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Seabrook 1 – Quarterly Performance Indicators

3Q/2017 Performance Indicators

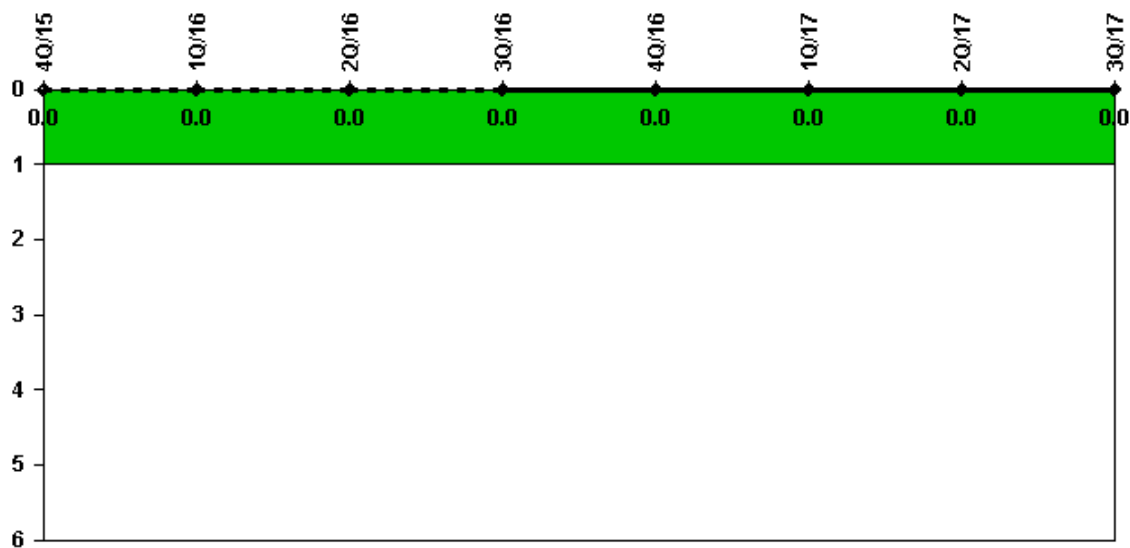
The solid trend line represents the current reporting period.

Licensee's General Comments: none

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- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
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- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
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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

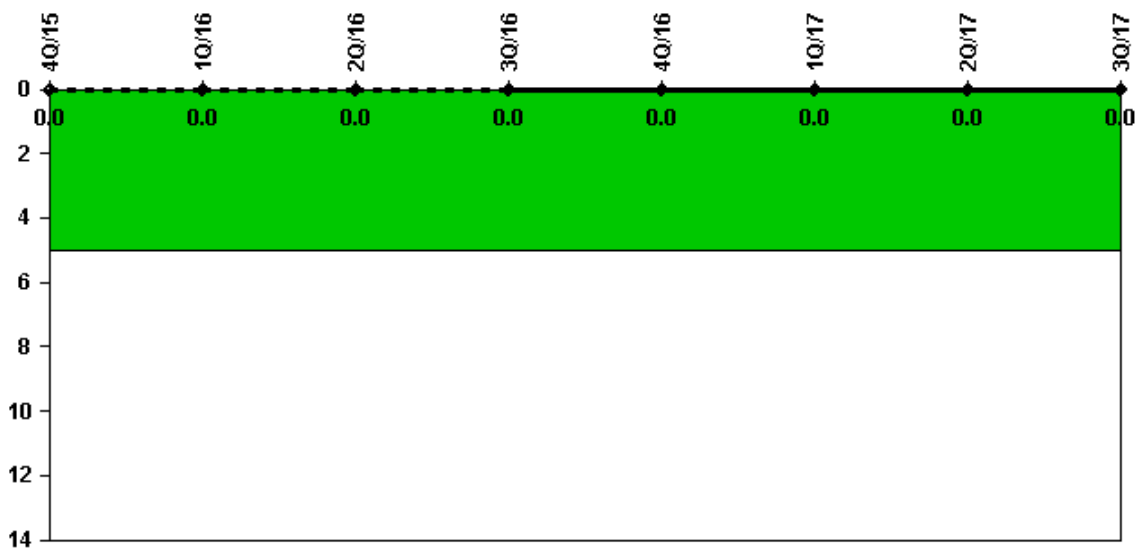
Scrams with complications 0 0 0 0 0 0 0 0

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

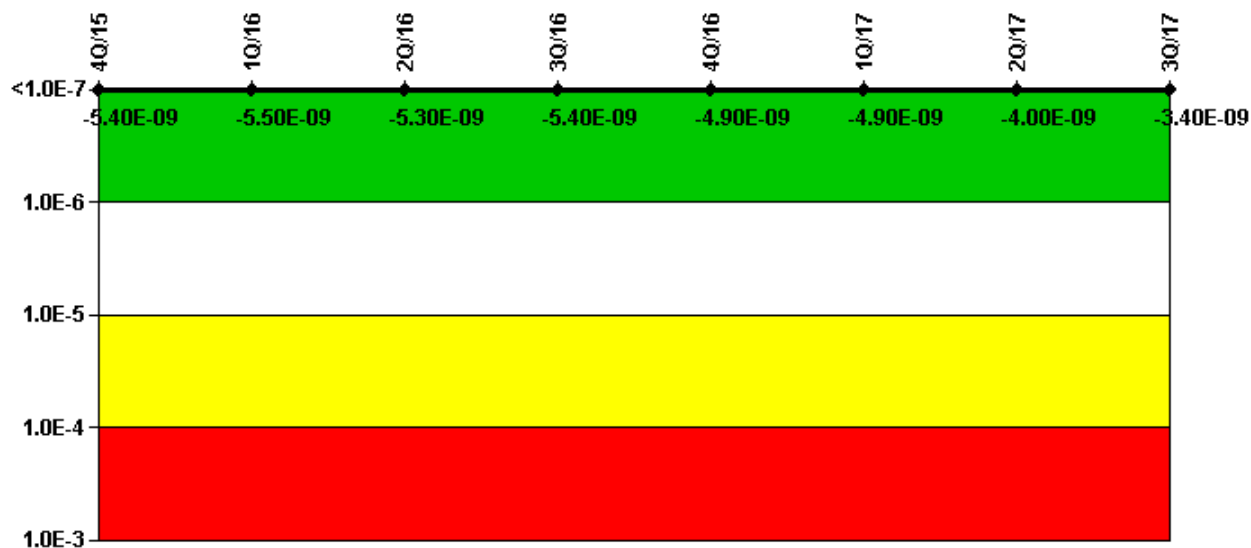
Mitigating Systems Performance Index, Emergency AC Power System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-3.06E-08	-3.06E-08	-1.46E-08	-1.49E-08	-2.56E-09	-1.70E-08	-1.61E-08	-1.73E-08
URI (ΔCDF)	-2.13E-08	-1.97E-08	-2.07E-08	-2.07E-08	-2.13E-08	-2.24E-08	-2.18E-08	-2.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.20E-08	-5.00E-08	-3.50E-08	-3.60E-08	-2.40E-08	-3.90E-08	-3.80E-08	-3.90E-08

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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

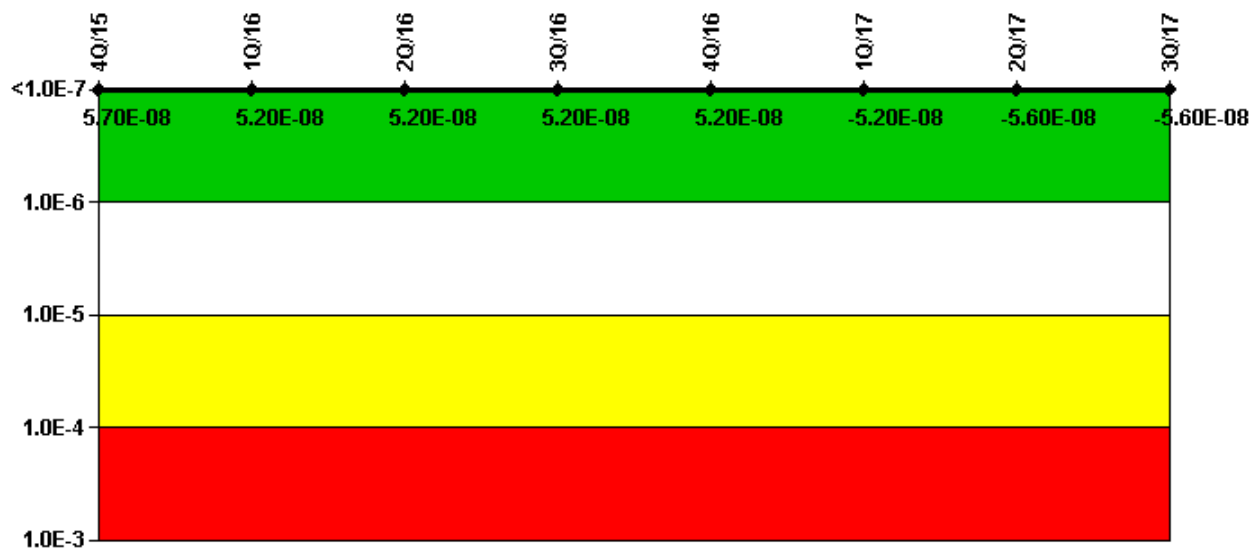
Mitigating Systems Performance Index, High Pressure Injection System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-3.11E-09	-3.11E-09	-2.89E-09	-3.02E-09	-2.56E-09	-2.57E-09	-1.72E-09	-1.17E-09
URI (Δ CDF)	-2.31E-09	-2.35E-09	-2.36E-09	-2.37E-09	-2.36E-09	-2.36E-09	-2.25E-09	-2.25E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.40E-09	-5.50E-09	-5.30E-09	-5.40E-09	-4.90E-09	-4.90E-09	-4.00E-09	-3.40E-09

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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

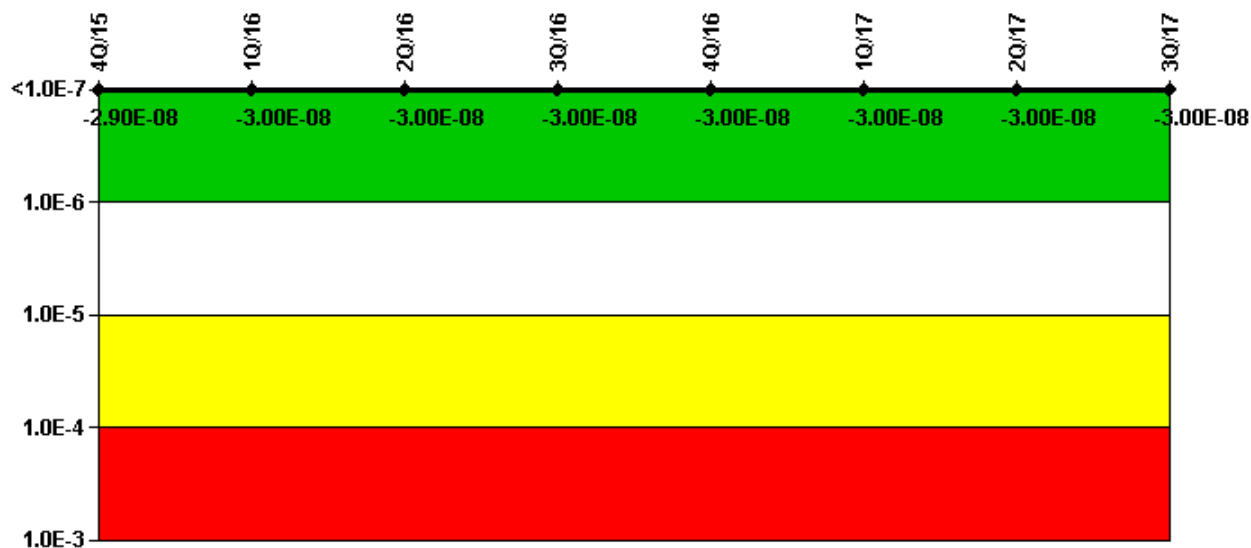
Mitigating Systems Performance Index, Heat Removal System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-1.87E-08	-1.87E-08	-1.87E-08	-1.87E-08	-1.87E-08	-1.87E-08	-1.87E-08	-1.87E-08
URI (Δ CDF)	7.57E-08	7.07E-08	7.07E-08	7.08E-08	7.09E-08	-3.31E-08	-3.73E-08	-3.72E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.70E-08	5.20E-08	5.20E-08	5.20E-08	5.20E-08	-5.20E-08	-5.60E-08	-5.60E-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

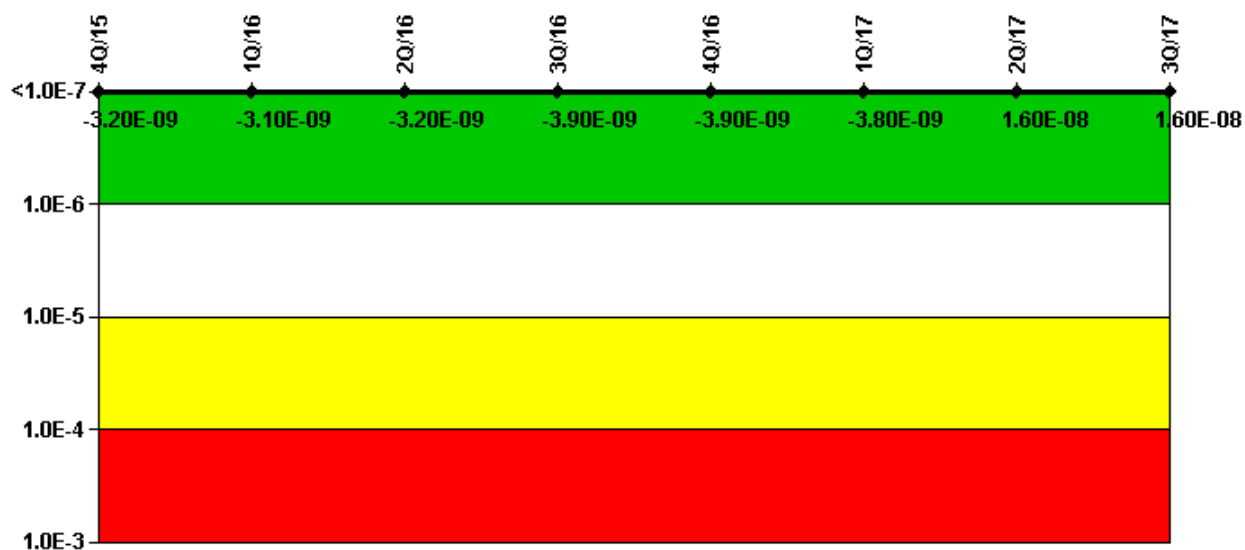
Mitigating Systems Performance Index, Residual Heat Removal System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-8.49E-09	-8.49E-09	-8.49E-09	-8.49E-09	-8.49E-09	-8.49E-09	-8.49E-09	-8.49E-09
URI (Δ CDF)	-2.10E-08	-2.13E-08	-2.13E-08	-2.13E-08	-2.14E-08	-2.11E-08	-2.13E-08	-2.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-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

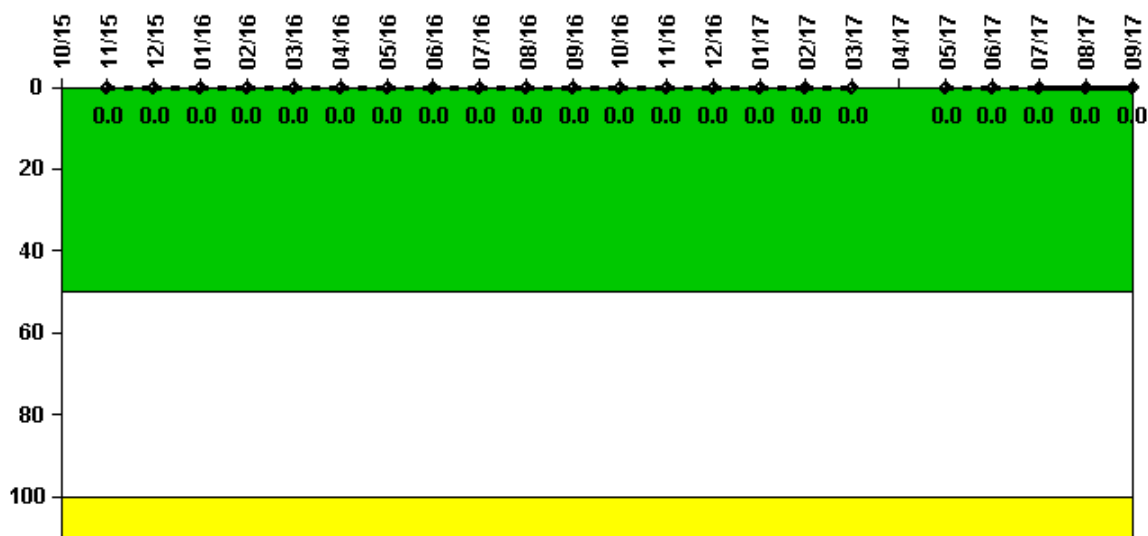
Mitigating Systems Performance Index, Cooling Water Systems

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-1.66E-14	-1.66E-14	-1.66E-14	-1.66E-14	-1.66E-14	-1.66E-14	-1.66E-14	-1.66E-14
URI (ΔCDF)	-3.18E-09	-3.06E-09	-3.22E-09	-3.94E-09	-3.94E-09	-3.81E-09	1.65E-08	1.64E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.20E-09	-3.10E-09	-3.20E-09	-3.90E-09	-3.90E-09	-3.80E-09	1.60E-08	1.60E-08

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Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

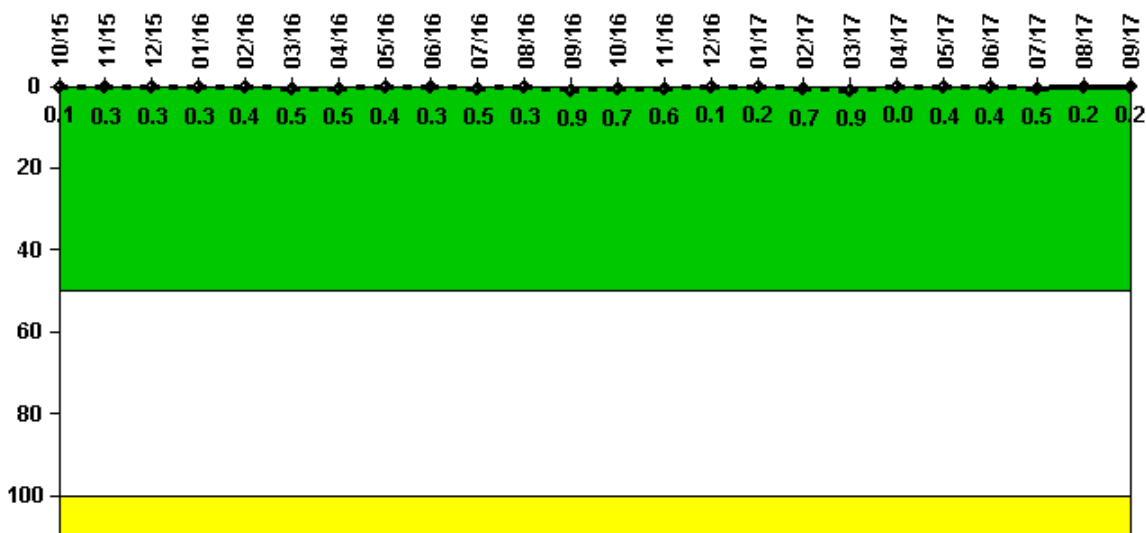
Reactor Coolant System Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	N/A	0.000038	0.000039	0.000035	0.000069	0.000078	0.000045	0.000044	0.000058	0.000050	0.000048	0.000054
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	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	0.000052	0.000060	0.000069	0.000068	0.000065	0.000070	N/A	0.000061	0.000034	0.000043	0.000049	0.000041
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	N/A	0	0	0	0

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Licensee Comments:

12/15: RCS activity was not calculated for the month of October as the unit was in a refueling outage.

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	0.011	0.029	0.027	0.031	0.040	0.048	0.048	0.035	0.029	0.052	0.025	0.091
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

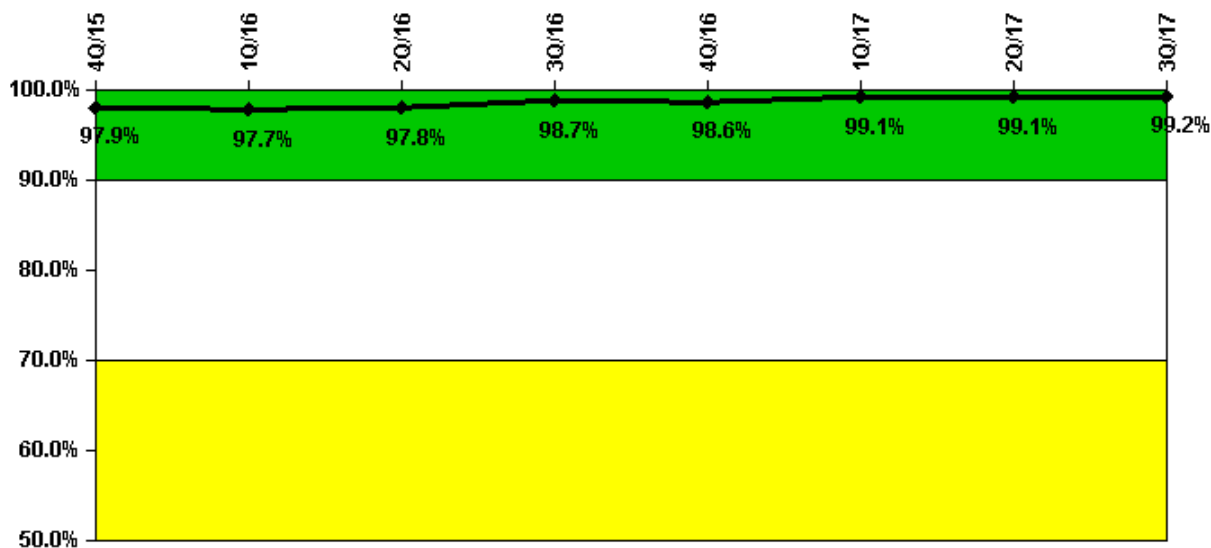
Indicator value	0.1	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.3	0.5	0.3	0.9
Reactor Coolant System Leakage	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum leakage	0.071	0.063	0.014	0.015	0.071	0.087	0	0.041	0.035	0.045	0.022	0.022
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Indicator value	0.7	0.6	0.1	0.2	0.7	0.9	0	0.4	0.4	0.5	0.2	0.2
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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	36.0	42.0	32.0	27.0	23.0	21.0	40.0	17.0
Total opportunities	36.0	43.0	32.0	27.0	23.0	21.0	41.0	17.0

Indicator value **97.9% 97.7% 97.8% 98.7% 98.6% 99.1% 99.1% 99.2%**

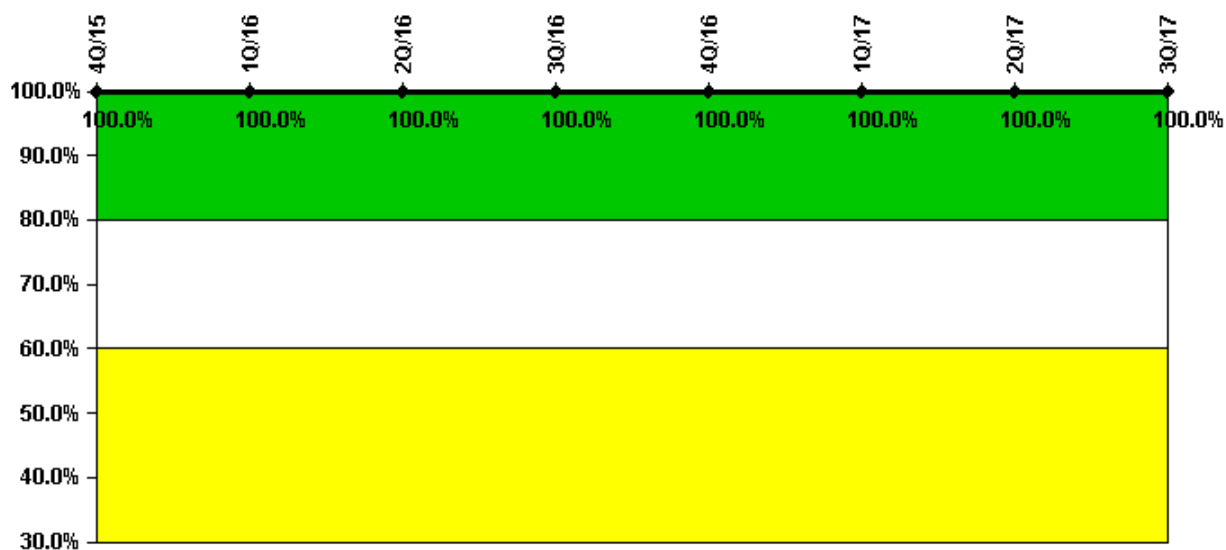
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Licensee Comments:

4Q/16: October 2016 value revised after discovering number was under reported. This revision did not affect the color of the indicator.

3Q/16: September 2016 value revised after discovering number was under reported. This revision did not affect the color of the indicator

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

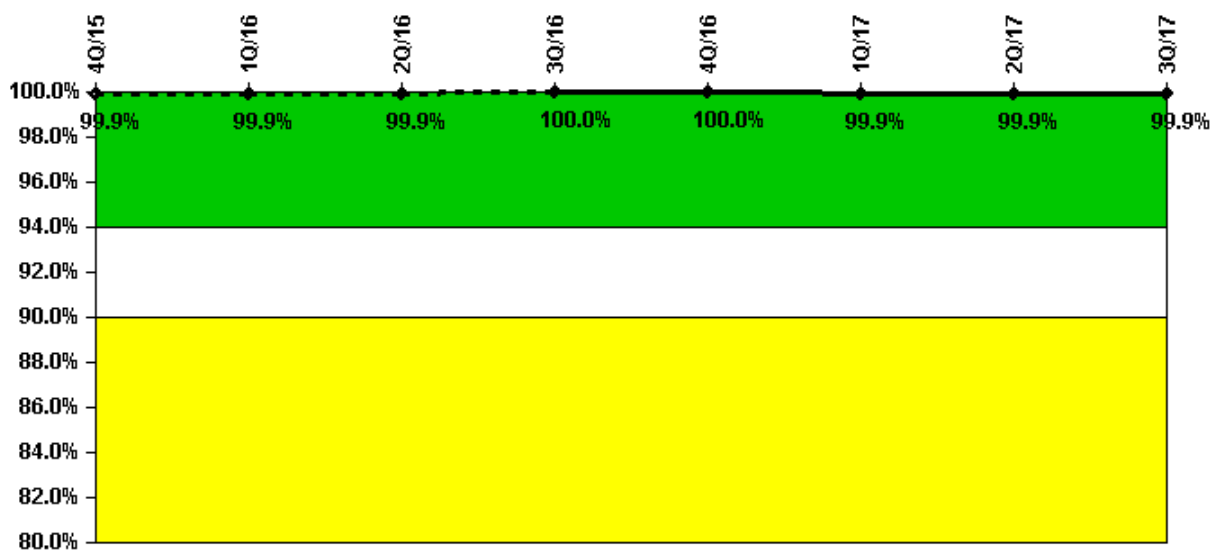
ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	87.0	93.0	97.0	97.0	93.0	93.0	94.0	95.0
Total Key personnel	87.0	93.0	97.0	97.0	93.0	93.0	94.0	95.0

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

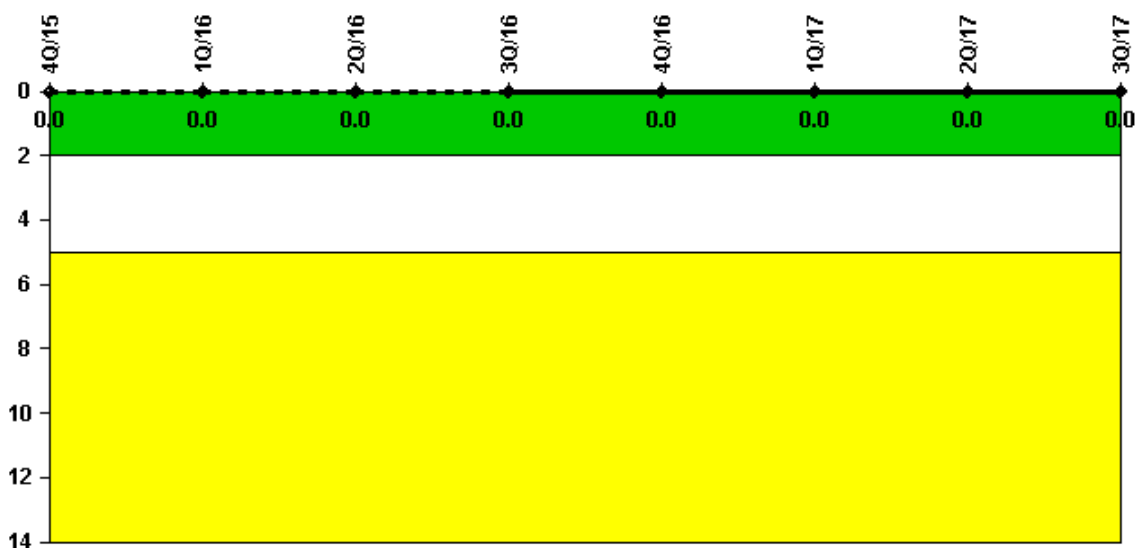
Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	847	726	847	725	847	725	847	725
Total sirens-tests	847	726	847	726	847	726	847	726

Indicator value **99.9% 99.9% 99.9% 100.0% 100.0% 99.9% 99.9% 99.9%**

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

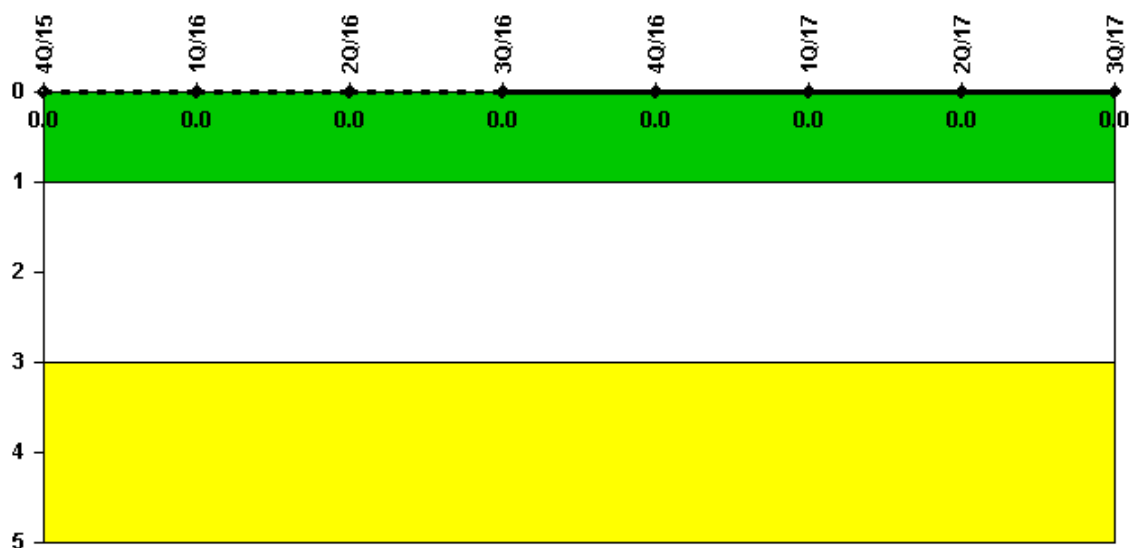
Occupational Exposure Control Effectiveness 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

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