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Calvert Cliffs 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 with Complications (IE04)
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- 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)

Notes

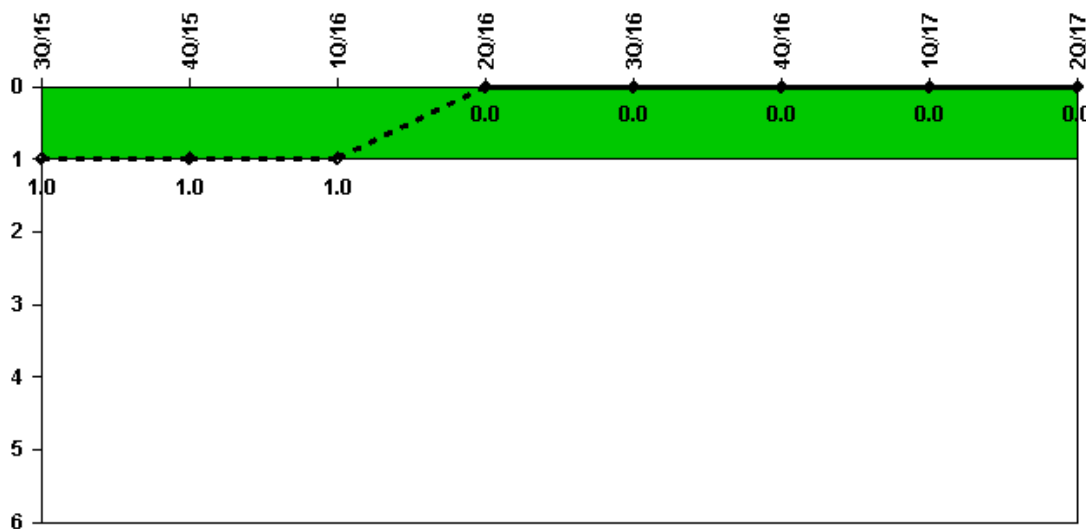
Unplanned Power Changes per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2095.1	2183.0	2184.0	2208.0	2183.8	1673.2	2184.0

Indicator value 0 0 0 0 0 0 0 0

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Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

Notes

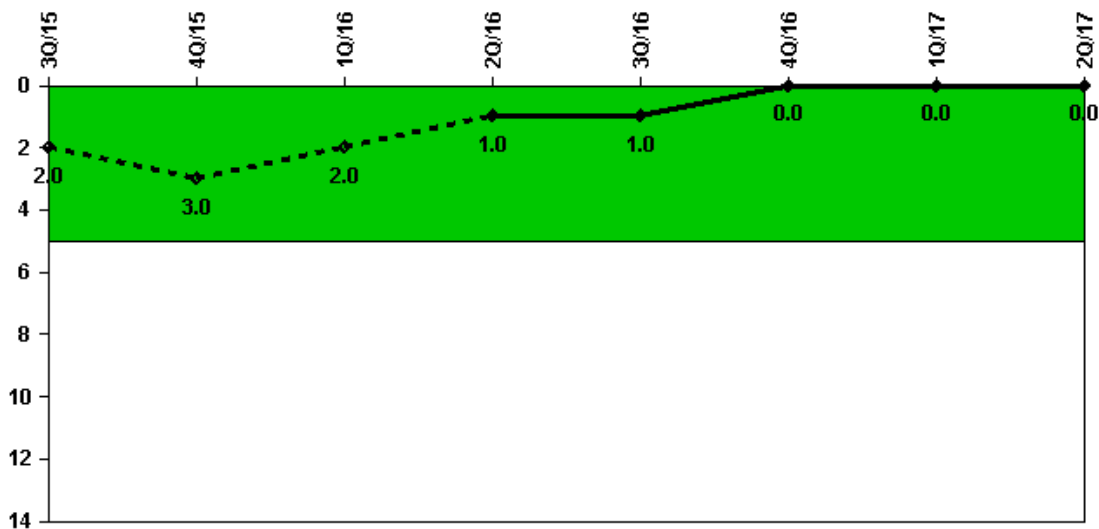
Unplanned Scrams with Complications	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Scrams with complications	0	0	0	0	0	0	0	0

Indicator value 1.0 1.0 1.0 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

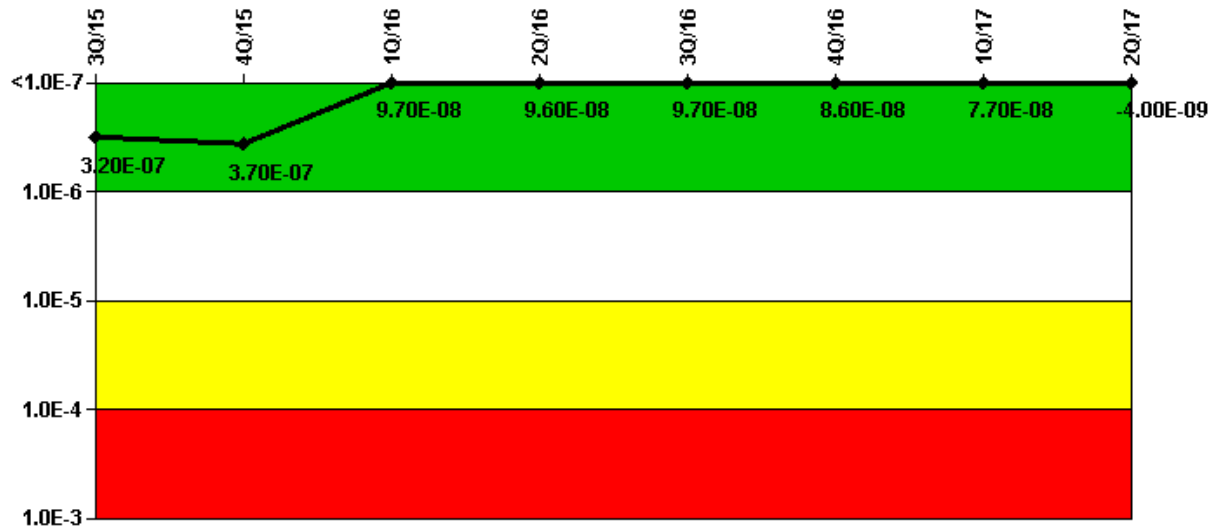
Safety System Functional Failures 0 1 0 0 0 0 0 0

Indicator value 2 3 2 1 1 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

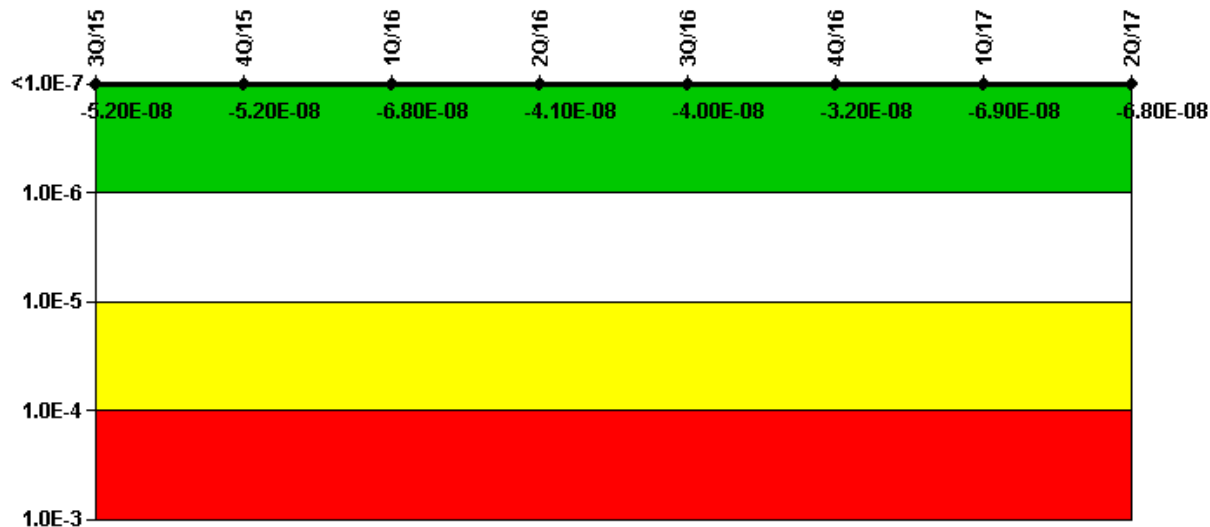
Mitigating Systems Performance Index, Emergency AC Power System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	6.56E-10	5.93E-08	8.00E-09	5.97E-09	5.64E-09	-4.09E-09	-6.64E-09	-1.62E-08
URI (ΔCDF)	3.23E-07	3.14E-07	8.91E-08	8.98E-08	9.15E-08	8.99E-08	8.34E-08	1.22E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.20E-07	3.70E-07	9.70E-08	9.60E-08	9.70E-08	8.60E-08	7.70E-08	-4.00E-09

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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

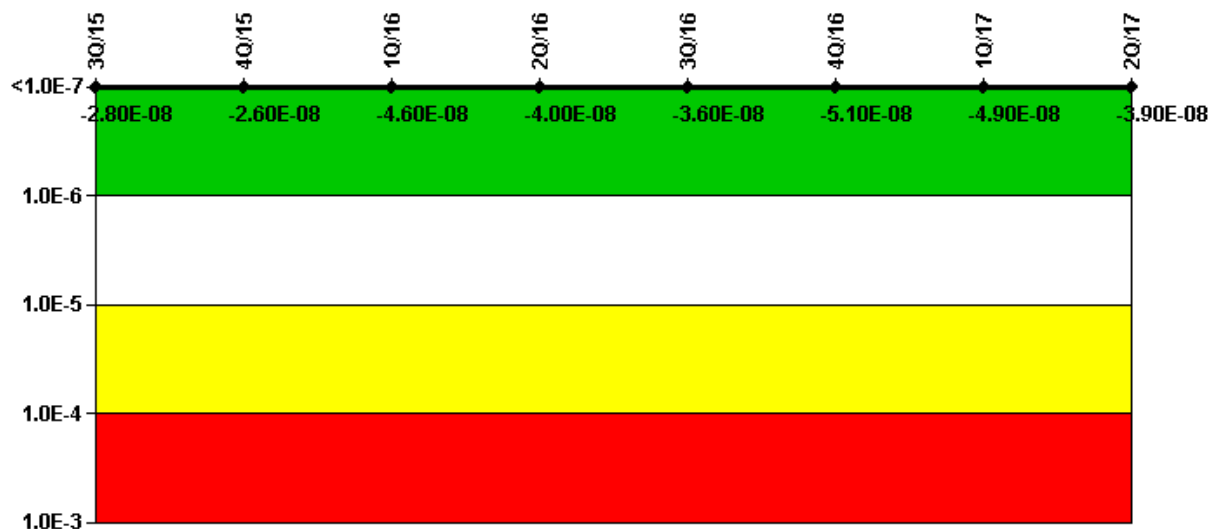
Mitigating Systems Performance Index, High Pressure Injection System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-5.54E-09	-6.18E-09	-2.67E-08	1.55E-09	2.16E-09	9.05E-09	-2.41E-08	-2.42E-08
URI (ΔCDF)	-4.64E-08	-4.62E-08	-4.13E-08	-4.27E-08	-4.20E-08	-4.13E-08	-4.45E-08	-4.38E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.20E-08	-5.20E-08	-6.80E-08	-4.10E-08	-4.00E-08	-3.20E-08	-6.90E-08	-6.80E-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

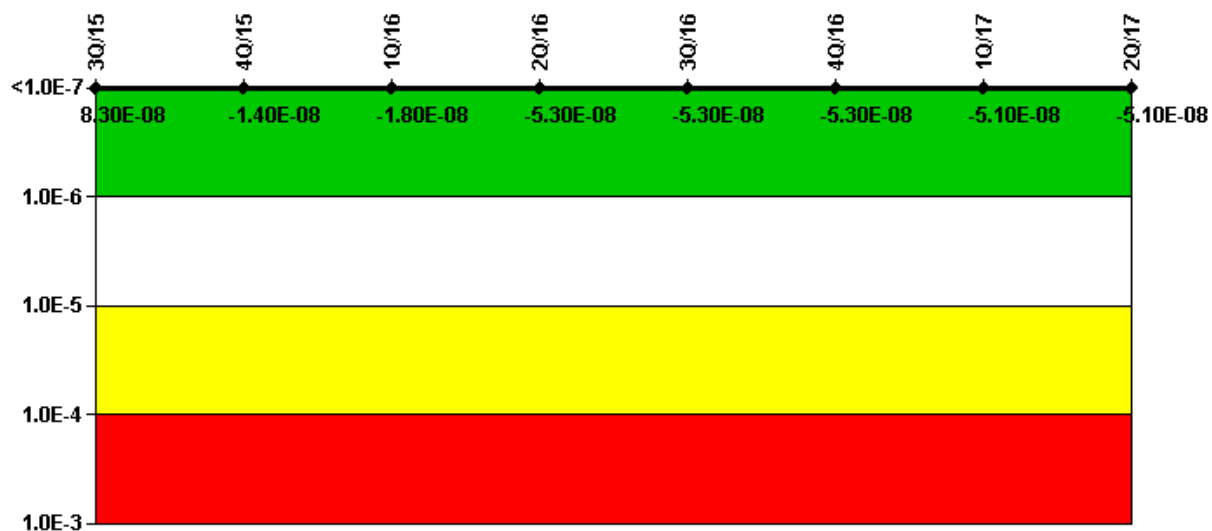
Mitigating Systems Performance Index, Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-3.03E-09	-1.02E-09	-8.56E-09	-1.89E-09	2.72E-09	-1.20E-08	-9.91E-09	2.12E-09
URI (ΔCDF)	-2.51E-08	-2.51E-08	-3.71E-08	-3.78E-08	-3.88E-08	-3.86E-08	-3.95E-08	-4.09E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.80E-08	-2.60E-08	-4.60E-08	-4.00E-08	-3.60E-08	-5.10E-08	-4.90E-08	-3.90E-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

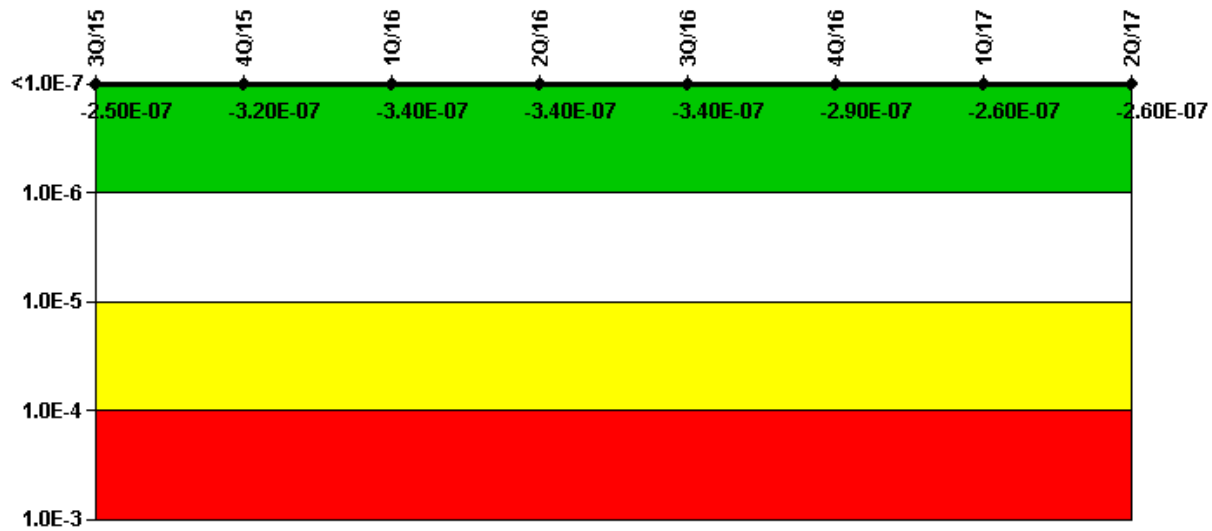
Mitigating Systems Performance Index, Residual Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	8.34E-08	-8.96E-09	-1.31E-08	-4.82E-08	-4.82E-08	-4.82E-08	-4.54E-08	-4.54E-08
URI (ΔCDF)	-4.45E-10	-4.65E-09	-4.78E-09	-5.03E-09	-4.92E-09	-4.92E-09	-5.56E-09	-5.76E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.30E-08	-1.40E-08	-1.80E-08	-5.30E-08	-5.30E-08	-5.30E-08	-5.10E-08	-5.10E-08

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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

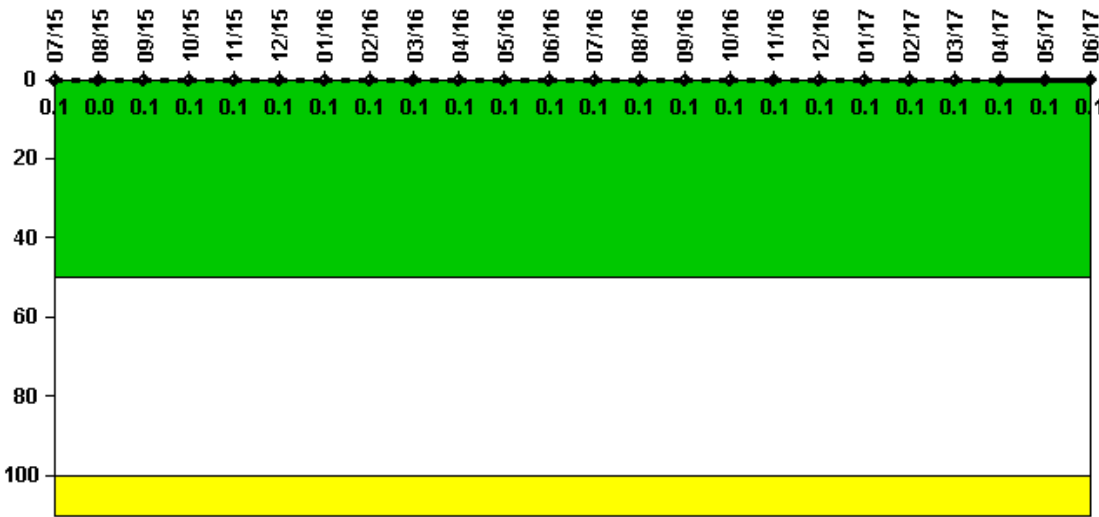
	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-2.91E-08	-1.00E-07	-8.91E-08	-8.97E-08	-9.03E-08	-4.53E-08	-1.24E-08	-1.24E-08
URI (ΔCDF)	-2.23E-07	-2.23E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.49E-07	-2.49E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-07	-3.20E-07	-3.40E-07	-3.40E-07	-3.40E-07	-2.90E-07	-2.60E-07	-2.60E-07

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Licensee Comments:

3Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

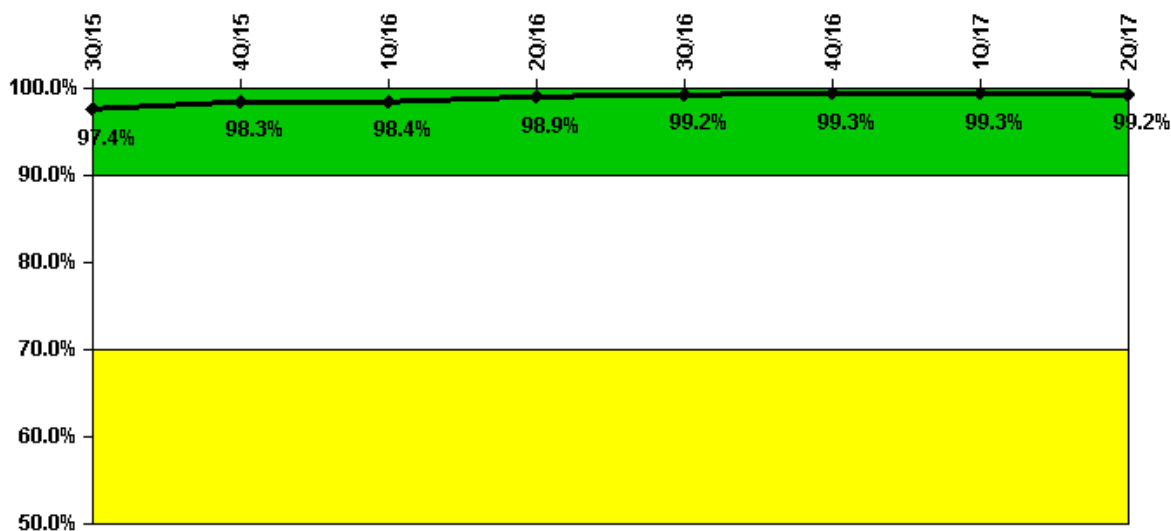
Notes

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	0.000301	0.000249	0.000332	0.000394	0.000406	0.000431	0.000415	0.000444	0.000417	0.000303	0.000322	0.000484
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	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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	0.000531	0.000540	0.000535	0.000598	0.000592	0.000369	0.000694	0.000349	0.000276	0.000283	0.000316	0.000313
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

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Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

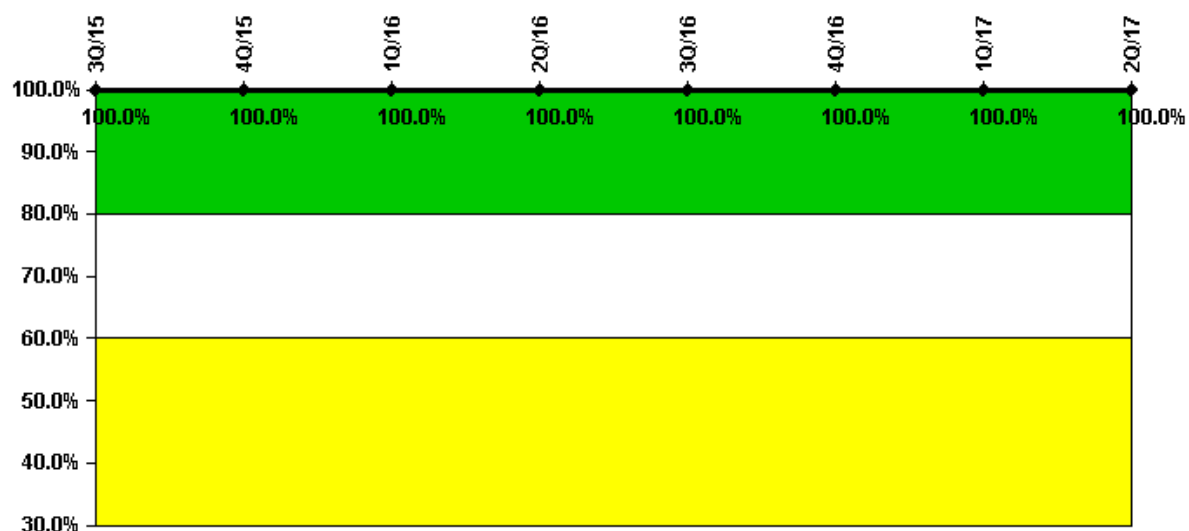
Drill/Exercise Performance	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful opportunities	44.0	60.0	42.0	30.0	74.0	71.0	8.0	45.0
Total opportunities	45.0	60.0	42.0	30.0	74.0	72.0	8.0	46.0

Indicator value 97.4% 98.3% 98.4% 98.9% 99.2% 99.3% 99.3% 99.2%

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Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

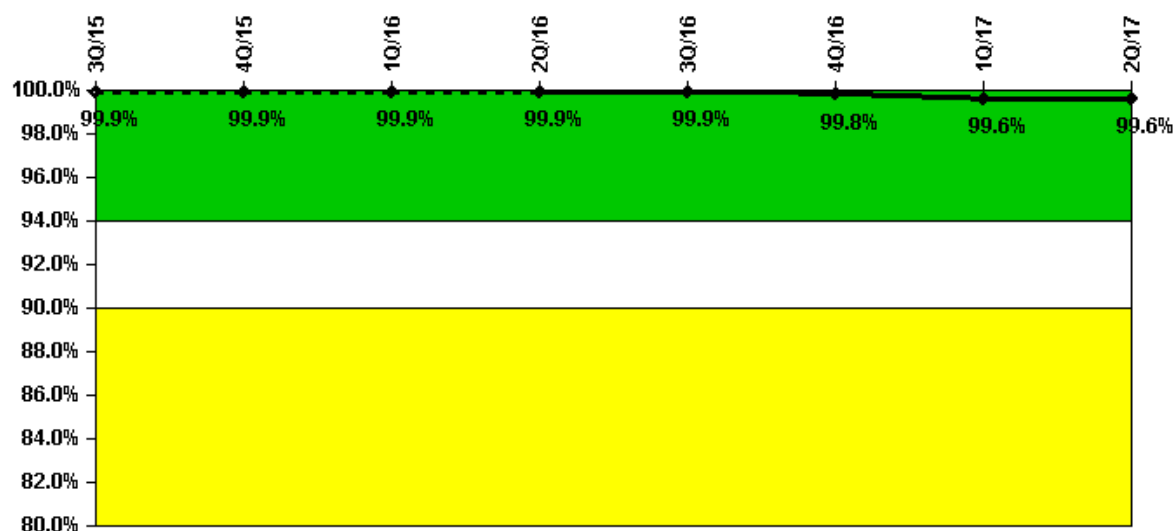
ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	46.0	46.0	52.0	55.0	51.0	52.0	48.0	50.0
Total Key personnel	46.0	46.0	52.0	55.0	51.0	52.0	48.0	50.0

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

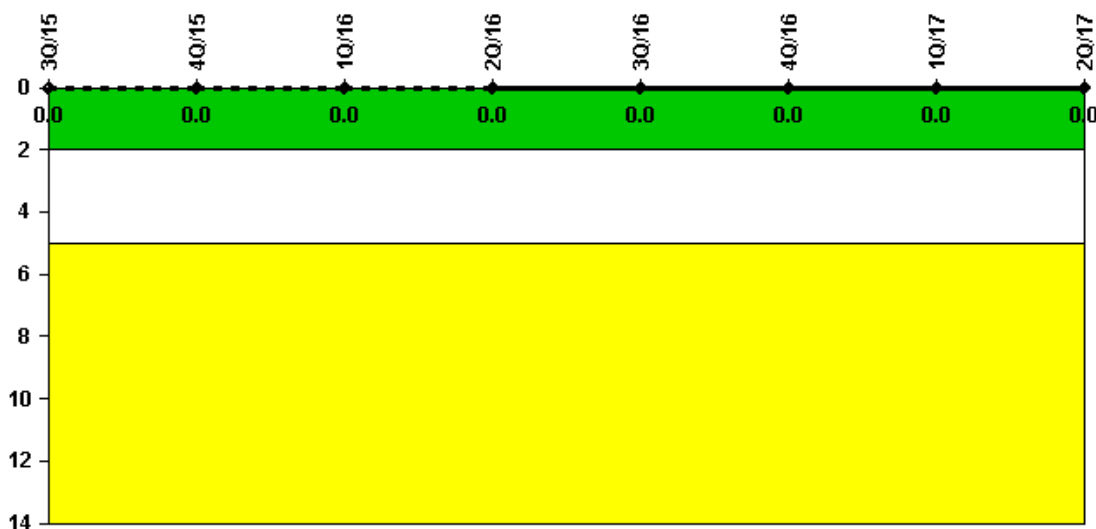
Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	949	948	949	948	946	945	943	947
Total sirens-tests	949	949	949	949	949	949	949	949

Indicator value 99.9% 99.9% 99.9% 99.9% 99.9% 99.8% 99.6% 99.6%

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

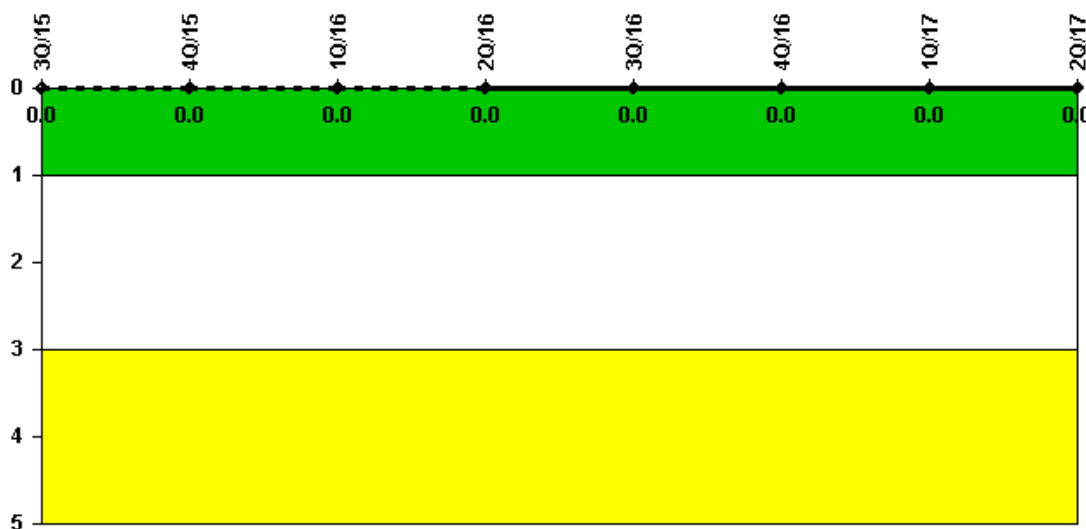
Occupational Exposure Control Effectiveness 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

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

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