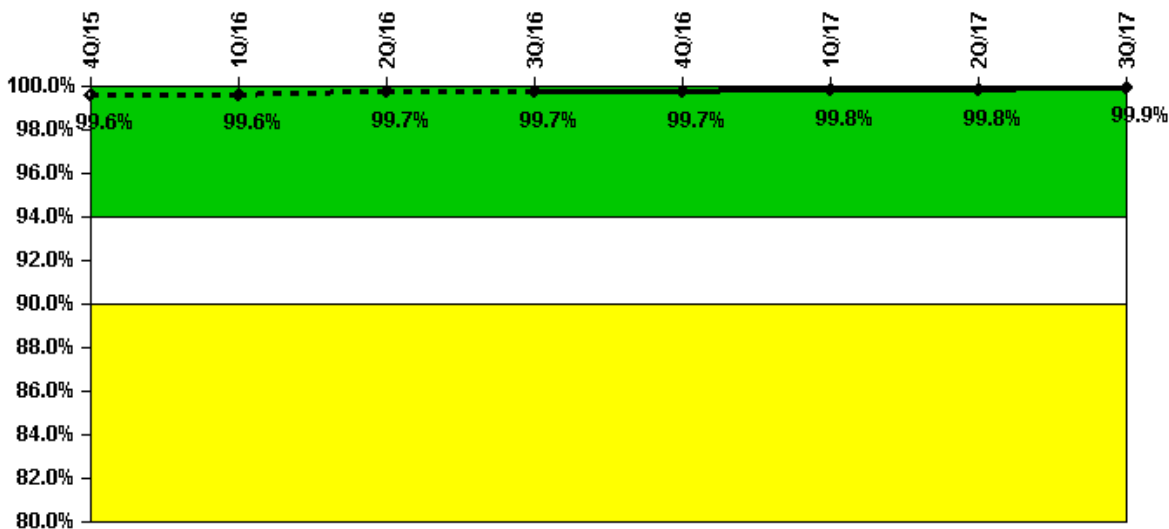
ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	120.0	120.0	116.0	120.0	121.0	113.0	110.0	70.0
Total Key personnel	120.0	120.0	116.0	120.0	121.0	113.0	110.0	70.0

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

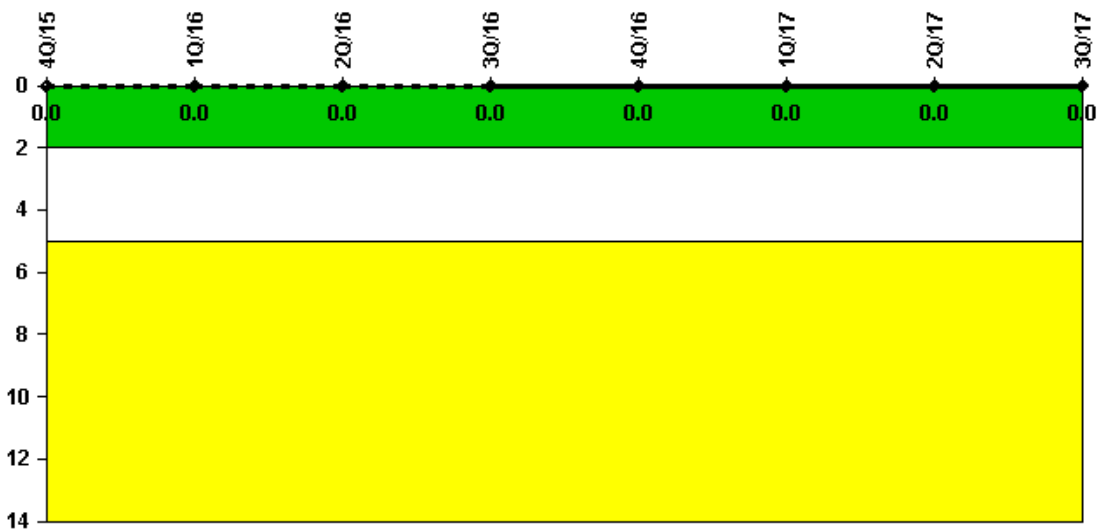
Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	1244	1152	1157	1152	1244	1155	1156	1157
Total sirens-tests	1246	1157	1157	1157	1246	1157	1157	1157

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

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

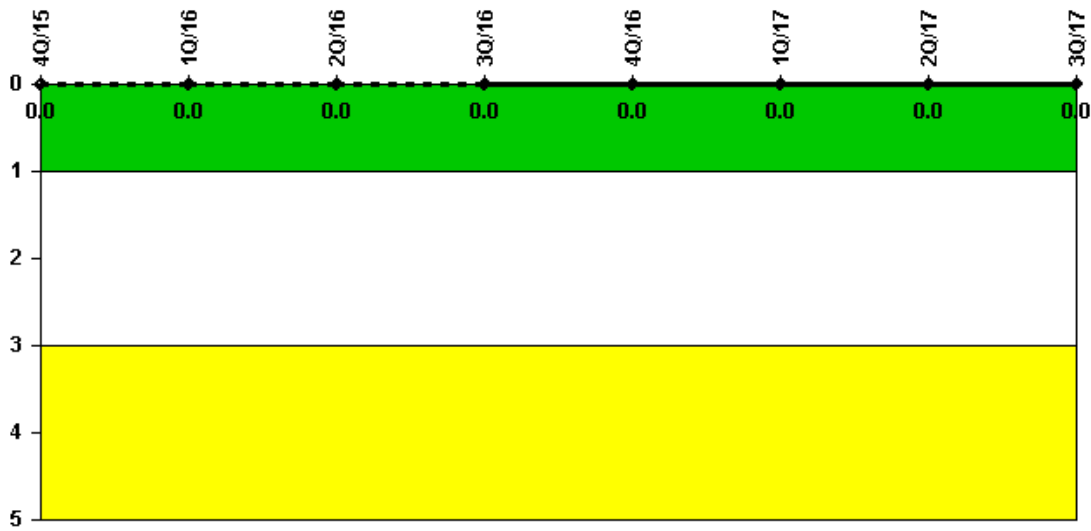
Occupational Exposure Control Effectiveness 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

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: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/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: October 31, 2017

Page Last Reviewed/Updated Monday, November 06, 2017