

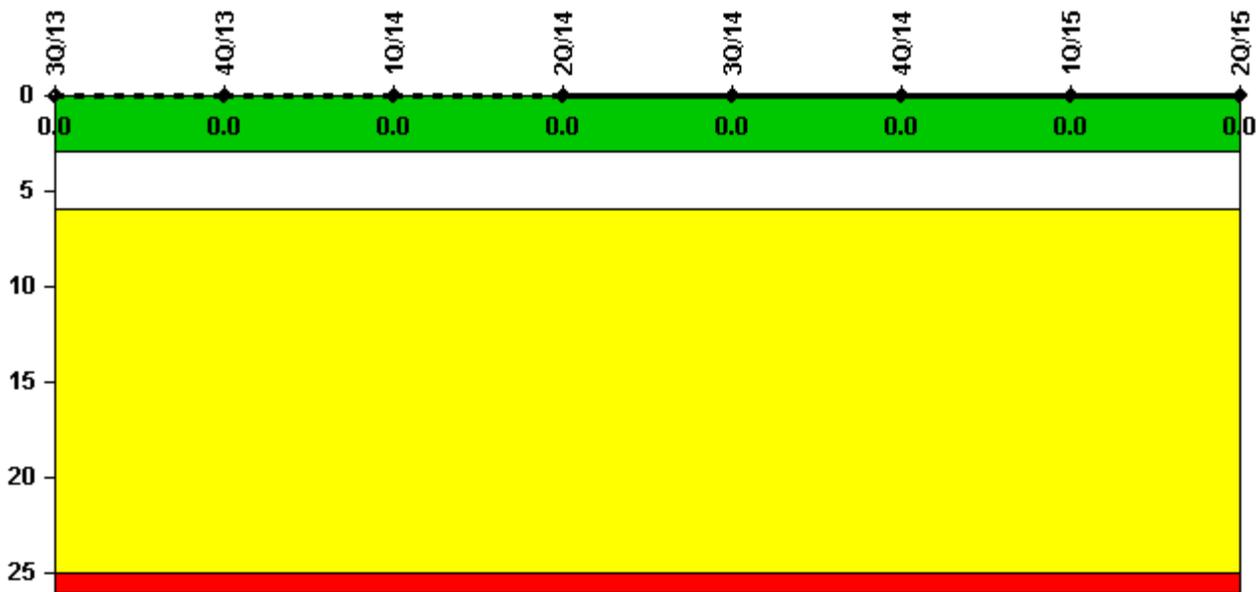
Columbia Generating Station

2Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



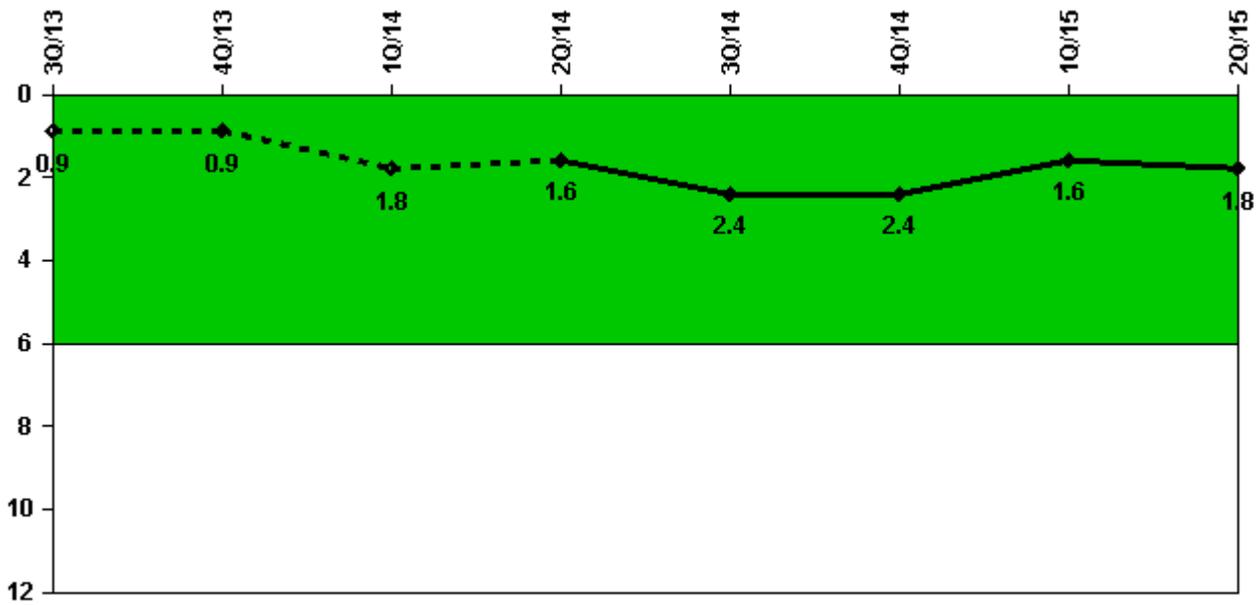
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0	2159.0	1046.6
Indicator value	0							

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



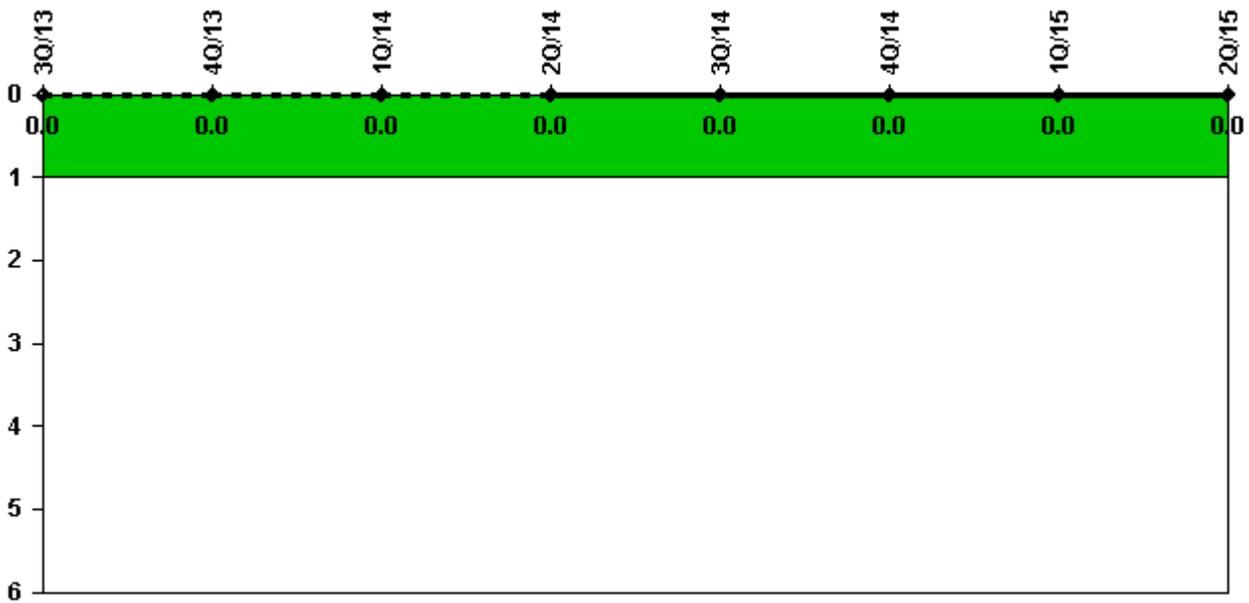
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned power changes	1.0	0	1.0	0	2.0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0	2159.0	1046.6
Indicator value	0.9	0.9	1.8	1.6	2.4	2.4	1.6	1.8

Licensee Comments: none

Unplanned Scrams with Complications



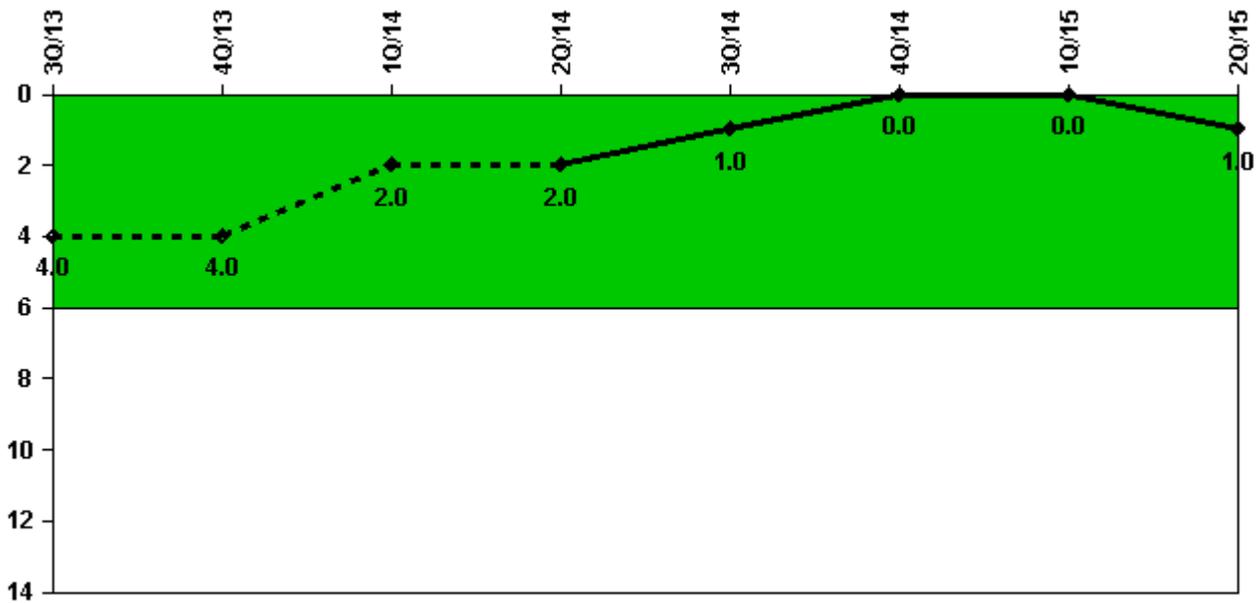
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (BWR)



Thresholds: White > 6.0

Notes

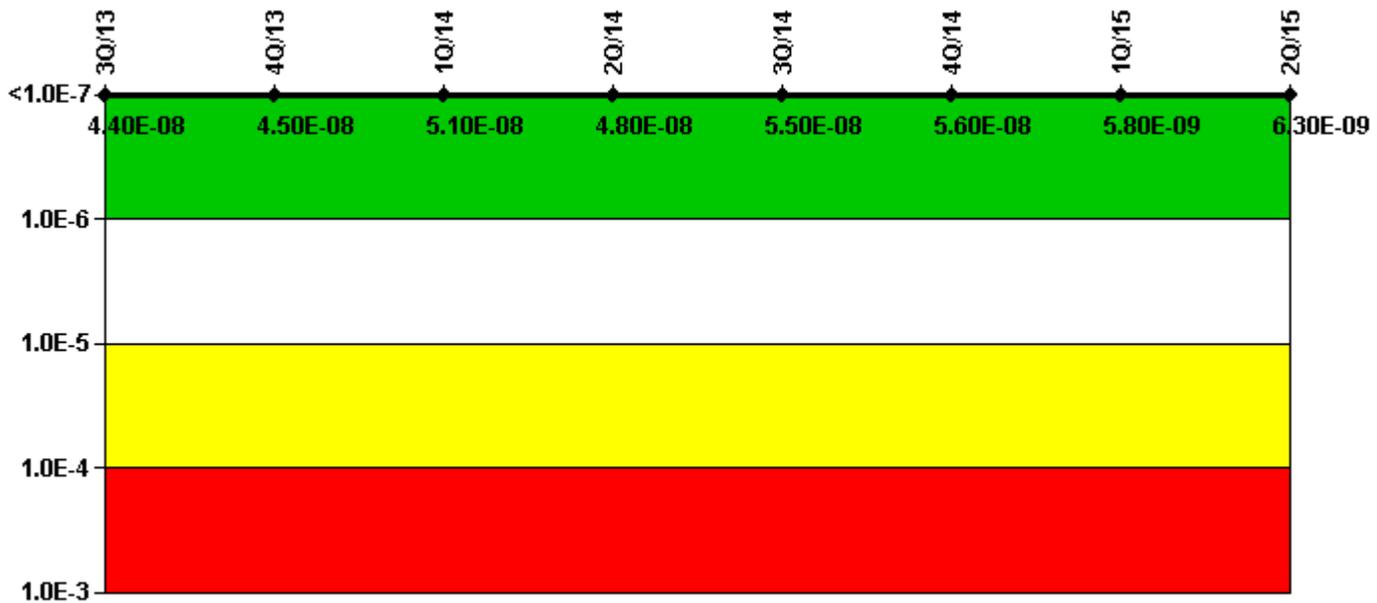
Safety System Functional Failures (BWR)	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Safety System Functional Failures	1	1	0	0	0	0	0	1
Indicator value	4	4	2	2	1	0	0	1

Licensee Comments:

4Q/13: LER 2013-007-00 -- Secondary Containment Pressure Exceeded During Severe Weather Conditions.

3Q/13: LER 2013-004-00 -- Jumper makes suppression pool spray valve remote transfer switch inoperable. LER 2013-004-01 removed the reporting criteria of 10 CFR 50.73(a)(2)(v)(D). Therefore, the reported condition was not considered a safety system functional failure. The color of the indicator does not change. DRJ.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

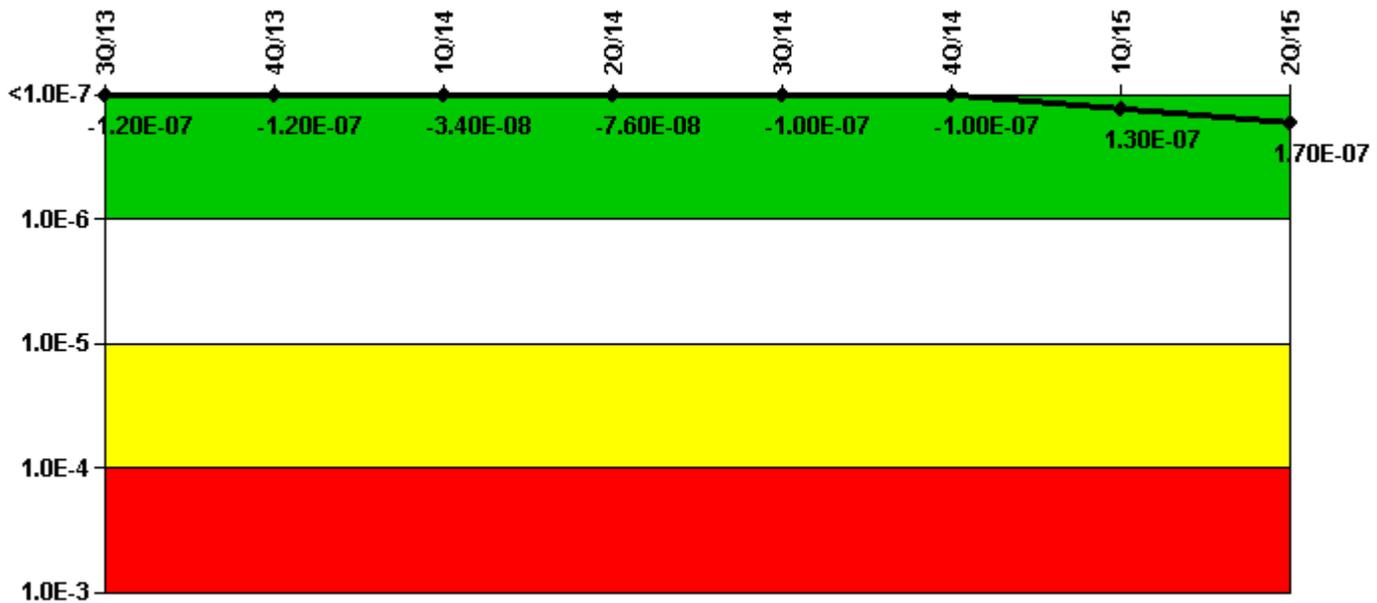
Mitigating Systems Performance Index, Emergency AC Power System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	1.54E-08	1.53E-08	1.91E-08	1.48E-08	1.99E-08	1.97E-08	5.74E-09	6.20E-09
URI (Δ CDF)	2.83E-08	2.99E-08	3.15E-08	3.32E-08	3.49E-08	3.67E-08	6.18E-11	6.18E-11
PLE	NO							
Indicator value	4.40E-08	4.50E-08	5.10E-08	4.80E-08	5.50E-08	5.60E-08	5.80E-09	6.30E-09

Licensee Comments:

1Q/15: Changed PRA Parameter(s). The MSPI coefficients were revised due to PRA updates. The MSPI Bases document was revised in December 2014 due to the PRA update. CDE was revised using the override function in January for the PRA updates that occurred in 4th quarter 2014.

4Q/14: The MSPI coefficients were revised due to PRA updates. The MSPI Bases document was revised in December 2014 due to the PRA update. CDE PRA parameters were changed in January to support the Basis update for the 4th quarter.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

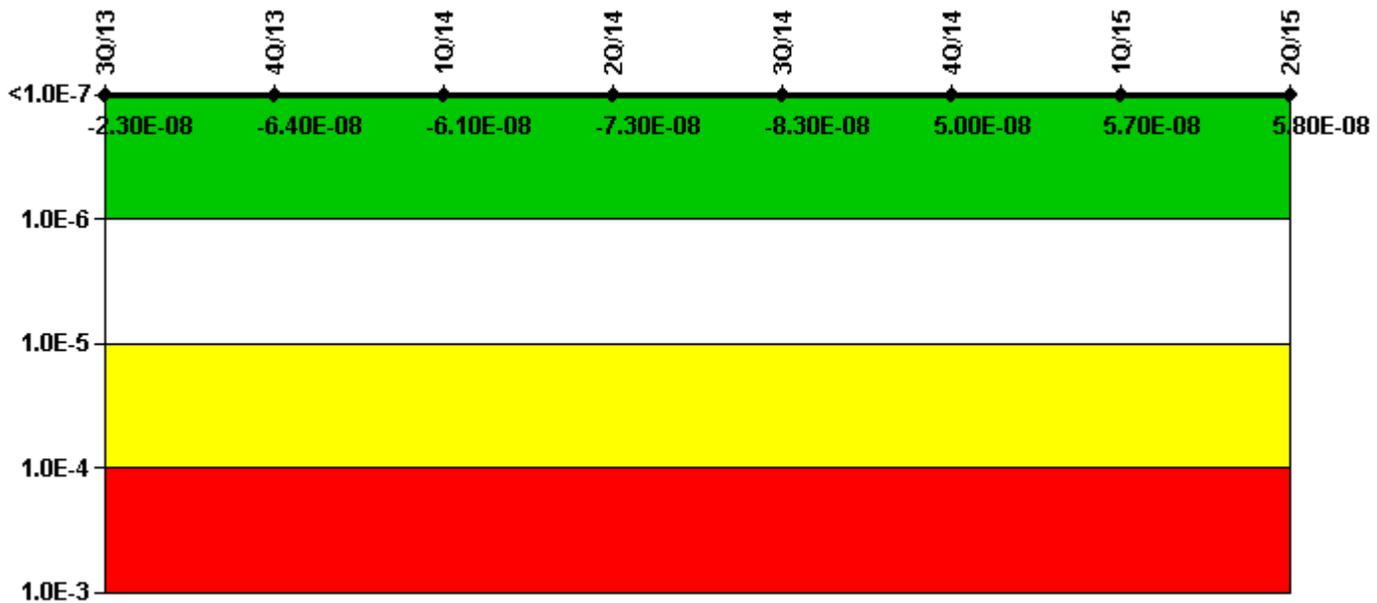
Mitigating Systems Performance Index, High Pressure Injection System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	2.89E-07	2.86E-07	3.65E-07	3.18E-07	2.86E-07	2.83E-07	4.09E-07	4.51E-07
URI (Δ CDF)	-4.10E-07	-4.05E-07	-3.99E-07	-3.94E-07	-3.89E-07	-3.83E-07	-2.78E-07	-2.76E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-07	-1.20E-07	-3.40E-08	-7.60E-08	-1.00E-07	-1.00E-07	1.30E-07	1.70E-07

Licensee Comments:

1Q/15: Changed PRA Parameter(s). The MSPI coefficients where revised due to PRA updates. The MSPI Bases document was revised in December 2014 due to the PRA update. CDE PRA parameters were changed in January to support the Basis update for the 4th quarter.

4Q/14: The MSPI coefficients where revised due to PRA updates. The MSPI Bases document was revised in December 2014 due to the PRA update. CDE PRA parameters were changed in January to support the Basis update for the 4th quarter.

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/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	1.11E-07	6.92E-08	7.08E-08	5.67E-08	4.49E-08	1.95E-08	2.43E-08	2.33E-08
URI (Δ CDF)	-1.35E-07	-1.33E-07	-1.31E-07	-1.30E-07	-1.28E-07	3.01E-08	3.25E-08	3.43E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-08	-6.40E-08	-6.10E-08	-7.30E-08	-8.30E-08	5.00E-08	5.70E-08	5.80E-08

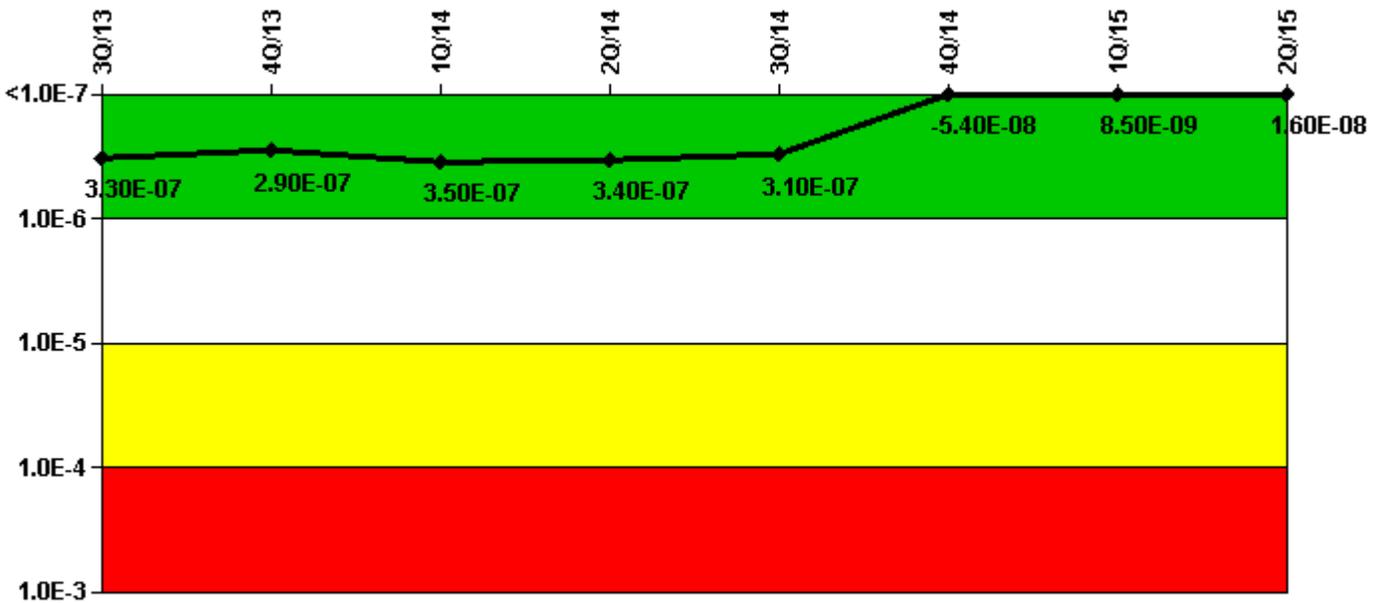
Licensee Comments:

1Q/15: Changed PRA Parameter(s). The MSPI coefficients were revised due to PRA updates. The MSPI Bases document was revised in December 2014 due to the PRA update. CDE PRA parameters were changed in January to support the Basis update for the 4th quarter.

4Q/14: The MSPI coefficients were revised due to PRA updates. The MSPI Bases document was revised in December 2014 due to the PRA update. CDE PRA parameters were changed in January to support the Basis update for the 4th quarter.

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Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

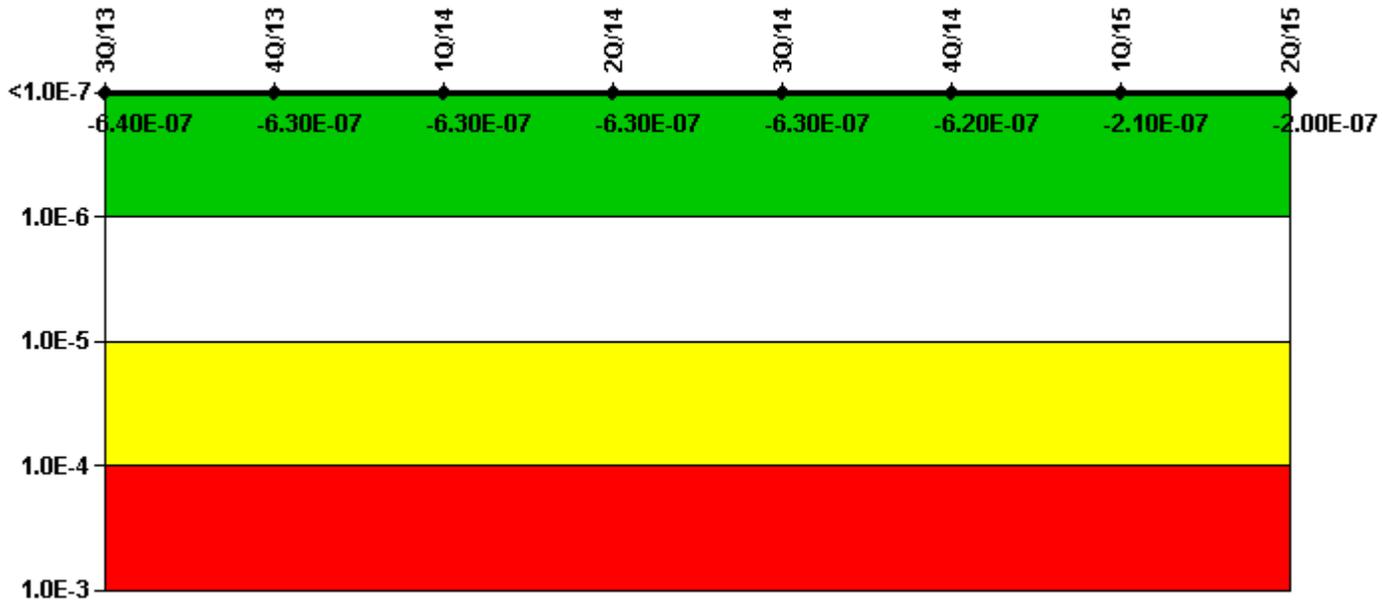
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	4.82E-07	4.16E-07	4.50E-07	4.10E-07	3.47E-07	3.09E-07	3.30E-08	3.93E-08
URI (Δ CDF)	-1.49E-07	-1.26E-07	-1.00E-07	-7.05E-08	-3.67E-08	-3.63E-07	-2.46E-08	-2.34E-08
PLE	NO							
Indicator value	3.30E-07	2.90E-07	3.50E-07	3.40E-07	3.10E-07	-5.40E-08	8.50E-09	1.60E-08

Licensee Comments:

1Q/15: Changed PRA Parameter(s). The MSPI coefficients were revised due to PRA updates. The MSPI Bases document was revised in December 2014 due to the PRA update. CDE PRA parameters were changed in January to support the Basis update for the 4th quarter.

4Q/14: The MSPI coefficients were revised due to PRA updates. The MSPI Bases document was revised in December 2014 due to the PRA update. CDE PRA parameters were changed in January to support the Basis update for the 4th quarter.

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

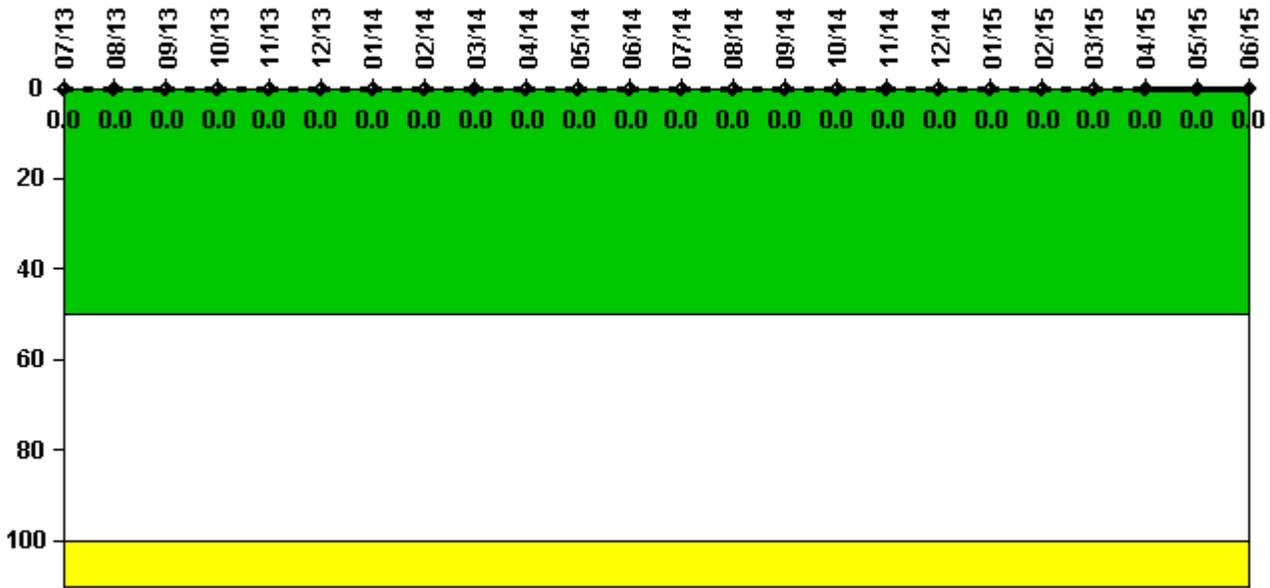
Mitigating Systems Performance Index, Cooling Water Systems	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	-1.04E-07	-1.04E-07	-1.04E-07	-1.04E-07	-1.04E-07	-1.04E-07	-3.88E-08	-3.88E-08
URI (Δ CDF)	-5.31E-07	-5.29E-07	-5.27E-07	-5.25E-07	-5.23E-07	-5.20E-07	-1.66E-07	-1.66E-07
PLE	NO							
Indicator value	-6.40E-07	-6.30E-07	-6.30E-07	-6.30E-07	-6.30E-07	-6.20E-07	-2.10E-07	-2.00E-07

Licensee Comments:

1Q/15: Changed PRA Parameter(s). The MSPI coefficients were revised due to PRA updates. The MSPI Bases document was revised in December 2014 due to the PRA update. CDE PRA parameters were changed in January to support the Basis update for the 4th quarter.

4Q/14: The MSPI coefficients were revised due to PRA updates. The MSPI Bases document was revised in December 2014 due to the PRA update. CDE PRA parameters were changed in January to support the Basis update for the 4th quarter.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

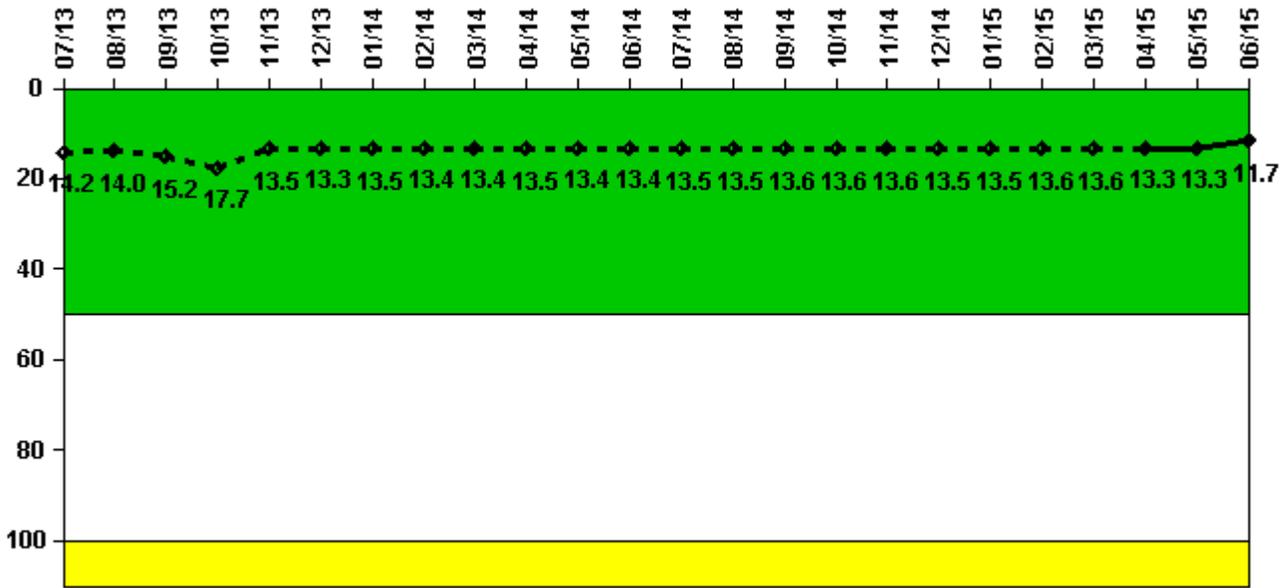
Notes

Reactor Coolant System Activity	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum activity	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000006
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	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum activity	0	0	0	0.000001	0	0.000001	0.000002	0.000001	0.000001	0	0	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



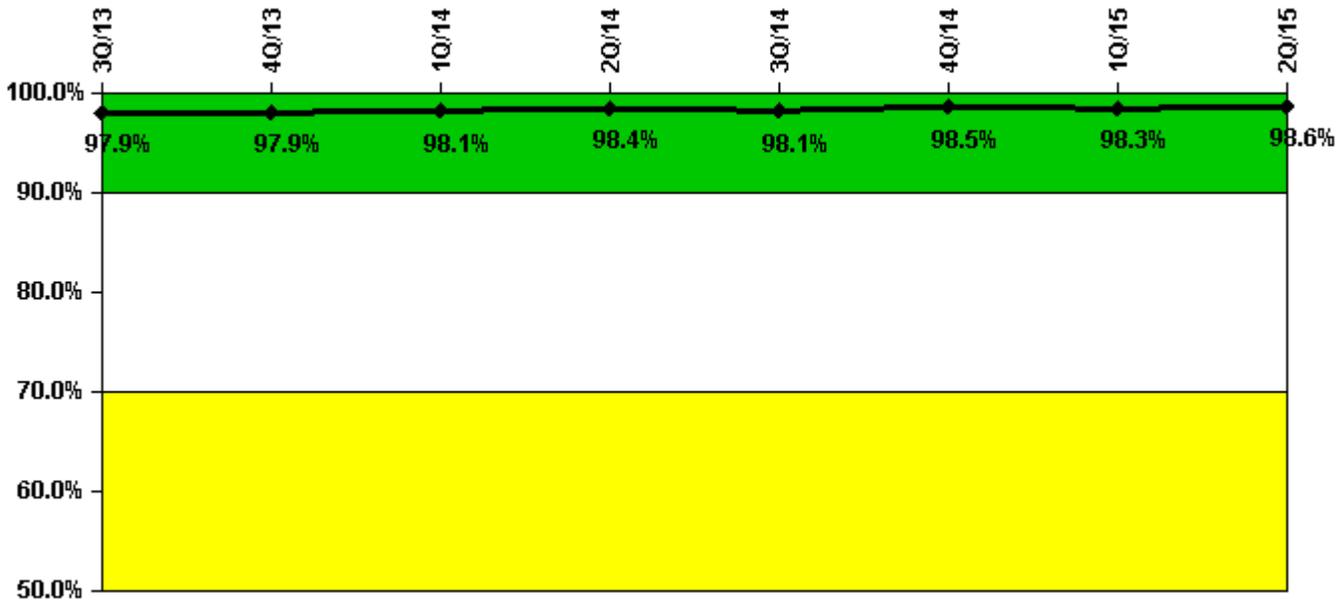
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum leakage	3.540	3.490	3.800	4.420	3.370	3.330	3.380	3.350	3.340	3.370	3.350	3.360
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	14.2	14.0	15.2	17.7	13.5	13.3	13.5	13.4	13.4	13.5	13.4	13.4
Reactor Coolant System Leakage	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum leakage	3.370	3.380	3.410	3.390	3.390	3.370	3.370	3.390	3.400	3.330	3.320	2.930
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	13.5	13.5	13.6	13.6	13.6	13.5	13.5	13.6	13.6	13.3	13.3	11.7

Licensee Comments: none

Drill/Exercise Performance



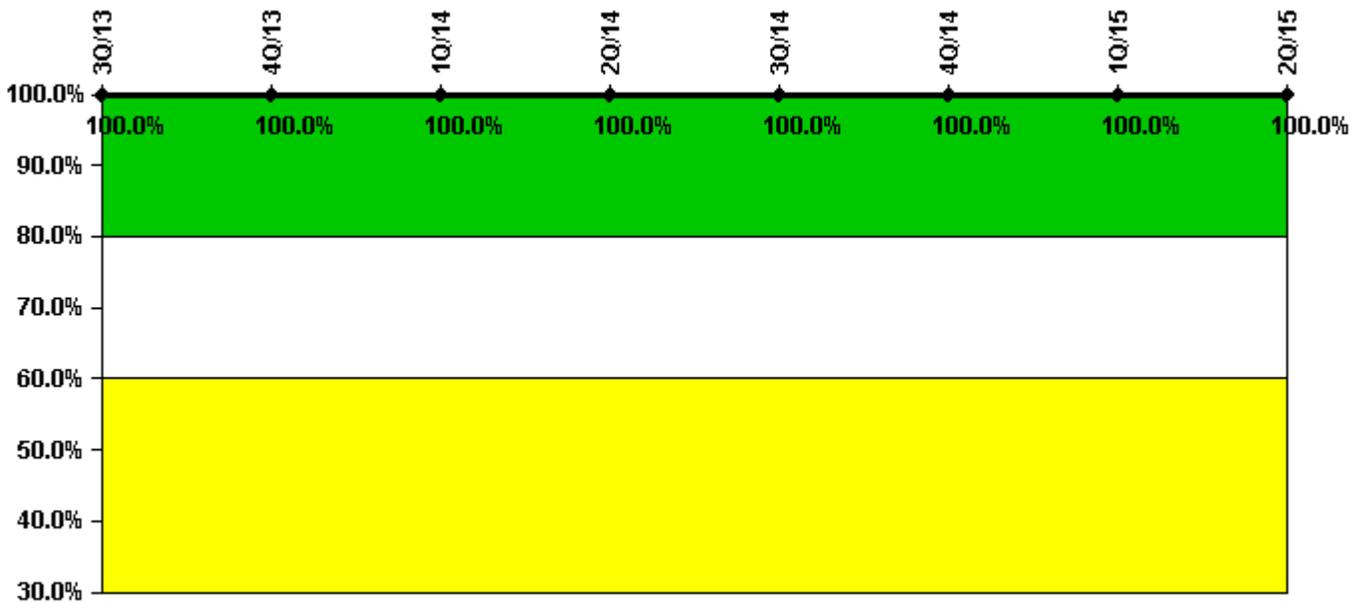
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful opportunities	19.0	40.0	61.0	28.0	49.0	51.0	33.0	4.0
Total opportunities	19.0	41.0	61.0	28.0	51.0	51.0	34.0	4.0
Indicator value	97.9%	97.9%	98.1%	98.4%	98.1%	98.5%	98.3%	98.6%

Licensee Comments: none

ERO Drill Participation



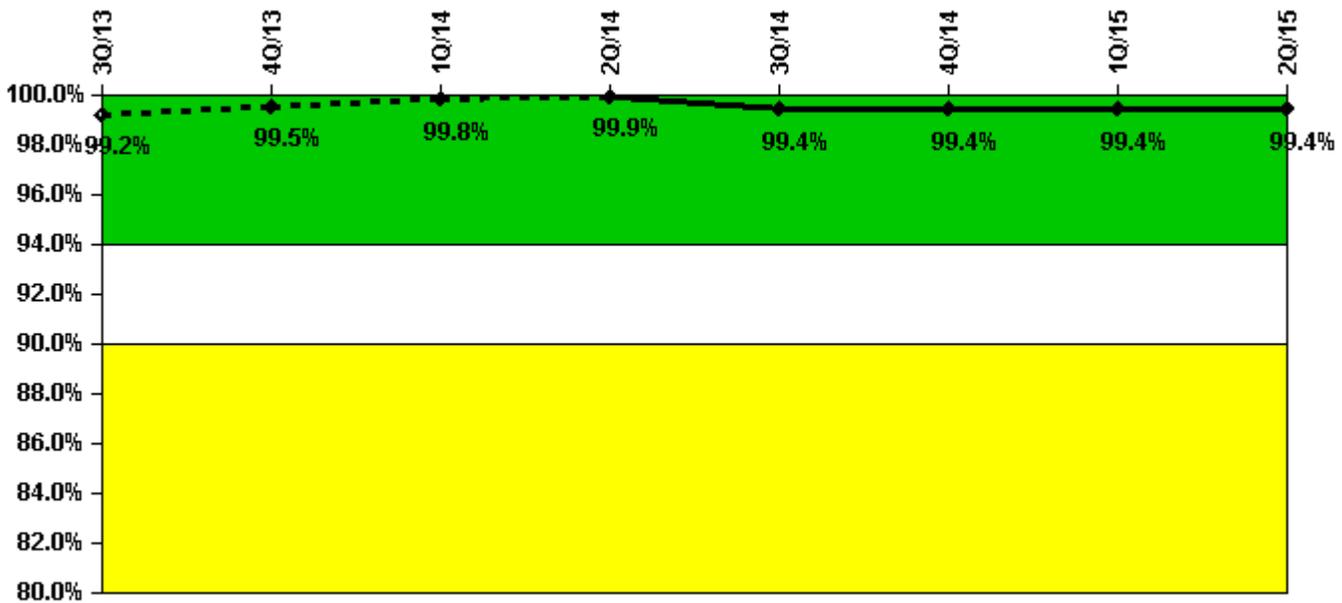
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Participating Key personnel	41.0	41.0	40.0	40.0	42.0	43.0	45.0	46.0
Total Key personnel	41.0	41.0	40.0	40.0	42.0	43.0	45.0	46.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



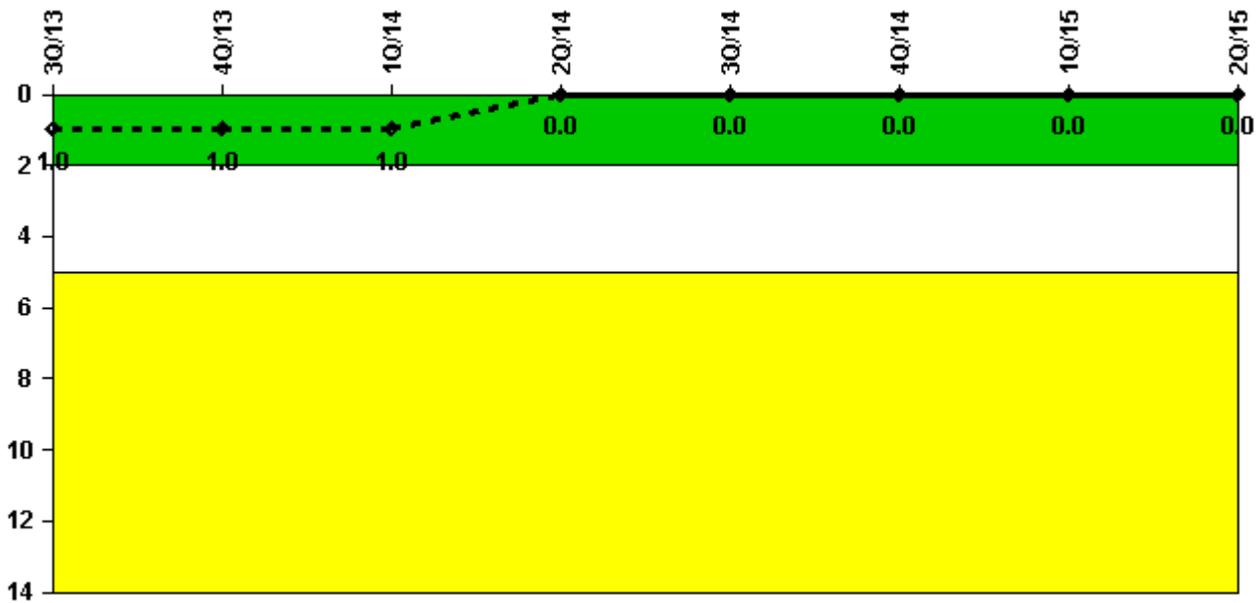
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful siren-tests	171	169	182	168	178	182	156	182
Total sirens-tests	172	169	182	168	182	182	156	182
Indicator value	99.2%	99.5%	99.8%	99.9%	99.4%	99.4%	99.4%	99.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

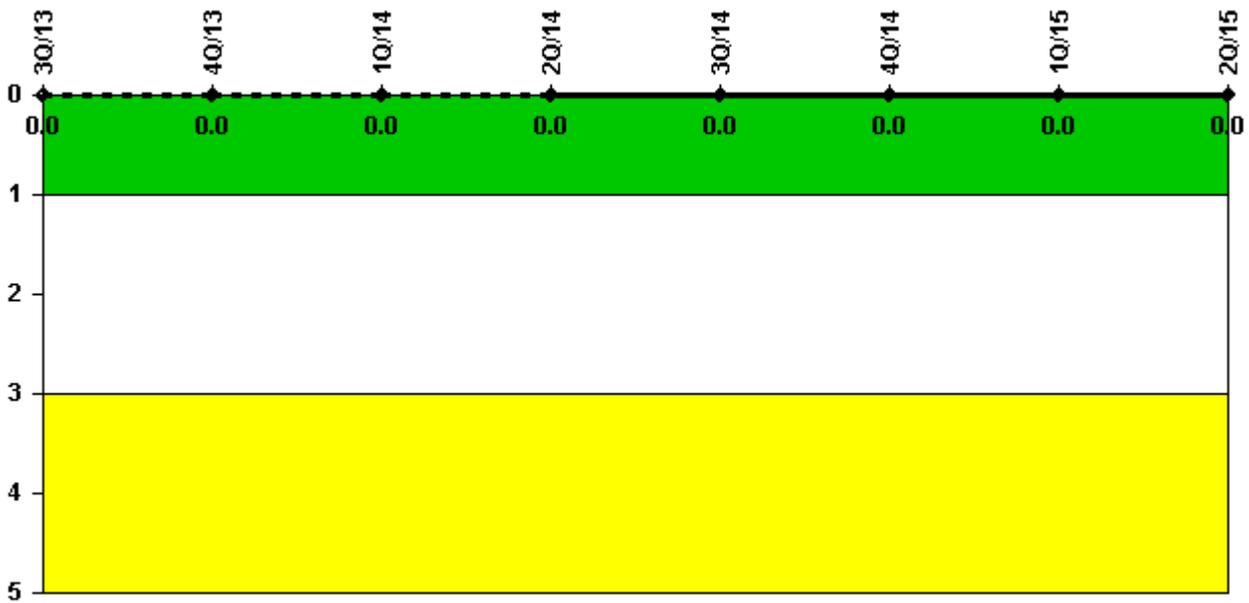
Notes

Occupational Exposure Control Effectiveness	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
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	1	1	1	0	0	0	0	0

Licensee Comments:

3Q/14: The High Radiation Area Occurrence that was originally submitted for September 2014 CDE has been removed. The occurrence did not meet the criteria as defined in NEI 99-02 Rev 7 Technical Specification High Radiation Area (>1 rem per hour) Occurrence. No threshold change occurred.

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
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: July 24, 2015