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Vogtle 2 – Quarterly Performance Indicators

2Q/2017 Performance Indicators

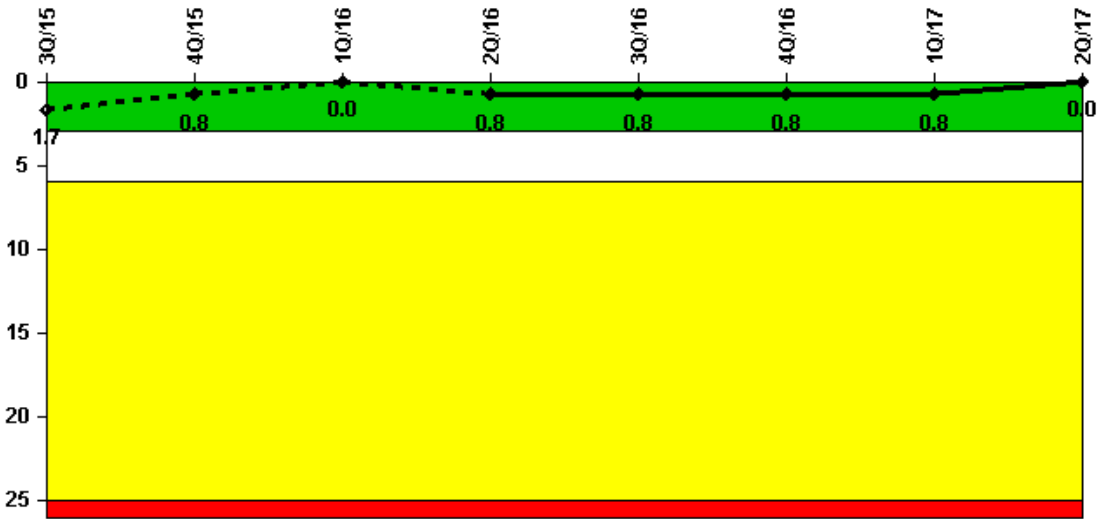
The solid trend line represents the current reporting period.

Licensee's General Comments: none

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- Unplanned Scrams (IE01)
- 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

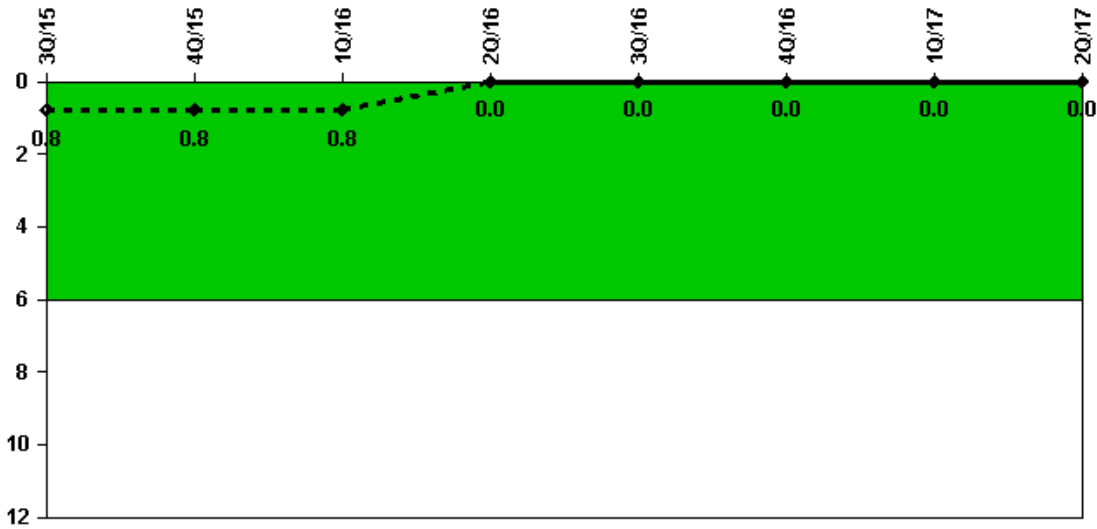
Unplanned Scrams per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2208.0	2209.0	1672.2	2160.7	2208.0	2209.0	2159.0	2184.0

Indicator value	1.7	0.8	0	0.8	0.8	0.8	0.8	0
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Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

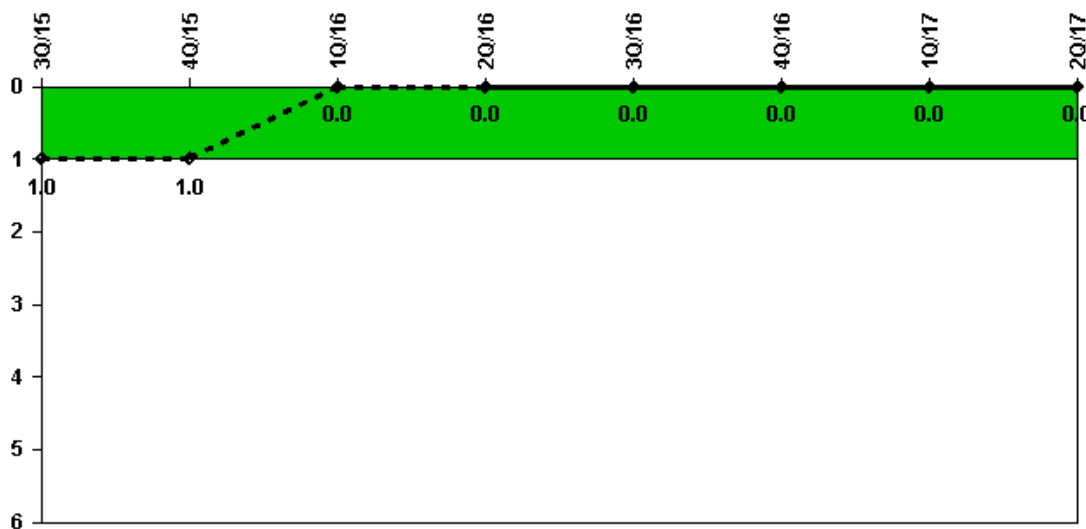
Notes

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	0	0	0	0	0
Critical hours	2208.0	2209.0	1672.2	2160.7	2208.0	2209.0	2159.0	2184.0
Indicator value	0.8	0.8	0.8	0	0	0	0	0

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Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

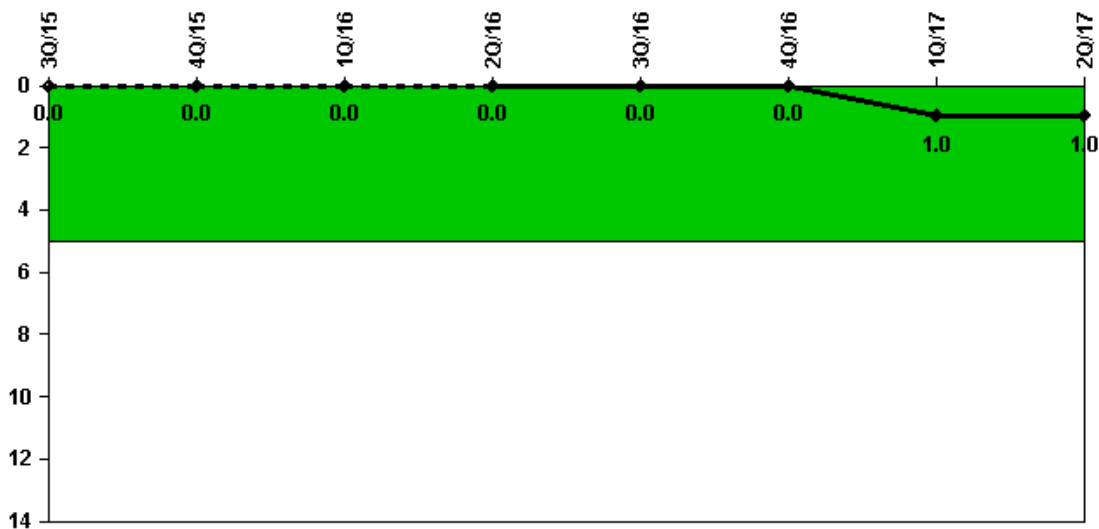
Notes

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	1.0	1.0	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) 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

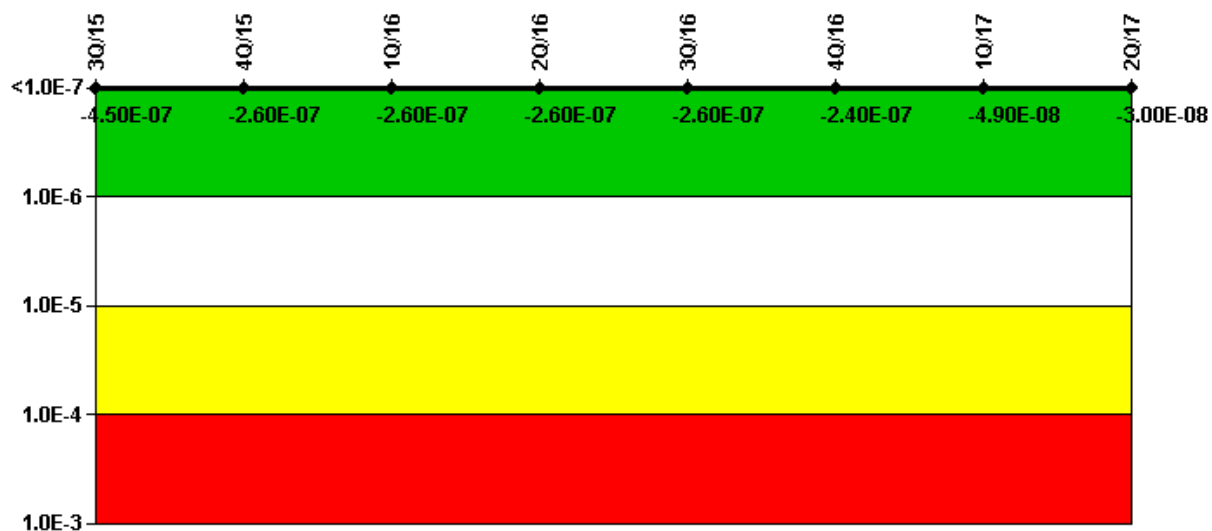
Indicator value 0 0 0 0 0 0 1 1

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Licensee Comments:

1Q/17: LER 2-2017-001-00

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

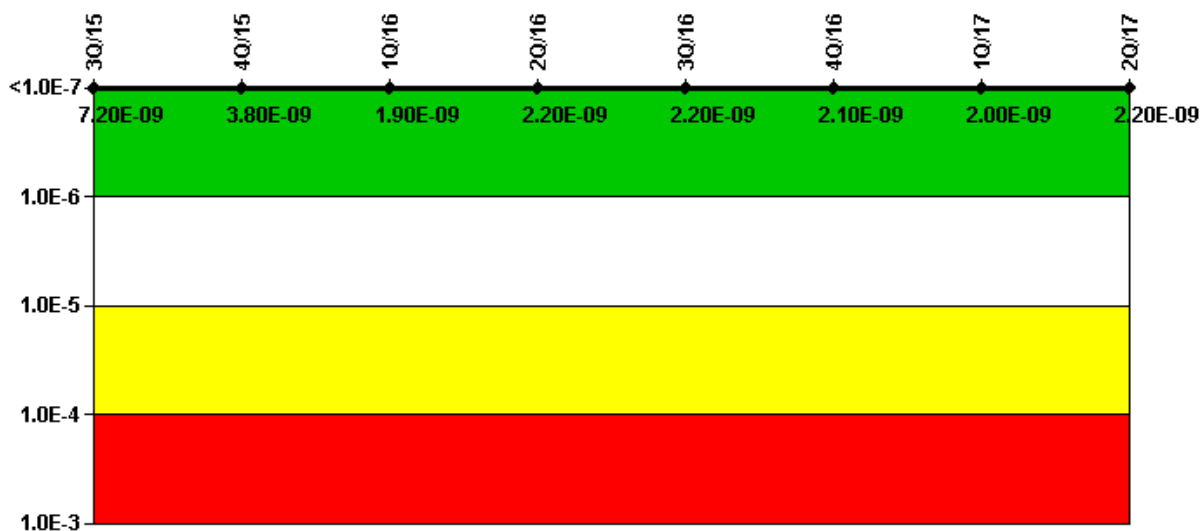
	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-4.32E-08	-2.07E-08	-2.07E-08	-2.72E-08	-2.72E-08	-3.58E-09	3.85E-09	3.79E-09
URI (Δ CDF)	-4.07E-07	-2.35E-07	-2.35E-07	-2.33E-07	-2.34E-07	-2.35E-07	-5.30E-08	-3.36E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.50E-07	-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07	-2.40E-07	-4.90E-08	-3.00E-08

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Licensee Comments:

4Q/15: 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

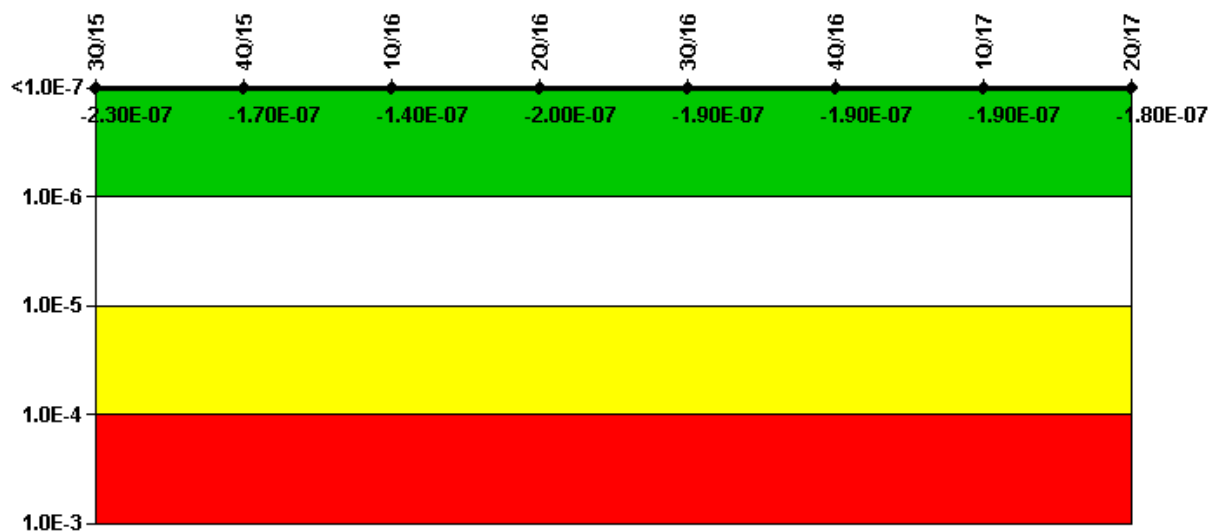
	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-6.06E-09	-2.94E-09	-2.91E-09	-2.91E-09	-2.91E-09	-2.91E-09	-2.91E-09	-2.91E-09
URI (Δ CDF)	1.32E-08	6.77E-09	4.80E-09	5.07E-09	5.09E-09	5.04E-09	4.87E-09	5.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.20E-09	3.80E-09	1.90E-09	2.20E-09	2.20E-09	2.10E-09	2.00E-09	2.20E-09

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Licensee Comments:

4Q/15: 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

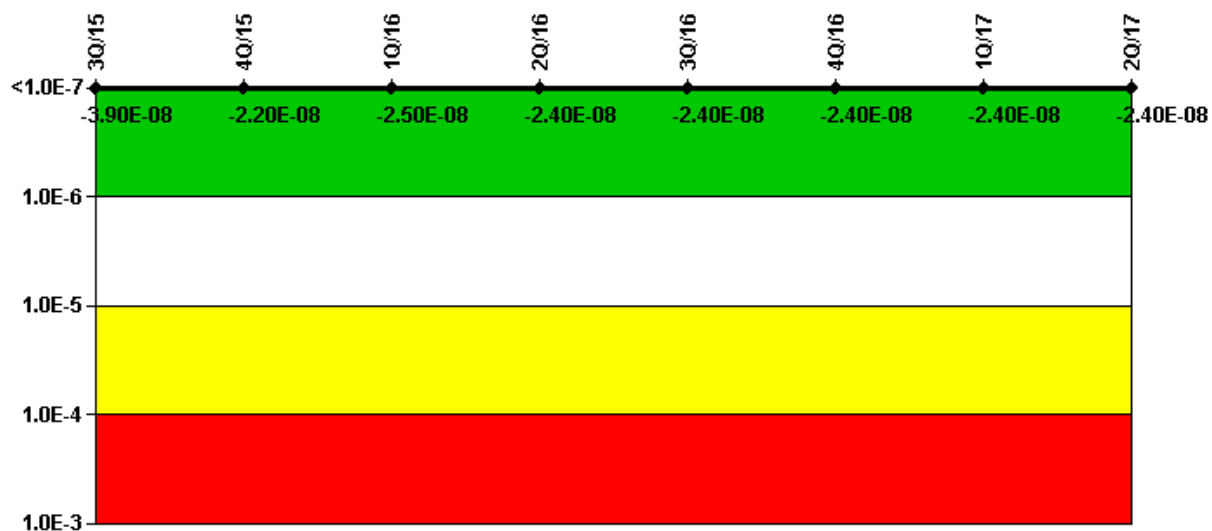
	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	1.13E-07	4.94E-08	8.55E-08	2.60E-08	2.66E-08	2.67E-08	2.29E-08	3.39E-08
URI (Δ CDF)	-3.42E-07	-2.24E-07	-2.23E-07	-2.21E-07	-2.21E-07	-2.12E-07	-2.12E-07	-2.09E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-07	-1.70E-07	-1.40E-07	-2.00E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.80E-07

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Licensee Comments:

4Q/15: Changed PRA Parameter(s).

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

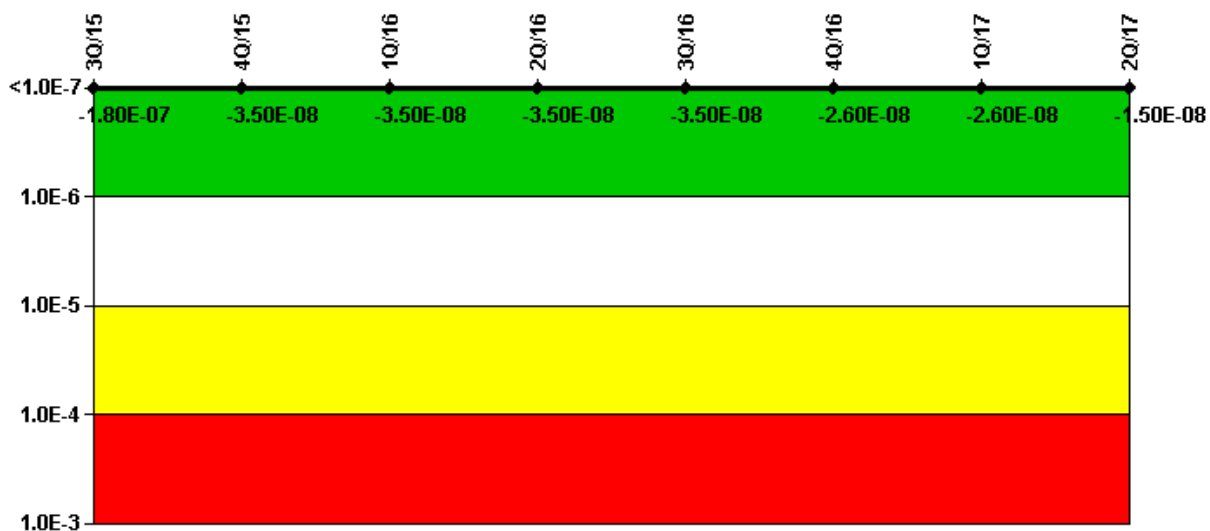
	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	3.77E-09	1.74E-09	-1.81E-09	-1.11E-09	-1.12E-09	-1.16E-09	-1.35E-09	-1.53E-09
URI (Δ CDF)	-4.25E-08	-2.37E-08	-2.35E-08	-2.26E-08	-2.26E-08	-2.26E-08	-2.26E-08	-2.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.90E-08	-2.20E-08	-2.50E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08

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Licensee Comments:

4Q/15: 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

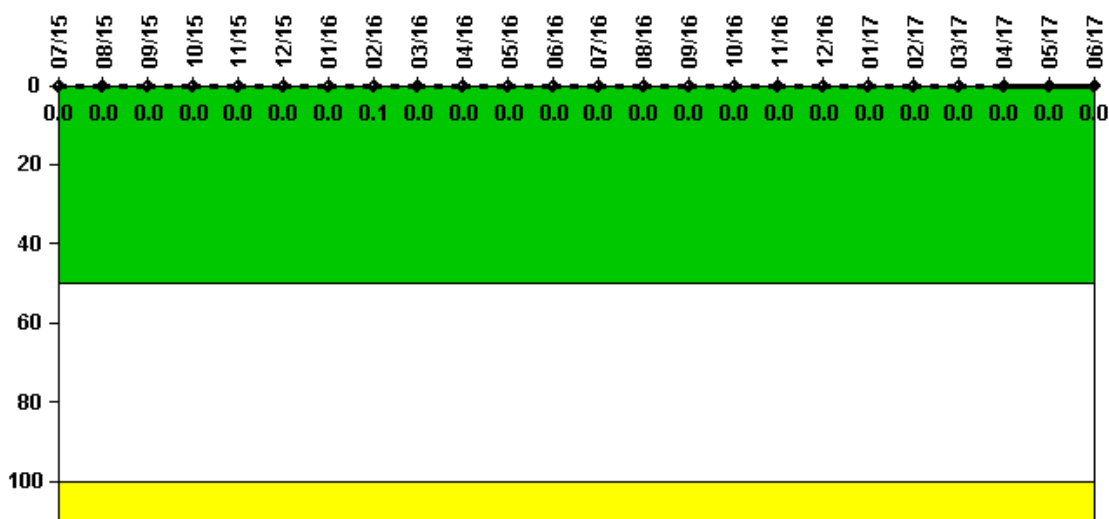
	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-1.02E-07	-1.81E-08	-1.82E-08	-1.83E-08	-1.83E-08	-1.83E-08	-1.83E-08	-7.51E-09
URI (ΔCDF)	-8.21E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-7.92E-09	-7.75E-09	-7.70E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-3.50E-08	-3.50E-08	-3.50E-08	-3.50E-08	-2.60E-08	-2.60E-08	-1.50E-08

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Licensee Comments:

4Q/16: Pump Demands for NSCW Pump#5 were entered incorrectly. This Data error did not impact the KPI report. Ref CR#10331455
 4Q/15: Changed PRA Parameter(s).

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	0.000314	0.000313	0.000330	0.000336	0.000357	0.000381	0.000434	0.000509	0.000205	0.000143	0.000140	0.000161
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0.1	0	0	0	0

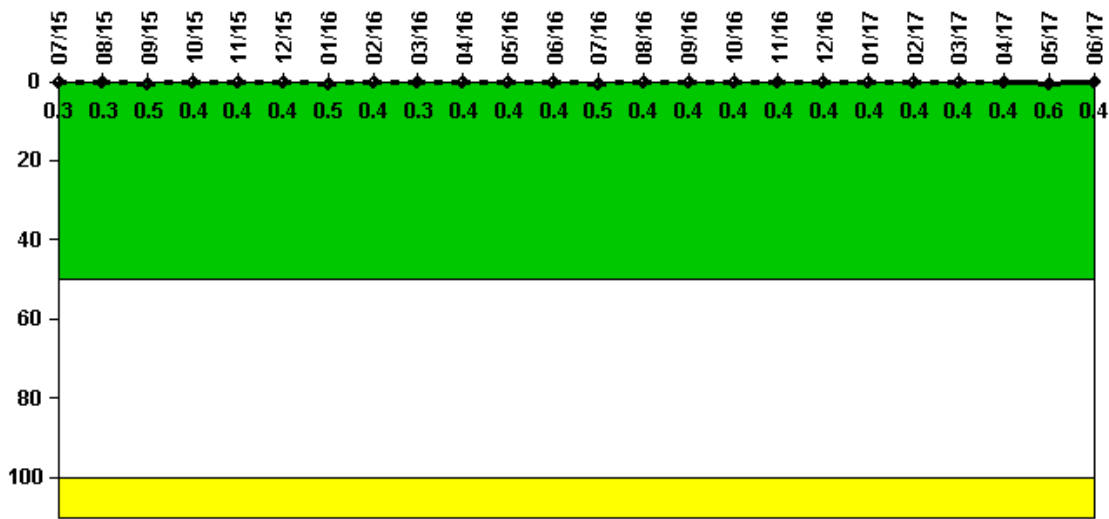
Reactor Coolant System Activity	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum activity	0.000173	0.000174	0.000179	0.000187	0.000205	0.000219	0.000224	0.000245	0.000236	0.000274	0.000262	0.000272
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

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Licensee Comments:

9/16: Department review of CDE for Maximum I-131 Activity (uCi/gm for 2016 identified three entries (U-1 Aug 2016, Sept 2016 and U-2 Sept 2016) with the incorrect number. These numbers have been revised. Incorrect data entry was a result of human error. Ref CR#10373664

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

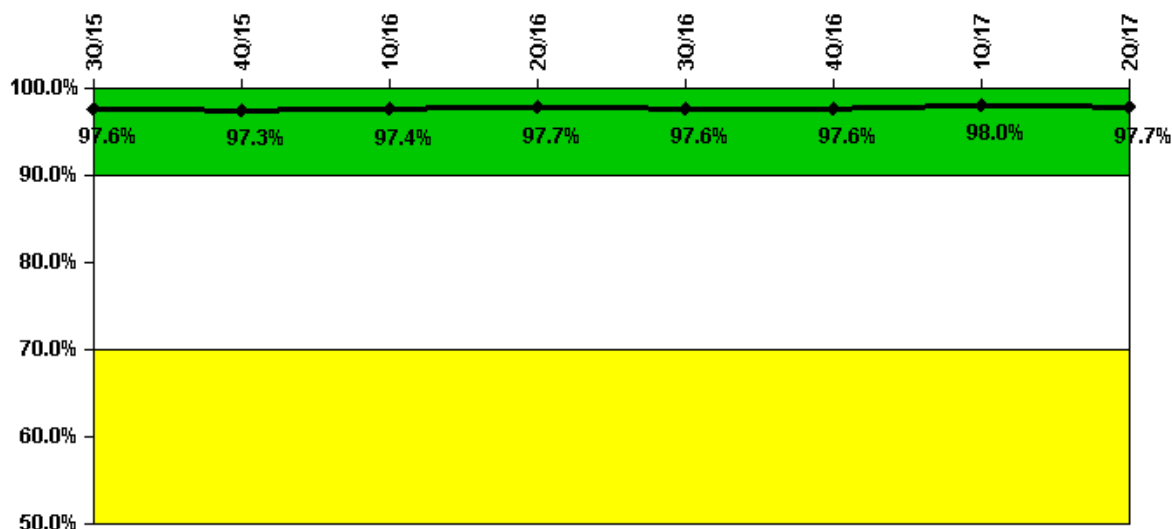
Notes

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	0.032	0.030	0.050	0.036	0.037	0.037	0.045	0.035	0.031	0.039	0.041	0.038
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	0.3	0.3	0.5	0.4	0.4	0.4	0.5	0.4	0.3	0.4	0.4	0.4
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	0.045	0.035	0.036	0.042	0.039	0.040	0.041	0.043	0.039	0.039	0.055	0.036
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	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.4

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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	34.0	20.0	46.0	93.0	57.0	27.0	24.0	33.0
Total opportunities	38.0	20.0	46.0	94.0	58.0	28.0	24.0	34.0

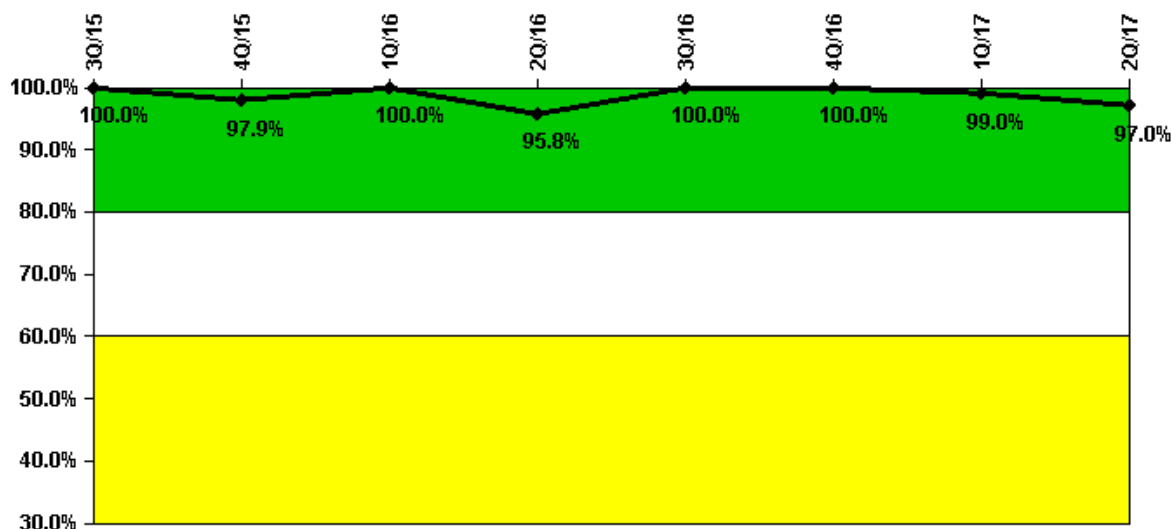
Indicator value **97.6% 97.3% 97.4% 97.7% 97.6% 97.6% 98.0% 97.7%**

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Licensee Comments:

4Q/15: Two siren-tests determined to be unsuccessful upon review by Emergency Planning. This does not affect the indicator color.
 3Q/15: Drill and Exercise Performance data has been revised for 2nd and 3rd Quarters. Emergency Planning reviewed participation records and determined two additional opportunities resulting in additional successes. This does not affect the indicator color.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

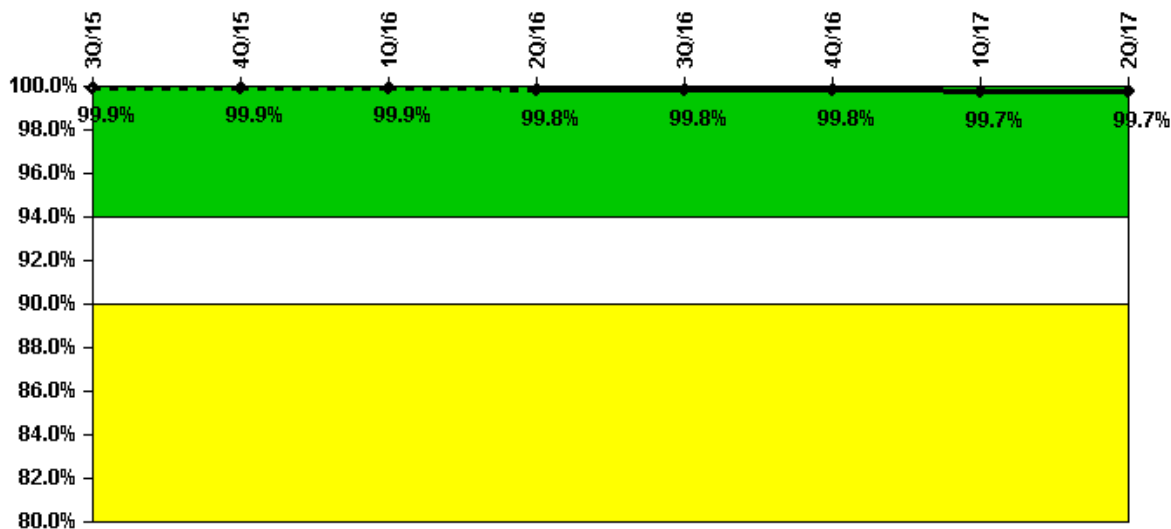
ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	96.0	93.0	89.0	92.0	96.0	105.0	103.0	97.0
Total Key personnel	96.0	95.0	89.0	96.0	96.0	105.0	104.0	100.0

Indicator value **100.0% 97.9% 100.0% 95.8% 100.0% 100.0% 99.0% 97.0%**

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Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

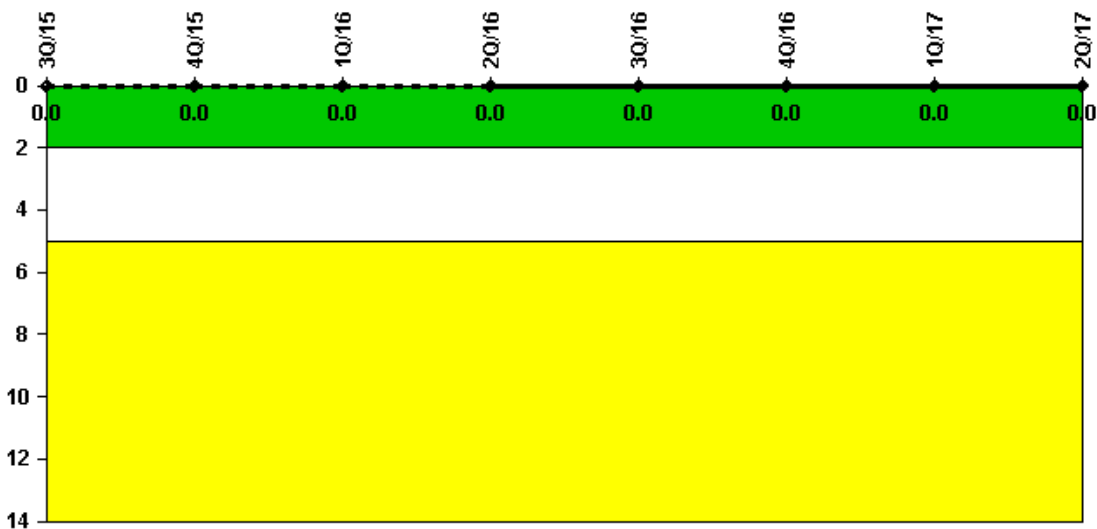
Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	610	609	611	608	610	609	610	608
Total sirens-tests	611	611	611	611	611	611	611	611

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

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

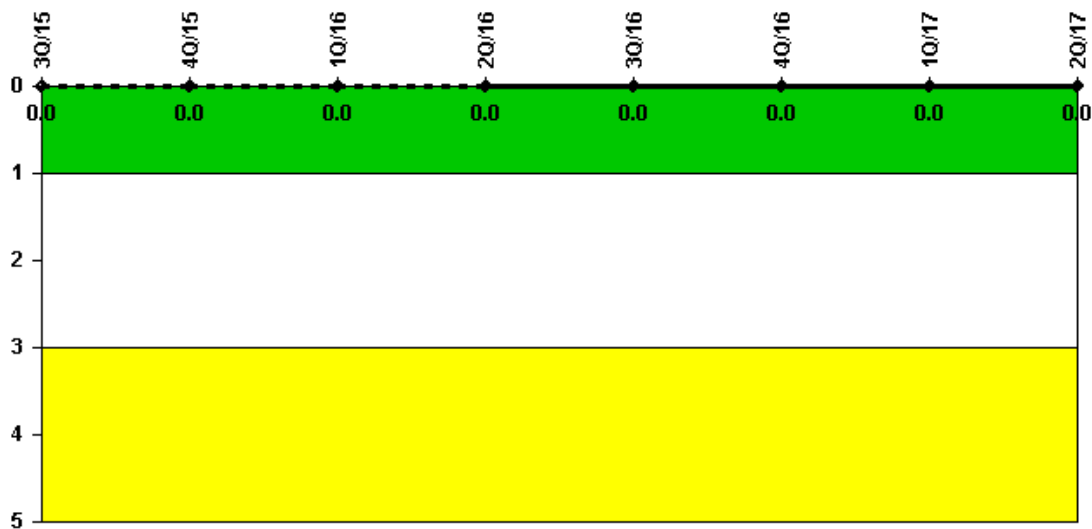
Occupational Exposure Control Effectiveness 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

High radiation area occurrences	0	0	0	0	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 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