

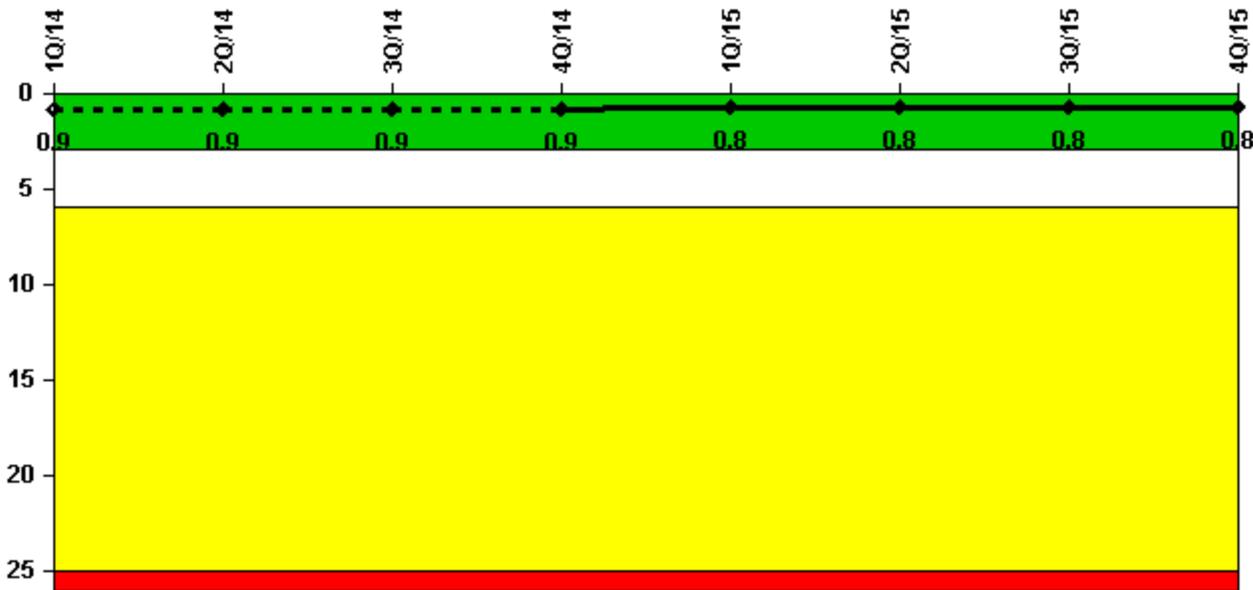
Limerick 1

4Q/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

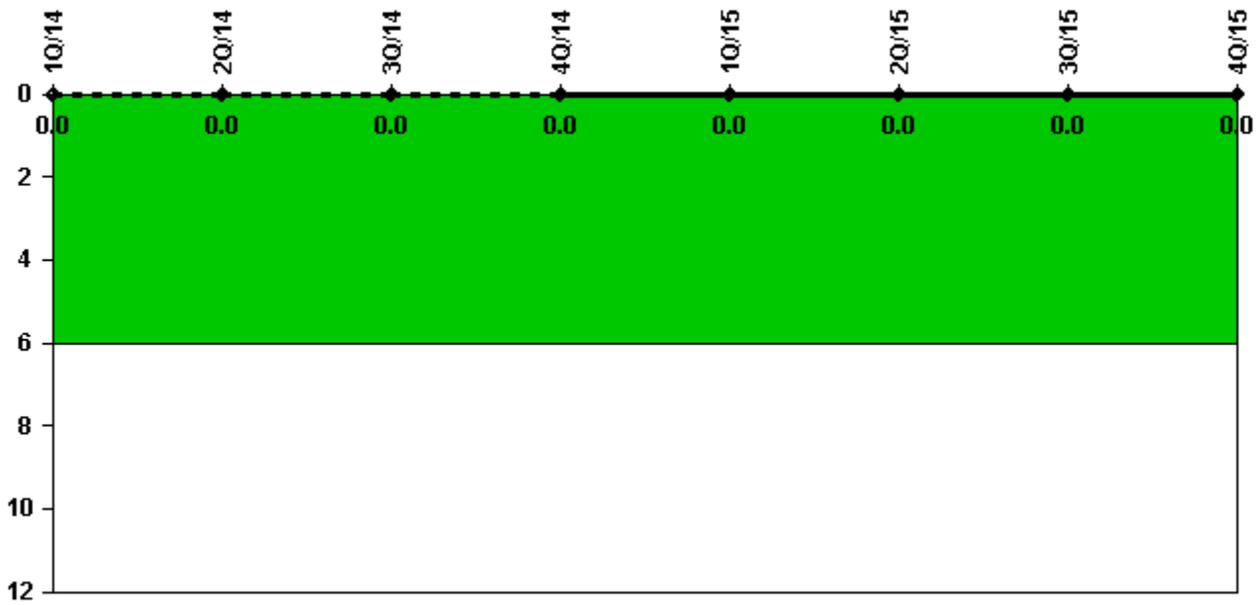
Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned scrams	1.0	0	0	0	1.0	0	0	0
Critical hours	1511.6	2037.4	2208.0	2209.0	2123.5	2184.0	2208.0	2209.0
Indicator value	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8

Licensee Comments:

1Q/14: 7/17/14- Critical hours changed by one minute due to a correction for time of breaker close from the manual shutdown which occurred on March 4, 2014. The breaker remained open and continued into the Refuel outage for the remainder of March into April. No color or threshold change was impacted by the correction.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

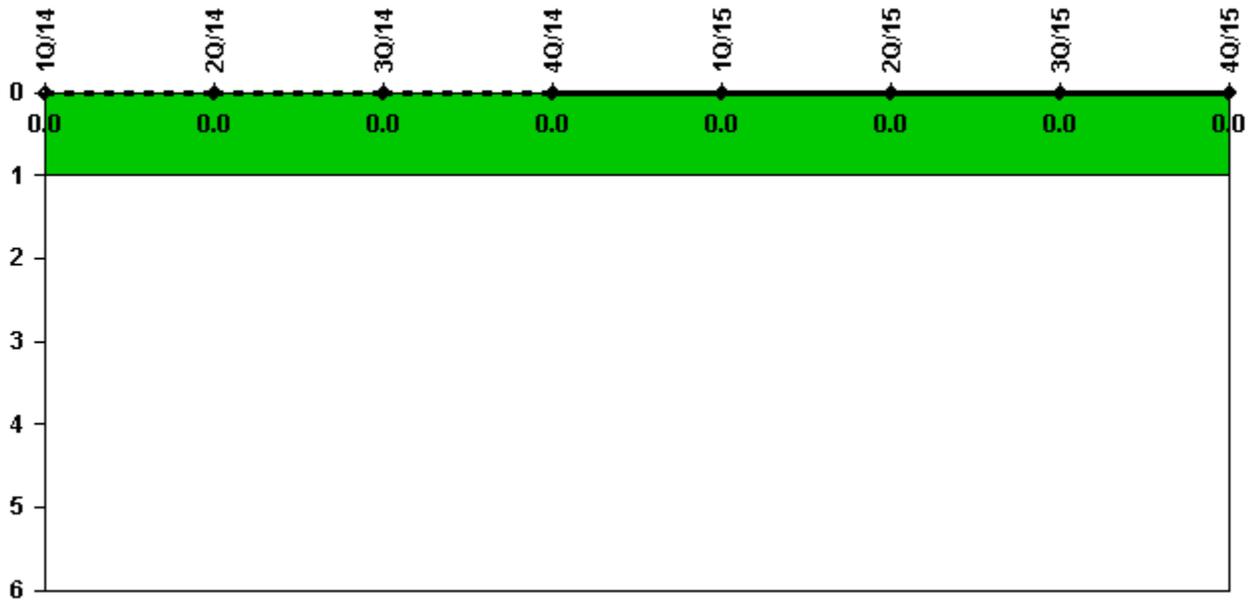
Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1511.6	2037.4	2208.0	2209.0	2123.5	2184.0	2208.0	2209.0
Indicator value	0							

Licensee Comments:

1Q/14: 7/17/14- Critical hours changed by one minute due to a correction for time of breaker close from the manual shutdown which occurred on March 4, 2014. The breaker remained open and continued into the Refuel outage for the remainder of March into April. No color or threshold change was impacted by the correction.

Unplanned Scrams with Complications



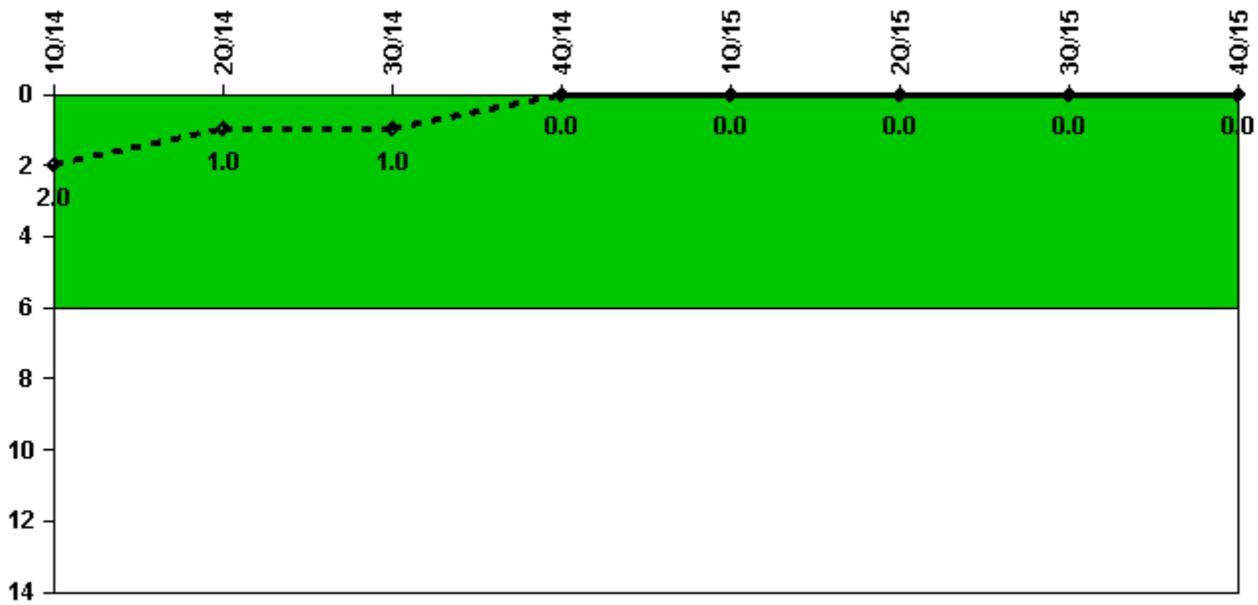
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (BWR)



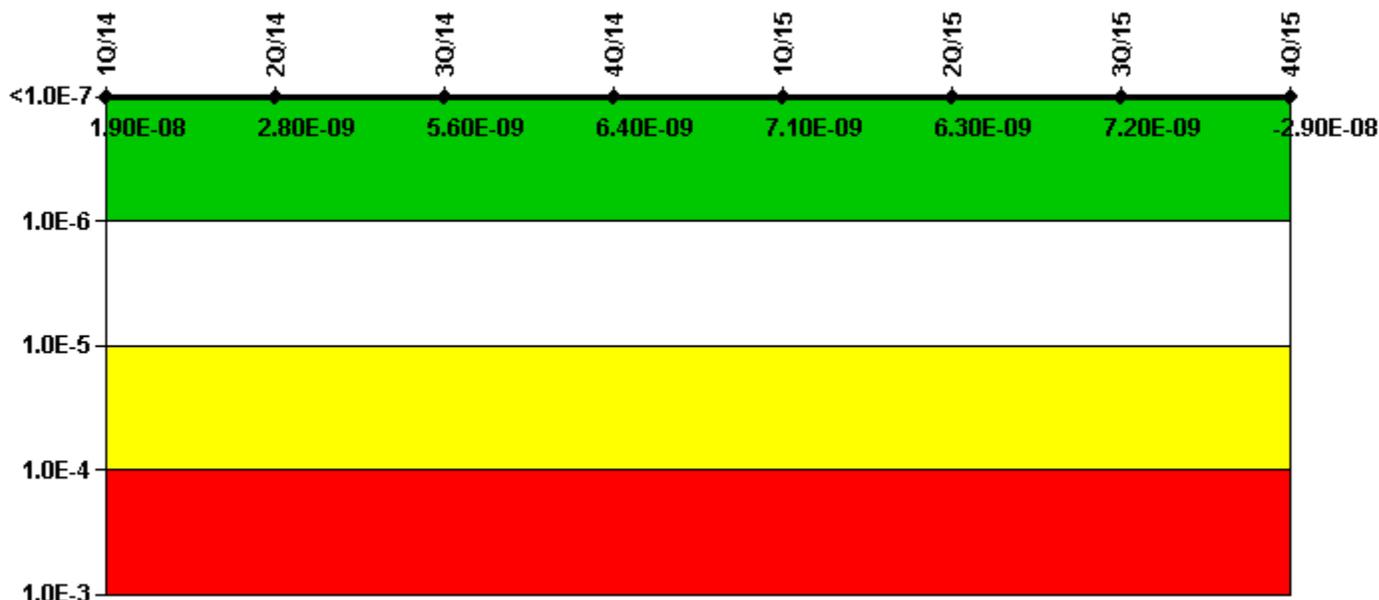
Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

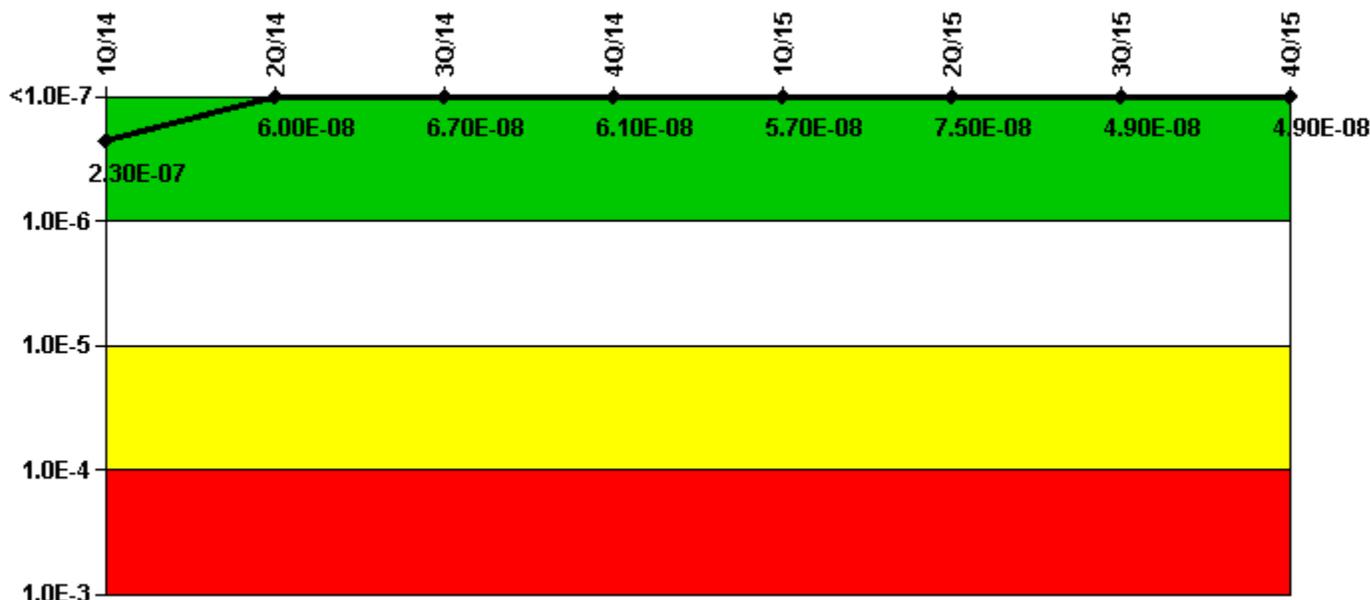
Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	3.21E-09	5.55E-10	7.76E-10	5.75E-10	7.65E-10	2.44E-09	3.61E-09	3.24E-09
URI (Δ CDF)	1.59E-08	2.22E-09	4.84E-09	5.86E-09	6.36E-09	3.83E-09	3.54E-09	-3.19E-08
PLE	NO							
Indicator value	1.90E-08	2.80E-09	5.60E-09	6.40E-09	7.10E-09	6.30E-09	7.20E-09	-2.90E-08

Licensee Comments:

2Q/14: 07/17/14- The LG113A and LG213A PRA Models Revision was approved in January 2014 with a corresponding LG-MSPI-001 Basis Document Revision 5 approved on 06/24/14. The PRA model revision was a periodic update which included a data update and re-analysis of operator action dependency. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. No color or threshold changes were impacted by this update.

Mitigating Systems Performance Index, High Pressure Injection System



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

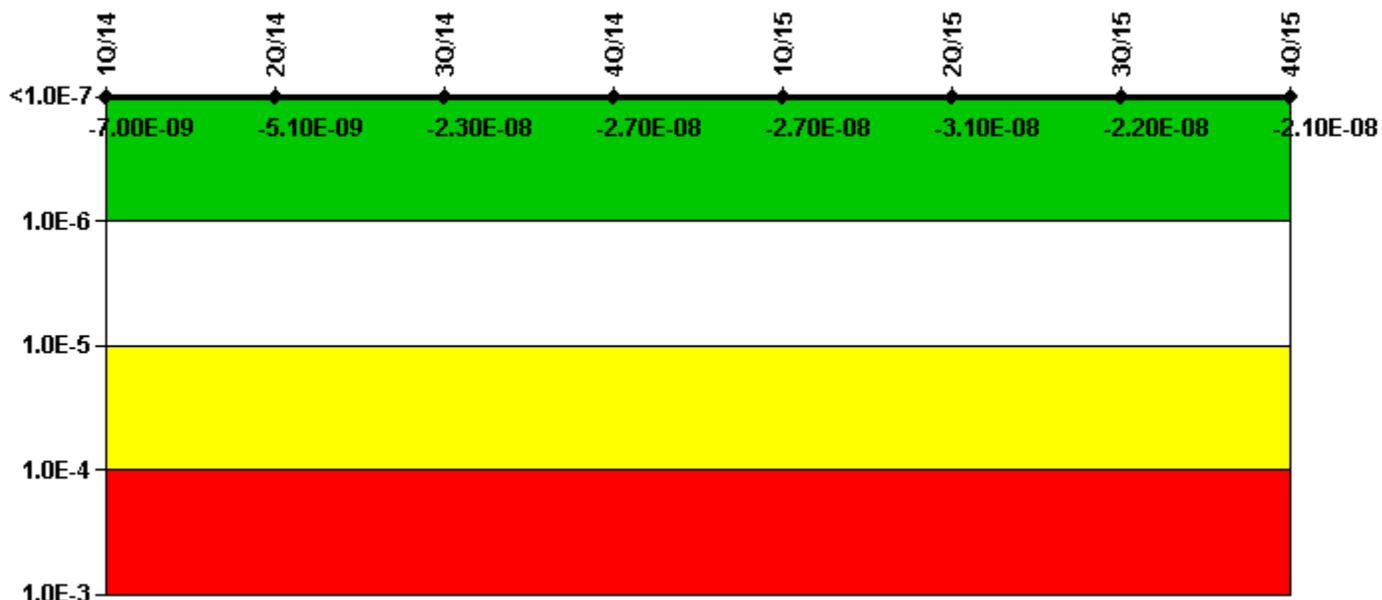
Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (ΔCDF)	5.70E-08	-7.28E-09	-1.19E-09	-6.27E-09	-1.05E-08	6.92E-09	-1.83E-08	-1.84E-08
URI (ΔCDF)	1.71E-07	6.77E-08	6.77E-08	6.77E-08	6.77E-08	6.77E-08	6.77E-08	6.77E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.30E-07	6.00E-08	6.70E-08	6.10E-08	5.70E-08	7.50E-08	4.90E-08	4.90E-08

Licensee Comments:

2Q/14: 07/17/14- The LG113A and LG213A PRA Models Revision was approved in January 2014 with a corresponding LG-MSPI-001 Basis Document Revision 5 approved on 06/24/14. The PRA model revision was a periodic update which included a data update and re-analysis of operator action dependency. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. No color or threshold changes were impacted by this update.

Mitigating Systems Performance Index, Heat Removal System



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

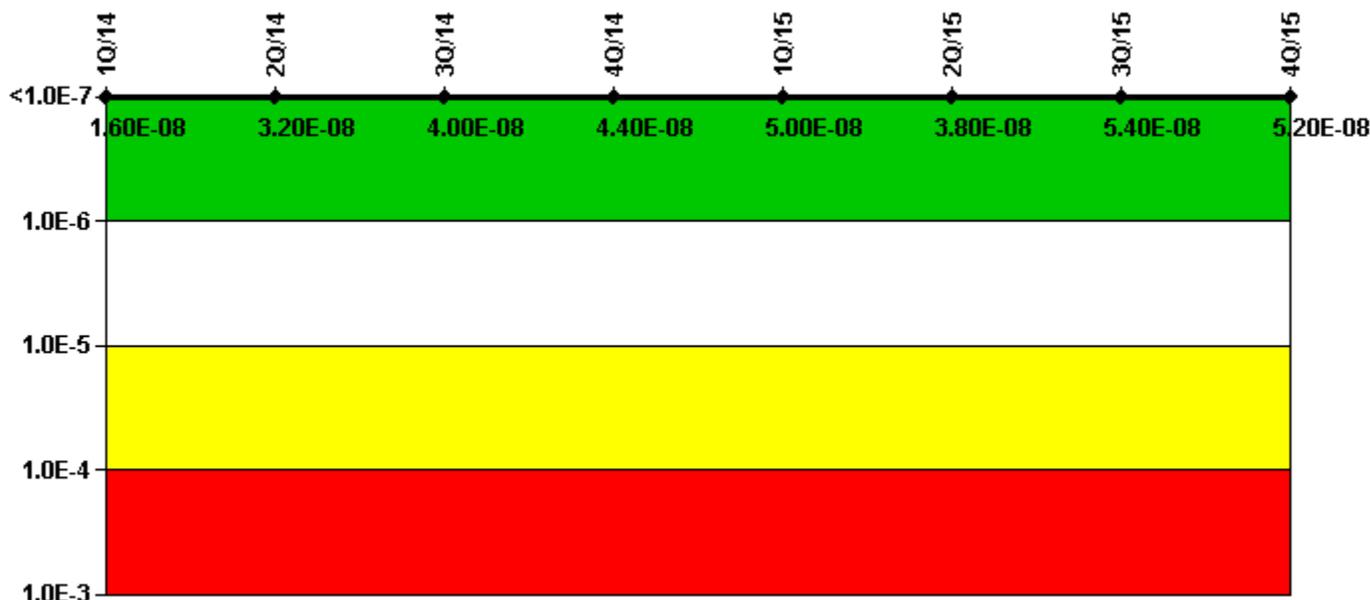
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	2.03E-08	1.47E-08	-2.99E-09	-6.76E-09	-7.38E-09	-1.08E-08	-2.51E-09	-8.14E-10
URI (Δ CDF)	-2.73E-08	-1.98E-08						
PLE	NO							
Indicator value	-7.00E-09	-5.10E-09	-2.30E-08	-2.70E-08	-2.70E-08	-3.10E-08	-2.20E-08	-2.10E-08

Licensee Comments:

2Q/14: 07/17/14- The LG113A and LG213A PRA Models Revision was approved in January 2014 with a corresponding LG-MSPI-001 Basis Document Revision 5 approved on 06/24/14. The PRA model revision was a periodic update which included a data update and re-analysis of operator action dependency. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. No color or threshold changes were impacted by this update.

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

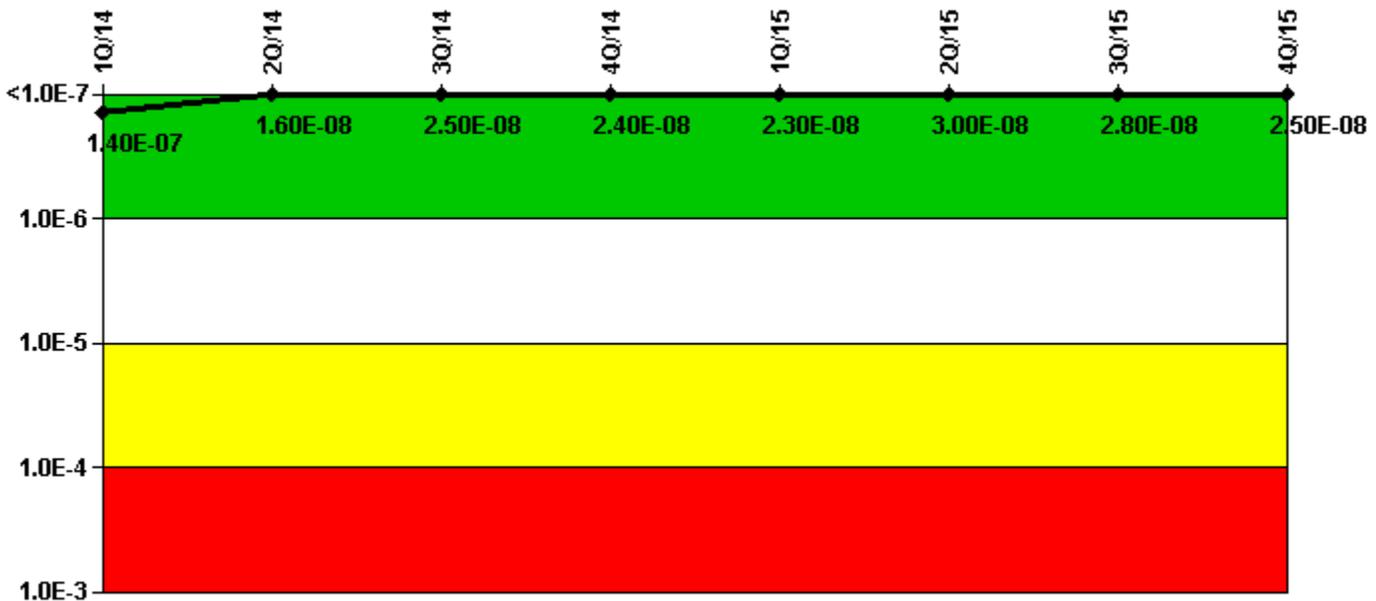
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	1.77E-08	4.49E-08	5.28E-08	5.66E-08	6.00E-08	4.80E-08	6.27E-08	6.06E-08
URI (Δ CDF)	-1.76E-09	-1.32E-08	-1.32E-08	-1.27E-08	-1.02E-08	-1.02E-08	-9.03E-09	-8.67E-09
PLE	NO							
Indicator value	1.60E-08	3.20E-08	4.00E-08	4.40E-08	5.00E-08	3.80E-08	5.40E-08	5.20E-08

Licensee Comments:

2Q/14: 07/17/14- The LG113A and LG213A PRA Models Revision was approved in January 2014 with a corresponding LG-MSPI-001 Basis Document Revision 5 approved on 06/24/14. The PRA model revision was a periodic update which included a data update and re-analysis of operator action dependency. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. No color or threshold changes were impacted by this update.

2Q/14: 07/17/14- The LG113A and LG213A PRA Models Revision was approved in January 2014 with a corresponding LG-MSPI-001 Basis Document Revision 5 approved on 06/24/14. The PRA model revision was a periodic update which included a data update and re-analysis of operator action dependency. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. No color or threshold changes were impacted by this update.

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/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	1.64E-07	5.50E-08	6.29E-08	6.03E-08	5.87E-08	6.55E-08	6.22E-08	5.89E-08
URI (Δ CDF)	-2.82E-08	-3.86E-08	-3.78E-08	-3.68E-08	-3.54E-08	-3.50E-08	-3.44E-08	-3.39E-08
PLE	NO							
Indicator value	1.40E-07	1.60E-08	2.50E-08	2.40E-08	2.30E-08	3.00E-08	2.80E-08	2.50E-08

Licensee Comments:

2Q/14: 07/17/14- The LG113A and LG213A PRA Models Revision was approved in January 2014 with a corresponding LG-MSPI-001 Basis Document Revision 5 approved on 06/24/14. The PRA model revision was a periodic update which included a data update and re-analysis of operator action dependency. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. No color or threshold changes were impacted by this update.

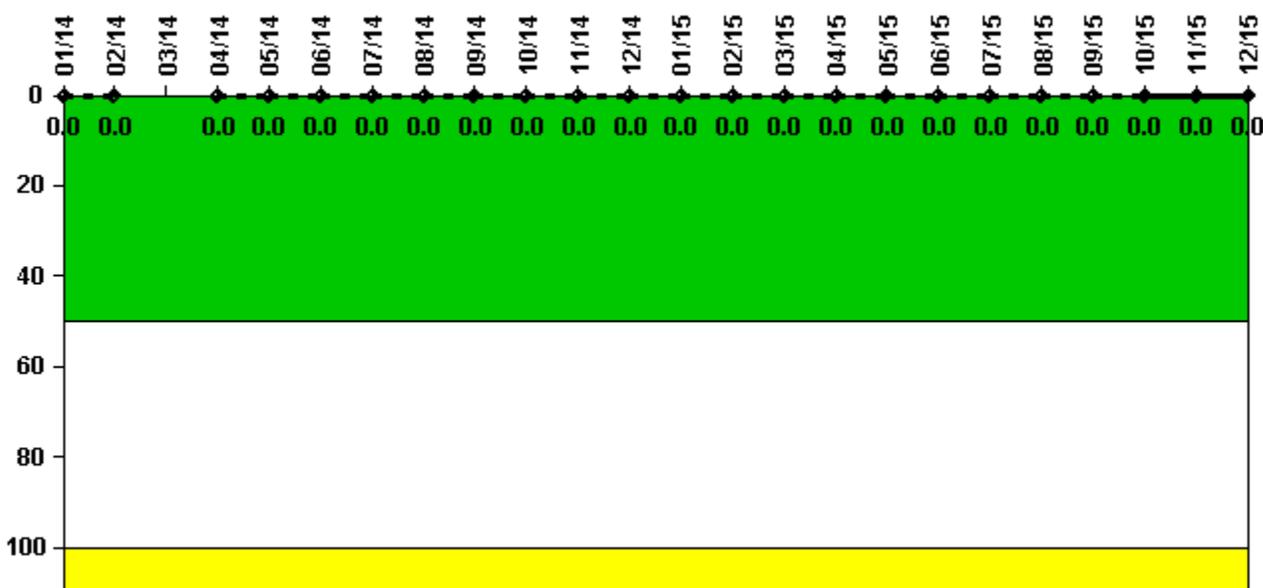
2Q/14: 07/17/14- The LG113A and LG213A PRA Models Revision was approved in January 2014 with a corresponding LG-MSPI-001 Basis Document Revision 5 approved on 06/24/14. The PRA model revision was a periodic update which included a data update and re-analysis of operator action dependency. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. No color or threshold changes were impacted by this update.

1Q/14: 07/17/14- The LG113A and LG213A PRA Models Revision was approved in January 2014 with a

corresponding LG-MSPI-001 Basis Document Revision 5 approved on 06/24/14. The PRA model revision was a periodic update which included a data update and re-analysis of operator action dependency. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. No color or threshold changes were impacted by this update.

1Q/14: Changed PRA Parameter(s). 07/17/14- The LG113A and LG213A PRA Models Revision was approved in January 2014 with a corresponding LG-MSPI-001 Basis Document Revision 5 approved on 06/24/14. The PRA model revision was a periodic update which included a data update and re-analysis of operator action dependency. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. No color or threshold changes were impacted by this update.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

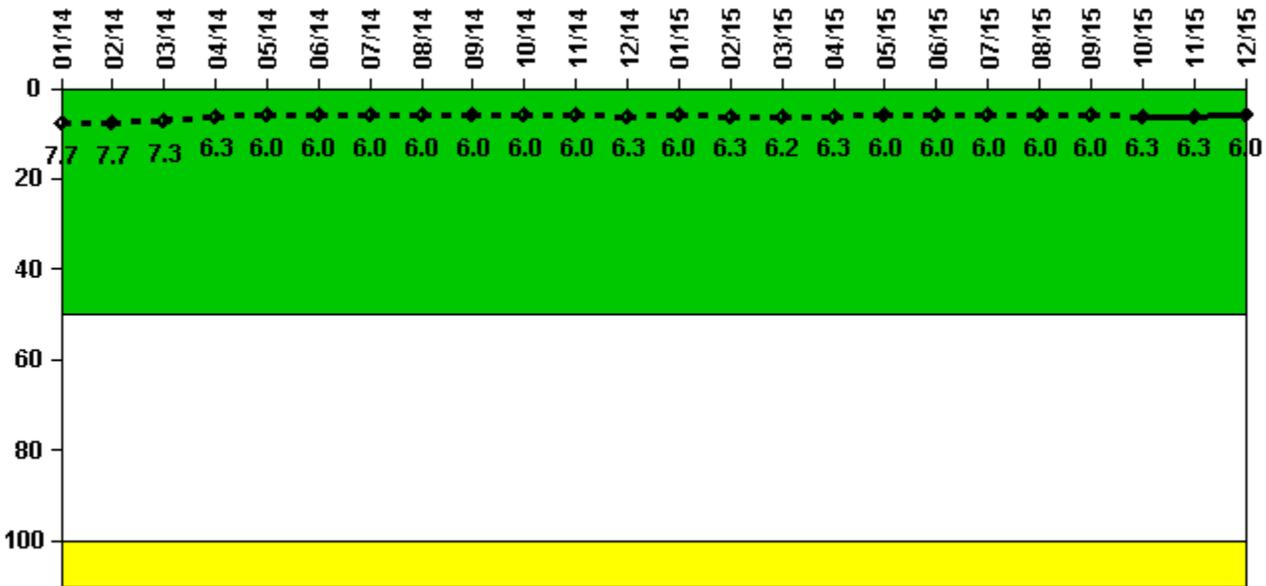
Reactor Coolant System Activity	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum activity	0.000003	0.000003	N/A	0.000002	0.000002	0.000003	0.000003	0.000003	0.000003	0.000004	0.000003	0.000003
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	N/A	0	0	0	0	0	0	0	0	0
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	0.000004	0.000004	0.000004	0.000006	0.000005	0.000005	0.000004	0.000004	0.000005	0.000005	0.000005	0.000005
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											

Licensee Comments:

3/14: 1/15/15- Rx Coolant activity data was changed to N/A for March 2014. No steady state representative rx coolant sample was taken during the month. The unit was shutdown or refueling from March 4 through March 31, 2014. No color or threshold change is impacted by this correction.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

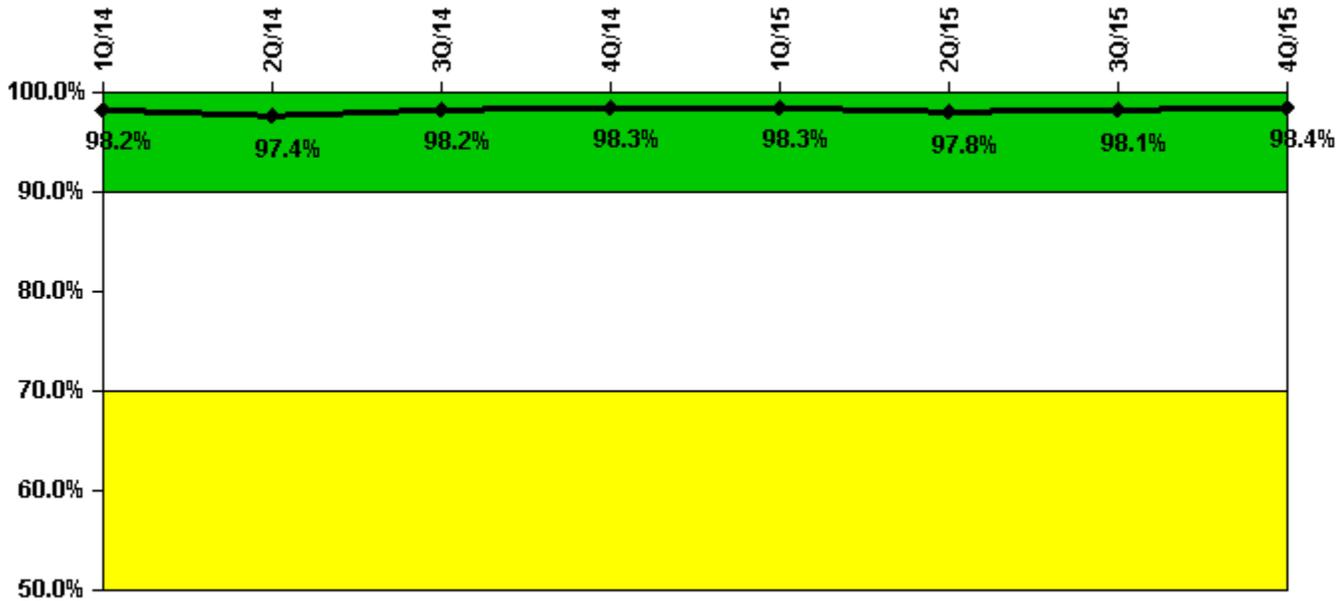
Notes

Reactor Coolant System Leakage	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum leakage	2.300	2.300	2.200	1.900	1.800	1.800	1.800	1.800	1.800	1.800	1.800	1.900
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	7.7	7.7	7.3	6.3	6.0	6.3						

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	1.800	1.900	1.850	1.900	1.800	1.800	1.800	1.800	1.800	1.900	1.900	1.800
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	6.0	6.3	6.2	6.3	6.0	6.0	6.0	6.0	6.0	6.3	6.3	6.0

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

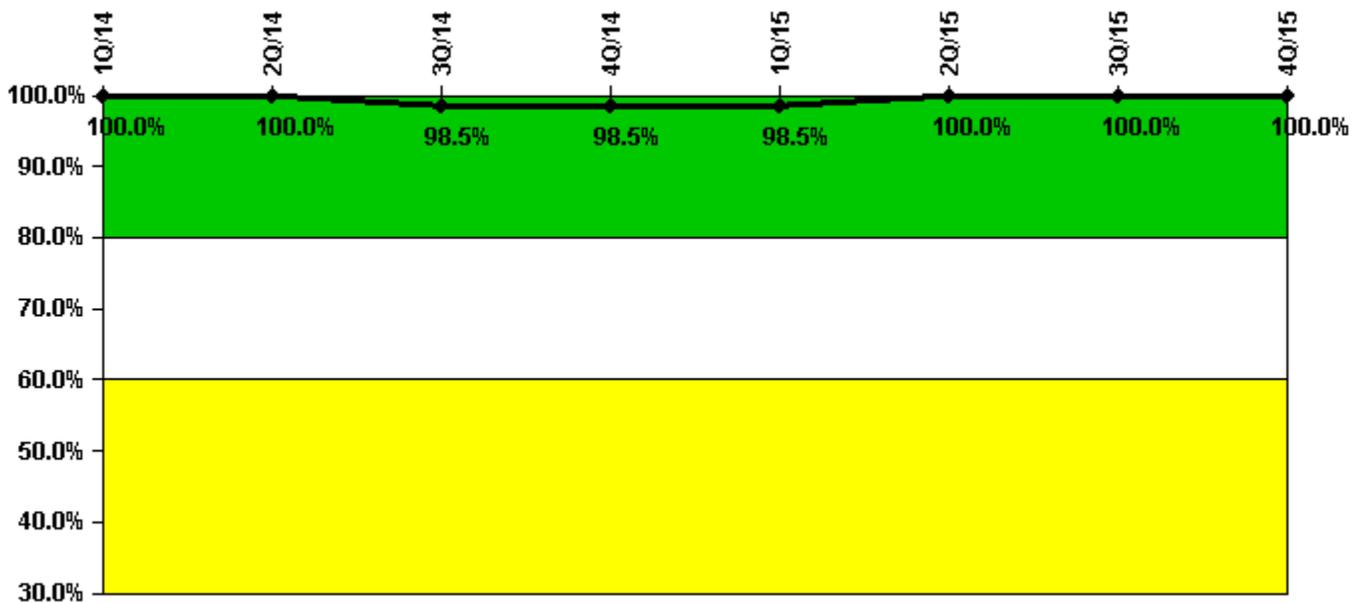
Drill/Exercise Performance	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful opportunities	38.0	57.0	42.0	37.0	27.0	32.0	48.0	26.0
Total opportunities	38.0	59.0	42.0	37.0	27.0	34.0	49.0	26.0
Indicator value	98.2%	97.4%	98.2%	98.3%	98.3%	97.8%	98.1%	98.4%

Licensee Comments:

1Q/15: 10/21/15 - March 2014 data was changed from 4 successful drill opportunities out of 4 total opportunities to 8 successful opportunities out of 8 total opportunities. A reporting error was identified during an EP self assessment. No color or PI threshold change is impacted by this data correction.

3Q/14: 1/15/15- ERO Drill Exercise data was corrected. The previously submitted Drill Exercise opportunities in September 2014 had actually occurred in October 2014. No color change or threshold impact resulted from the correction.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

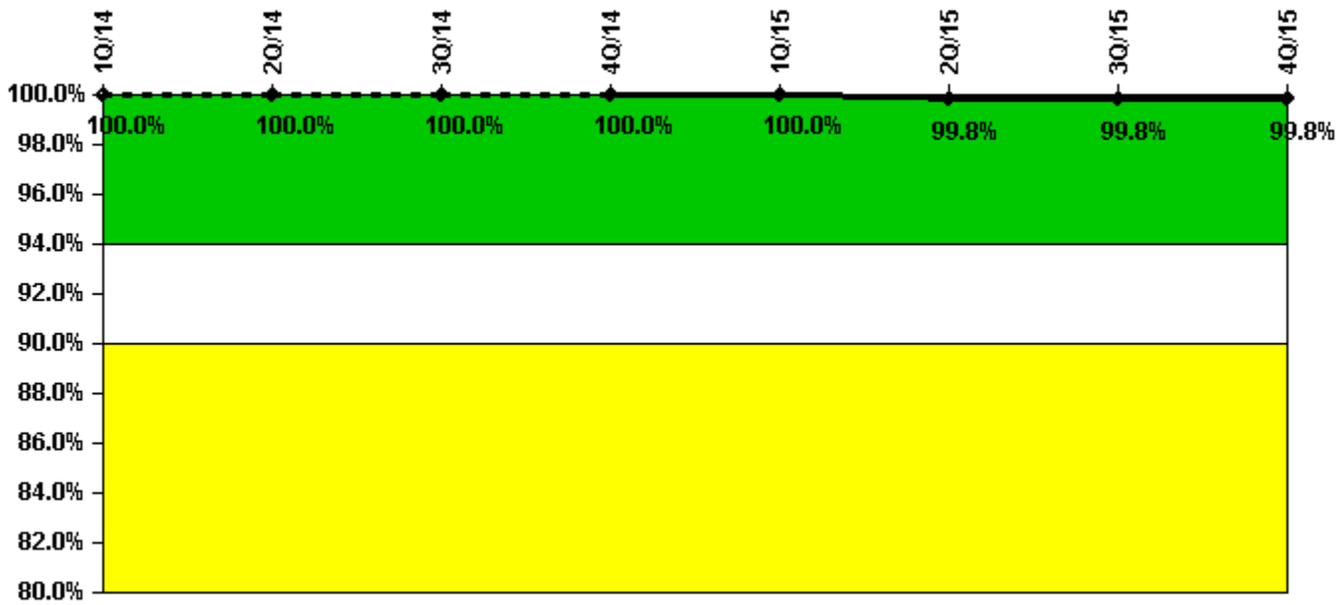
Notes

ERO Drill Participation	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Participating Key personnel	64.0	65.0	66.0	66.0	66.0	66.0	66.0	65.0
Total Key personnel	64.0	65.0	67.0	67.0	67.0	66.0	66.0	65.0
Indicator value	100.0%	100.0%	98.5%	98.5%	98.5%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/15: 10/21/15 - The number of participating key personnel and total key personnel was corrected for 2nd Quarter 2015 after an EP self assessment identified that offsite ERO members had not been included. No color or PI threshold change is impacted by this correction.

Alert & Notification System



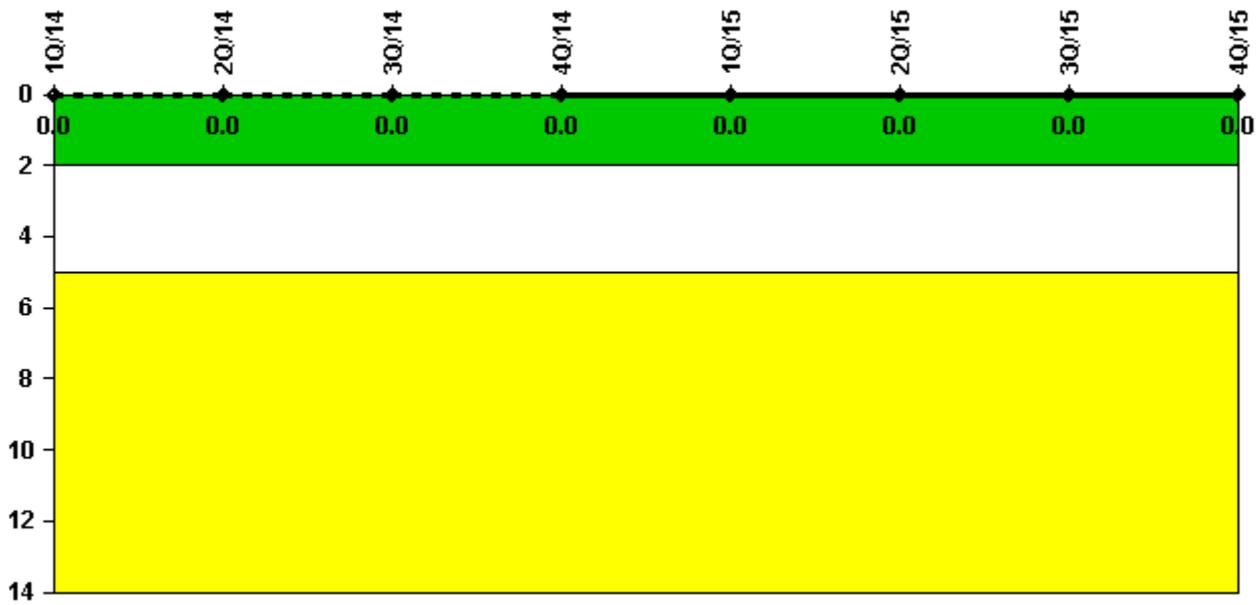
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful siren-tests	2143	2144	2145	2144	2144	2133	2145	2143
Total sirens-tests	2145	2145	2145	2145	2145	2145	2145	2145
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%	99.8%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



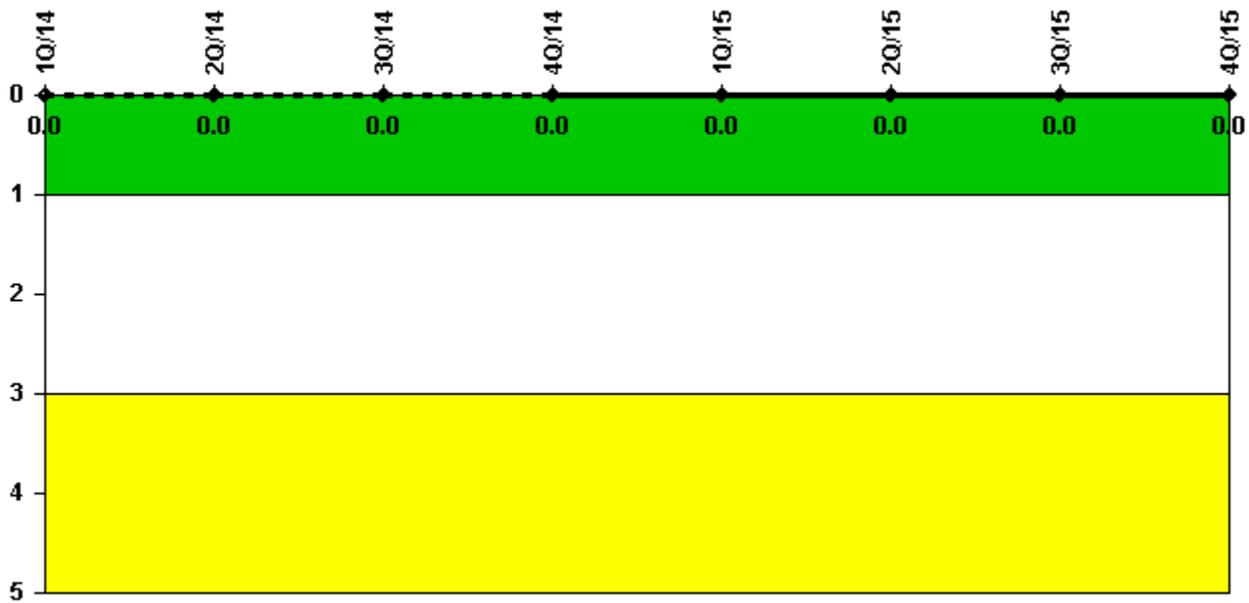
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/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	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/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: March 1, 2016