

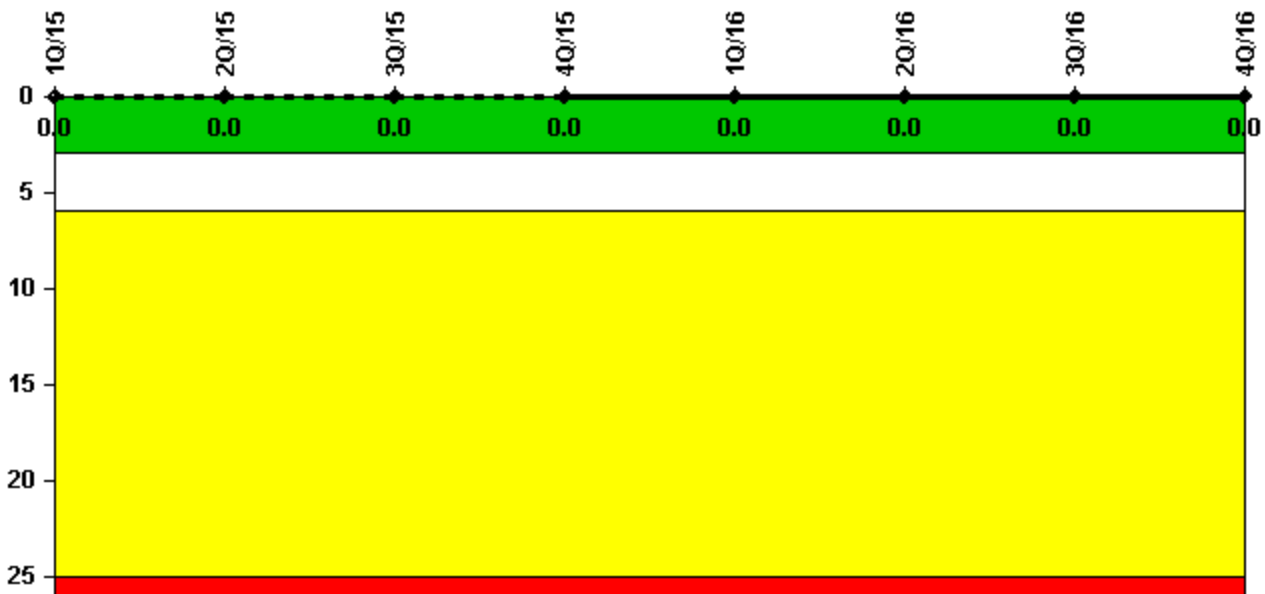
Clinton

4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



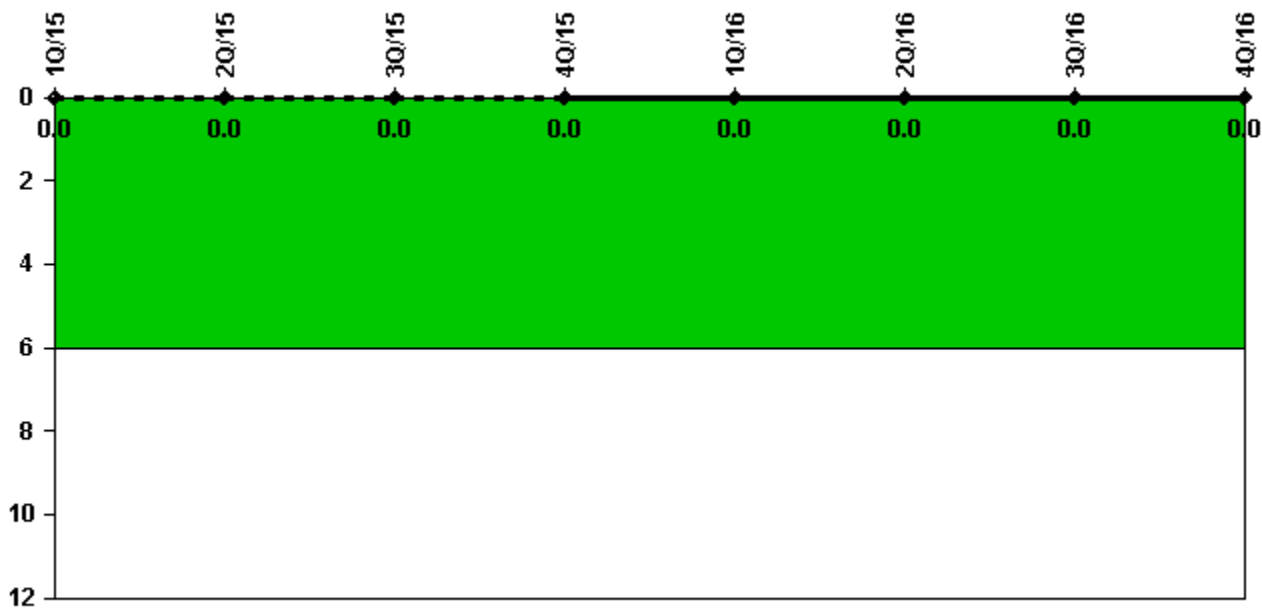
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2094.5	1729.2	2208.0	2209.0	2183.0	1937.9	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



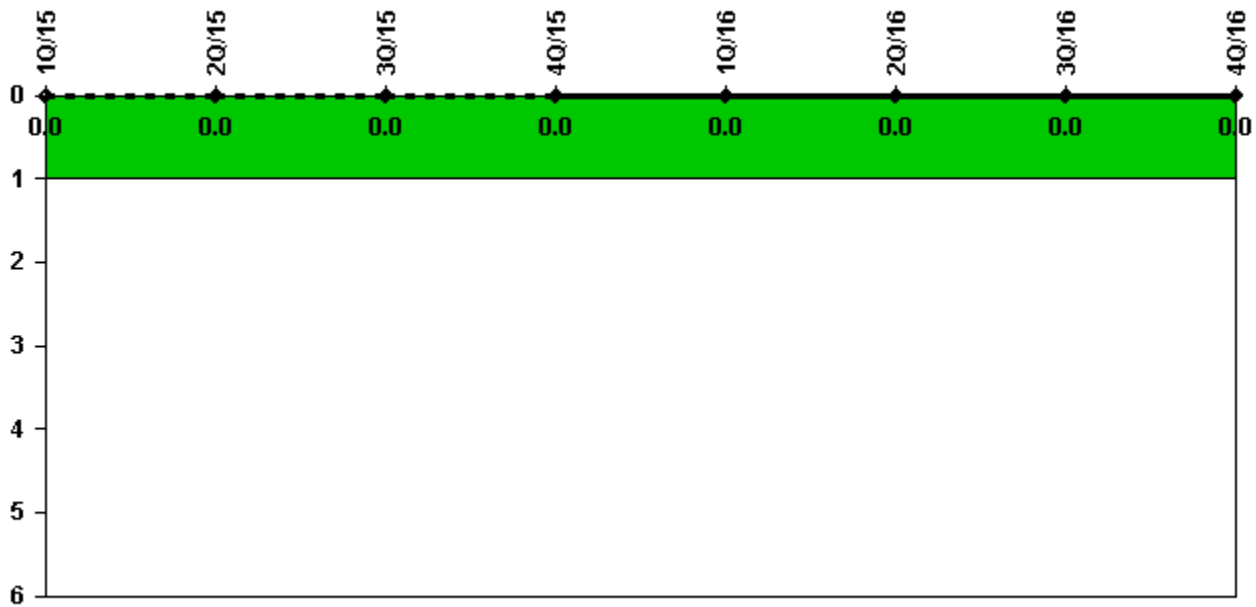
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2094.5	1729.2	2208.0	2209.0	2183.0	1937.9	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



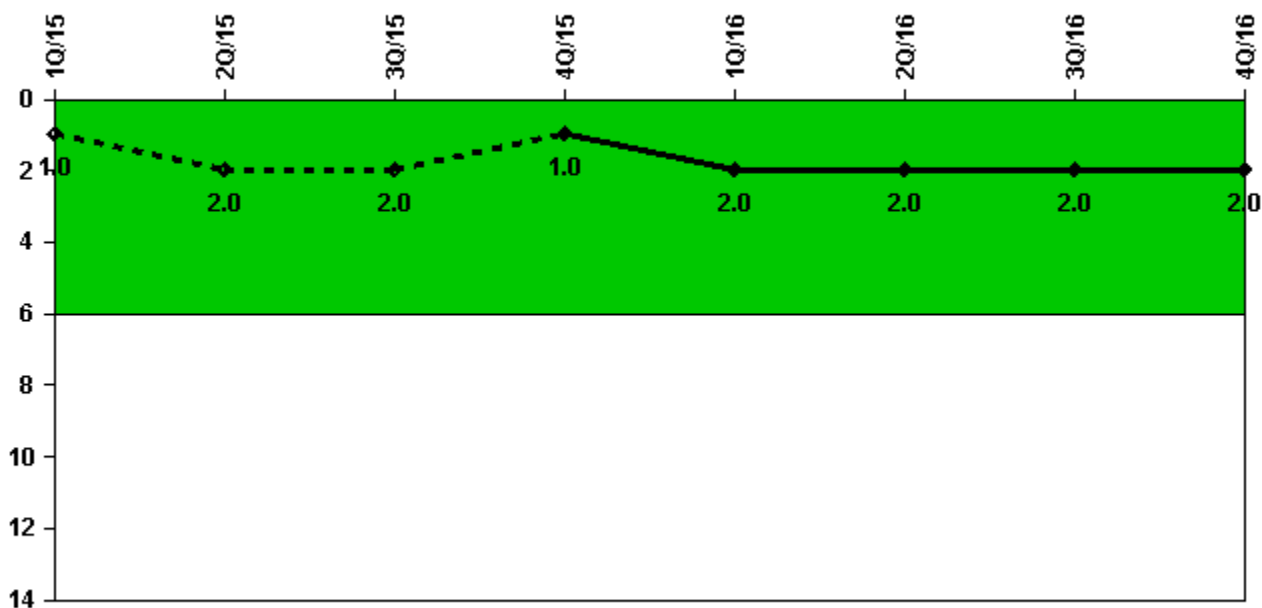
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (BWR)



Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	0	1	0	0	1	1	0	0
Indicator value	1	2	2	1	2	2	2	2

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.

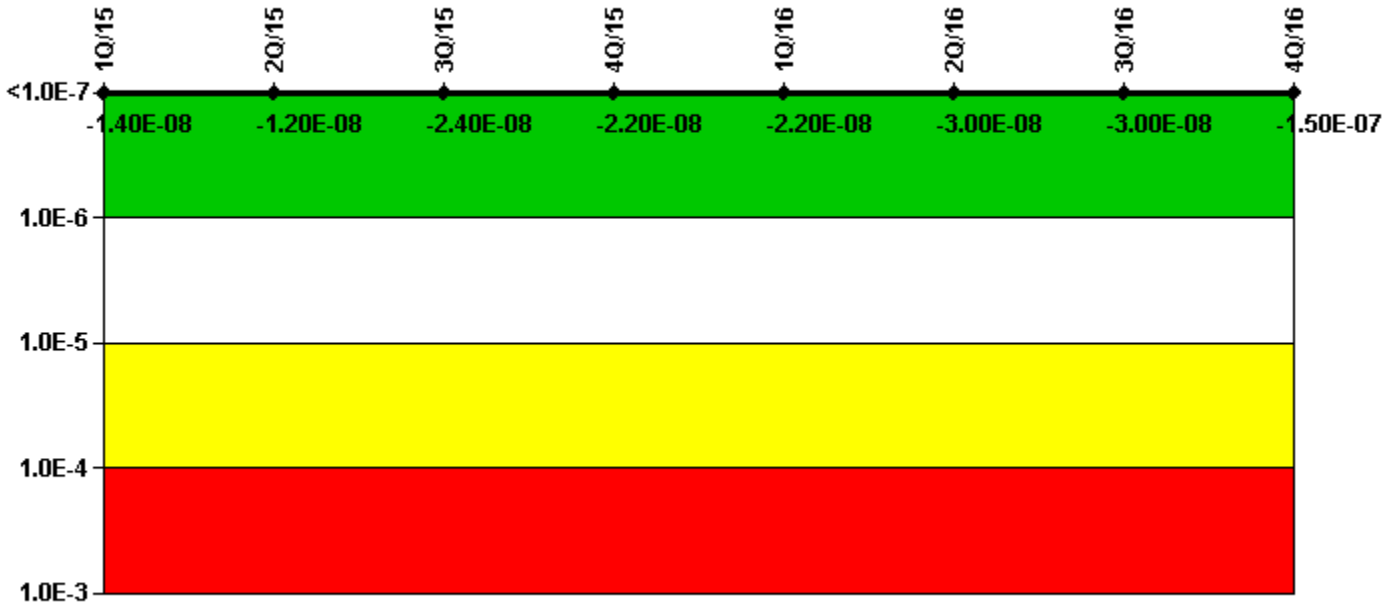
1Q/16: Safety System Functional Failure reported to NRC under LER 2016-001-00 issued 03/18/2016 for Continuous Containment Purge Exhaust Fan trip due to unvalidated assumptions in work planning resulted in an unanalyzed condition of Primary to Secondary Containment differential pressure and safety system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



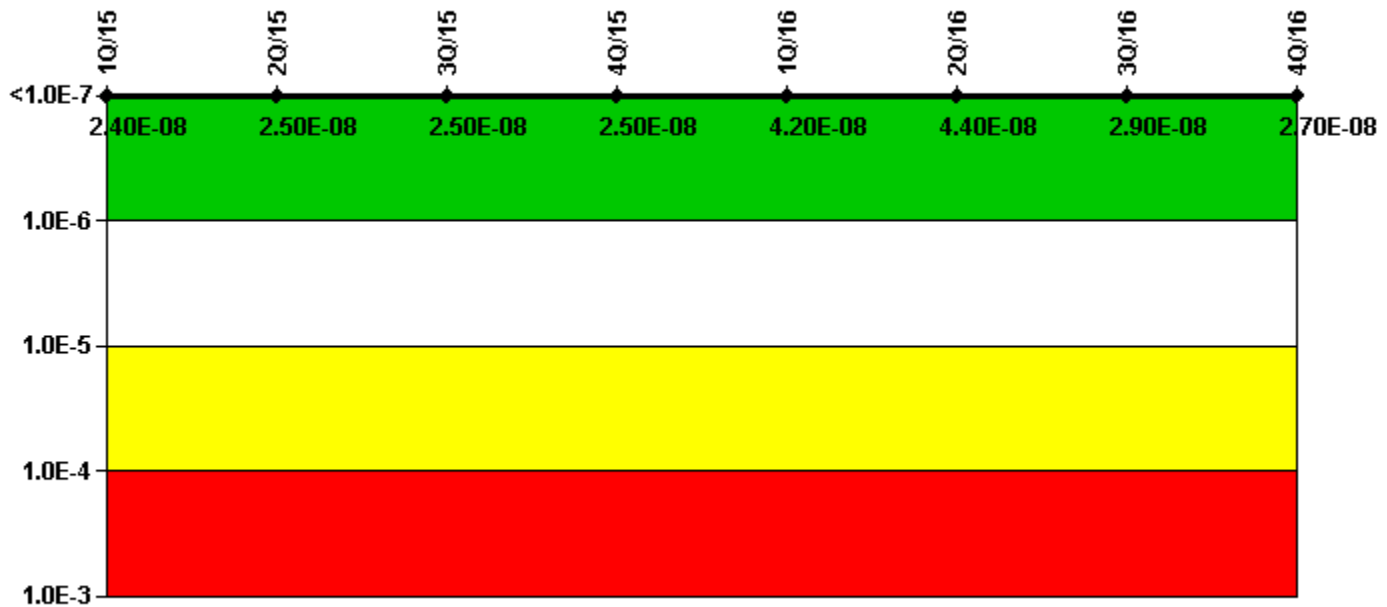
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-1.75E-09	9.30E-11	-1.22E-08	-9.78E-09	-1.00E-08	-1.82E-08	-1.82E-08	-2.19E-08
URI (Δ CDF)	-1.21E-08	-1.21E-08	-1.21E-08	-1.21E-08	-1.21E-08	-1.21E-08	-1.21E-08	-1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.20E-08	-2.40E-08	-2.20E-08	-2.20E-08	-3.00E-08	-3.00E-08	-1.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



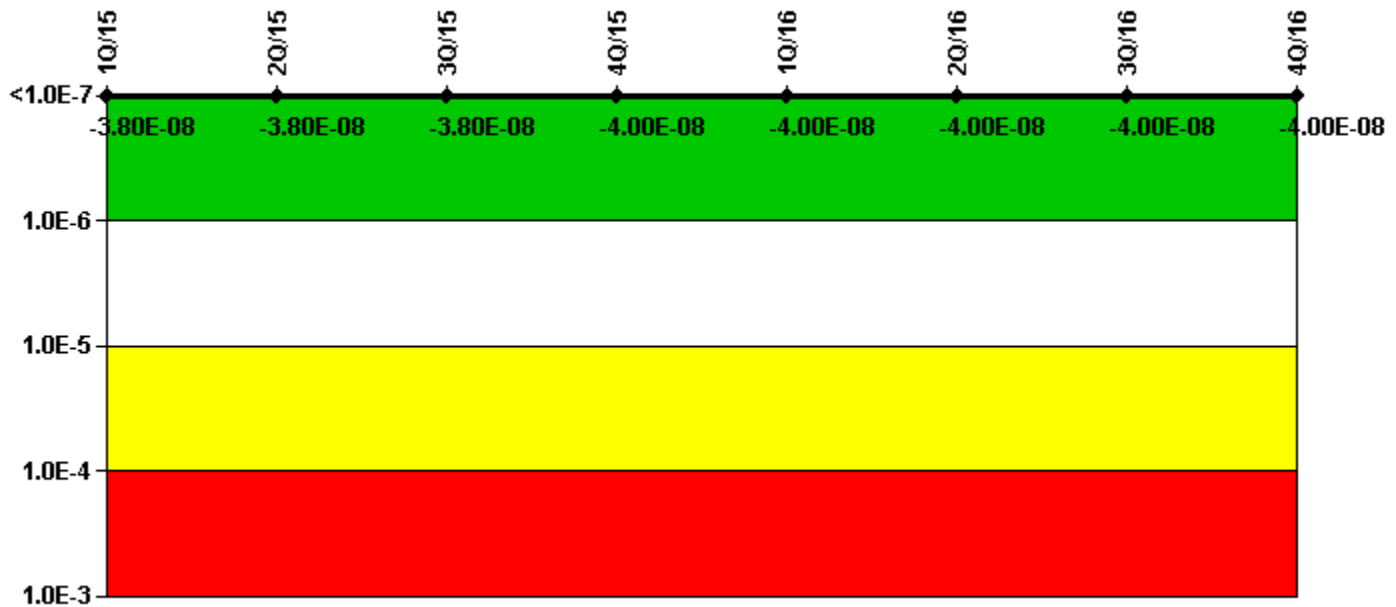
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	1.33E-08	1.40E-08	1.40E-08	1.40E-08	3.16E-08	3.29E-08	1.82E-08	1.66E-08
URI (Δ CDF)	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	2.40E-08	2.50E-08	2.50E-08	2.50E-08	4.20E-08	4.40E-08	2.90E-08	2.70E-08

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	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-9.59E-09	-9.55E-09	-9.55E-09	-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	-3.80E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



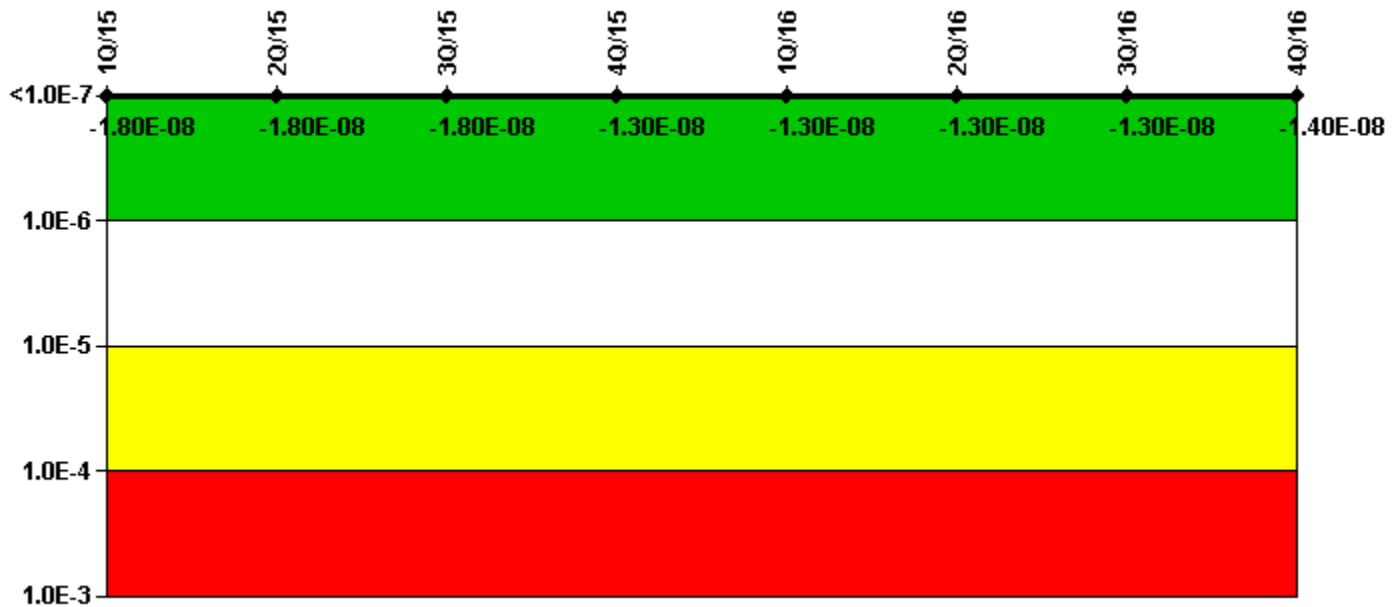
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-6.02E-09	-5.81E-09	-5.81E-09	-5.81E-09	-5.85E-09	-5.74E-09	-5.74E-09	-6.04E-09
URI (Δ CDF)	-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

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



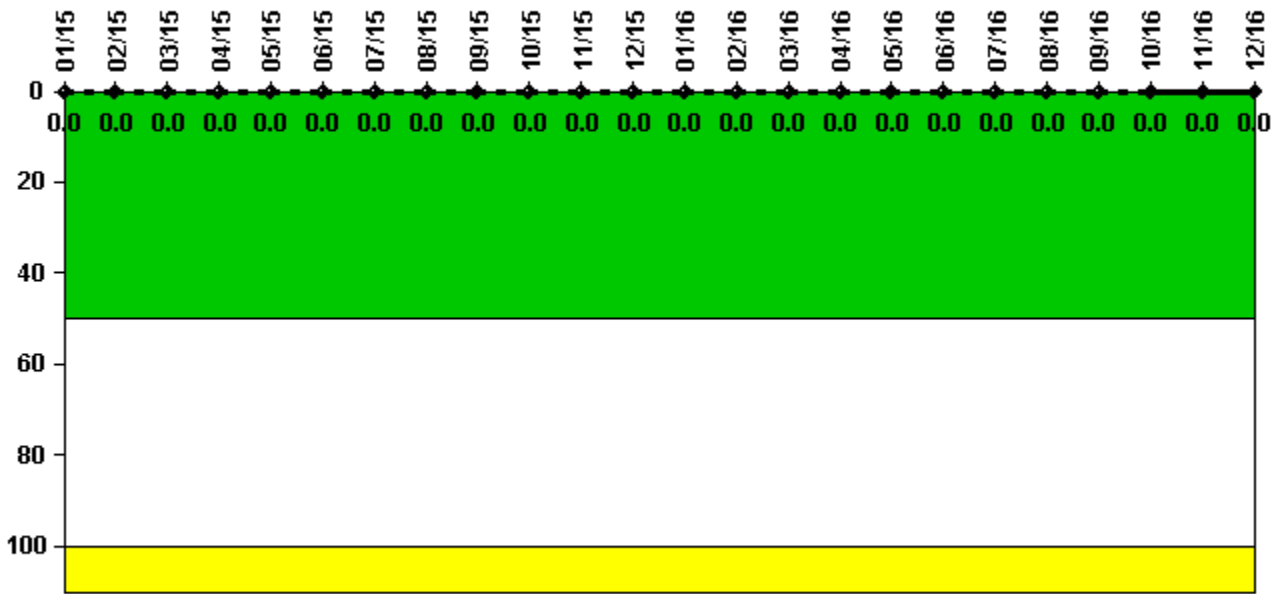
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	0.00E+00	0.00E+00	0.00E+00	4.64E-09	4.52E-09	4.62E-09	4.62E-09	3.54E-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	-1.80E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.40E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

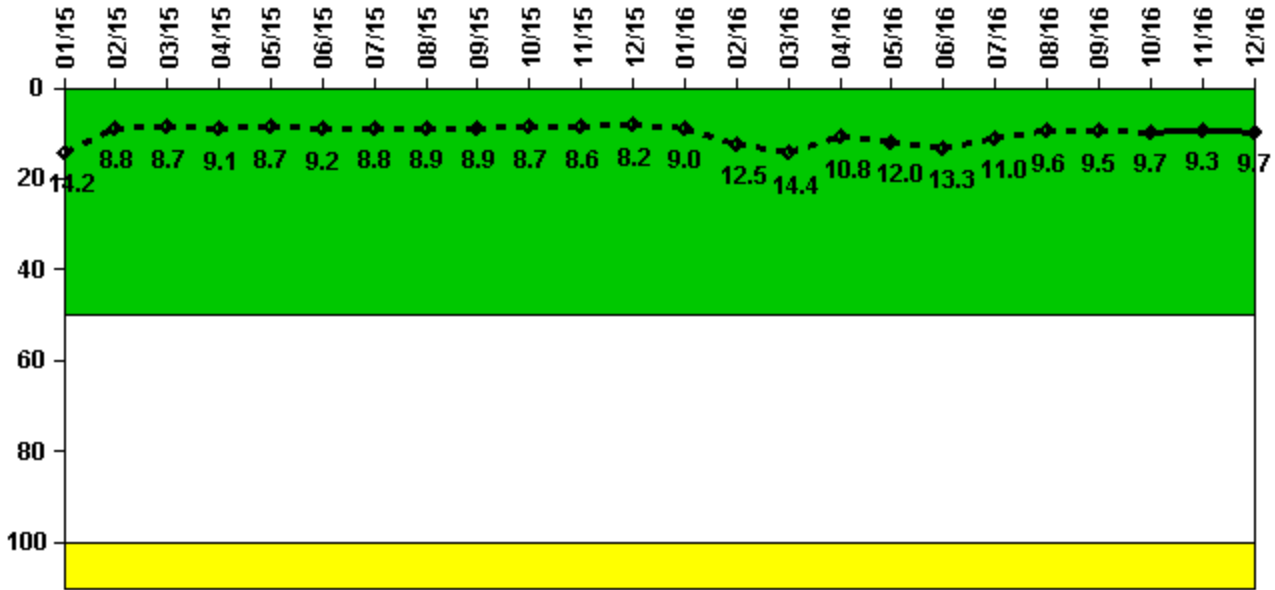
Notes

Reactor Coolant System Activity	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum activity	0.000005	0.000001	0.000002	0.000001	0.000002	0.000001	0.000001	0.000002	0.000001	0.000001	0.000001	0.000001
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	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	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

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

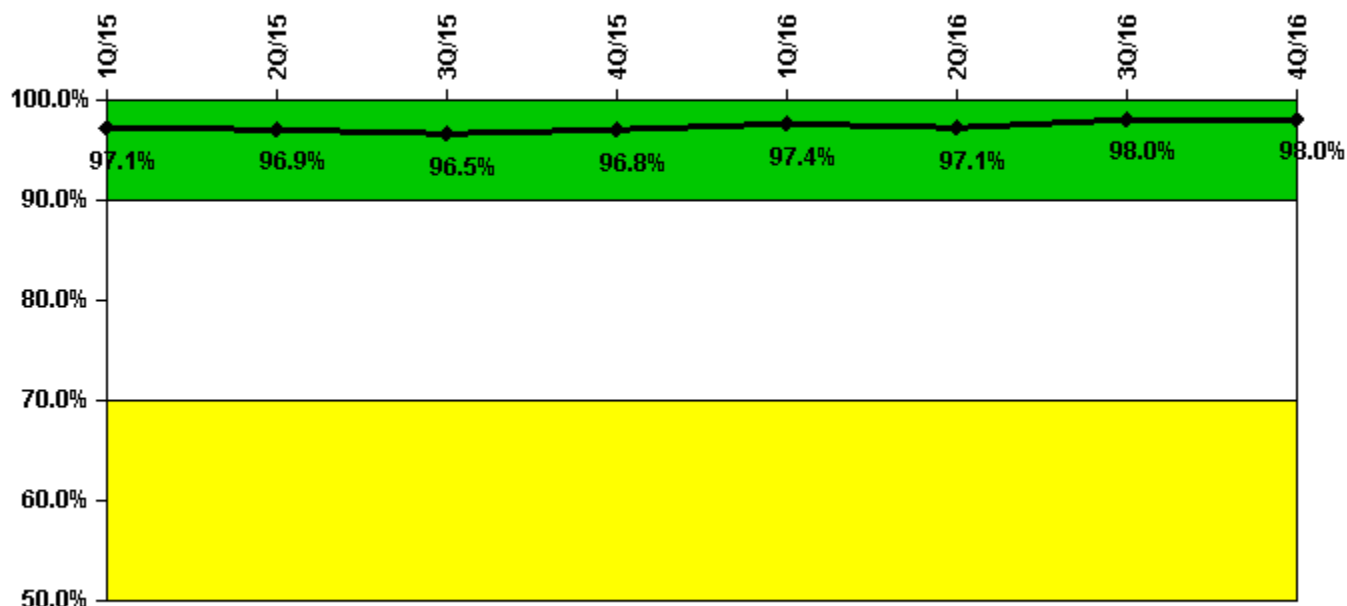
Notes

Reactor Coolant System Leakage	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum leakage	4.250	2.630	2.600	2.740	2.610	2.760	2.640	2.680	2.670	2.610	2.580	2.470
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	14.2	8.8	8.7	9.1	8.7	9.2	8.8	8.9	8.9	8.7	8.6	8.2

Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	2.700	3.740	4.330	3.230	3.590	3.990	3.310	2.870	2.860	2.910	2.800	2.900
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	9.0	12.5	14.4	10.8	12.0	13.3	11.0	9.6	9.5	9.7	9.3	9.7

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

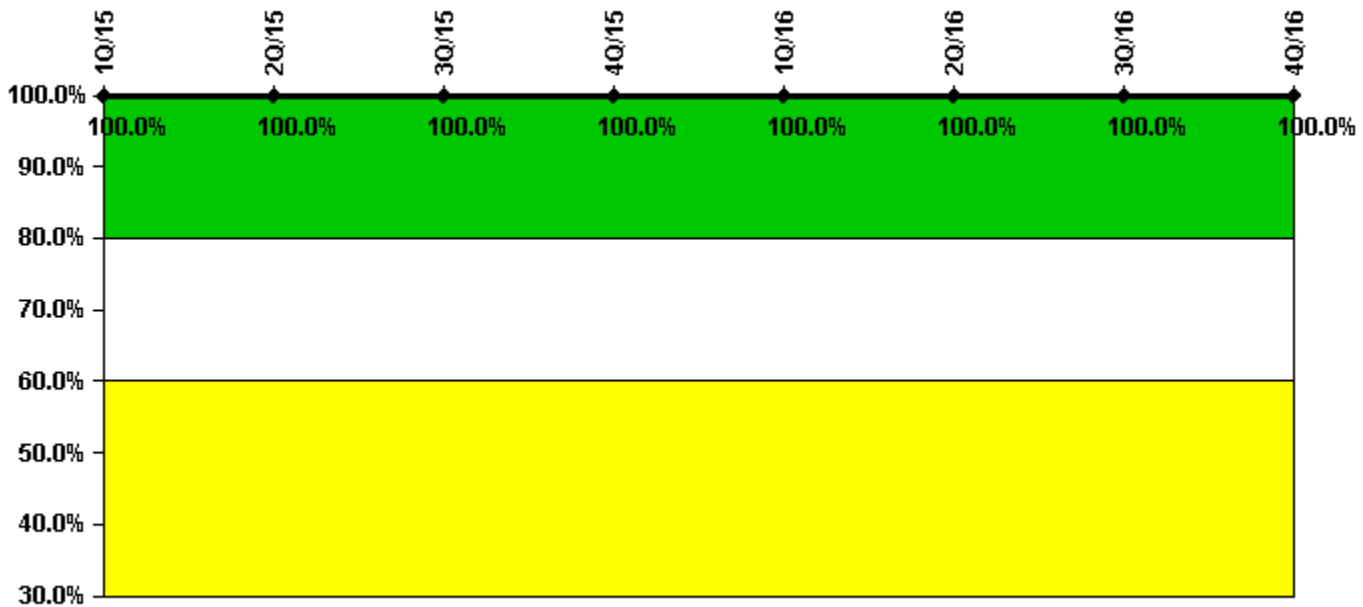
Notes

Drill/Exercise Performance	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful opportunities	37.0	34.0	33.0	39.0	84.0	63.0	22.0	30.0
Total opportunities	37.0	35.0	34.0	39.0	85.0	65.0	24.0	30.0
Indicator value	97.1%	96.9%	96.5%	96.8%	97.4%	97.1%	98.0%	98.0%

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



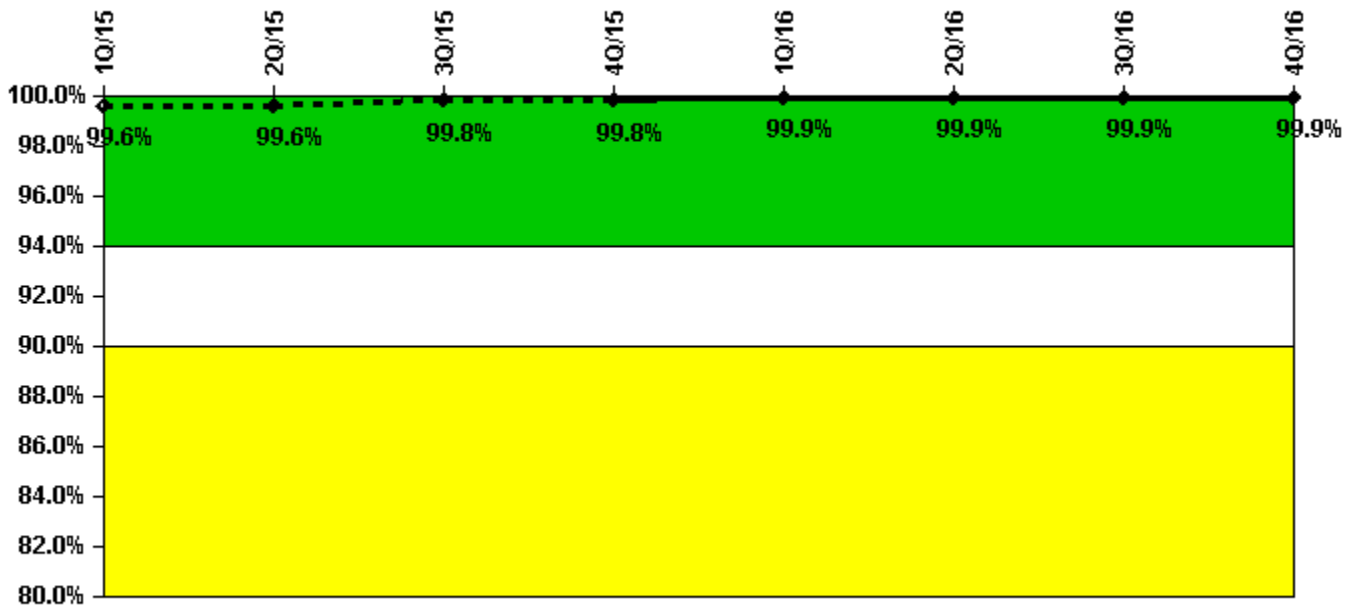
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	62.0	66.0	67.0	67.0	67.0	68.0	64.0	61.0
Total Key personnel	62.0	66.0	67.0	67.0	67.0	68.0	64.0	61.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



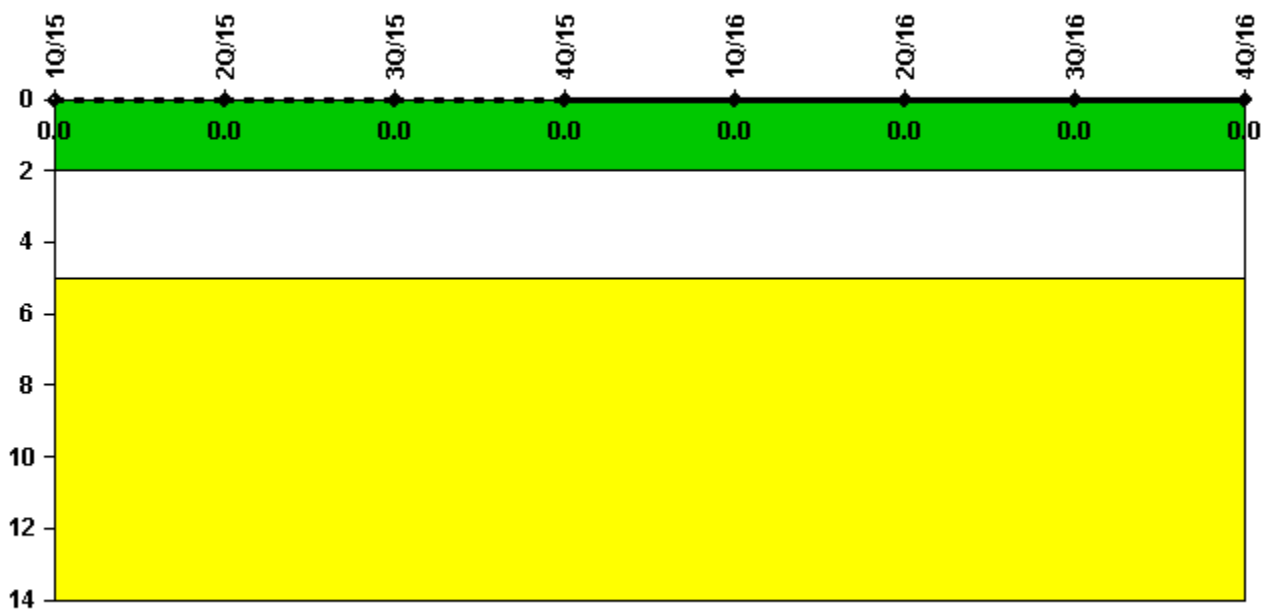
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful siren-tests	2518	2556	2594	2556	2559	2558	2558	2479
Total sirens-tests	2520	2560	2600	2560	2560	2560	2560	2480
Indicator value	99.6%	99.6%	99.8%	99.8%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



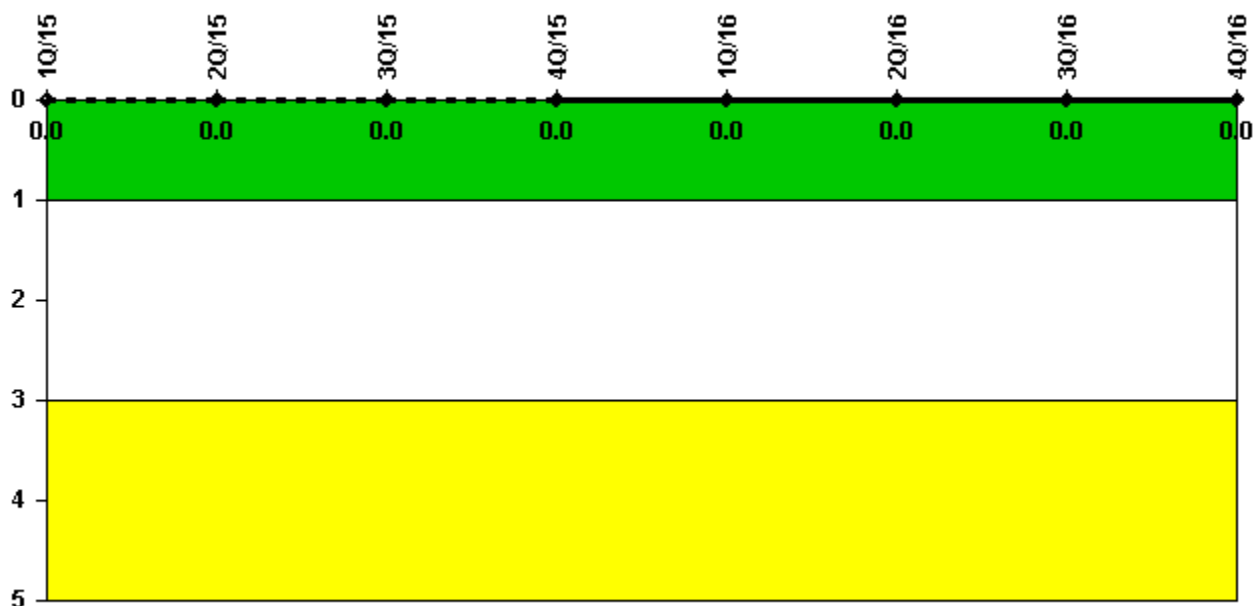
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

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.

▲ [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: January 24, 2017