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South Texas 1 – Quarterly Performance Indicators

2Q/2017 Performance Indicators

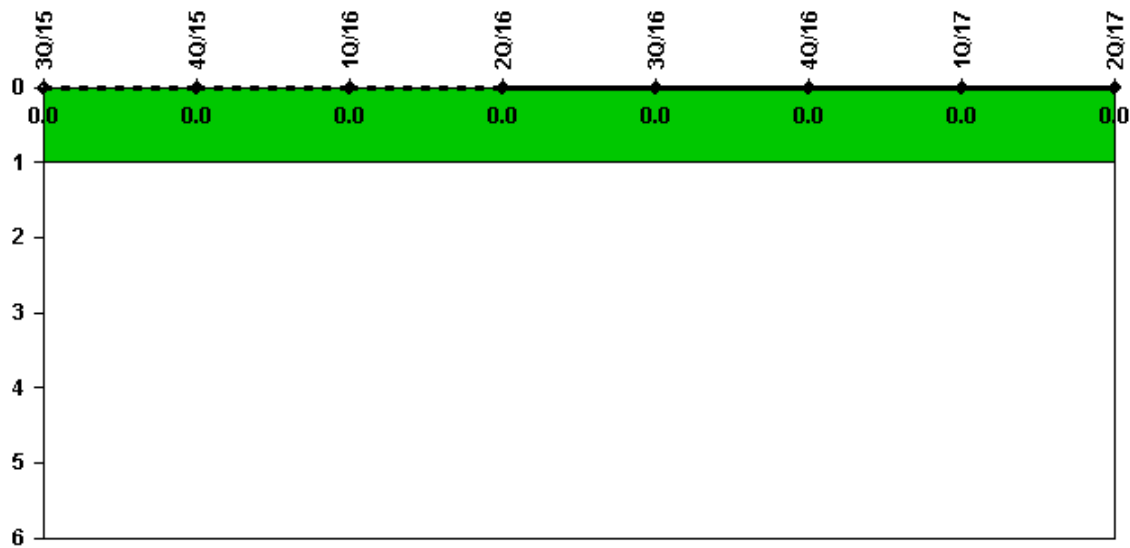
The solid trend line represents the current reporting period.

Licensee's General Comments: none

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- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
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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

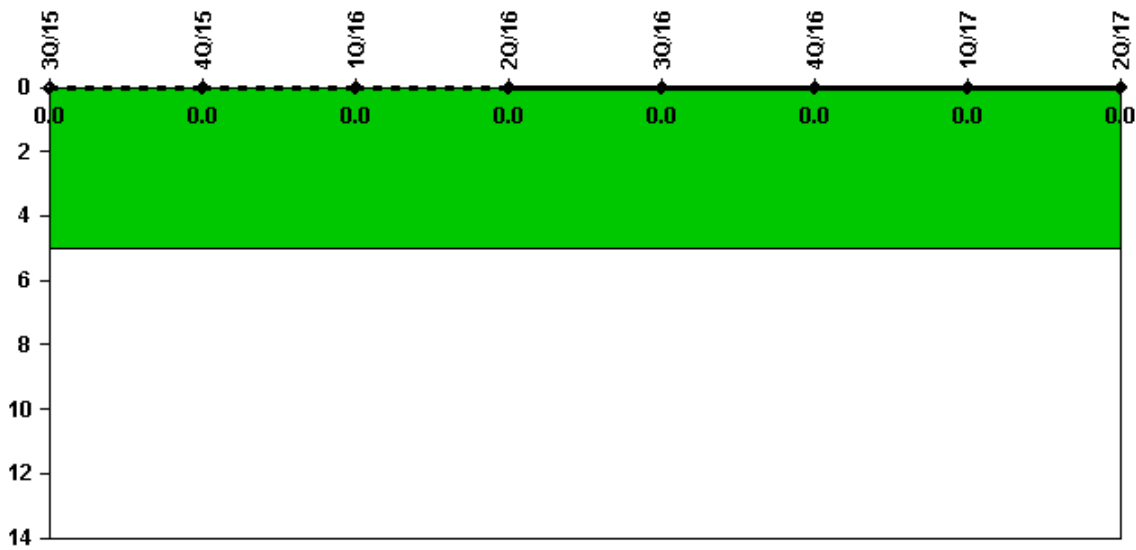
Scrams with complications 0 0 0 0 0 0 0 0

Indicator value 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) 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

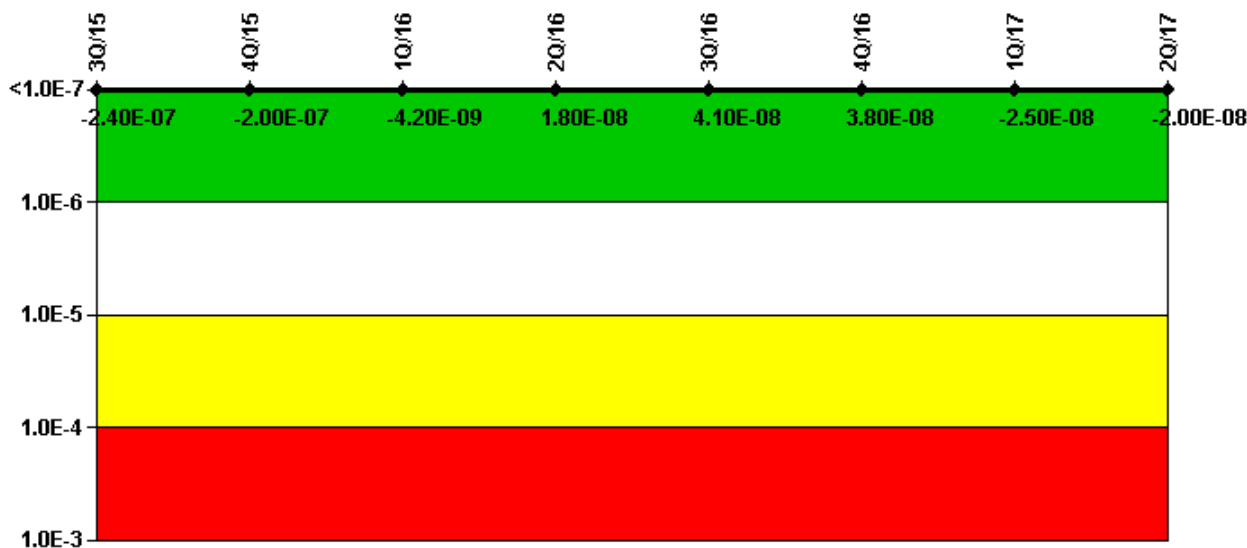
Safety System Functional Failures 0 0 0 0 0 0 0 0

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

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	7.70E-08	1.24E-07	7.88E-08	1.01E-07	1.24E-07	1.21E-07	9.20E-08	9.70E-08
URI (Δ CDF)	-3.20E-07	-3.20E-07	-8.30E-08	-8.30E-08	-8.30E-08	-8.30E-08	-1.17E-07	-1.17E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-07	-2.00E-07	-4.20E-09	1.80E-08	4.10E-08	3.80E-08	-2.50E-08	-2.00E-08

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Licensee Comments:

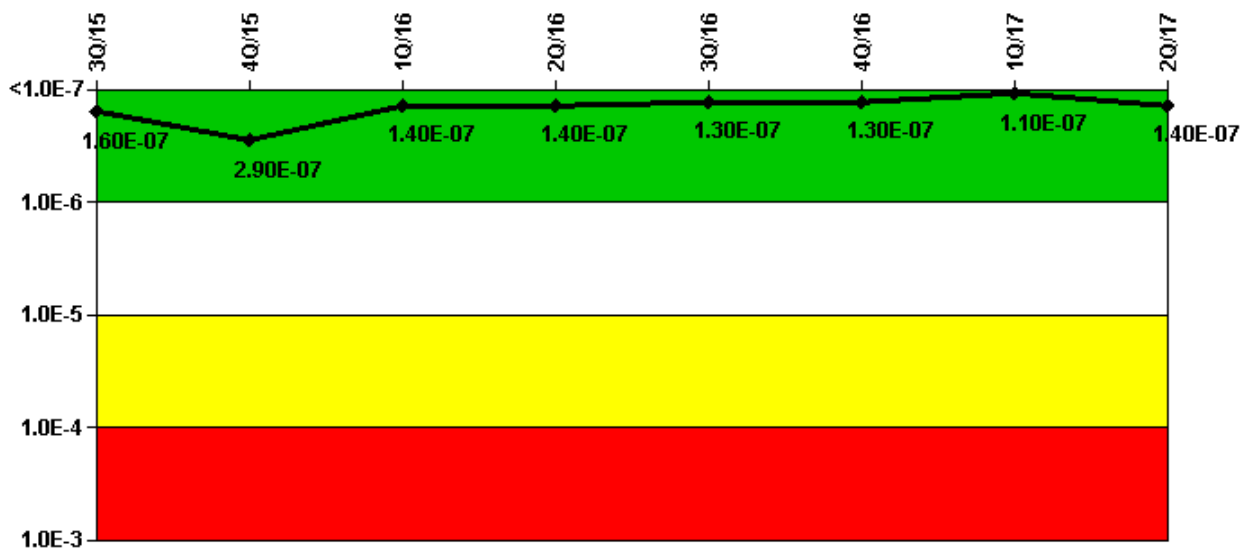
2Q/17: The Planned UA Baseline coefficient for Unit 1 EDG B (DG 12) was revised to remove 144 planned UA baseline hours related to 5 year Maintenance that was performed 4Q14. This change will be effective 3Q17. The MSPI Bases Document was revised to reflect this change. (Reference CR 14-12028-17)

1Q/17: The Planned UA Baseline coefficient for Unit 1 EDG A (DG 13) was revised to remove 144 planned UA baseline hours related to 5 year surveillance that was performed in June 2014. This change will be effective 2Q17. The MSPI Bases Document was revised to reflect this change. (Reference CR 13-3103-11)

1Q/16: Changed PRA Parameter(s). Approved PRA Model Rev 8.1 and updated coefficients effective 1Q16.

4Q/15: Changed PRA Parameter(s). The Planned UA Baseline coefficient for Unit 1 EDG B (DG 12) was revised to remove the planned UA baseline hours related to 15 year preventive maintenance from January 2013. This change will be effective 1Q16 (Reference CR 13-3103-4). The MSPI Bases Document was revised to the change in EDG B UA coefficient and to incorporate FAQ-14-01 regarding MSPI PRA Technical Adequacy (Reference CR 14-12028- 34).

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

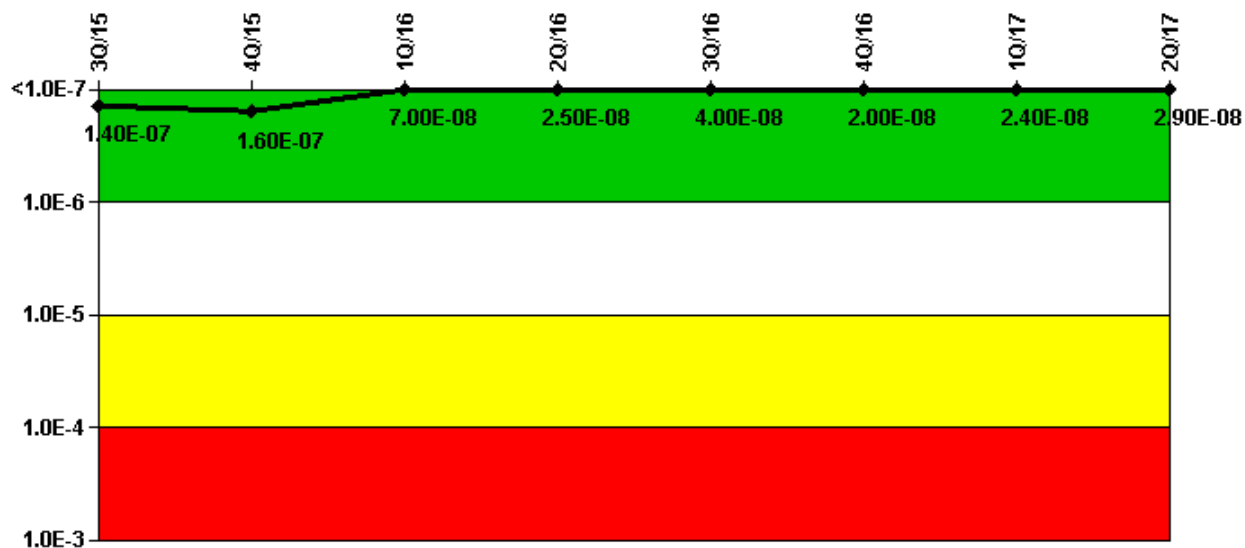
	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	1.84E-07	3.11E-07	1.63E-07	1.61E-07	1.48E-07	1.47E-07	1.33E-07	1.60E-07
URI (ΔCDF)	-2.53E-08	-2.53E-08	-2.13E-08	-2.13E-08	-2.13E-08	-2.13E-08	-2.13E-08	-2.13E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.60E-07	2.90E-07	1.40E-07	1.40E-07	1.30E-07	1.30E-07	1.10E-07	1.40E-07

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Licensee Comments:

1Q/16: Changed PRA Parameter(s). Approved PRA Model Rev 8.1 and updated coefficients effective 1Q16.

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)	1.93E-07	2.21E-07	1.43E-07	9.92E-08	1.14E-07	9.41E-08	9.78E-08	1.03E-07
URI (ΔCDF)	-5.58E-08	-5.68E-08	-7.28E-08	-7.40E-08	-7.40E-08	-7.40E-08	-7.40E-08	-7.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.40E-07	1.60E-07	7.00E-08	2.50E-08	4.00E-08	2.00E-08	2.40E-08	2.90E-08

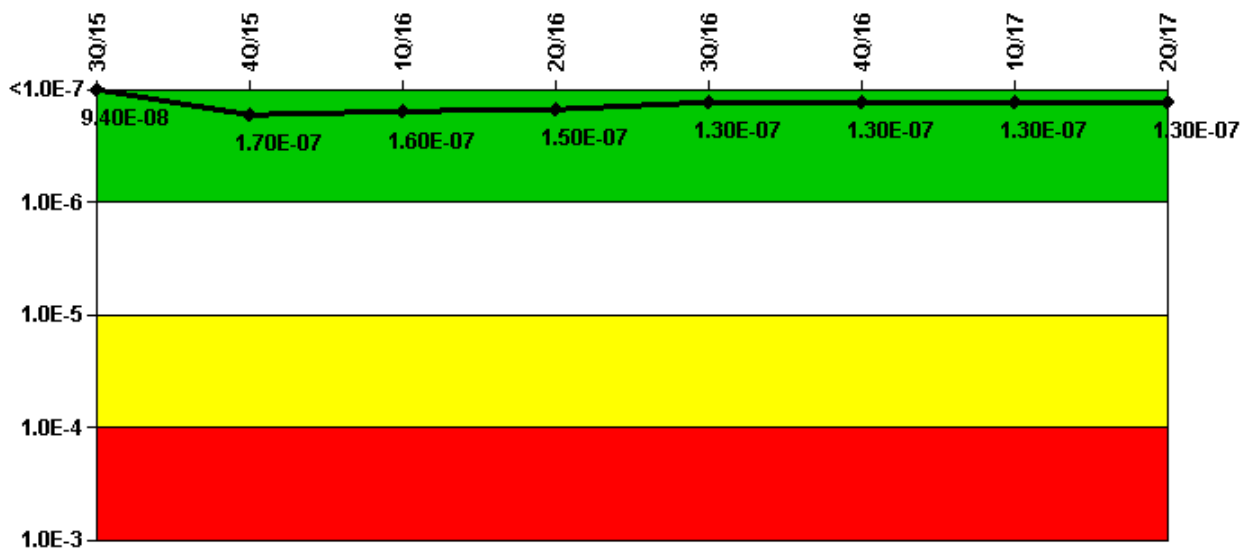
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Licensee Comments:

1Q/16: Changed PRA Parameter(s). Approved PRA Model Rev 8.1 and updated coefficients effective 1Q16.

3Q/15: Engineering is evaluating whether AFW-B degraded condition reported in CR 15-21784 in September 2015 impacted an MSPI monitored function.

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

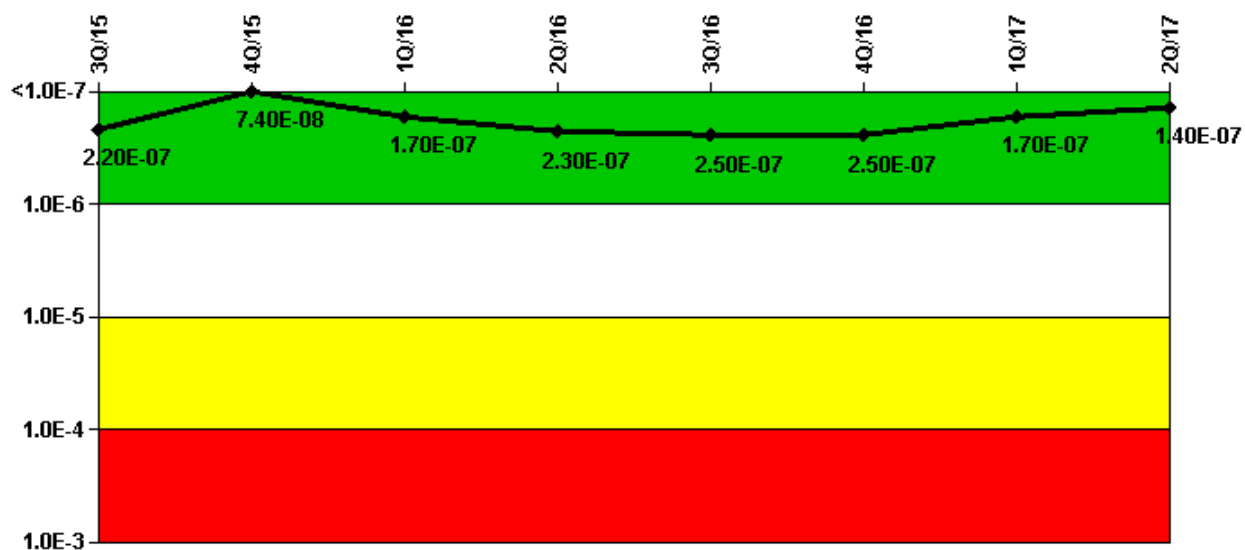
	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	1.06E-07	1.85E-07	1.72E-07	1.63E-07	1.46E-07	1.38E-07	1.40E-07	1.37E-07
URI (ΔCDF)	-1.14E-08	-1.14E-08	-1.11E-08	-1.11E-08	-1.11E-08	-1.11E-08	-1.11E-08	-1.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.40E-08	1.70E-07	1.60E-07	1.50E-07	1.30E-07	1.30E-07	1.30E-07	1.30E-07

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Licensee Comments:

1Q/16: Changed PRA Parameter(s). Approved PRA Model Rev 8.1 and updated coefficients effective 1Q16.

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

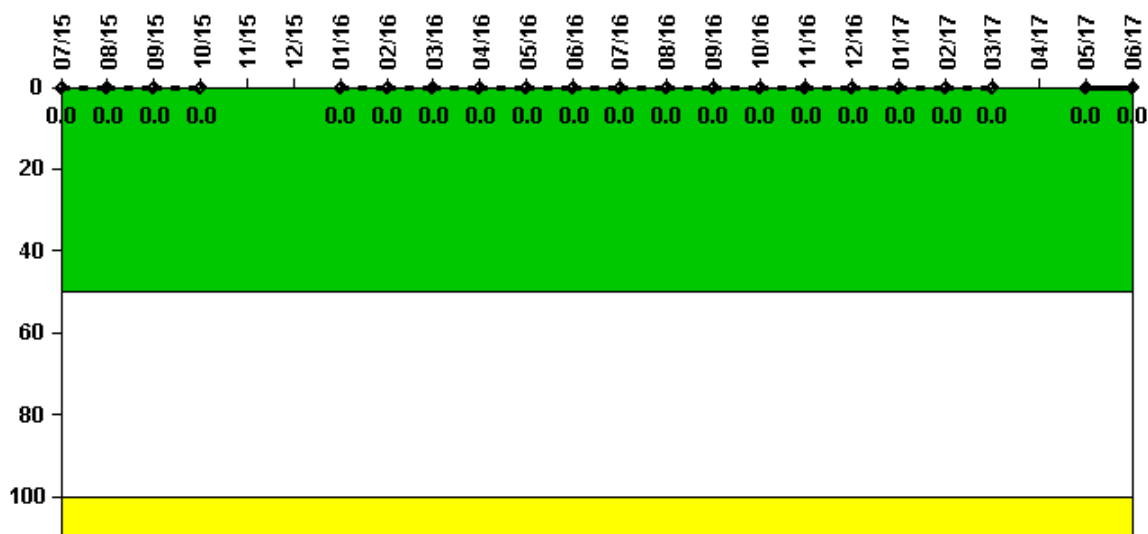
	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	1.14E-07	1.12E-07	1.96E-07	2.59E-07	2.78E-07	2.77E-07	1.98E-07	1.70E-07
URI (ΔCDF)	1.06E-07	-3.81E-08	-2.85E-08	-2.85E-08	-2.85E-08	-2.85E-08	-2.85E-08	-2.85E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.20E-07	7.40E-08	1.70E-07	2.30E-07	2.50E-07	2.50E-07	1.70E-07	1.40E-07

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Licensee Comments:

1Q/16: Changed PRA Parameter(s). Approved PRA Model Rev 8.1 and updated coefficients effective 1Q16.

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	0.000032	0.000032	0.000035	0.000031	N/A	N/A	0.000018	0.000018	0.000014	0.000028	0.000018	0.000022
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	N/A	N/A	0	0	0	0	0	0

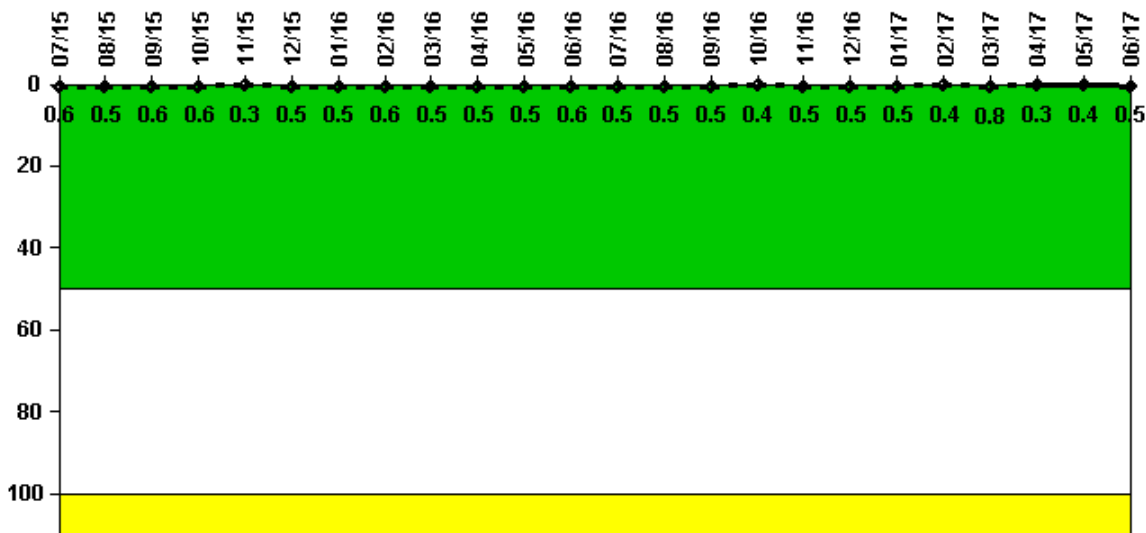
Reactor Coolant System Activity	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum activity	0.000023	0.000025	0.000027	0.000027	0.000027	0.000028	0.000026	0.000029	0.000030	N/A	0.000012	0.000016
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	N/A	0

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Licensee Comments:

6/17: No Steady State RCS DEI-131 collected in Unit 1 during the month of April, 2017.
 12/15: No steady state data in November or December 2015. Unit 1 Refueling Outage 1RE19.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

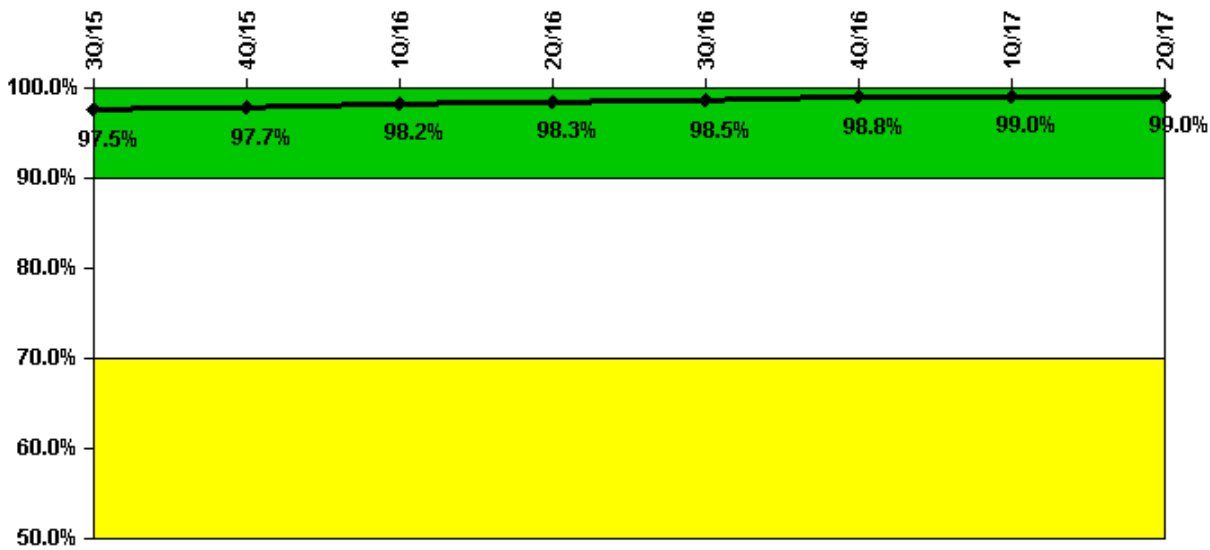
Notes

Reactor Coolant System Leakage	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 leakage	0.058	0.050	0.059	0.061	0.034	0.050	0.046	0.060	0.052	0.052	0.051	0.058
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	0.6	0.5	0.6	0.6	0.3	0.5	0.5	0.6	0.5	0.5	0.5	0.6
Reactor Coolant System Leakage	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 leakage	0.048	0.046	0.045	0.037	0.045	0.050	0.045	0.043	0.082	0.028	0.041	0.052
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	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.8	0.3	0.4	0.5

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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	60.0	2.0	10.0	126.0	85.0	10.0	8.0	84.0
Total opportunities	61.0	2.0	10.0	129.0	85.0	10.0	8.0	84.0

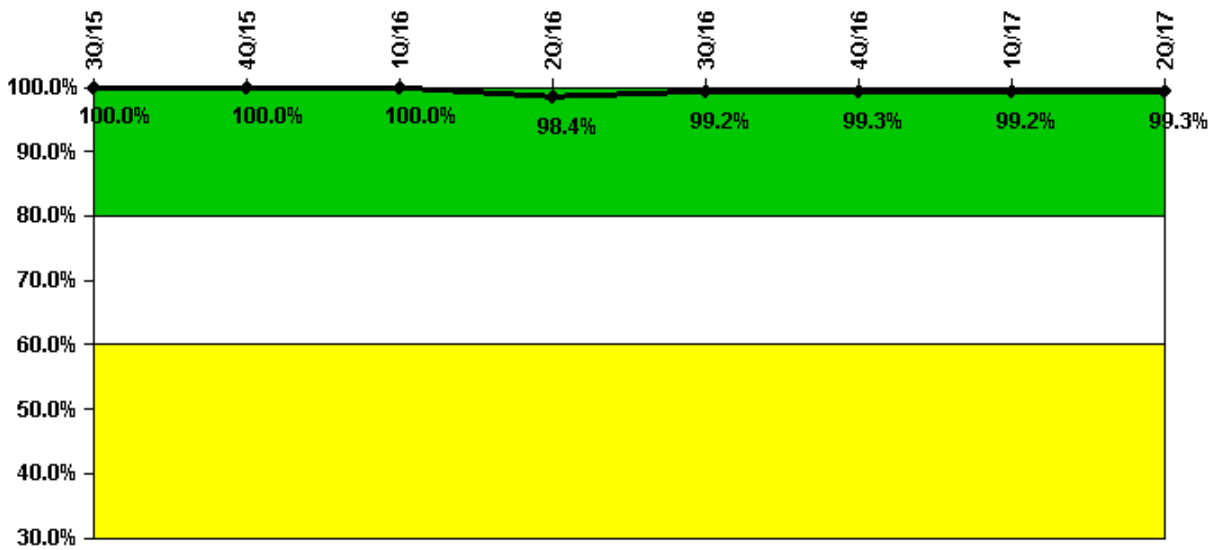
Indicator value 97.5% 97.7% 98.2% 98.3% 98.5% 98.8% 99.0% 99.0%

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Licensee Comments:

2Q/17: Corrected Drill and Exercise Performance for 1Q17 to add 2 successful opportunities. This change did not affect the color of the indicator. (Ref. CR 17-15939)

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	128.0	125.0	113.0	120.0	123.0	133.0	132.0	134.0
Total Key personnel	128.0	125.0	113.0	122.0	124.0	134.0	133.0	135.0

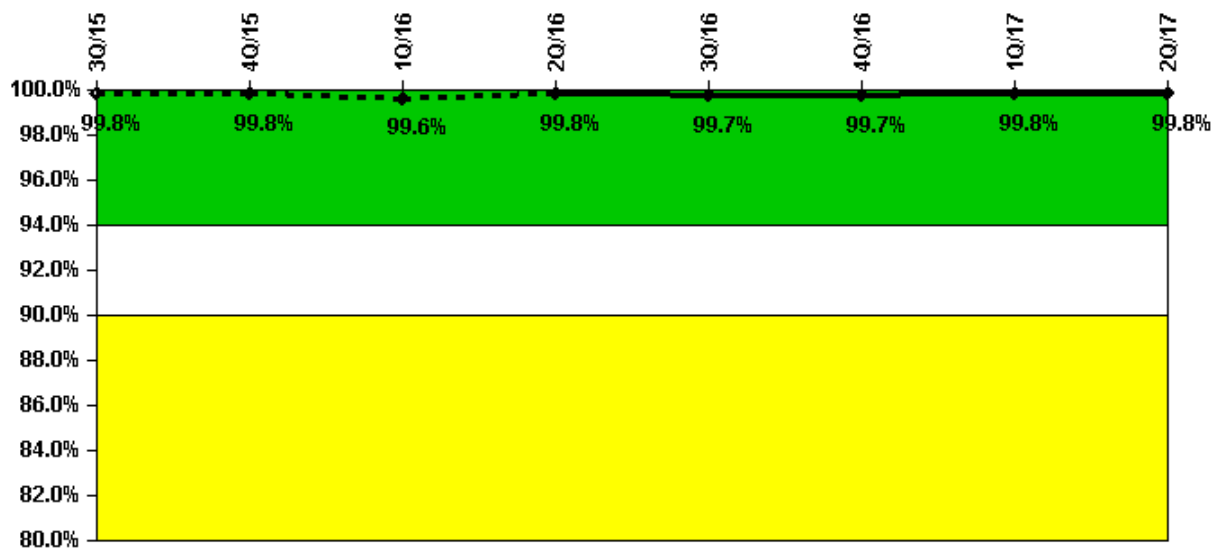
Indicator value **100.0% 100.0% 100.0% 98.4% 99.2% 99.3% 99.2% 99.3%**

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Licensee Comments:

2Q/17: Corrected Participating Key Personnel data for 2Q16, 3Q16, 4Q16, 1Q17. Key Personnel incorrectly credited. (Ref. CR 17-14845). This change did not affect the color of the indicator.

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

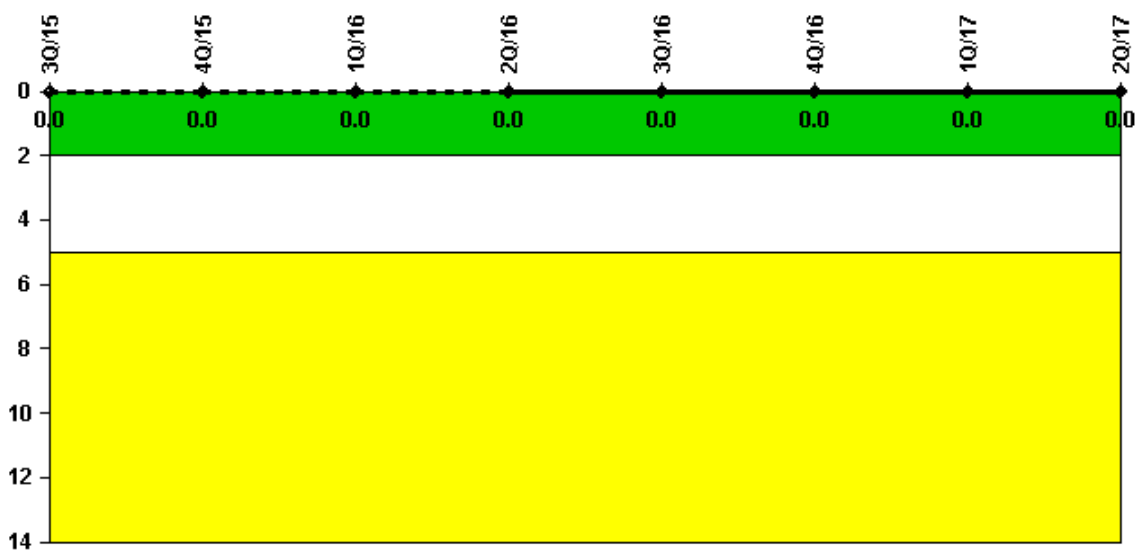
Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	256	256	254	256	223	256	255	256
Total sirens-tests	256	256	256	256	224	256	256	256

Indicator value 99.8% 99.8% 99.6% 99.8% 99.7% 99.7% 99.8% 99.8%

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

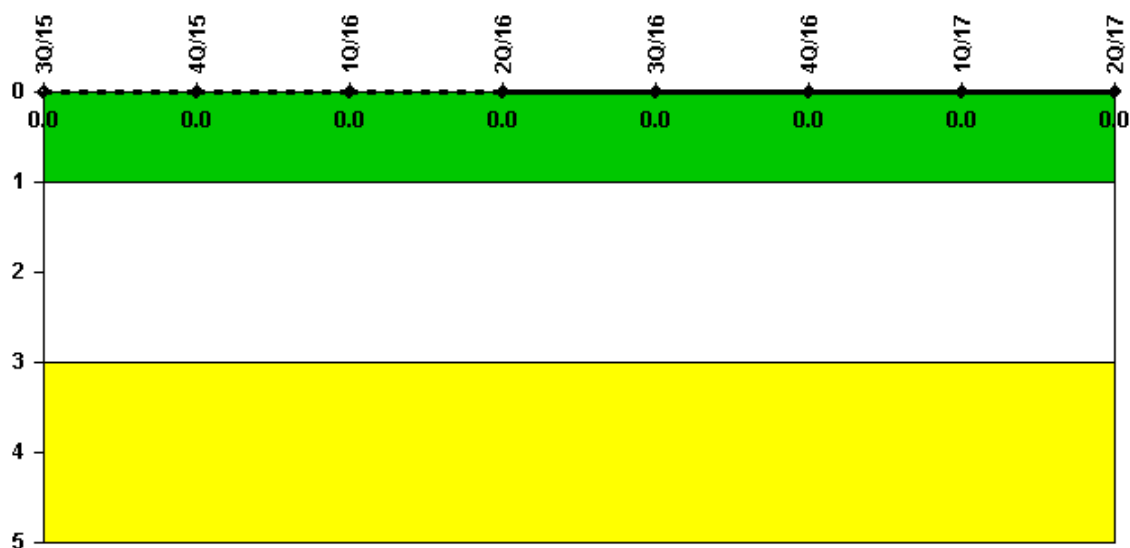
Occupational Exposure Control Effectiveness 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

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

Page Last Reviewed/Updated Wednesday, June 07, 2017