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Summer – Quarterly Performance Indicators

3Q/2017 Performance Indicators

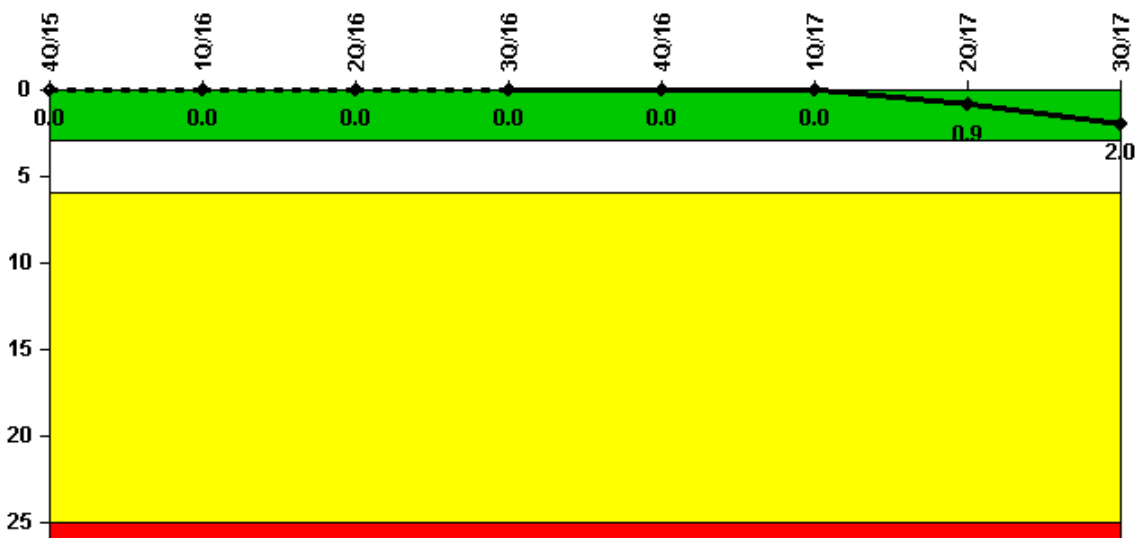
The solid trend line represents the current reporting period.

Licensee's General Comments: EP01 2Q2017 data corrected per CR-17-05448; EP02 1Q2016, 2Q2016, 3Q2016, 4Q2016, 1Q2017, 2Q2017 corrected per CR-17-04287; MS06 Unplanned Unavailability Hour of 22.7 hr. was reduced to 0 because the plant was shutdown with reactor trip breakers open.

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- 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

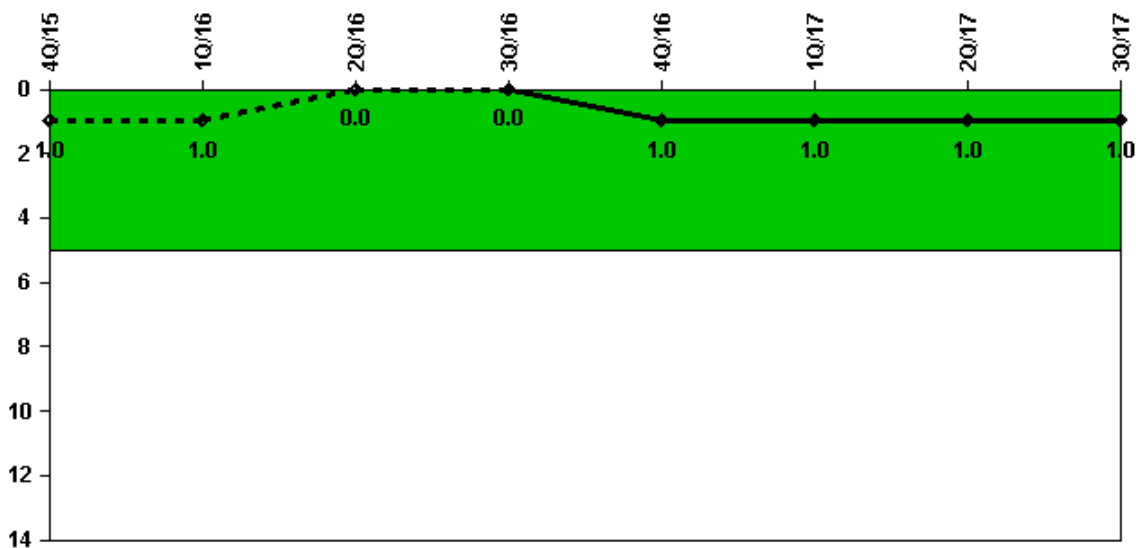
Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	0	0	0	0	0	0	1.0	1.0
Critical hours	786.4	2183.0	2184.0	2208.0	2209.0	2159.0	860.6	1950.5

Indicator value	0	0	0	0	0	0	0.9	2.0
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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 1 0 0 0

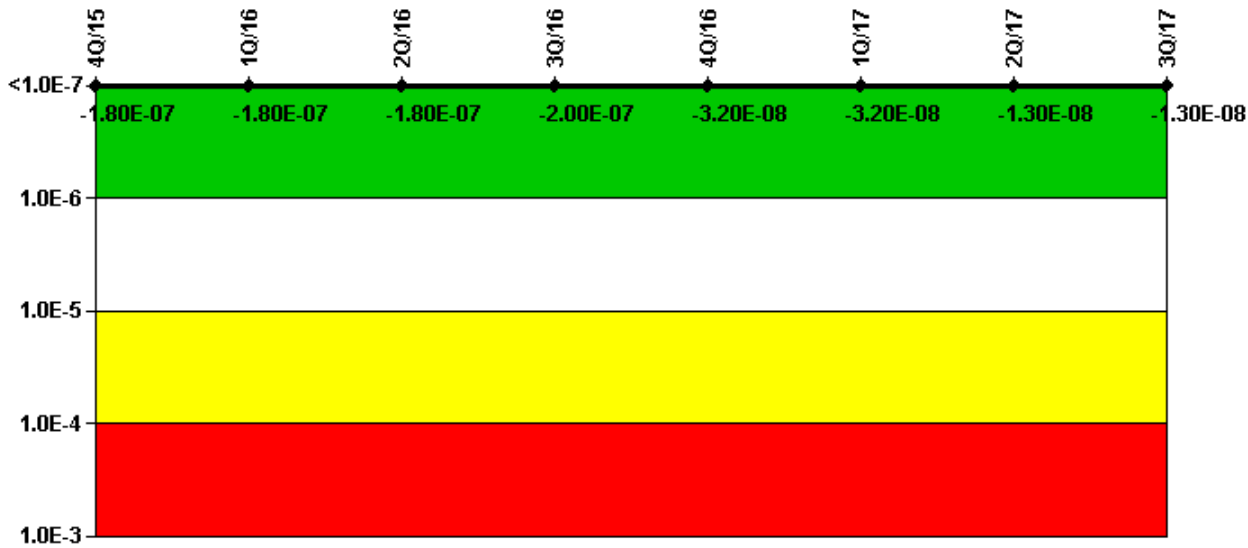
Indicator value 1 1 0 0 1 1 1 1

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Licensee Comments:

4Q/16: LER 2016-003, Steam Propagation Door Discovered Propped Open.

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

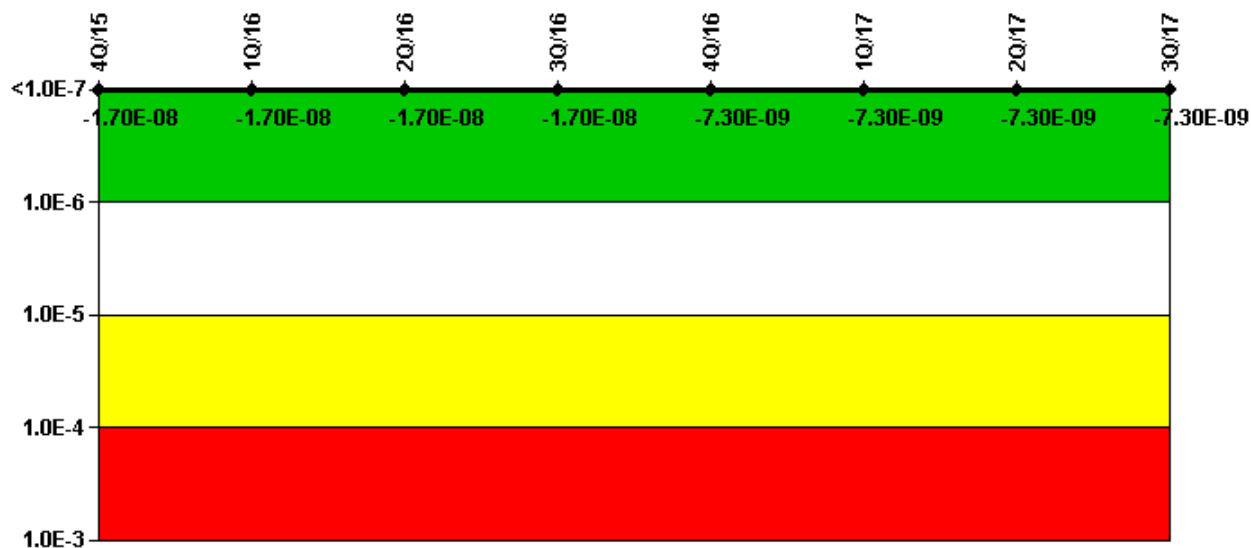
Mitigating Systems Performance Index, Emergency AC Power System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-2.03E-09	-2.22E-09	6.67E-10	-1.75E-08	-2.76E-09	-2.76E-09	-2.76E-09	-2.76E-09
URI (ΔCDF)	-1.78E-07	-1.78E-07	-1.78E-07	-1.78E-07	-2.93E-08	-2.93E-08	-1.05E-08	-1.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.80E-07	-2.00E-07	-3.20E-08	-3.20E-08	-1.30E-08	-1.30E-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

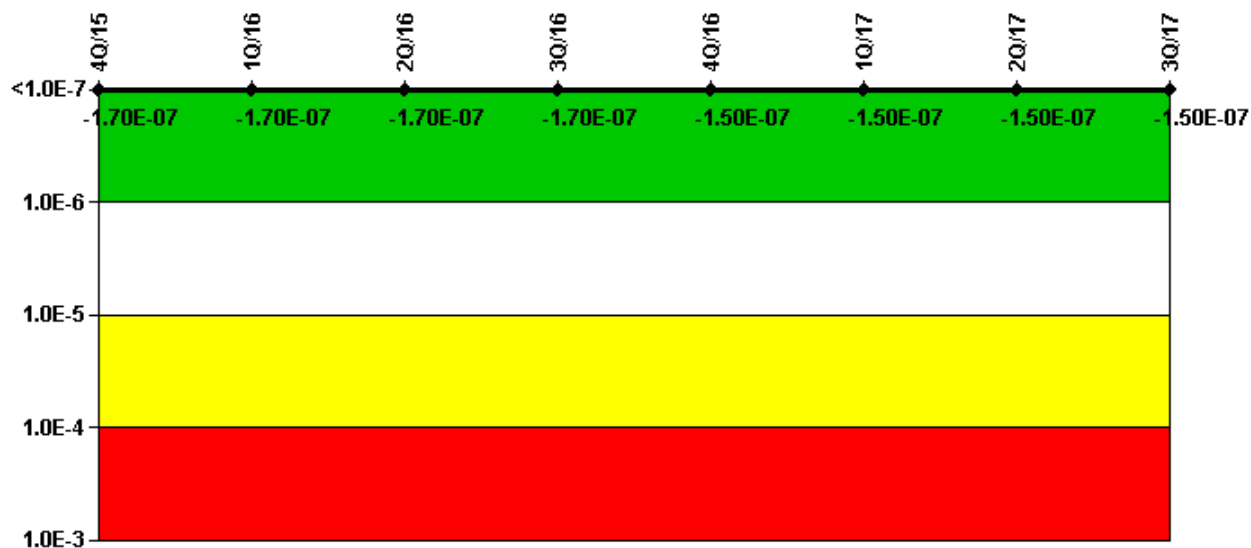
Mitigating Systems Performance Index, High Pressure Injection System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-2.41E-09	-2.41E-09	-2.41E-09	-2.41E-09	-1.38E-09	-1.38E-09	-1.38E-09	-1.38E-09
URI (ΔCDF)	-1.43E-08	-1.43E-08	-1.43E-08	-1.43E-08	-5.97E-09	-5.97E-09	-5.97E-09	-5.97E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-08	-1.70E-08	-1.70E-08	-1.70E-08	-7.30E-09	-7.30E-09	-7.30E-09	-7.30E-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

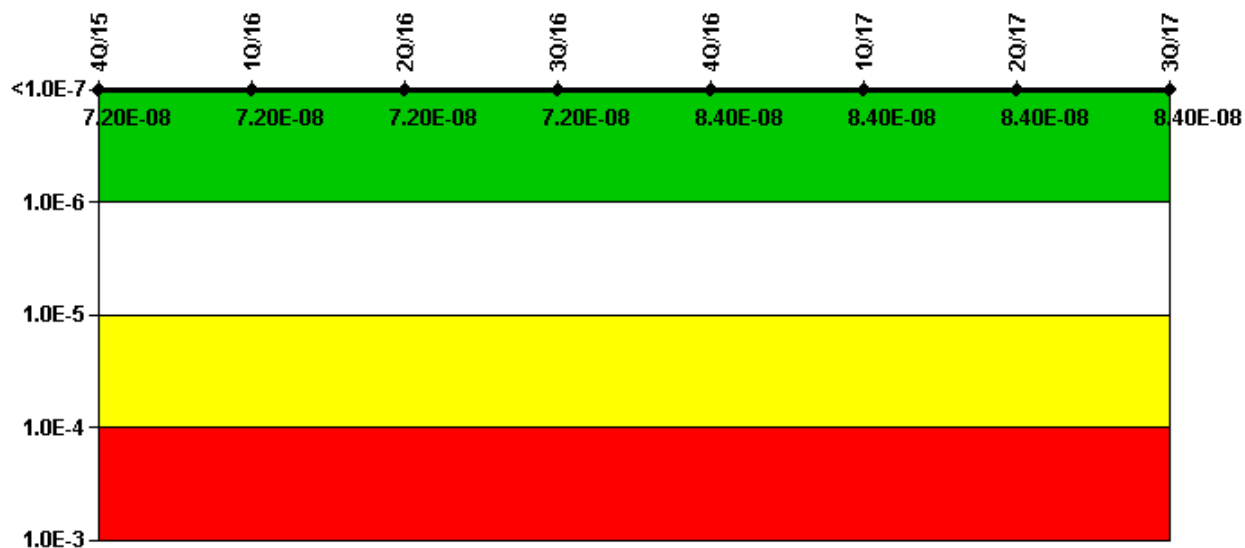
Mitigating Systems Performance Index, Heat Removal System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-1.79E-08	-1.77E-08	-1.84E-08	-1.85E-08	-1.64E-08	-1.64E-08	-1.64E-08	-1.64E-08
URI (Δ CDF)	-1.56E-07	-1.56E-07	-1.56E-07	-1.56E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.70E-07	-1.70E-07	-1.70E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07

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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

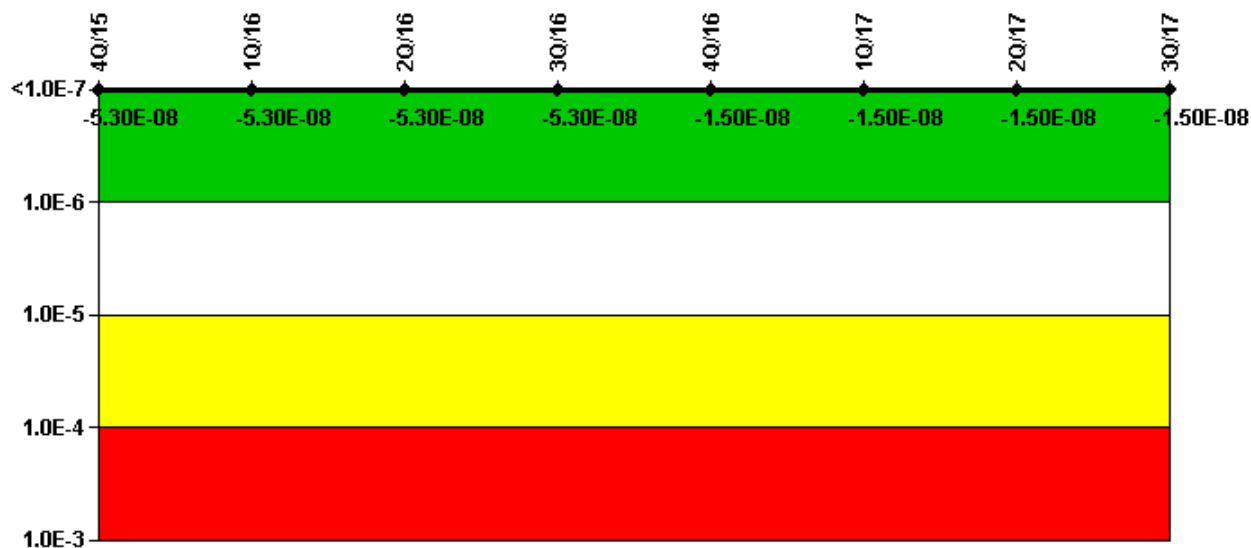
Mitigating Systems Performance Index, Residual Heat Removal System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-7.82E-09	-7.82E-09	-7.82E-09	-7.82E-09	-5.63E-09	-5.63E-09	-5.87E-09	-5.87E-09
URI (Δ CDF)	7.95E-08	7.95E-08	7.95E-08	7.95E-08	9.01E-08	9.01E-08	9.01E-08	9.01E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.20E-08	7.20E-08	7.20E-08	7.20E-08	8.40E-08	8.40E-08	8.40E-08	8.40E-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

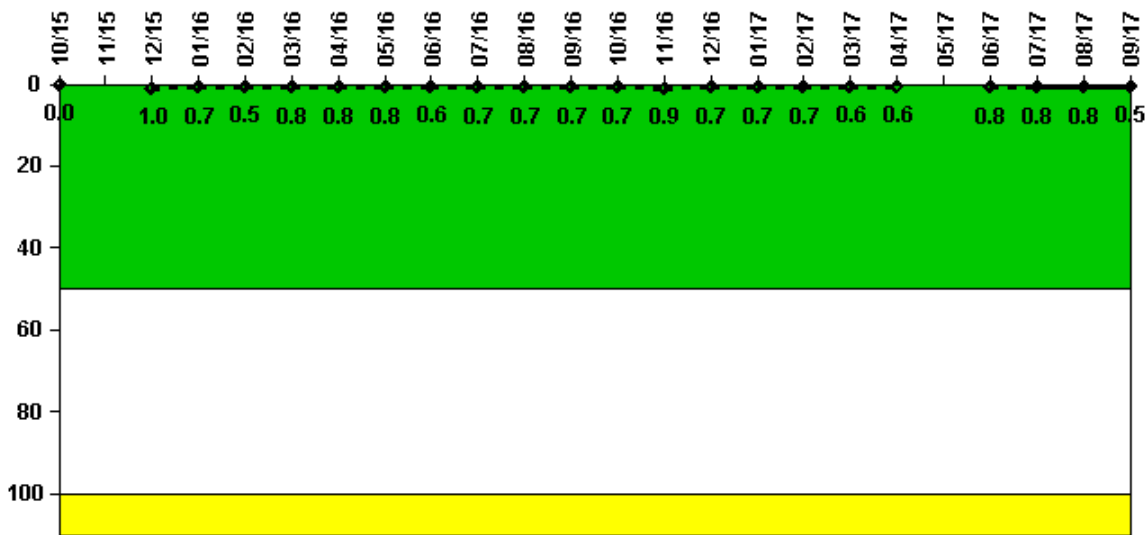
Mitigating Systems Performance Index, Cooling Water Systems

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-6.95E-09	-6.95E-09	-6.95E-09	-6.95E-09	-2.34E-09	-2.34E-09	-2.34E-09	-2.34E-09
URI (Δ CDF)	-4.57E-08	-4.57E-08	-4.57E-08	-4.57E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.30E-08	-5.30E-08	-5.30E-08	-5.30E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08

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Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

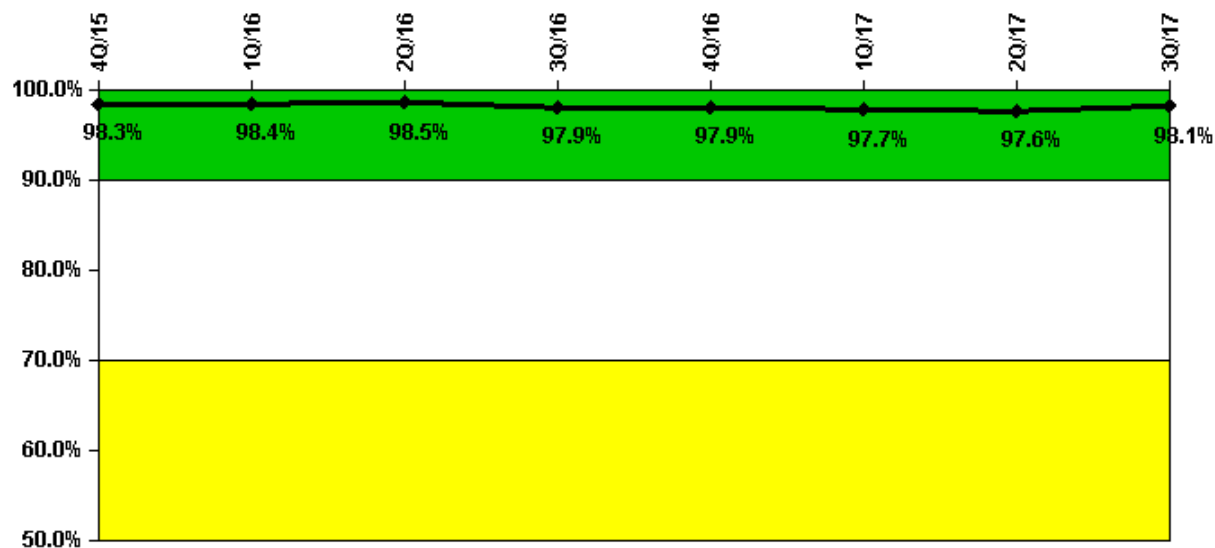
Notes

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	N/A	0.100	0.070	0.050	0.080	0.080	0.080	0.060	0.070	0.070	0.070
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	N/A	1.0	0.7	0.5	0.8	0.8	0.8	0.6	0.7	0.7	0.7
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	0.070	0.090	0.070	0.070	0.070	0.060	0.060	N/A	0.080	0.080	0.080	0.050
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	0.9	0.7	0.7	0.7	0.6	0.6	N/A	0.8	0.8	0.8	0.5

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Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

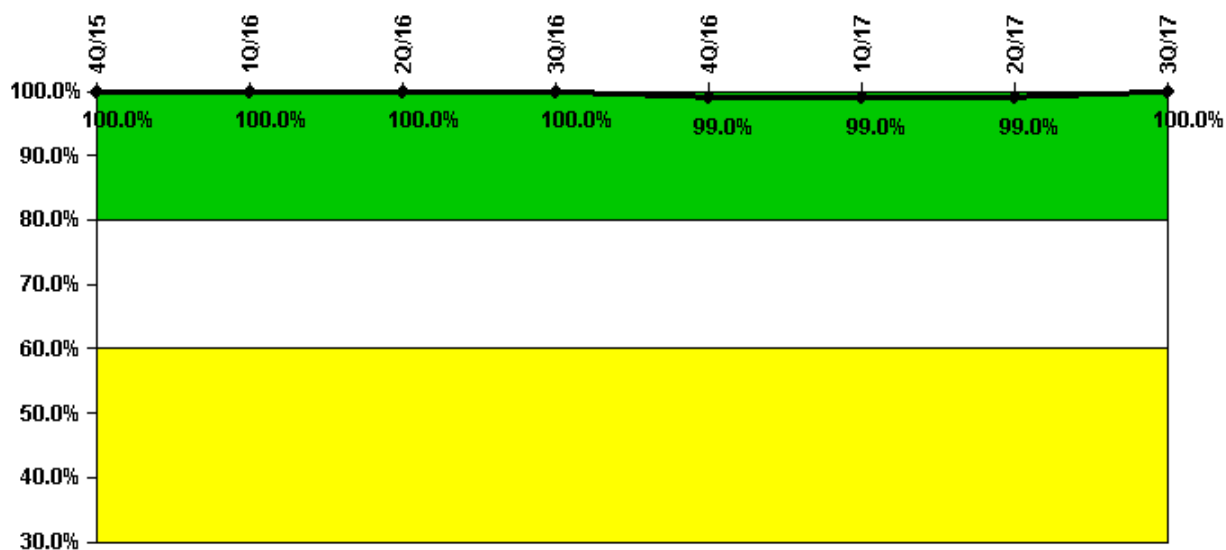
Drill/Exercise Performance	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful opportunities	0	43.0	30.0	82.0	39.0	58.0	6.0	53.0
Total opportunities	0	43.0	30.0	84.0	40.0	59.0	6.0	55.0

Indicator value **98.3% 98.4% 98.5% 97.9% 97.9% 97.7% 97.6% 98.1%**

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Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

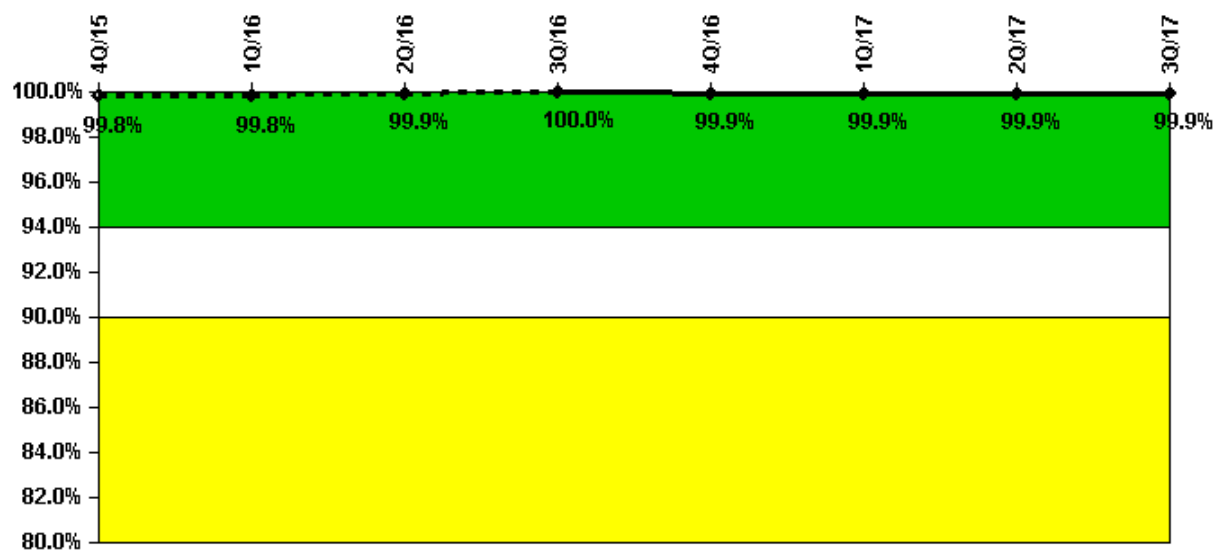
ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	83.0	87.0	94.0	95.0	100.0	103.0	101.0	90.0
Total Key personnel	83.0	87.0	94.0	95.0	101.0	104.0	102.0	90.0

Indicator value **100.0% 100.0% 100.0% 100.0% 99.0% 99.0% 99.0% 100.0%**

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Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

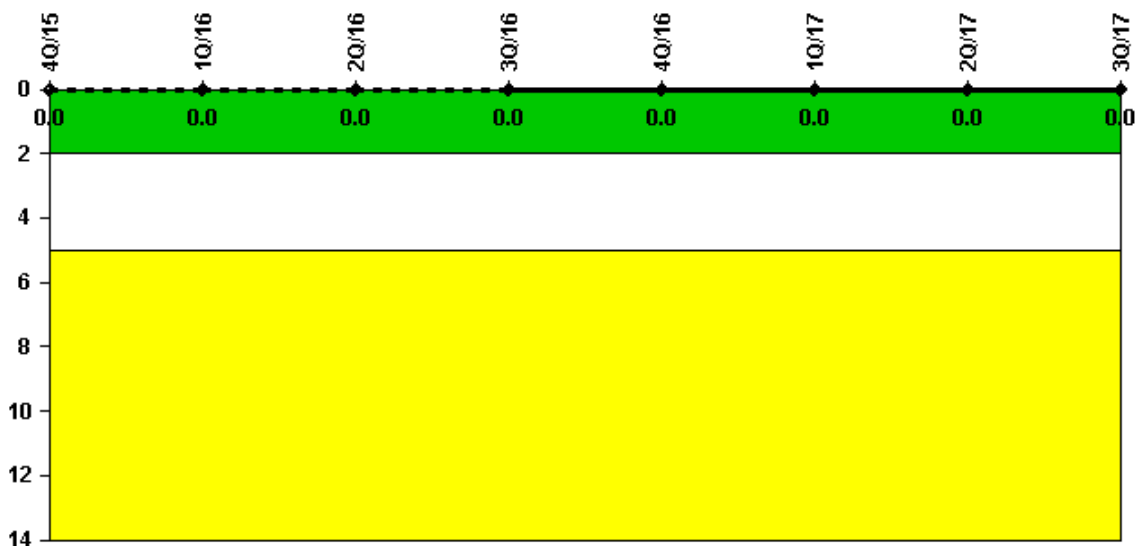
Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	862	763	872	763	761	762	872	763
Total sirens-tests	863	763	872	763	763	763	872	763

Indicator value **99.8% 99.8% 99.9% 100.0% 99.9% 99.9% 99.9% 99.9%**

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

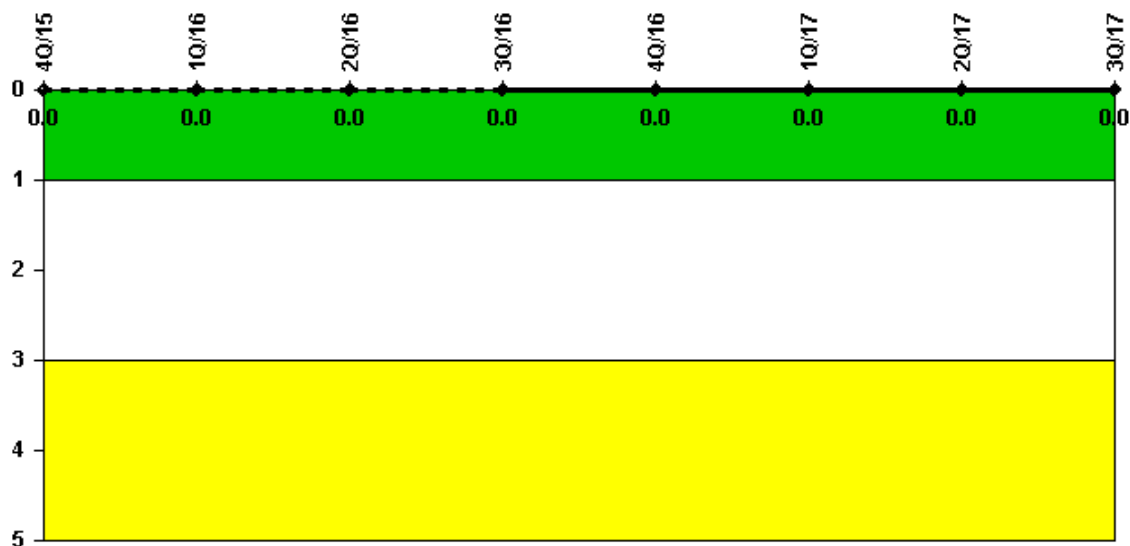
Notes

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