

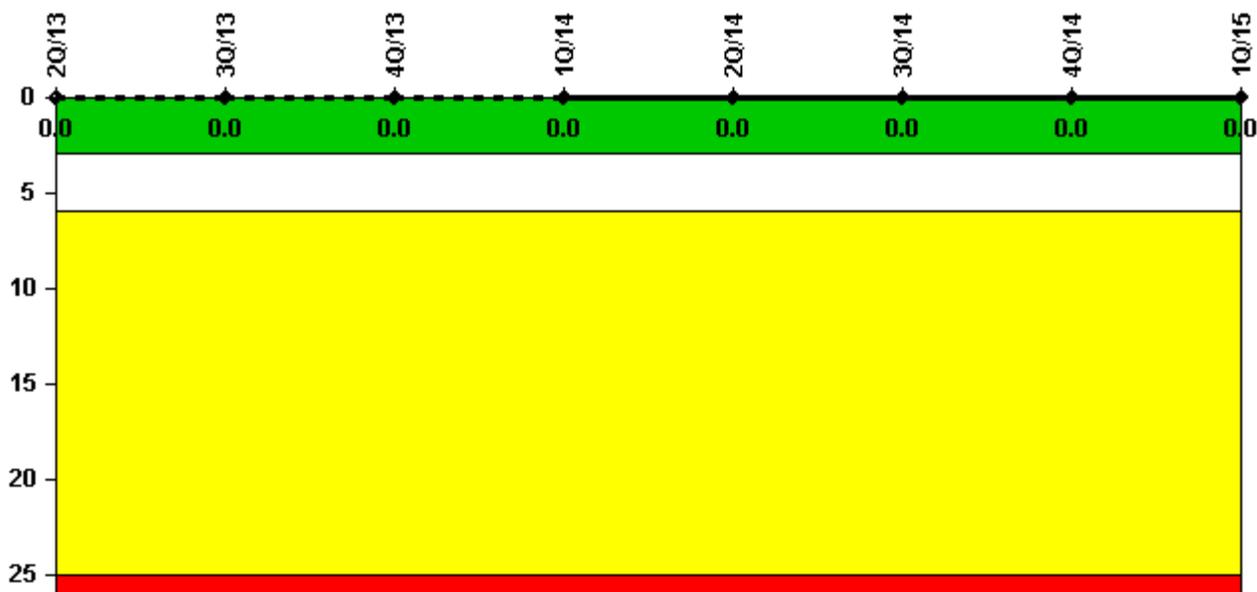
Brunswick 1

1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



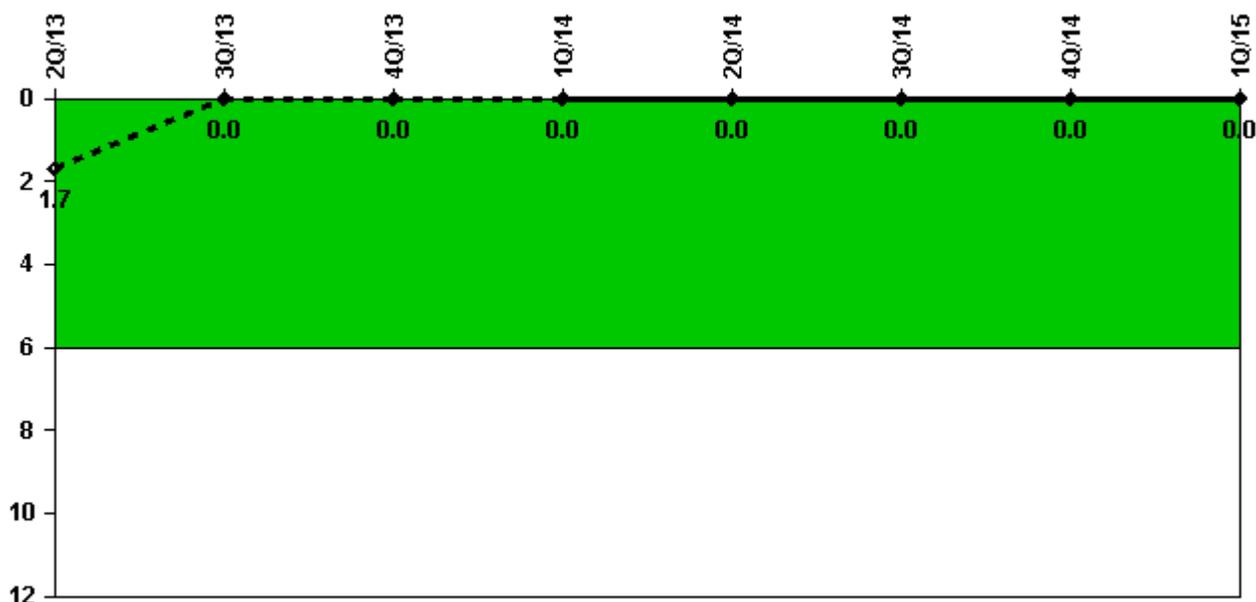
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1935.3	2208.0	2209.0	1414.7	1962.3	2208.0	2209.0	2159.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

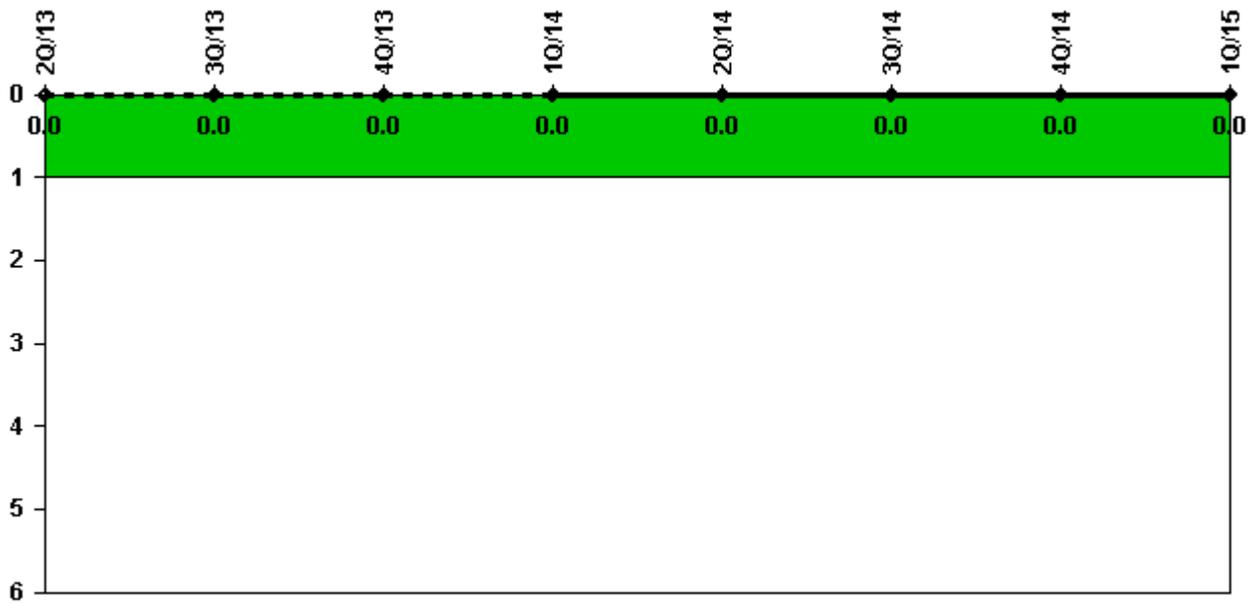
Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1935.3	2208.0	2209.0	1414.7	1962.3	2208.0	2209.0	2159.0
Indicator value	1.7	0						

Licensee Comments:

2Q/13: On April 15, 2013, Brunswick submitted to the NRC a request for a notice of enforcement discretion (NOED) for Unit 1. Unit 2 was in a refueling outage, and a degraded condition was identified on an emergency bus (E8) power transformer, requiring its replacement. This put the operating Unit (Unit 1) into multiple 7-day LCO's. Associated work and subsequent testing put these LCO Completion Times at risk. Later on April 15, 2013 (and documented via letter dated April 17), the NRC verbally granted the NOED for Unit 1. The required work and testing was eventually completed within the allowed Completion Time plus the applicable Required Action Completion Time. Though the additional time granted by the NOED was never used, it more than likely resulted in the plant not commencing a power change greater than 20%. Operations may have taken action to begin the downpower during this time, had the NOED not been in place.

Unplanned Scrams with Complications



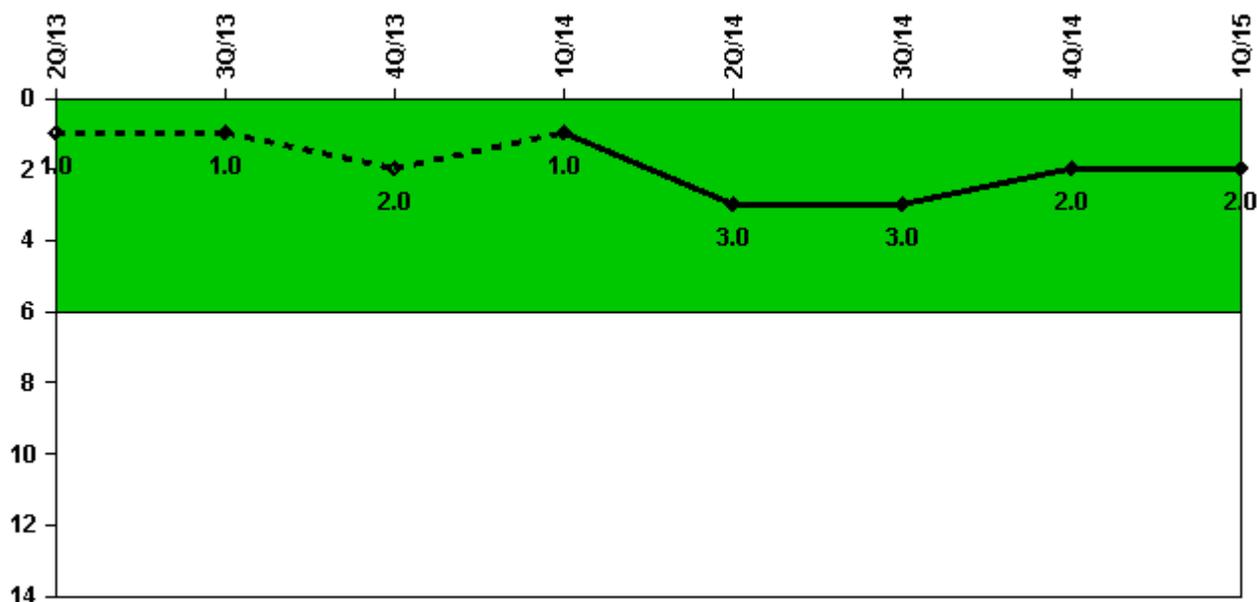
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/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)	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Safety System Functional Failures	0	0	1	0	2	0	0	0
Indicator value	1	1	2	1	3	3	2	2

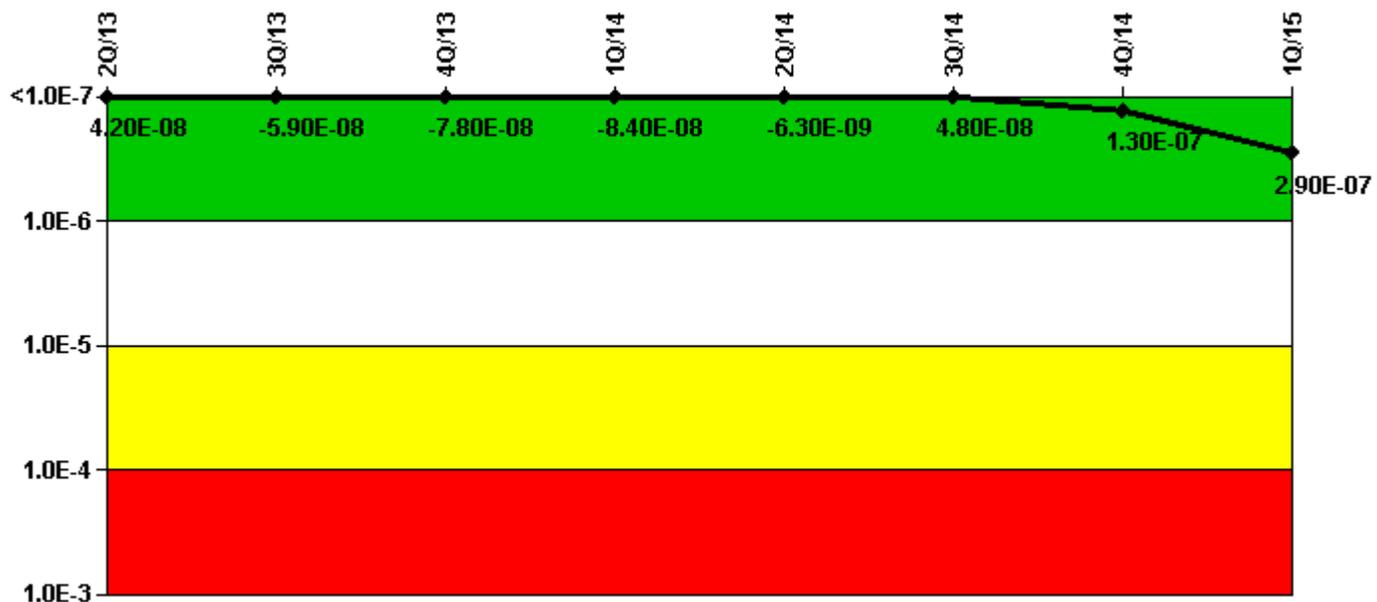
Licensee Comments:

2Q/14: LER 1-2014-003, dated 5/19/14 reported two events where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. Additionally, a SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. A change file was created in June 2014. These changes did not affect the "color" of the indicator.

2Q/14: LER 1-2014-003, dated 5/19/14 reported two events where simultaneous opening of the secondary containment airlock doors resulted in a SSFF. Additionally, a SSFF reported in November 2013 was removed based on the retraction of LER 1-2013-003 by letter dated 6/13/14. A change file was created in June 2014.

4Q/13: LER 1-02013-003 was submitted on 11/14/2013 for operation prohibited by Tech Specs when past operability evaluation determined that the Service Water system for both Unit 1 and Unit 2 may have not been able to perform its safety function due to postulated flooding.

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/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	1.84E-08	1.33E-08	4.55E-08	3.89E-08	4.68E-08	4.17E-08	5.61E-08	1.40E-07
URI (Δ CDF)	2.34E-08	-7.21E-08	-1.24E-07	-1.23E-07	-5.31E-08	6.78E-09	7.64E-08	1.45E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.20E-08	-5.90E-08	-7.80E-08	-8.40E-08	-6.30E-09	4.80E-08	1.30E-07	2.90E-07

Licensee Comments:

3Q/14: EDG test was not recognized as unavailability in August 2014. This was corrected in November 2014. This change does not affect the "color" of the indicator.

1Q/14: PRA parameters were not changed for this quarter. Only the CDF was verified and approved in January 2014 for the 4Q 2013 submittal.

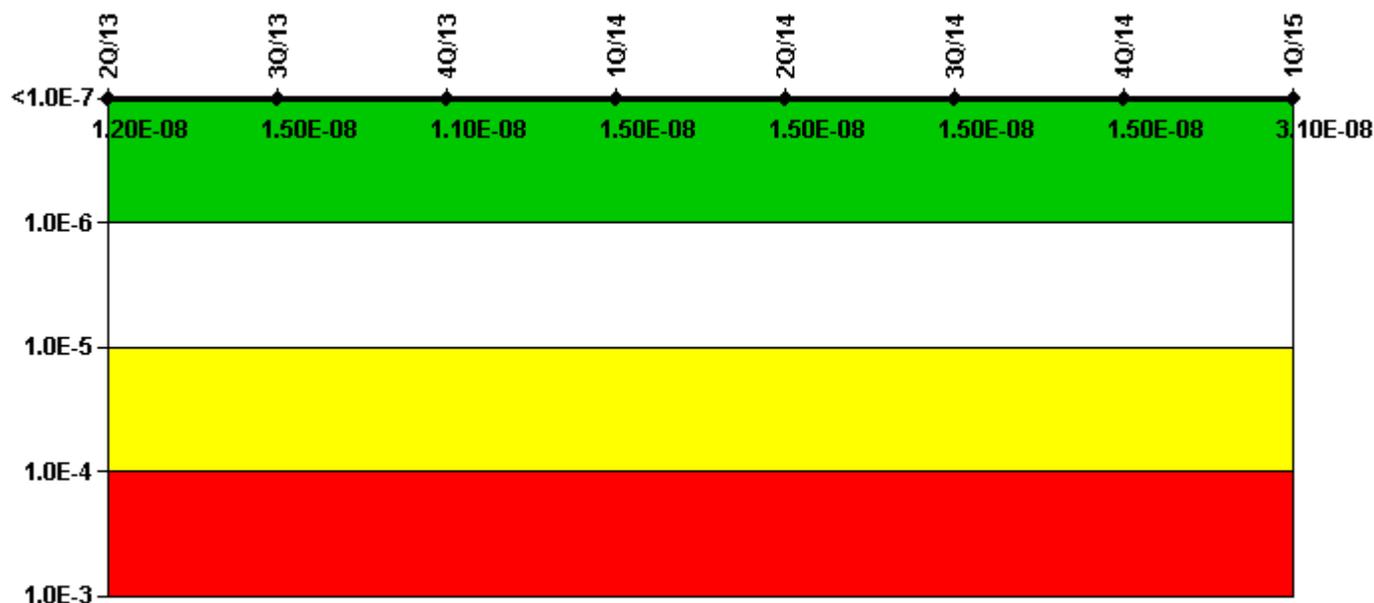
1Q/14: Changed PRA Parameter(s). PRA parameters were not changed for this quarter. Only the CDF was verified and approved in January 2014 for the 4Q 2013 submittal.

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

2Q/13: EDG test was not recognized as unavailability in June 2013. This was corrected in November 2014. This

change does not affect the "color" of the indicator.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

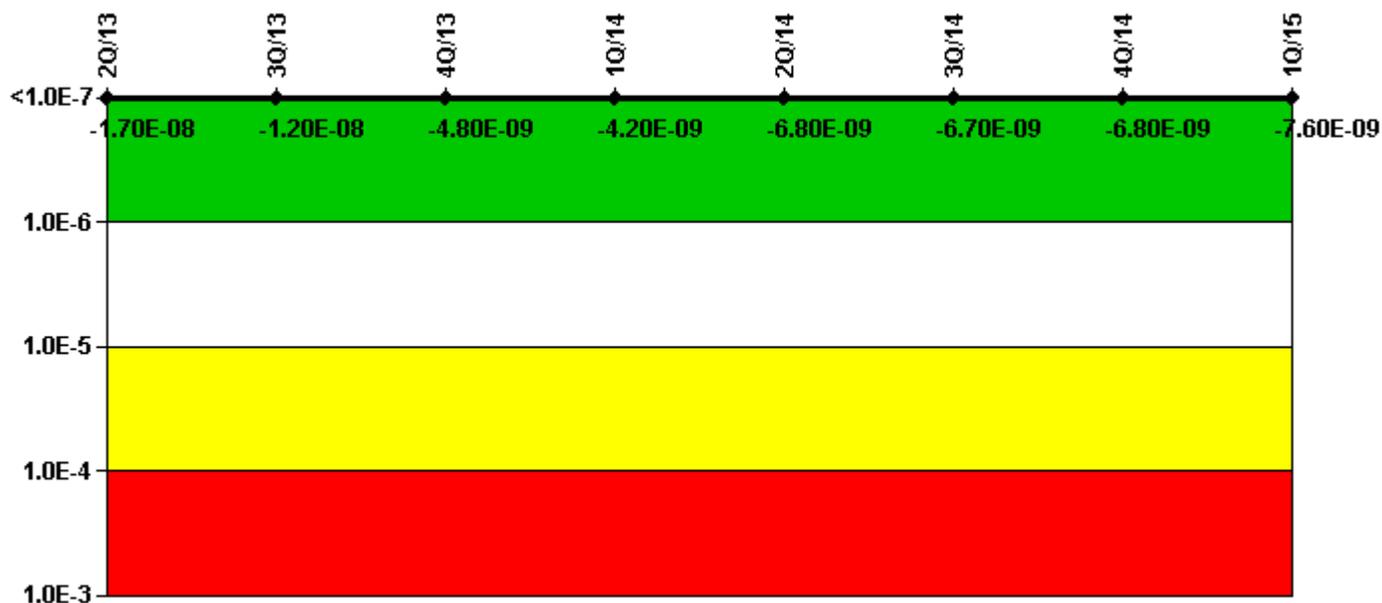
Mitigating Systems Performance Index, High Pressure Injection System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	2.91E-09	5.12E-09	3.44E-09	7.73E-09	7.50E-09	7.86E-09	7.53E-09	9.55E-09
URI (Δ CDF)	9.54E-09	9.54E-09	7.25E-09	7.25E-09	7.25E-09	7.25E-09	7.25E-09	2.10E-08
PLE	NO							
Indicator value	1.20E-08	1.50E-08	1.10E-08	1.50E-08	1.50E-08	1.50E-08	1.50E-08	3.10E-08

Licensee Comments:

1Q/14: Changed PRA Parameter(s). PRA parameters were not changed for this quarter. Only the CDF was verified and approved in January 2014 for the 4Q 2013 submittal.

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

Mitigating Systems Performance Index, Heat Removal System



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

Notes

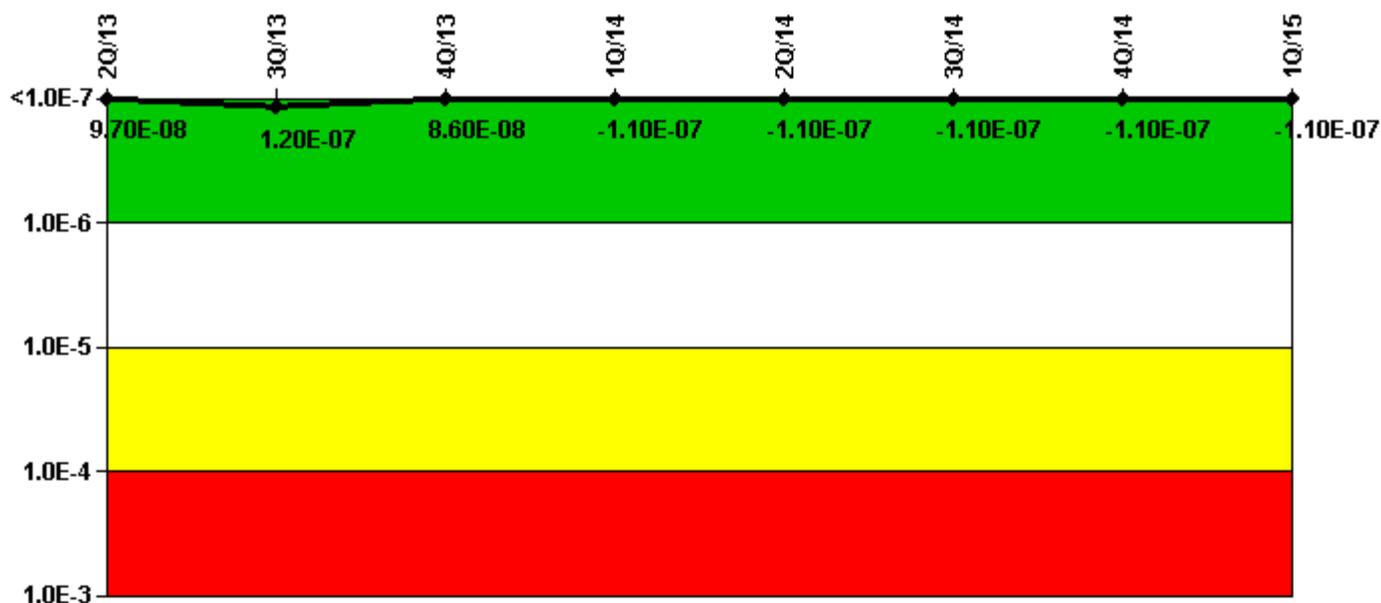
Mitigating Systems Performance Index, Heat Removal System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-3.07E-09	1.95E-09	5.38E-09	5.99E-09	3.44E-09	3.48E-09	3.43E-09	2.64E-09
URI (Δ CDF)	-1.42E-08	-1.42E-08	-1.02E-08	-1.02E-08	-1.02E-08	-1.02E-08	-1.02E-08	-1.02E-08
PLE	NO							
Indicator value	-1.70E-08	-1.20E-08	-4.80E-09	-4.20E-09	-6.80E-09	-6.70E-09	-6.80E-09	-7.60E-09

Licensee Comments:

1Q/14: Changed PRA Parameter(s). PRA parameters were not changed for this quarter. Only the CDF was verified and approved in January 2014 for the 4Q 2013 submittal.

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

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/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	2.20E-08	4.25E-08	1.46E-08	-3.45E-08	-3.45E-08	-3.45E-08	-3.45E-08	-3.45E-08
URI (Δ CDF)	7.52E-08	7.52E-08	7.17E-08	-7.13E-08	-7.13E-08	-7.13E-08	-7.13E-08	-7.13E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.70E-08	1.20E-07	8.60E-08	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07

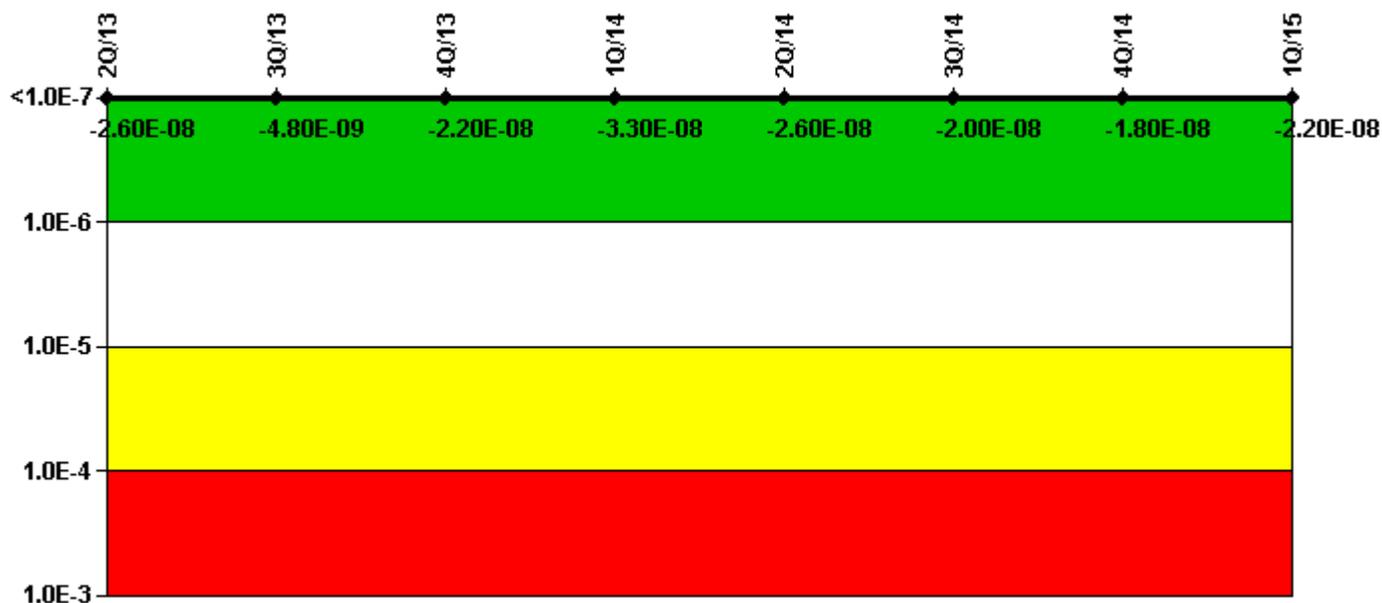
Licensee Comments:

1Q/14: Changed PRA Parameter(s). PRA parameters were not changed for this quarter. Only the CDF was verified and approved in January 2014 for the 4Q 2013 submittal.

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

2Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

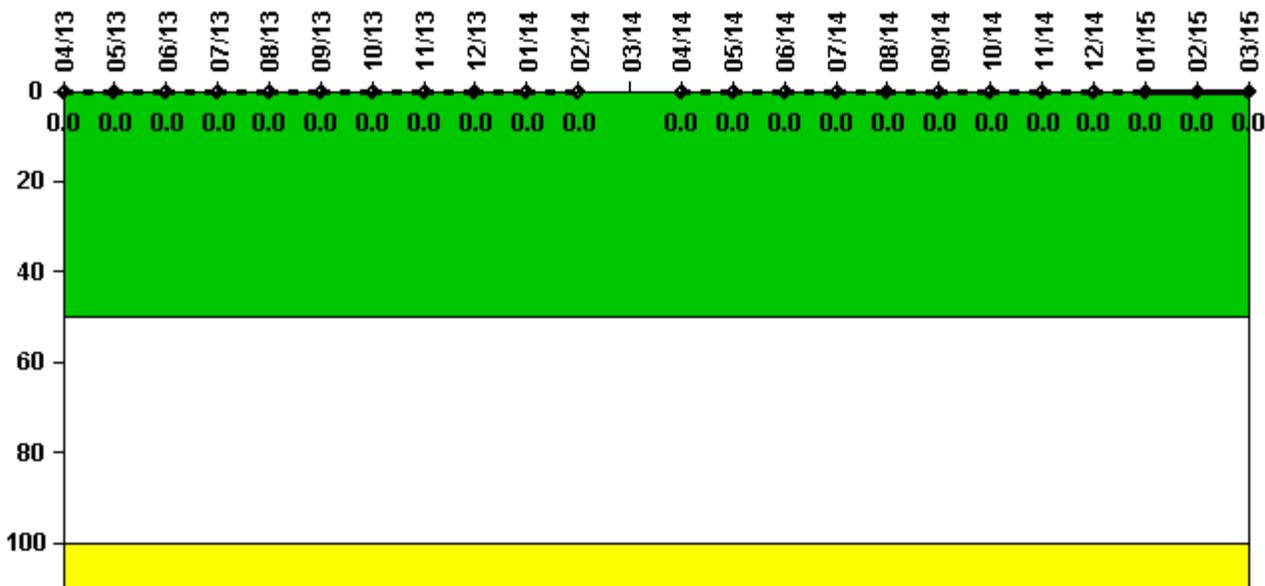
Mitigating Systems Performance Index, Cooling Water Systems	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-2.18E-08	-9.98E-10	3.13E-09	-7.84E-09	-7.21E-09	-1.21E-09	1.08E-09	-2.67E-09
URI (Δ CDF)	-3.81E-09	-3.82E-09	-2.49E-08	-2.50E-08	-1.89E-08	-1.90E-08	-1.90E-08	-1.90E-08
PLE	NO							
Indicator value	-2.60E-08	-4.80E-09	-2.20E-08	-3.30E-08	-2.60E-08	-2.00E-08	-1.80E-08	-2.20E-08

Licensee Comments:

1Q/14: Changed PRA Parameter(s). PRA parameters were not changed for this quarter. Only the CDF was verified and approved in January 2014 for the 4Q 2013 submittal.

4Q/13: Changed PRA Parameter(s). The plants PRA model was revised in the 3rd quarter of 2013. The MSPI Basis Document was revised in the 4th quarter of 2013, and the resulting new MSPI coefficients were entered into CDE for the applicable systems. New MSPI coefficients existed on all five MSPI systems, along with change to the CDF.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

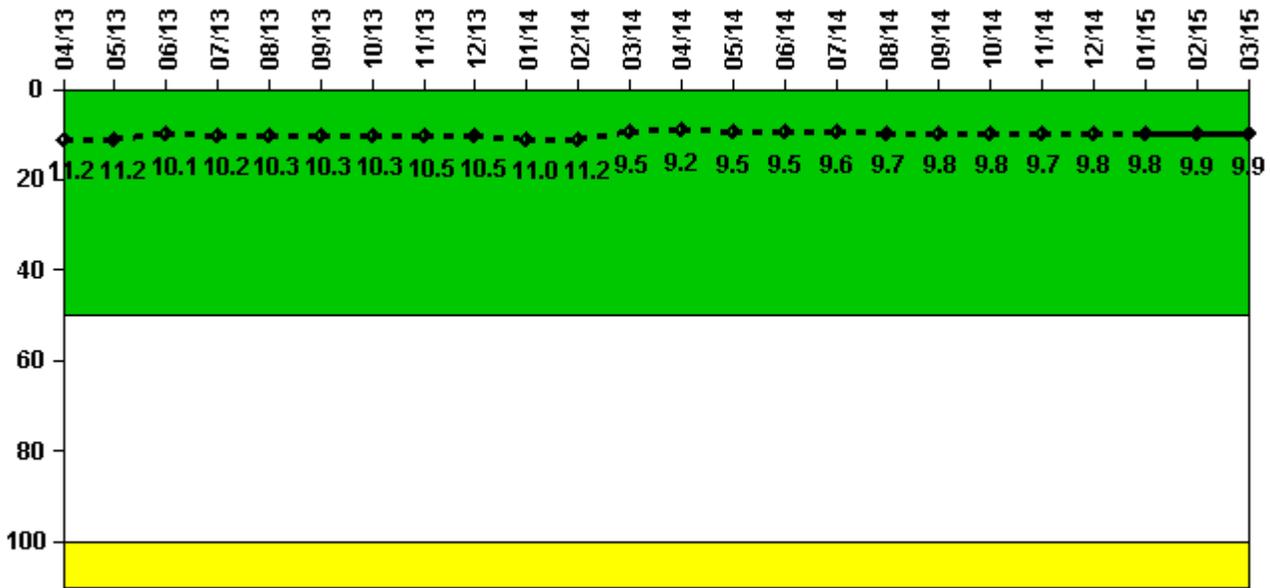
Reactor Coolant System Activity	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum activity	0.000052	0.000052	0.000048	0.000056	0.000048	0.000046	0.000052	0.000047	0.000047	0.000047	0.000048	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	N/A

Reactor Coolant System Activity	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum activity	0.000037	0.000036	0.000037	0.000034	0.000038	0.000034	0.000032	0.000030	0.000030	0.000032	0.000037	0.000036
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:

3/14: Unit 1 was in refueling outage (B120R1) for the entire month of March.

Reactor Coolant System Leakage



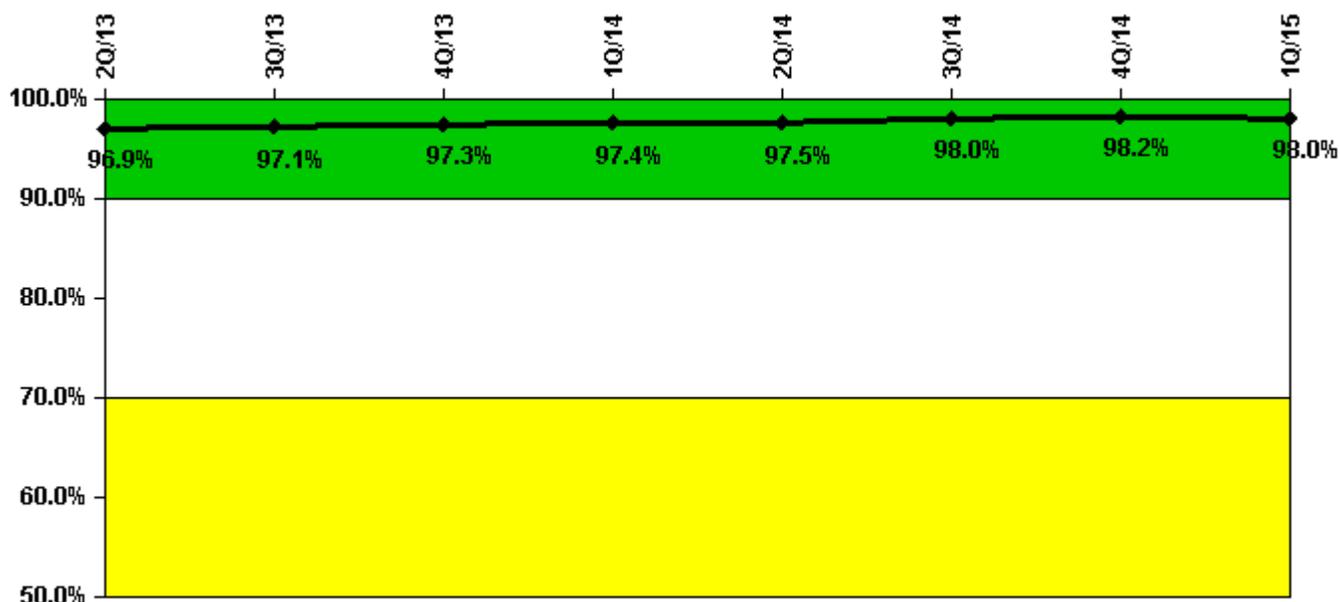
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum leakage	2.790	2.810	2.530	2.560	2.580	2.583	2.579	2.624	2.633	2.748	2.800	2.371
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	11.2	11.2	10.1	10.2	10.3	10.3	10.3	10.5	10.5	11.0	11.2	9.5
Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	2.293	2.385	2.385	2.407	2.430	2.448	2.438	2.426	2.453	2.461	2.482	2.482
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	9.2	9.5	9.5	9.6	9.7	9.8	9.8	9.7	9.8	9.8	9.9	9.9

Licensee Comments: none

Drill/Exercise Performance



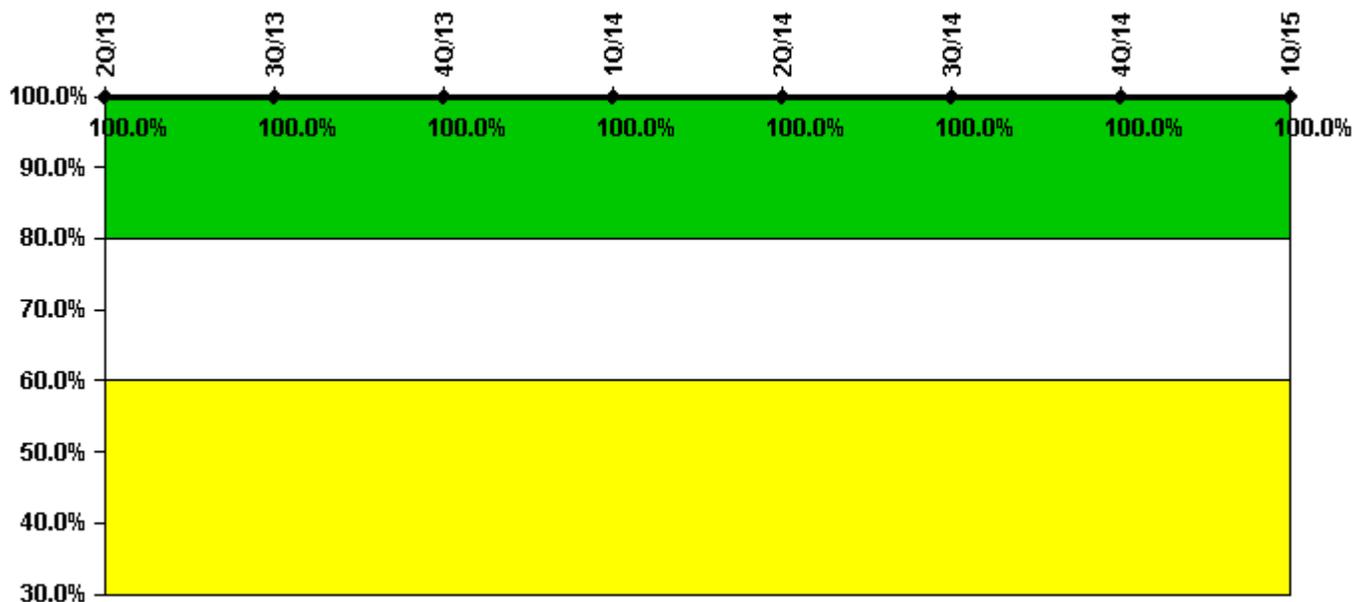
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful opportunities	25.0	18.0	54.0	20.0	22.0	33.0	19.0	8.0
Total opportunities	28.0	18.0	54.0	20.0	23.0	33.0	19.0	8.0
Indicator value	96.9%	97.1%	97.3%	97.4%	97.5%	98.0%	98.2%	98.0%

Licensee Comments: none

ERO Drill Participation



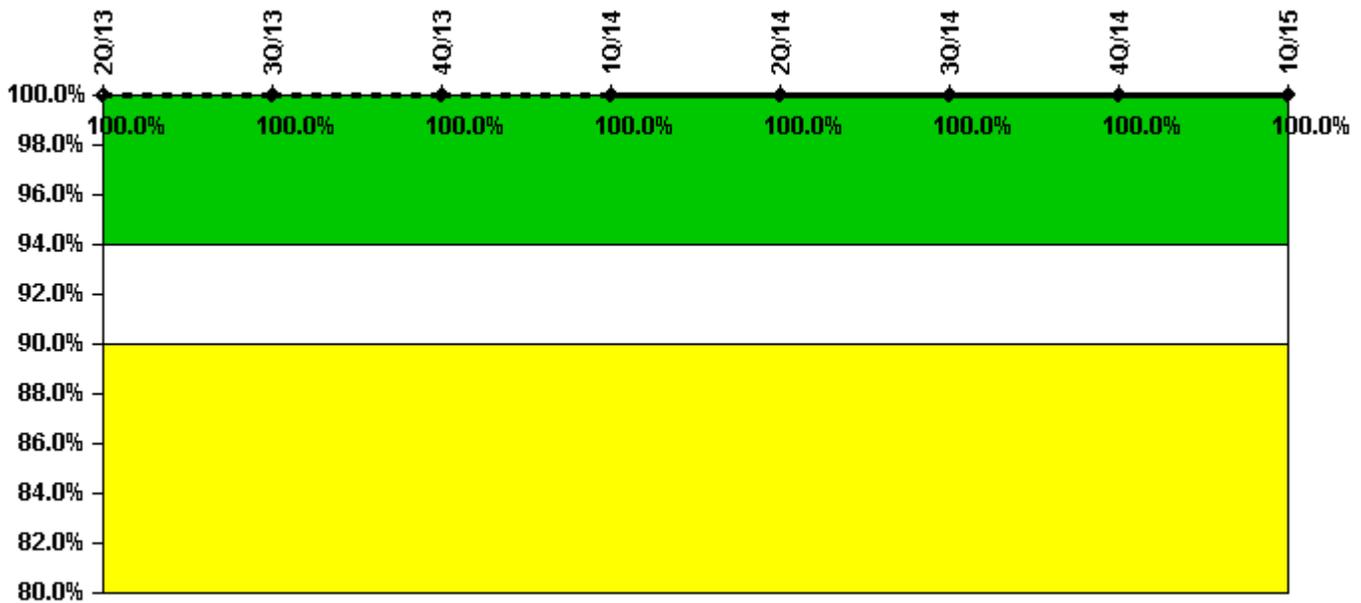
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Participating Key personnel	94.0	95.0	98.0	95.0	100.0	94.0	92.0	93.0
Total Key personnel	94.0	95.0	98.0	95.0	100.0	94.0	92.0	93.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



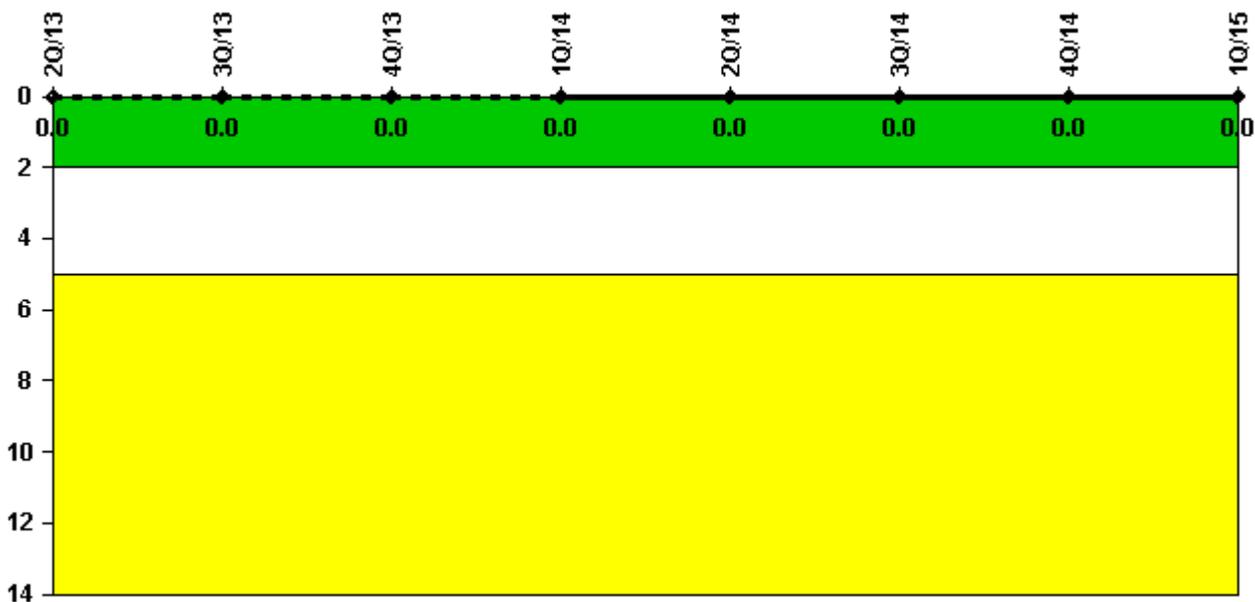
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful siren-tests	532	532	608	494	532	570	570	532
Total sirens-tests	532	532	608	494	532	570	570	532
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



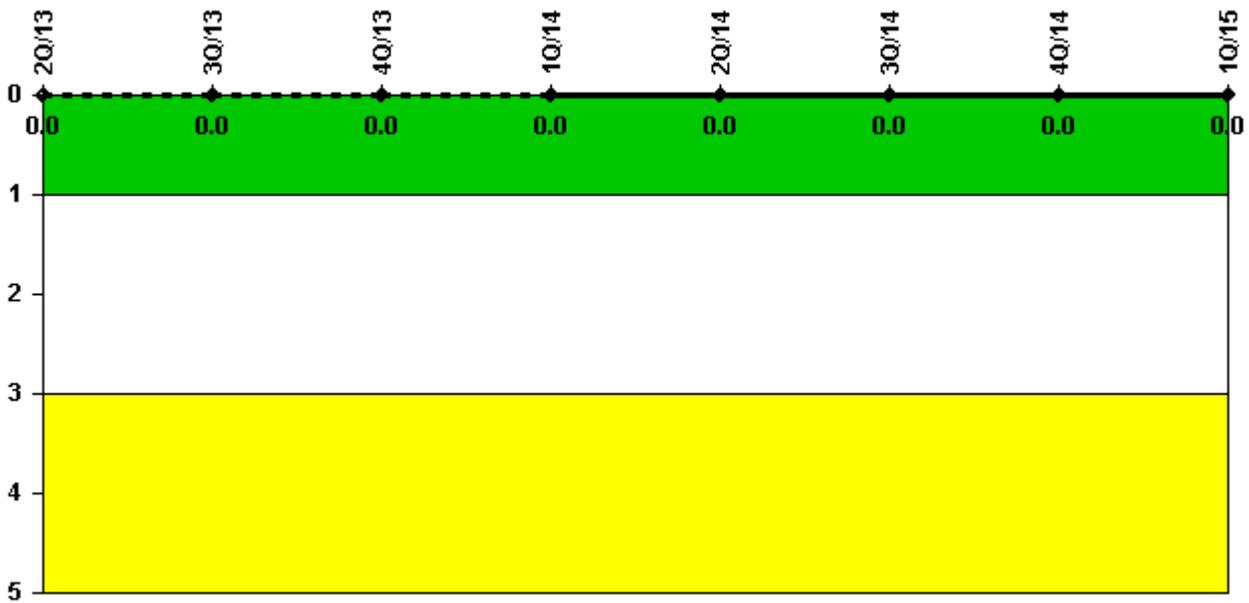
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	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: April 23, 2015