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Clinton – Quarterly Performance Indicators

1Q/2017 Performance Indicators

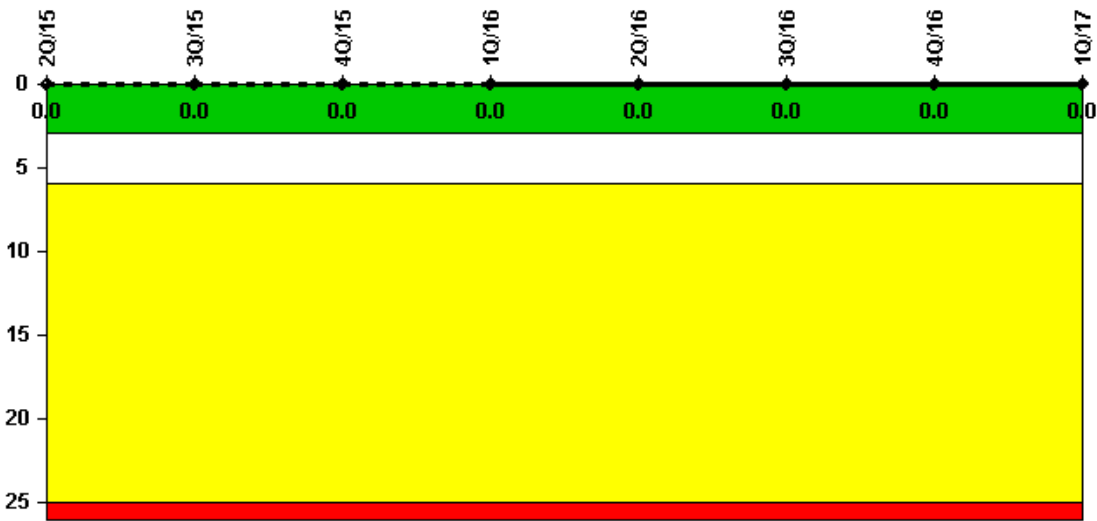
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- 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

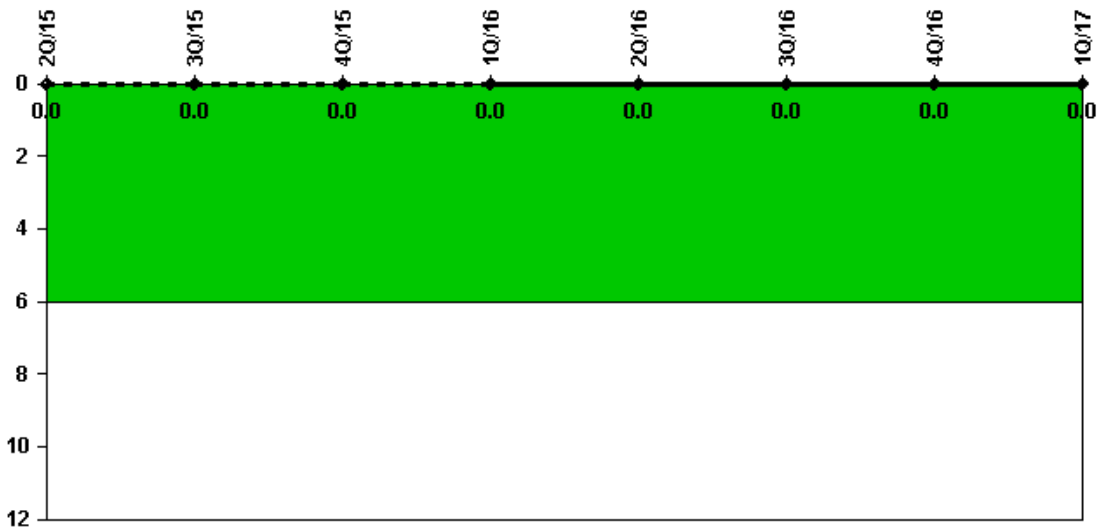
Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1729.2	2208.0	2209.0	2183.0	1937.9	2208.0	2209.0	2159.0
Indicator value	0	0	0	0	0	0	0	0

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Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

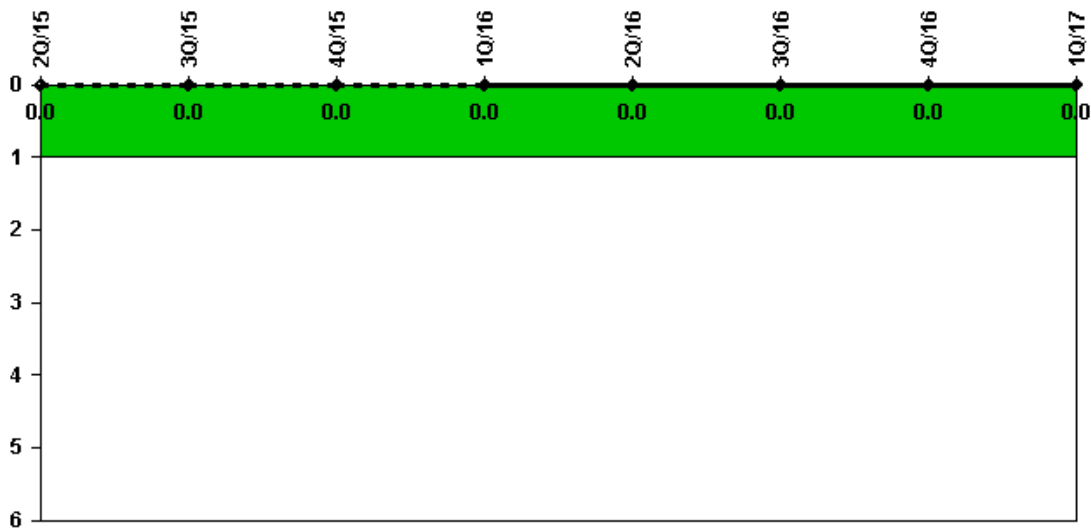
Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1729.2	2208.0	2209.0	2183.0	1937.9	2208.0	2209.0	2159.0
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

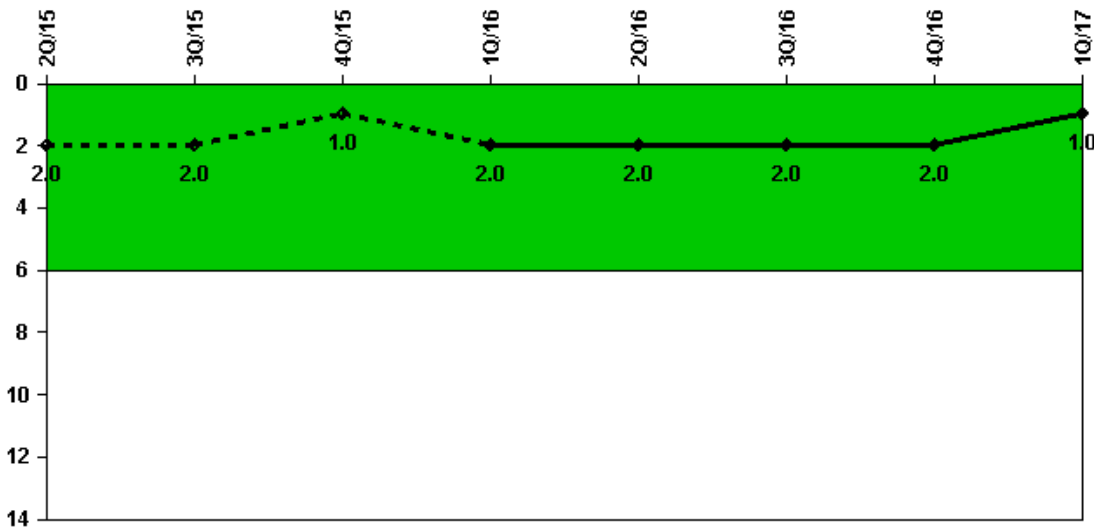
Notes

Unplanned Scrams with Complications	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/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 (BWR)



Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR) 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17

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

Indicator value 2 2 1 2 2 2 2 1

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Licensee Comments:

2Q/16: Safety System Functional Failure reported to NRC under LER 2016-003 issued on 05/23/16 for Bypassing Both Divisions of Reactor Water Cleanup Leak Detection System is a Reportable Loss of Safety Function.

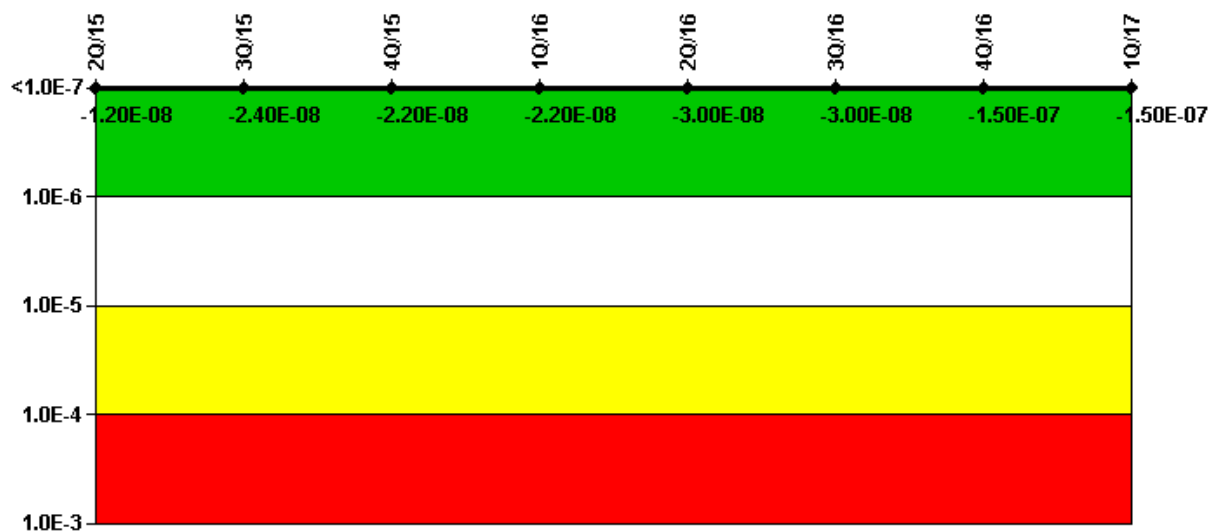
1Q/16: Safety System Functional Failure reported to NRC under LER 2016-001-00 issued 03/18/2016 for Continuous Containment Purge Exhaust Fan trip due to unvalidated assumptions in work planning resulted in an unanalyzed condition of Primary to Secondary Containment differential pressure and safety system functional failure.

3Q/15: A loss of safety function reported to NRC under LER 2015-004-00 issued on 8/24/15 was counted as a third quarter 2015 safety system functional failure (SSFF) performance indicator occurrence. An engineering evaluation has concluded that this event was not a SSFF, therefore the third quarter 2015 data has been changed from 1 to 0. This change does not affect the indicator color of green.

3Q/15: Safety System Functional Failure reported to NRC under LER 2015-004-00 issued 08/24/2015 for trip of Emergency Reserve Auxiliary Transformer Static VAR Compensator following lightning strike on 138 kV offsite source causes positive Secondary Containment pressure becoming incapable of performing its safety function.

2Q/15: Safety System Functional Failure reported to NRC under LER 2015-001-00 issued 04/07/2015 for Division 1 and Division 2 Reactor Water Cleanup System High Differential Flow Instruments becoming incapable of performing their safety function.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

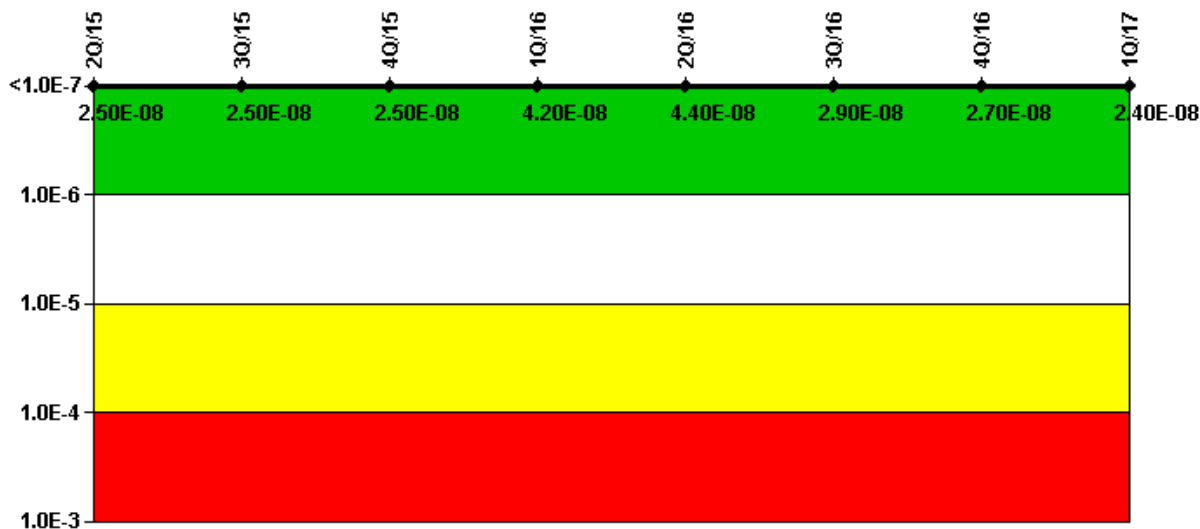
Mitigating Systems Performance Index, Emergency AC Power System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	9.30E-11	-1.22E-08	-9.78E-09	-1.00E-08	-1.82E-08	-1.82E-08	-2.19E-08	-2.19E-08
URI (ΔCDF)	-1.21E-08	-1.21E-08	-1.21E-08	-1.21E-08	-1.21E-08	-1.21E-08	-1.30E-07	-1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-08	-2.40E-08	-2.20E-08	-2.20E-08	-3.00E-08	-3.00E-08	-1.50E-07	-1.50E-07

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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

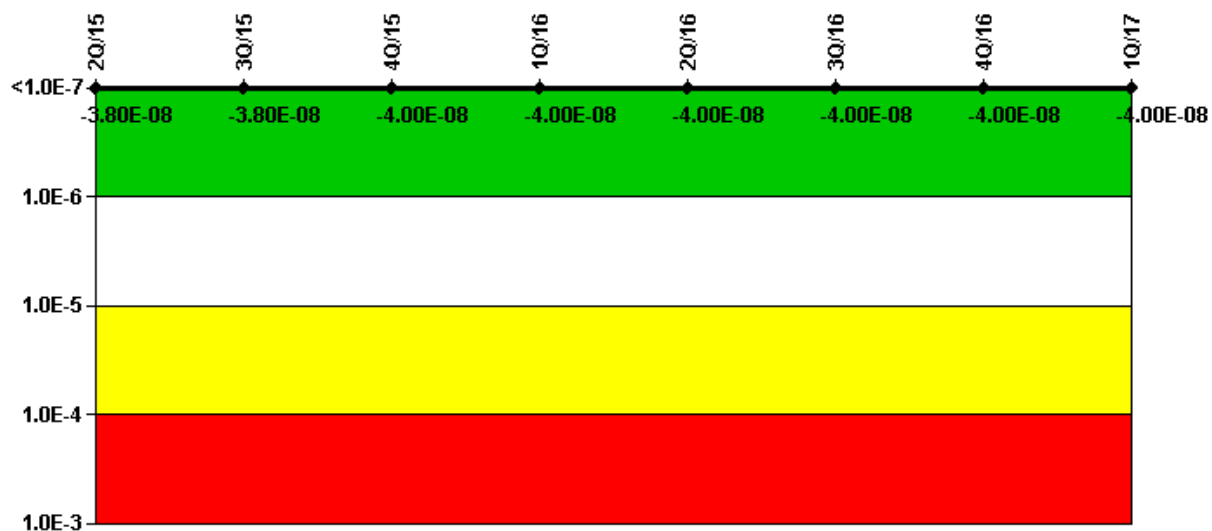
Mitigating Systems Performance Index, High Pressure Injection System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	1.40E-08	1.40E-08	1.40E-08	3.16E-08	3.29E-08	1.82E-08	1.66E-08	1.31E-08
URI (ΔCDF)	1.09E-08	1.09E-08	1.09E-08	1.09E-08	1.09E-08	1.09E-08	1.09E-08	1.09E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.50E-08	2.50E-08	2.50E-08	4.20E-08	4.40E-08	2.90E-08	2.70E-08	2.40E-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

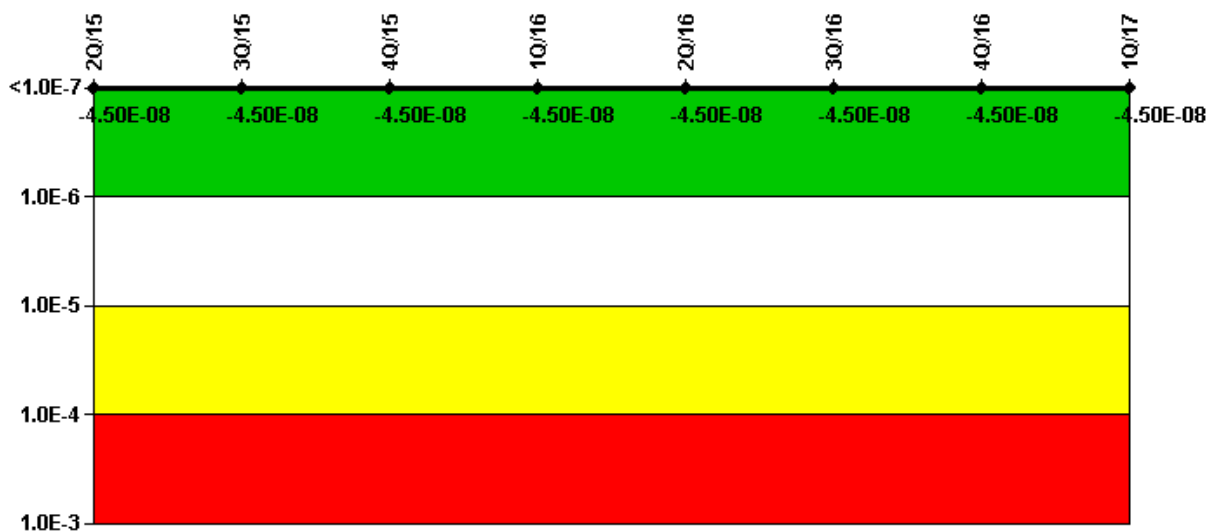
Mitigating Systems Performance Index, Heat Removal System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (Δ CDF)	-9.55E-09	-9.55E-09	-1.16E-08	-1.16E-08	-1.16E-08	-1.16E-08	-1.16E-08	-1.16E-08
URI (Δ CDF)	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.80E-08	-3.80E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-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

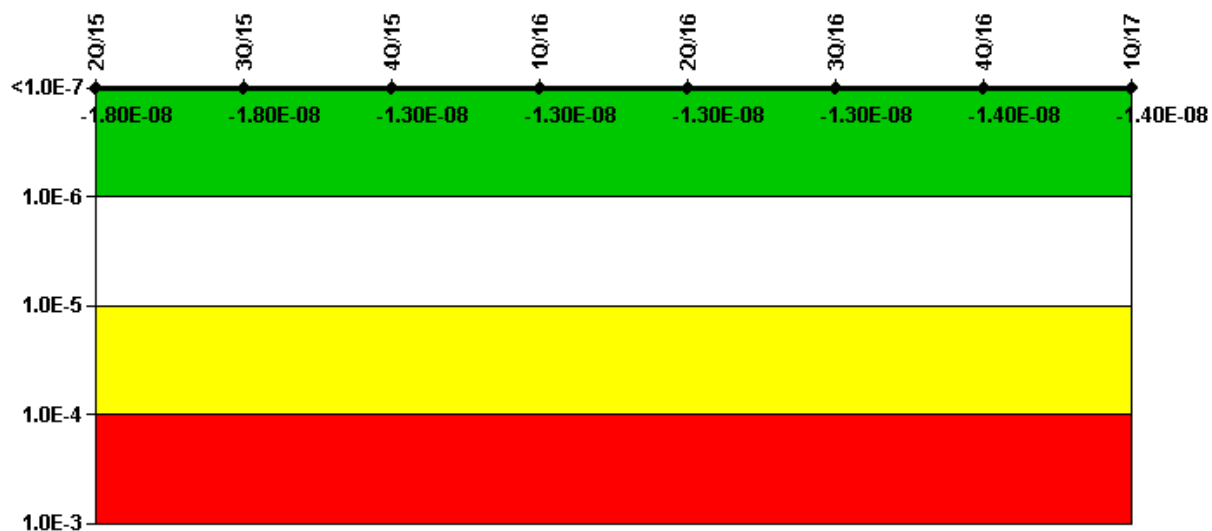
Mitigating Systems Performance Index, Residual Heat Removal System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-5.81E-09	-5.81E-09	-5.81E-09	-5.85E-09	-5.74E-09	-5.74E-09	-6.04E-09	-6.09E-09
URI (ΔCDF)	-3.93E-08	-3.93E-08	-3.93E-08	-3.93E-08	-3.93E-08	-3.93E-08	-3.93E-08	-3.93E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.50E-08	-4.50E-08	-4.50E-08	-4.50E-08	-4.50E-08	-4.50E-08	-4.50E-08	-4.50E-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

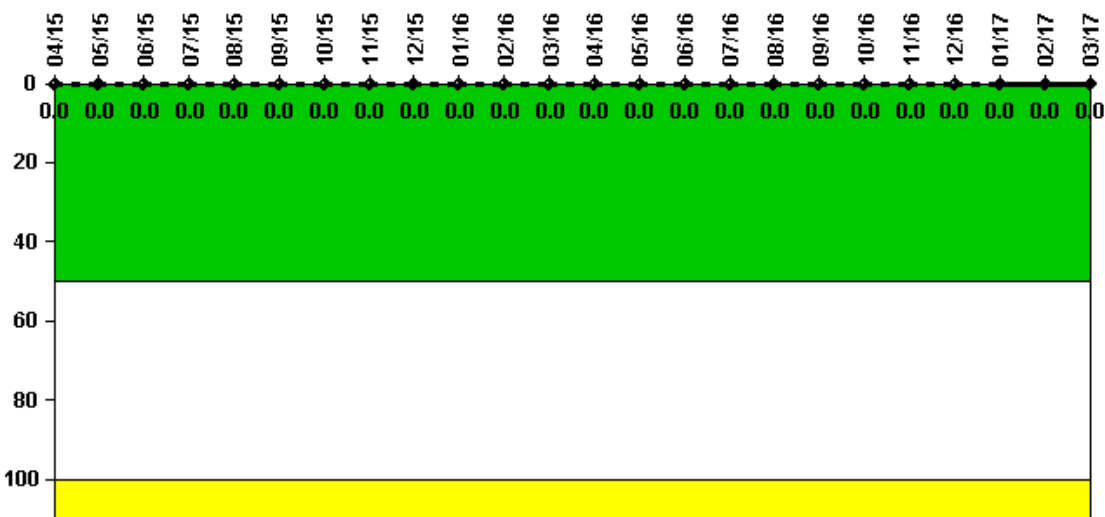
Mitigating Systems Performance Index, Cooling Water Systems

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (Δ CDF)	0.00E+00	0.00E+00	4.64E-09	4.52E-09	4.62E-09	4.62E-09	3.54E-09	3.37E-09
URI (Δ CDF)	-1.78E-08	-1.78E-08	-1.78E-08	-1.78E-08	-1.78E-08	-1.78E-08	-1.78E-08	-1.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.80E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.40E-08	-1.40E-08

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Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

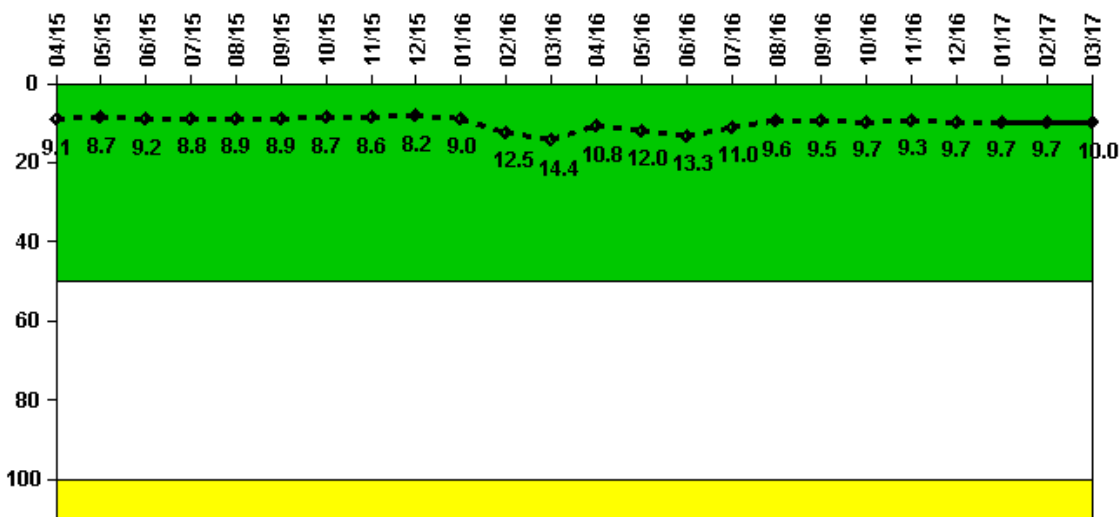
Notes

Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	0.000001	0.000002	0.000001	0.000001	0.000002	0.000001	0.000001	0.000001	0.000001	0.000002	0.000002	0.000002
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum activity	0.000002	0.000002	0.000002	0.000002	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

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Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	2.740	2.610	2.760	2.640	2.680	2.670	2.610	2.580	2.470	2.700	3.740	4.330
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0

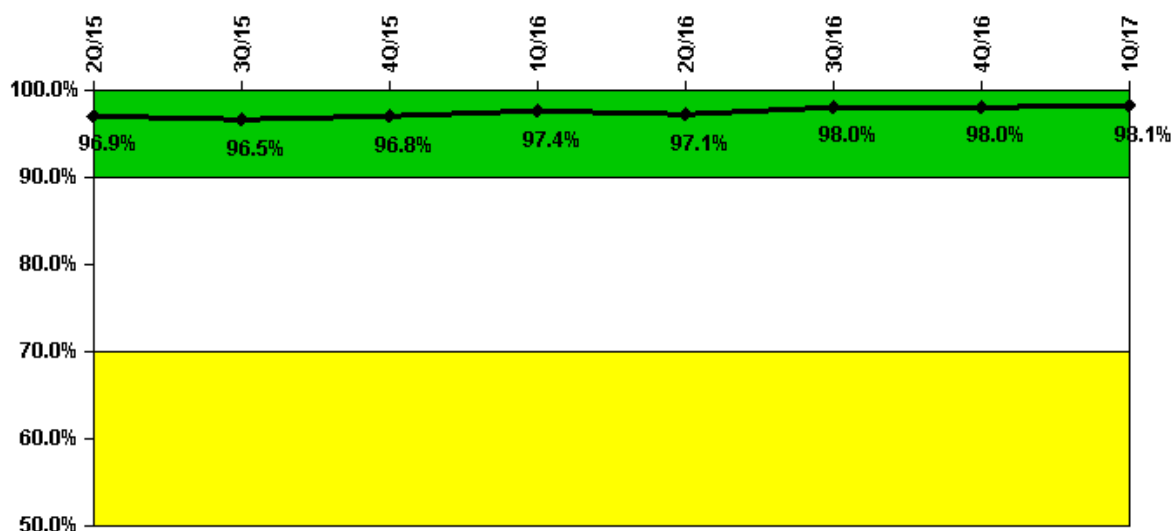
Indicator value	9.1	8.7	9.2	8.8	8.9	8.9	8.7	8.6	8.2	9.0	12.5	14.4
Reactor Coolant System Leakage	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum leakage	3.230	3.590	3.990	3.310	2.870	2.860	2.910	2.800	2.900	2.900	2.900	2.990
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0

Indicator value	10.8	12.0	13.3	11.0	9.6	9.5	9.7	9.3	9.7	9.7	9.7	10.0
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Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful opportunities	34.0	33.0	39.0	84.0	63.0	22.0	30.0	52.0
Total opportunities	35.0	34.0	39.0	85.0	65.0	24.0	30.0	52.0

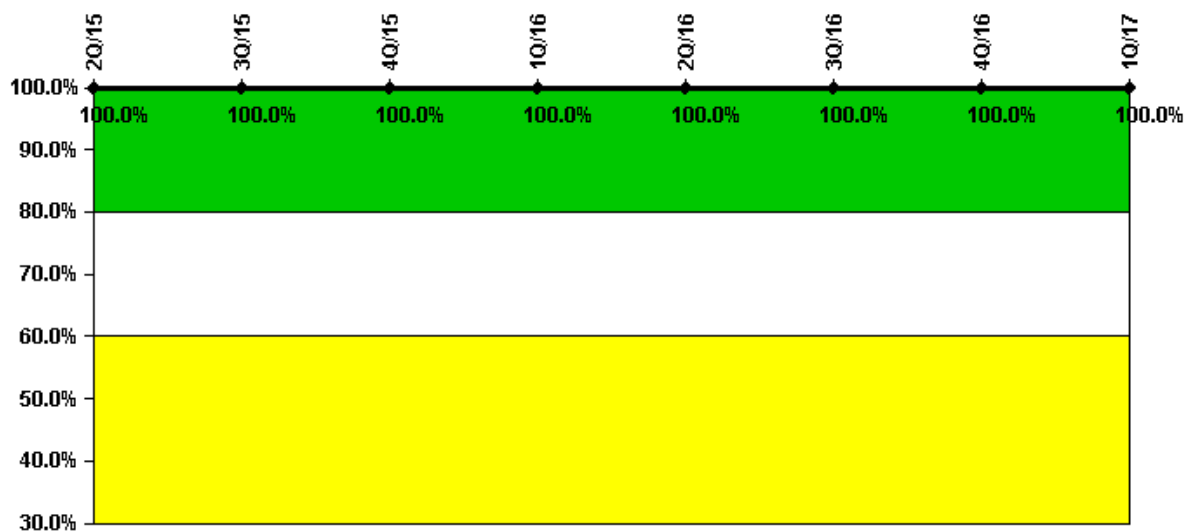
Indicator value **96.9% 96.5% 96.8% 97.4% 97.1% 98.0% 98.0% 98.1%**

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Licensee Comments:

3Q/15: The successful drill, exercises, and event opportunities performance indicator has been revised to add 4 opportunities and the total drill, exercises, and event opportunities performance indicator has been revised to add 4 opportunities for third quarter 2015 due to common EOF opportunities not previously included. This change did not affect the indicator color of green.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

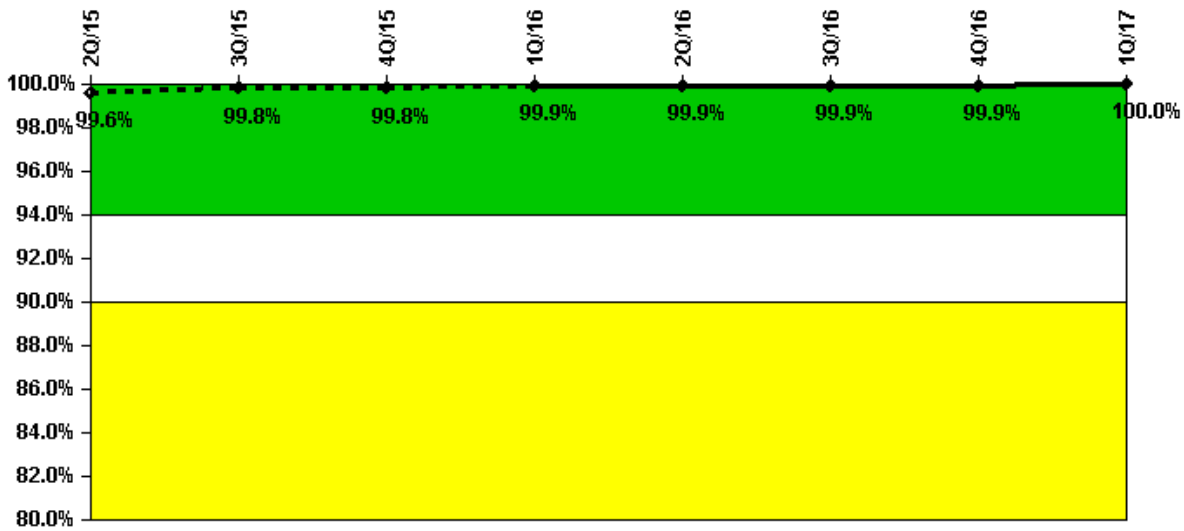
ERO Drill Participation	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Participating Key personnel	66.0	67.0	67.0	67.0	68.0	64.0	61.0	64.0
Total Key personnel	66.0	67.0	67.0	67.0	68.0	64.0	61.0	64.0

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

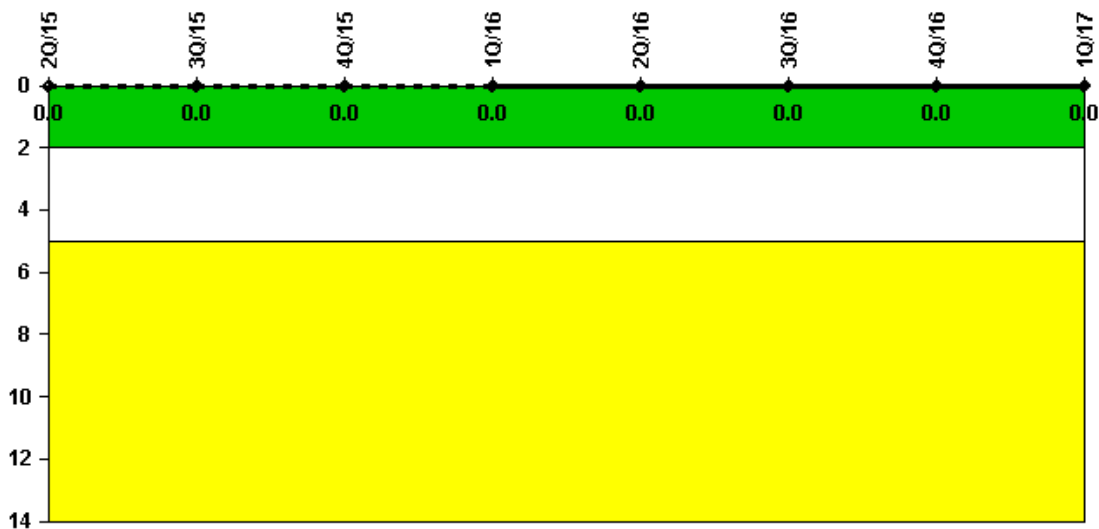
Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	2556	2594	2556	2559	2558	2558	2479	2600
Total sirens-tests	2560	2600	2560	2560	2560	2560	2480	2600

Indicator value 99.6% 99.8% 99.8% 99.9% 99.9% 99.9% 99.9% 100.0%

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

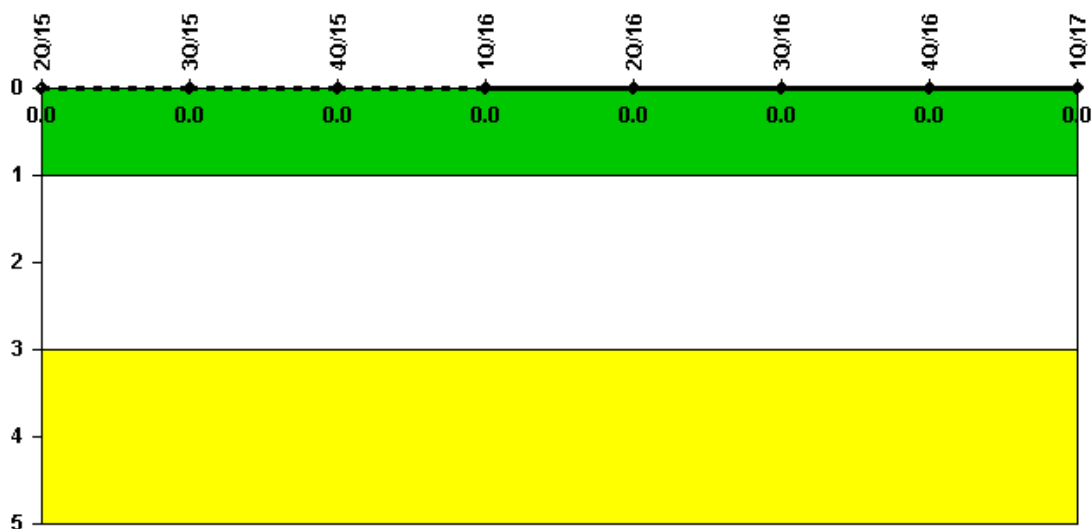
Occupational Exposure Control Effectiveness 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17

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 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/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: May 5, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017