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Vogtle 1 – Quarterly Performance Indicators

3Q/2017 Performance Indicators

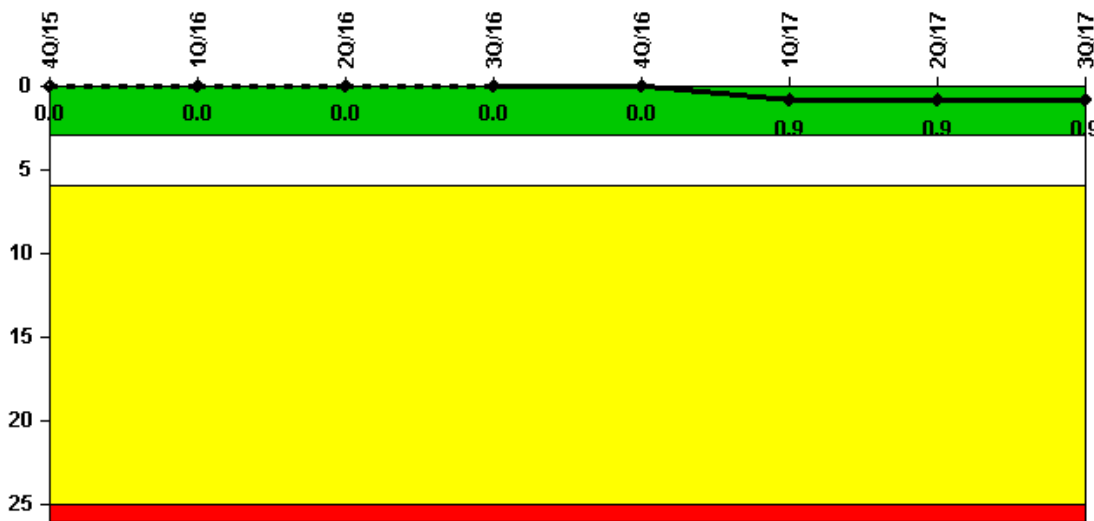
The solid trend line represents the current reporting period.

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

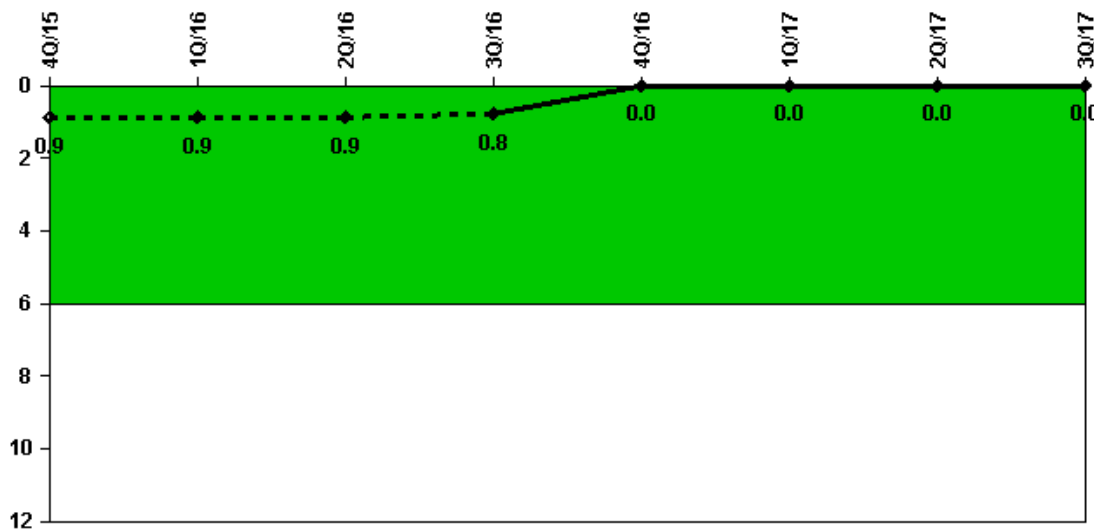
Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	1687.2	2183.0	2184.0	2208.0	2209.0	1611.2	2122.5	2208.0

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

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Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

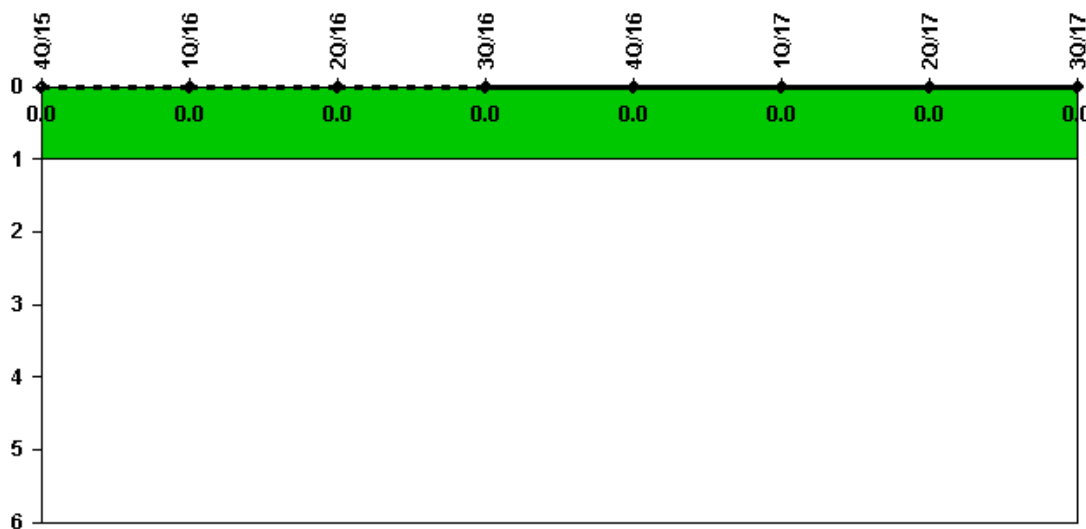
Unplanned Power Changes per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	1687.2	2183.0	2184.0	2208.0	2209.0	1611.2	2122.5	2208.0

Indicator value	0.9	0.9	0.9	0.8	0	0	0	0
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Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

Notes

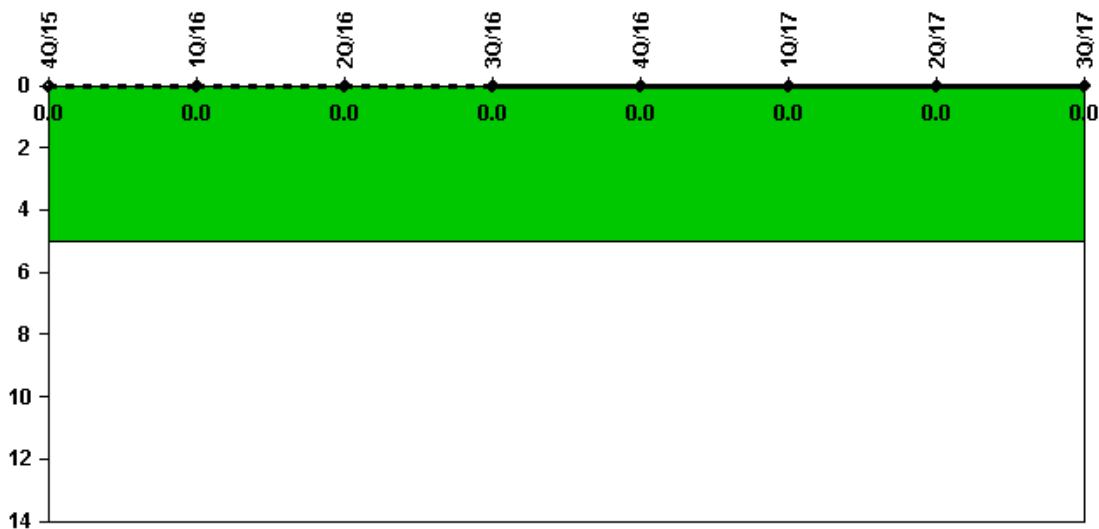
Unplanned Scrams with Complications	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Scrams with complications	0	0	0	0	0	0	0	0

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

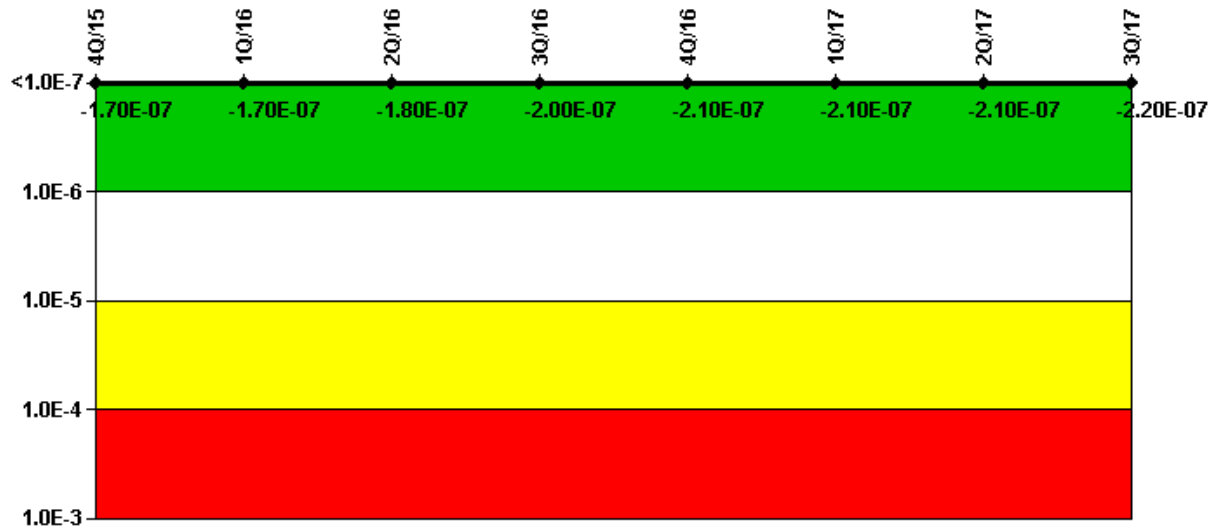
Safety System Functional Failures 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

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Licensee Comments: none

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

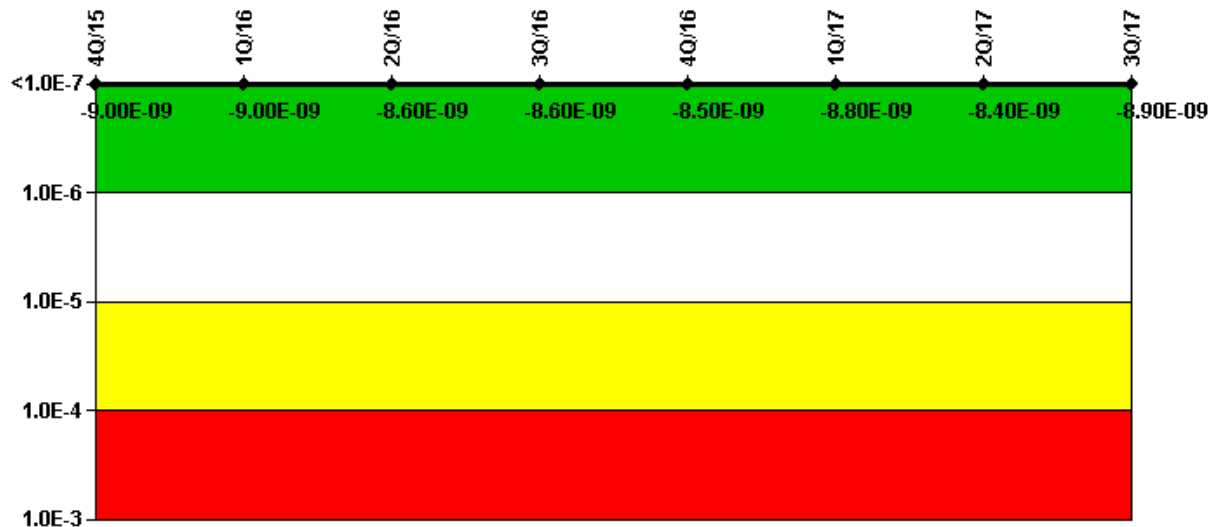
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	4.21E-08	4.23E-08	3.23E-08	2.87E-08	3.78E-09	5.56E-09	4.42E-09	1.76E-10
URI (ΔCDF)	-2.13E-07	-2.13E-07	-2.14E-07	-2.29E-07	-2.11E-07	-2.19E-07	-2.19E-07	-2.18E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.70E-07	-1.80E-07	-2.00E-07	-2.10E-07	-2.10E-07	-2.10E-07	-2.20E-07

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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

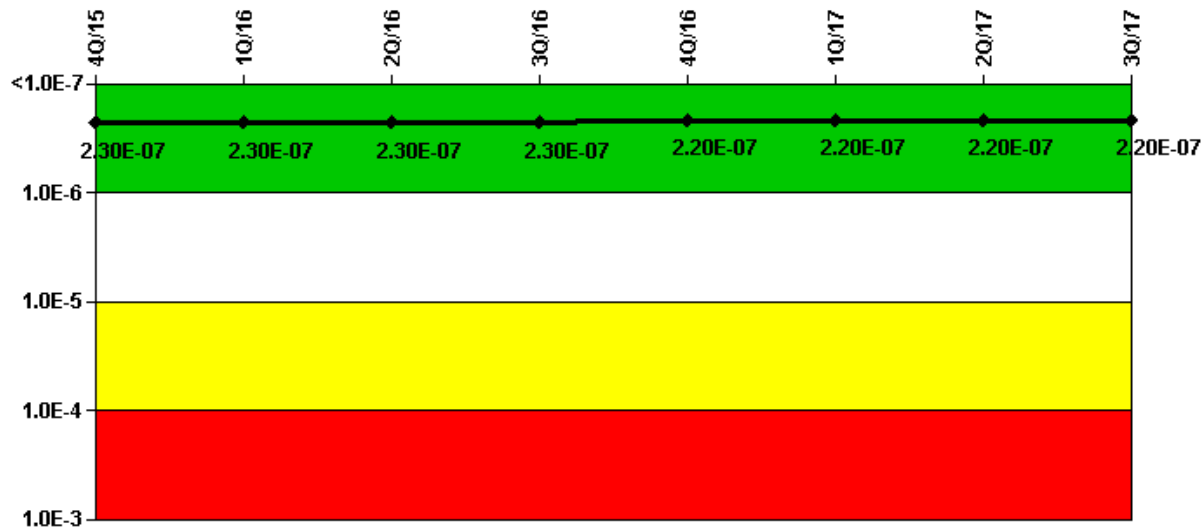
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-2.10E-09	-2.10E-09	-2.10E-09	-2.17E-09	-2.45E-09	-2.38E-09	-2.49E-09	-2.82E-09
URI (ΔCDF)	-6.91E-09	-6.86E-09	-6.53E-09	-6.39E-09	-6.00E-09	-6.42E-09	-5.92E-09	-6.07E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.00E-09	-9.00E-09	-8.60E-09	-8.60E-09	-8.50E-09	-8.80E-09	-8.40E-09	-8.90E-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

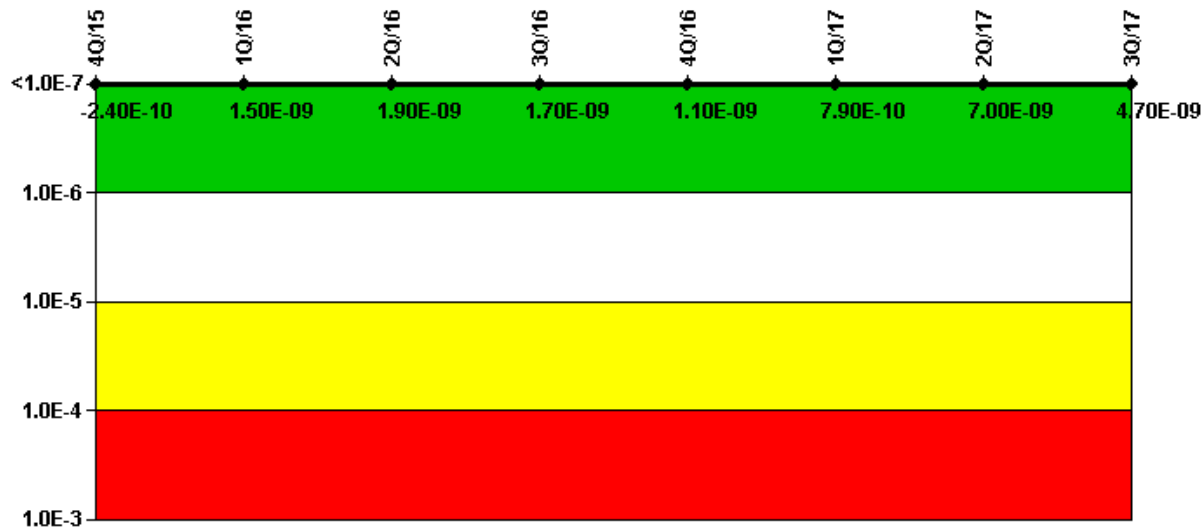
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-3.27E-08	-3.26E-08	-3.22E-08	-3.23E-08	-3.73E-08	-3.61E-08	-2.95E-08	-3.63E-08
URI (ΔCDF)	2.59E-07	2.59E-07	2.59E-07	2.59E-07	2.59E-07	2.59E-07	2.51E-07	2.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.30E-07	2.30E-07	2.30E-07	2.30E-07	2.20E-07	2.20E-07	2.20E-07	2.20E-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

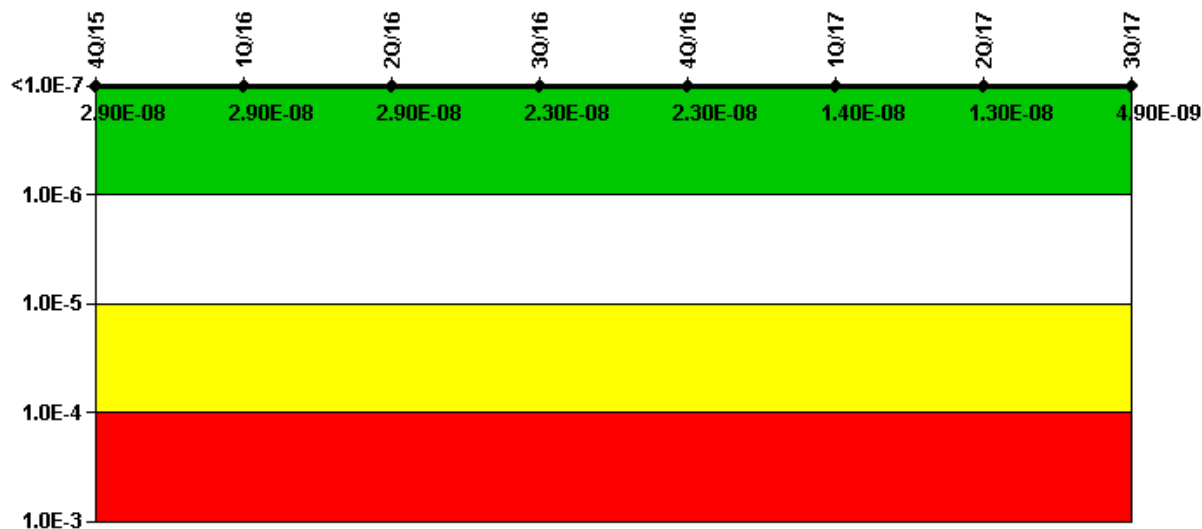
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	2.39E-08	2.57E-08	2.61E-08	2.58E-08	2.52E-08	2.58E-08	3.00E-08	2.77E-08
URI (Δ CDF)	-2.41E-08	-2.41E-08	-2.41E-08	-2.41E-08	-2.41E-08	-2.50E-08	-2.30E-08	-2.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-10	1.50E-09	1.90E-09	1.70E-09	1.10E-09	7.90E-10	7.00E-09	4.70E-09

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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

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	3.66E-08	3.66E-08	3.66E-08	3.00E-08	3.00E-08	3.03E-08	2.97E-08	2.13E-08
URI (Δ CDF)	-7.33E-09	-7.24E-09	-7.14E-09	-7.22E-09	-7.43E-09	-1.65E-08	-1.64E-08	-1.64E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO

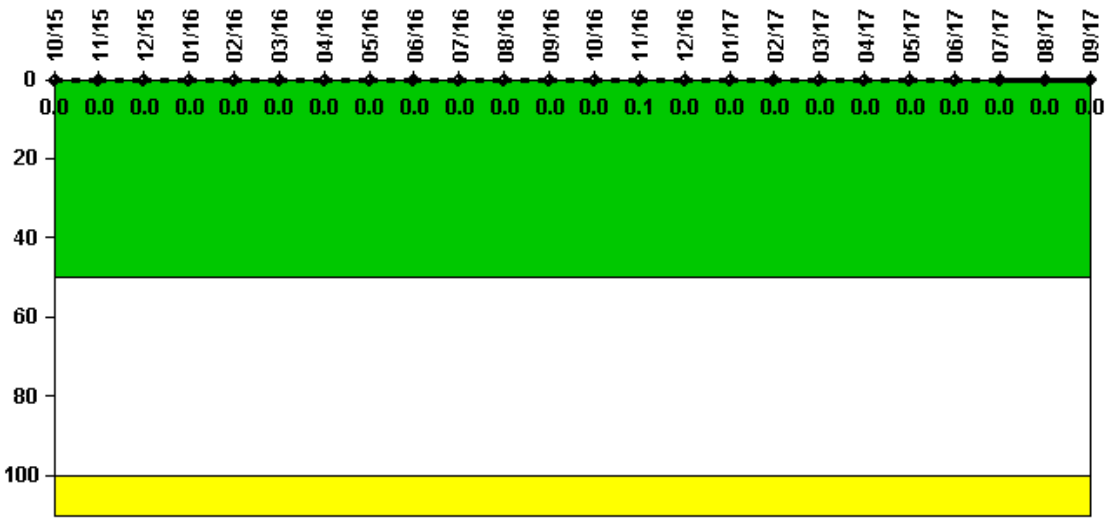
Indicator value 2.90E-08 2.90E-08 2.90E-08 2.30E-08 2.30E-08 1.40E-08 1.30E-08 4.90E-09

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Licensee Comments:

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

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

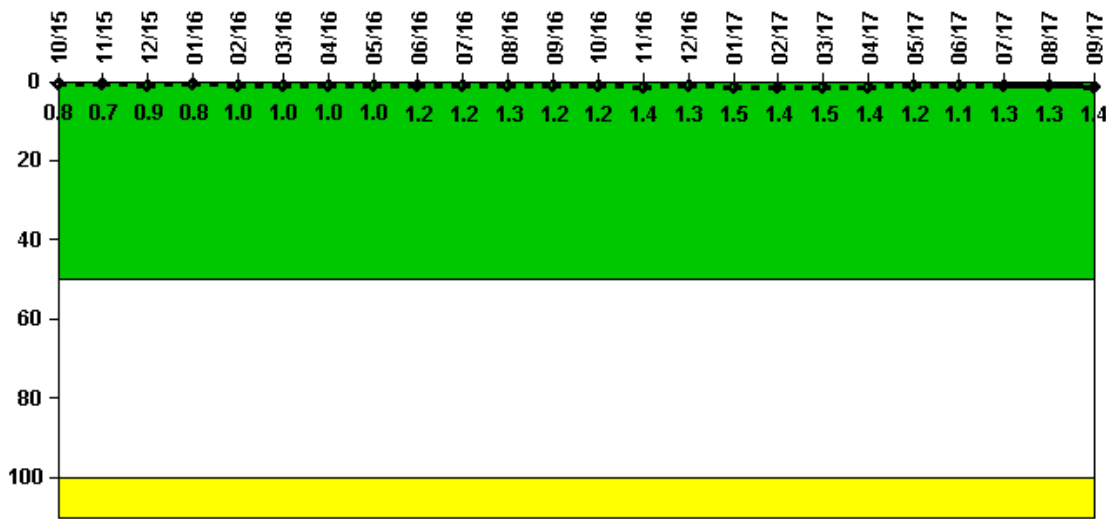
Reactor Coolant System Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	0.000040	0.000096	0.000090	0.000079	0.000094	0.000097	0.000078	0.000068	0.000093	0.000081	0.000098	0.000099
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
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	0.000100	0.000549	0.000116	0.000102	0.000159	0.000204	0.000052	0.000062	0.000077	0.000110	0.000068	0.000066
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	0.1	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

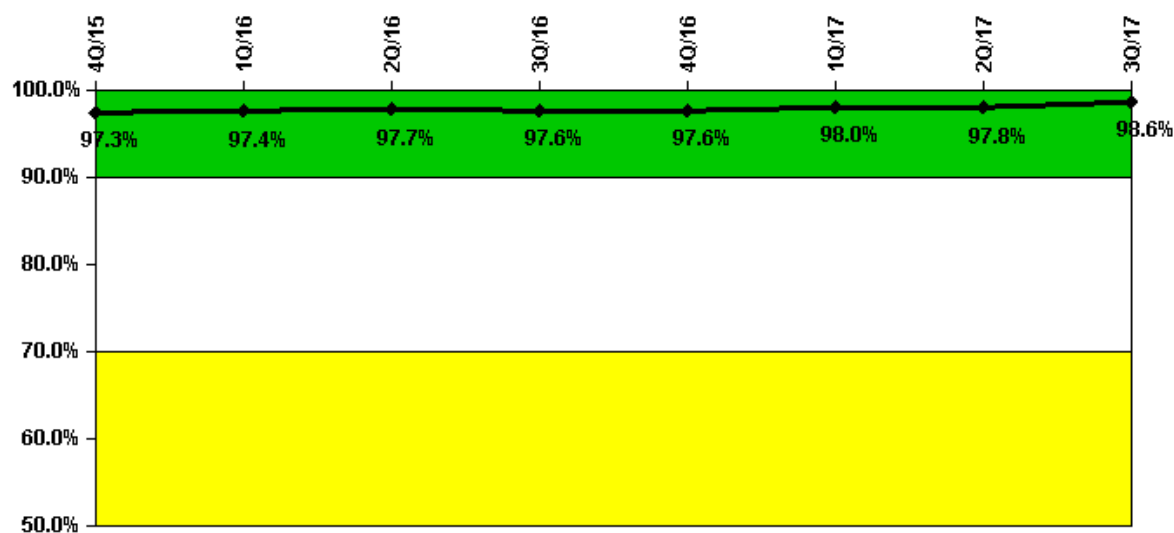
Notes

Reactor Coolant System Leakage	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	0.076	0.071	0.085	0.083	0.096	0.095	0.098	0.104	0.117	0.121	0.131	0.115
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	0.8	0.7	0.9	0.8	1.0	1.0	1.0	1.0	1.2	1.2	1.3	1.2
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	0.115	0.141	0.125	0.152	0.144	0.145	0.137	0.115	0.111	0.125	0.133	0.142
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	1.2	1.4	1.3	1.5	1.4	1.5	1.4	1.2	1.1	1.3	1.3	1.4

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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	20.0	46.0	93.0	57.0	27.0	24.0	51.0	47.0
Total opportunities	20.0	46.0	94.0	58.0	28.0	24.0	52.0	48.0

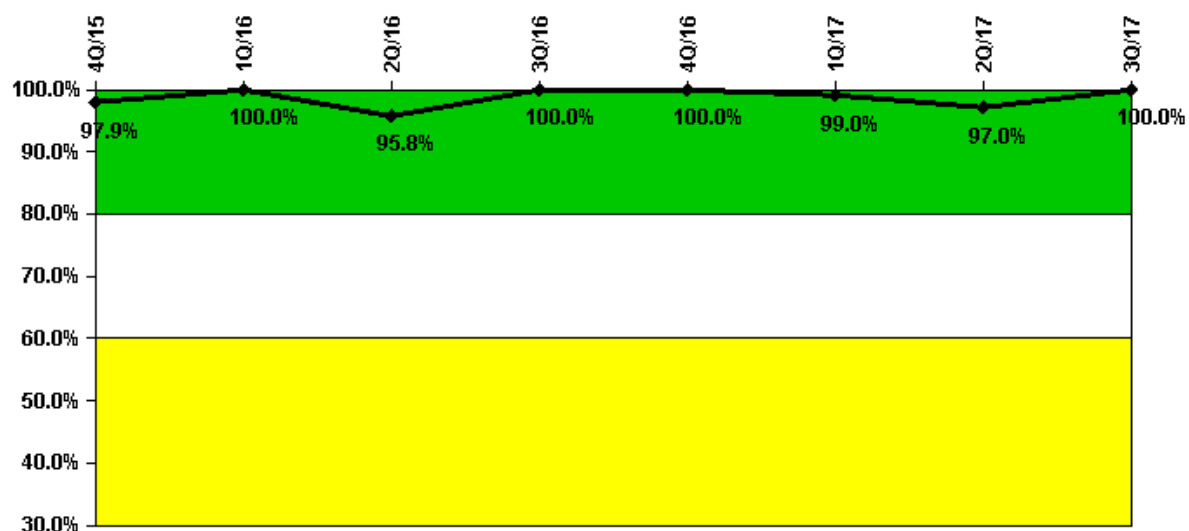
Indicator value **97.3% 97.4% 97.7% 97.6% 97.6% 98.0% 97.8% 98.6%**

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Licensee Comments:

2Q/17: KPI records for June 2017 Drill Exercise Participation (DEP) have been changed from 0 of 0 to 18 of 18 to add opportunities from Operations Annual Exams. Ref CR#10421233

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

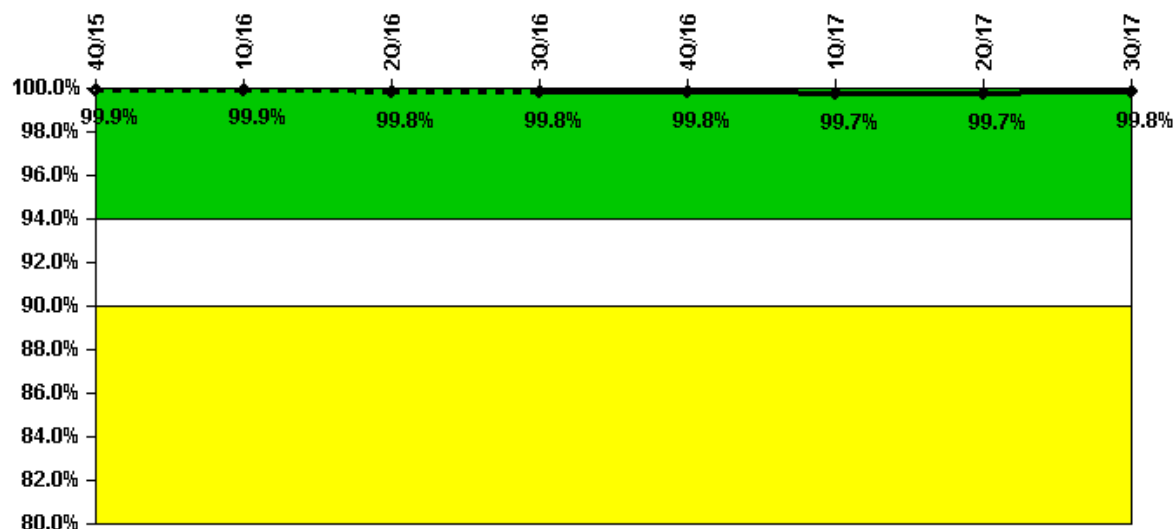
ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	93.0	89.0	92.0	96.0	105.0	103.0	97.0	87.0
Total Key personnel	95.0	89.0	96.0	96.0	105.0	104.0	100.0	87.0

Indicator value 97.9% 100.0% 95.8% 100.0% 100.0% 99.0% 97.0% 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	609	611	608	610	609	610	608	611
Total sirens-tests	611	611	611	611	611	611	611	611

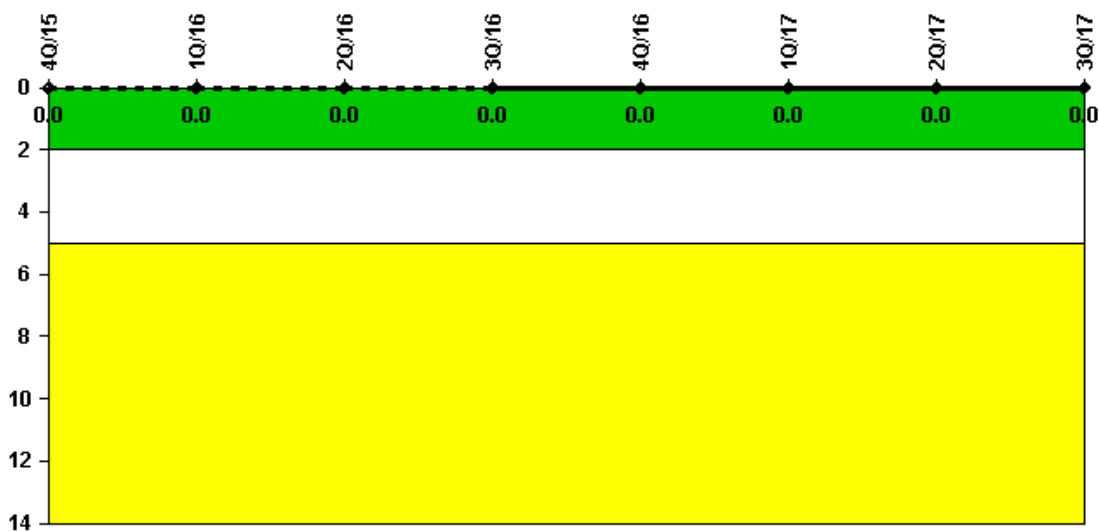
Indicator value **99.9%** **99.9%** **99.8%** **99.8%** **99.8%** **99.7%** **99.7%** **99.8%**

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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.

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

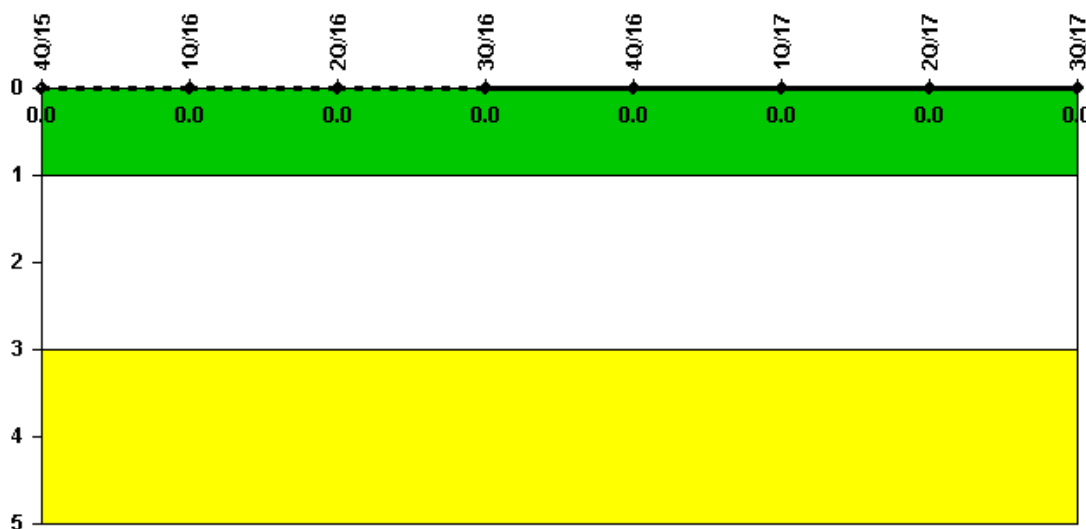
Occupational Exposure Control Effectiveness 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

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