

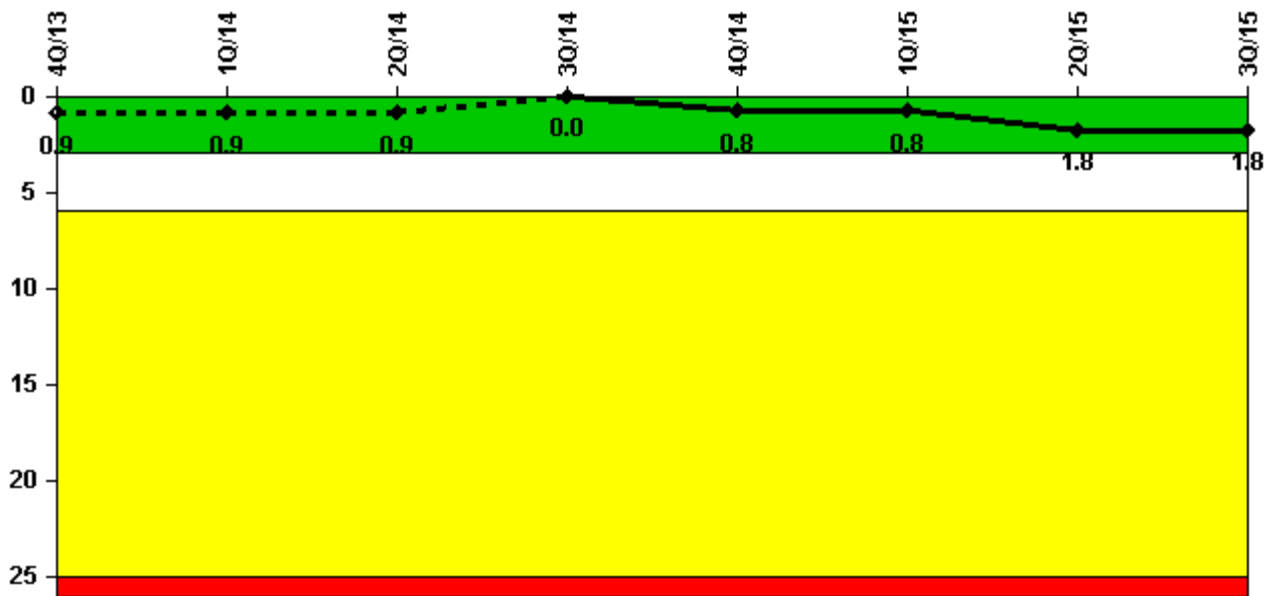
D.C. Cook 2

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



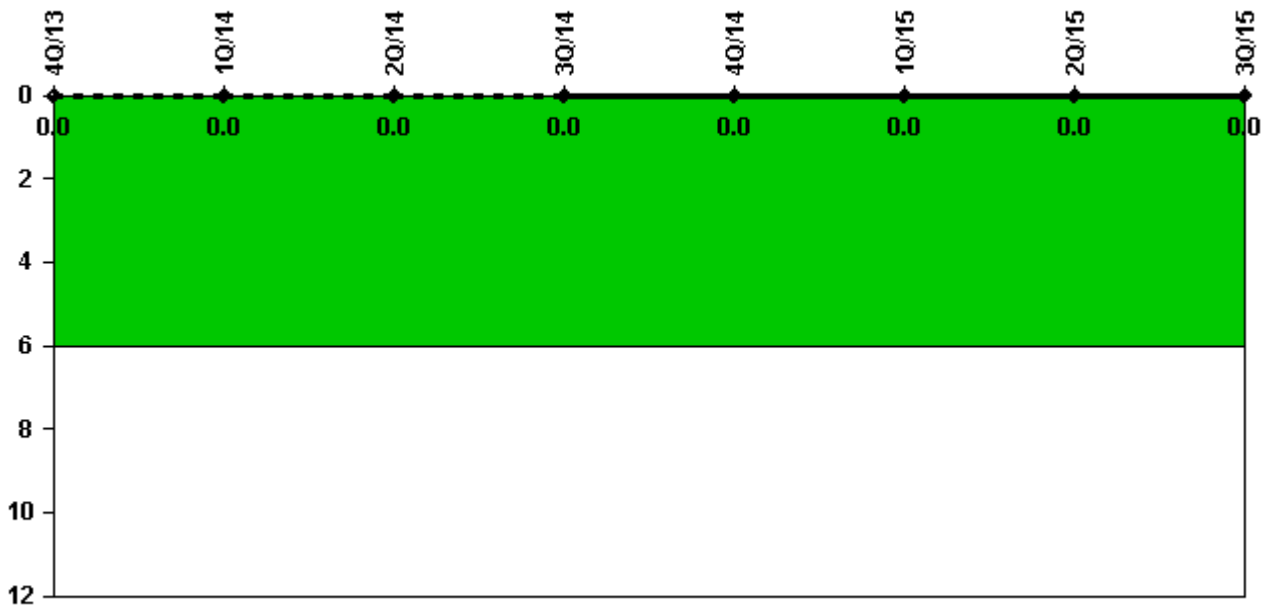
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	0	0	0	1.0	0	1.0	0
Critical hours	1238.6	2159.0	2184.0	2208.0	1975.7	1991.0	1552.2	2208.0
Indicator value	0.9	0.9	0.9	0	0.8	0.8	1.8	1.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



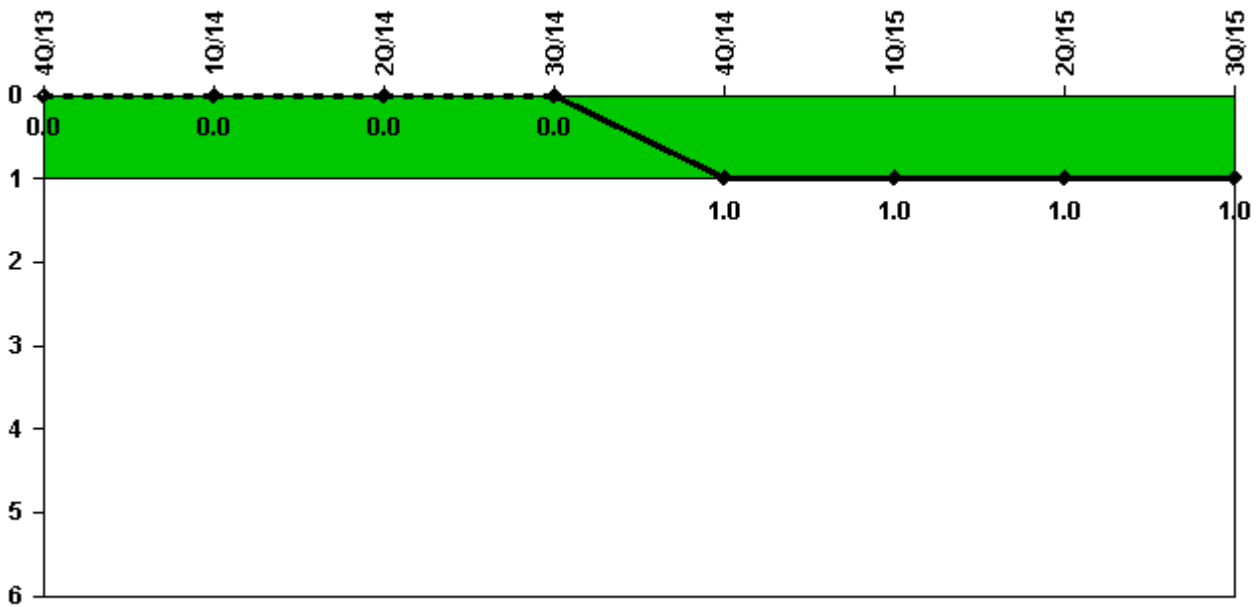
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1238.6	2159.0	2184.0	2208.0	1975.7	1991.0	1552.2	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



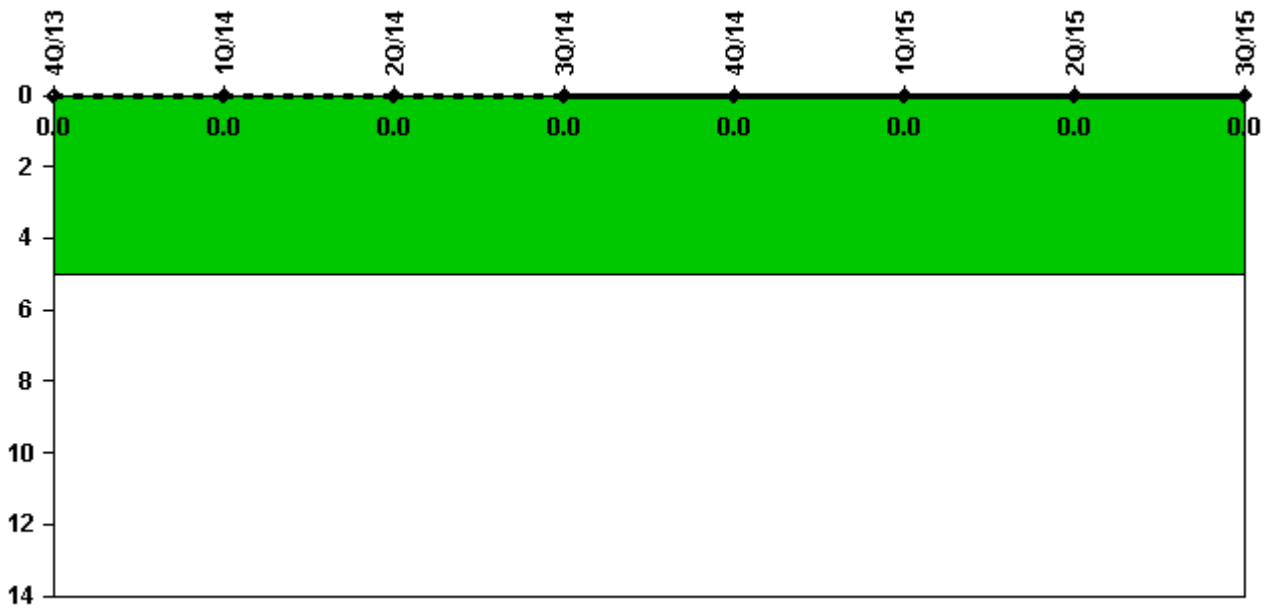
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Scrams with complications	0	0	0	0	1.0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



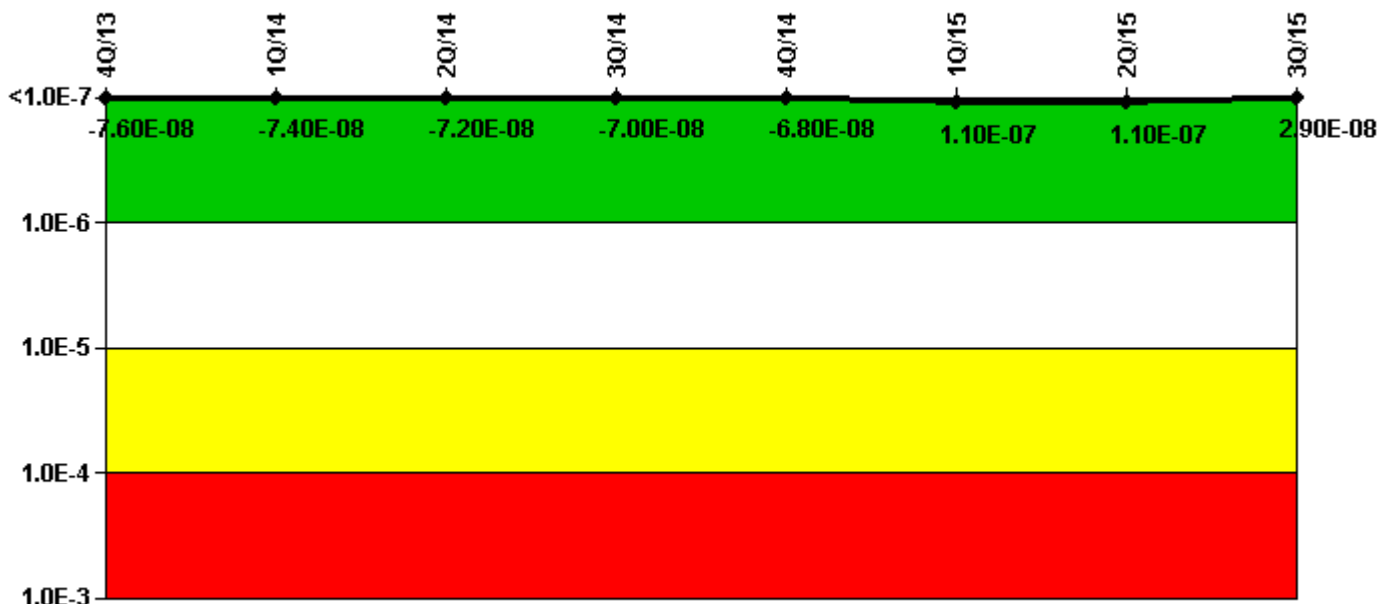
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	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	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-2.54E-10	-2.69E-10	2.45E-10	3.29E-10	4.27E-10	4.20E-10	-1.54E-10	-5.74E-09
URI (Δ CDF)	-7.56E-08	-7.41E-08	-7.25E-08	-7.00E-08	-6.83E-08	1.13E-07	1.13E-07	3.47E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.60E-08	-7.40E-08	-7.20E-08	-7.00E-08	-6.80E-08	1.10E-07	1.10E-07	2.90E-08

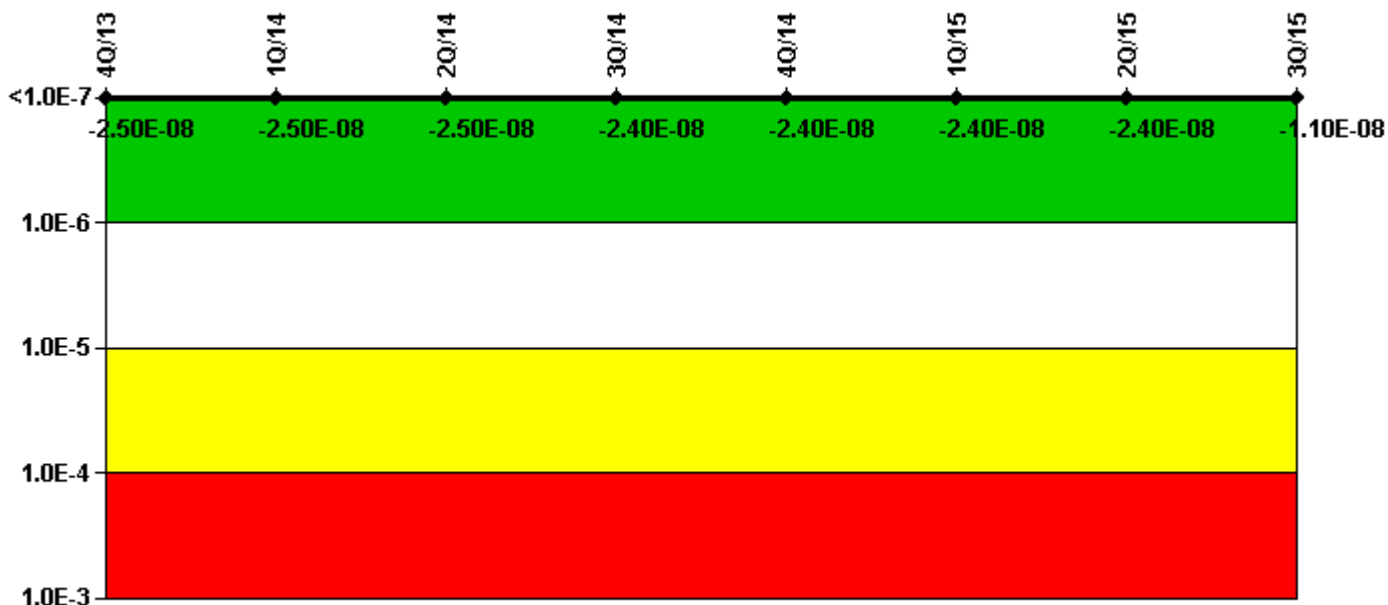
Licensee Comments:

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Revised MSPI Basis Document to update Emergency Diesel Generator Load Run Test Demand estimates.

4Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

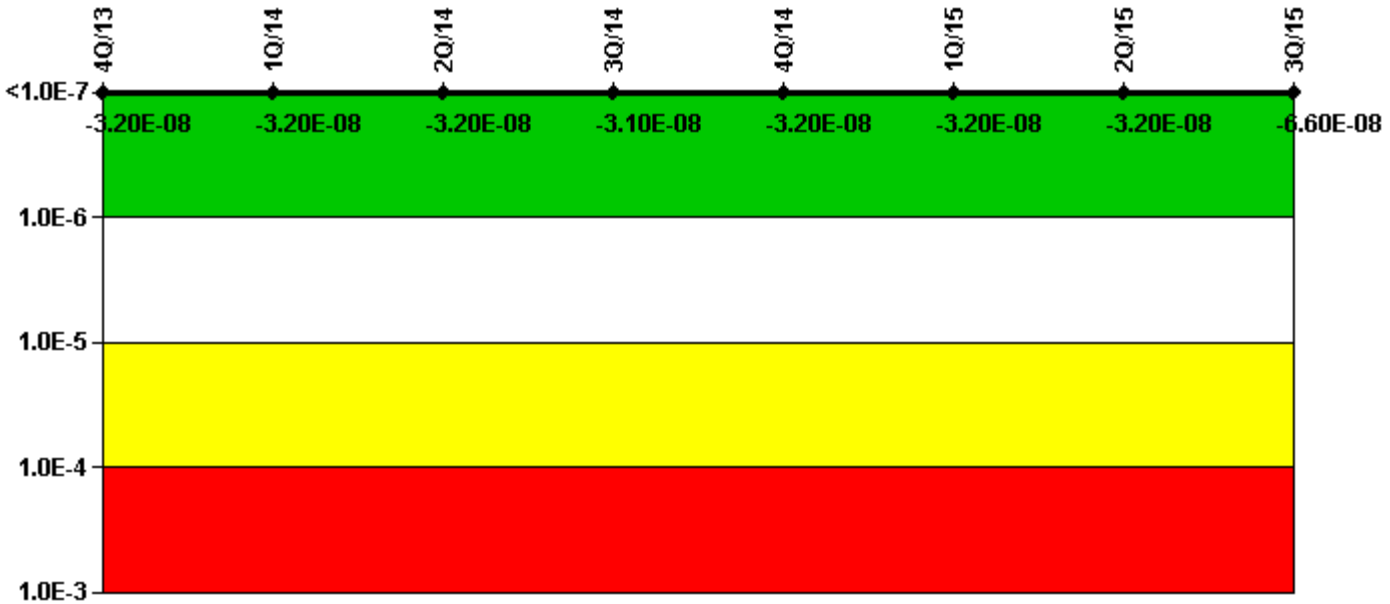
Mitigating Systems Performance Index, High Pressure Injection System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-2.66E-11	-2.66E-11	-2.66E-11	-2.12E-11	-2.11E-11	-2.11E-11	-2.11E-11	-1.43E-09
URI (Δ CDF)	-2.54E-08	-2.54E-08	-2.54E-08	-2.39E-08	-2.39E-08	-2.39E-08	-2.39E-08	-9.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-08	-2.50E-08	-2.50E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-1.10E-08

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: The High Pressure Injection System MS07 data has been corrected to include an additional 16.62 hours of unavailability for Unit 2 A East CCP Train that were not reported in the 2Q14 submittal. This data change did not result in a change to the indicator color.

Mitigating Systems Performance Index, Heat Removal System



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

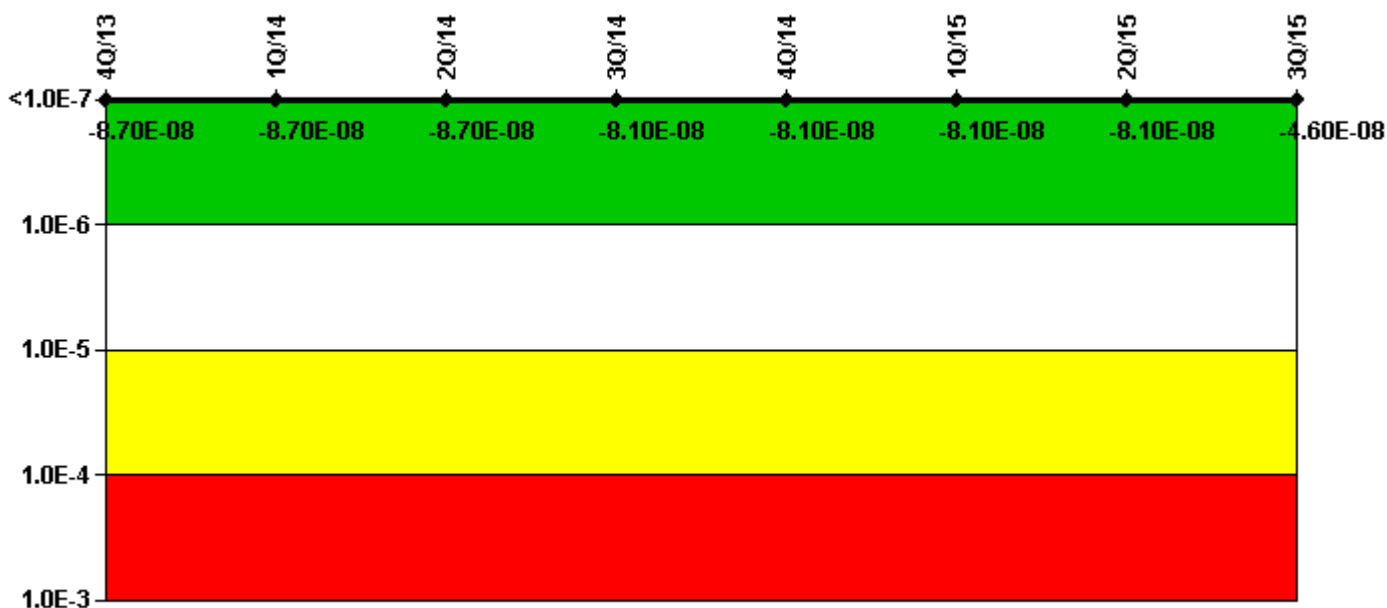
Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-1.34E-11	-1.34E-11	8.06E-12	1.64E-11	1.79E-11	8.84E-12	-1.34E-11	-1.45E-08
URI (Δ CDF)	-3.23E-08	-3.23E-08	-3.23E-08	-3.15E-08	-3.23E-08	-3.23E-08	-3.23E-08	-5.15E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.20E-08	-3.20E-08	-3.20E-08	-3.10E-08	-3.20E-08	-3.20E-08	-3.20E-08	-6.60E-08

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System



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

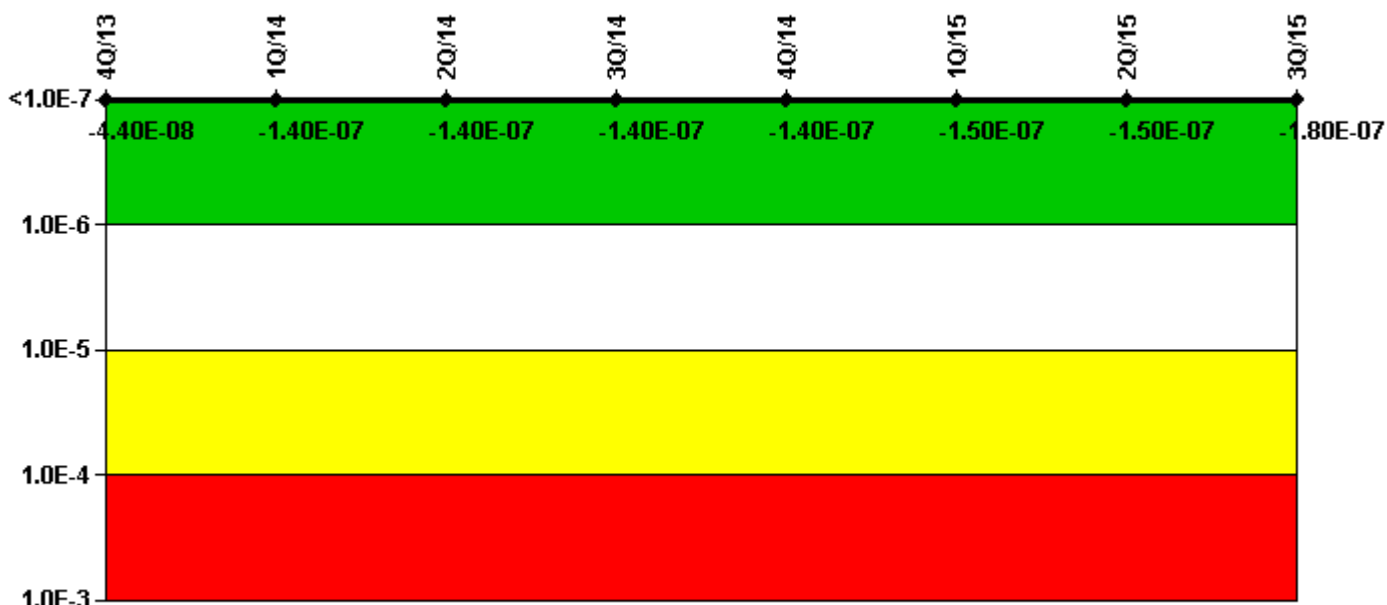
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-3.23E-13	-3.23E-13	-2.16E-13	7.55E-13	7.84E-13	7.46E-13	4.76E-13	-2.83E-09
URI (Δ CDF)	-8.69E-08	-8.69E-08	-8.69E-08	-8.12E-08	-8.12E-08	-8.12E-08	-8.12E-08	-4.35E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.70E-08	-8.70E-08	-8.70E-08	-8.10E-08	-8.10E-08	-8.10E-08	-8.10E-08	-4.60E-08

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised. The RHR scope of monitored components was revised. 1/2-CMO-419 and 1/2-CMO-429, RHR Heat Exchanger CCW Outlet Valves, are now included in the scope of monitored components based on their Birnbaum importance. 1/2-ICM-311 and 1/2-ICM-321, RHR Pump Discharge MOVs, are removed from the scope of monitored components since they do not have an active safety function modeled in the PRA.

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

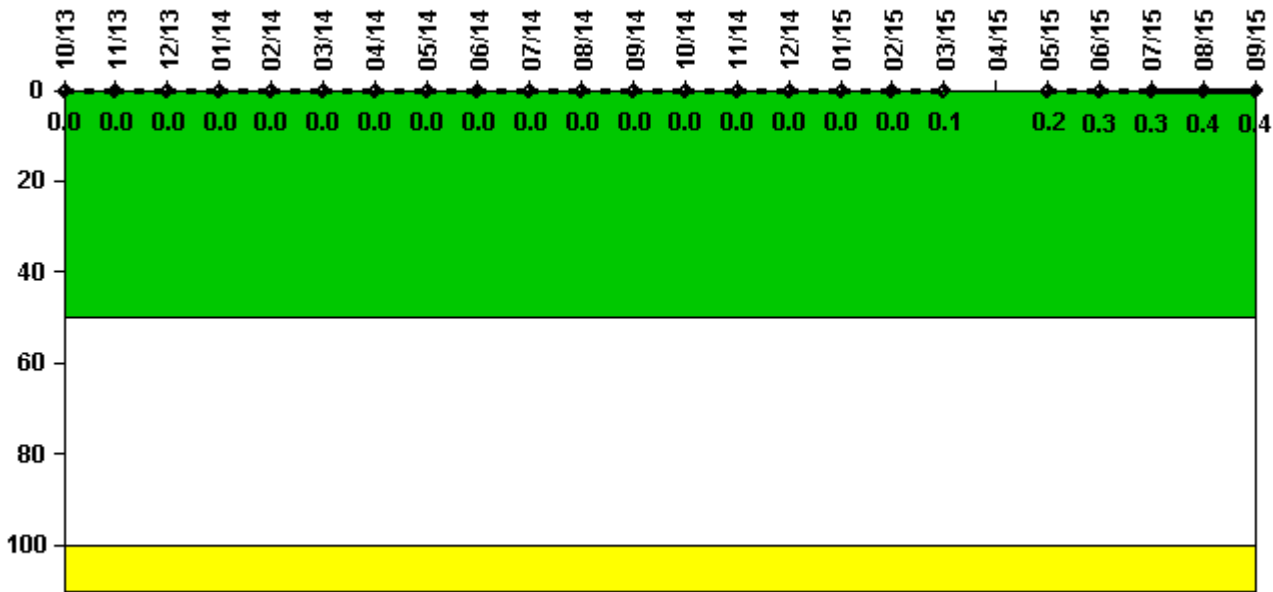
Mitigating Systems Performance Index, Cooling Water Systems	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	1.17E-12	-3.82E-11	-3.82E-11	-3.78E-11	-3.46E-11	-5.33E-11	-5.34E-11	-8.51E-08
URI (Δ CDF)	-4.36E-08	-1.40E-07	-1.40E-07	-1.39E-07	-1.39E-07	-1.48E-07	-1.49E-07	-9.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.40E-08	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.80E-07

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

1Q/15: The MSPI Basis Document was updated in the 4th Quarter 2014 to reflect 2009 PRA model of record error that the PRA model incorrectly removed cutsets associated with failure of the CCW heat exchanger CCW outlet valves (2-CMO-410 & 420) opening from model results. As a result, these valves have been incorporated in the Unit 2 Cooling Water System scope of monitored components.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

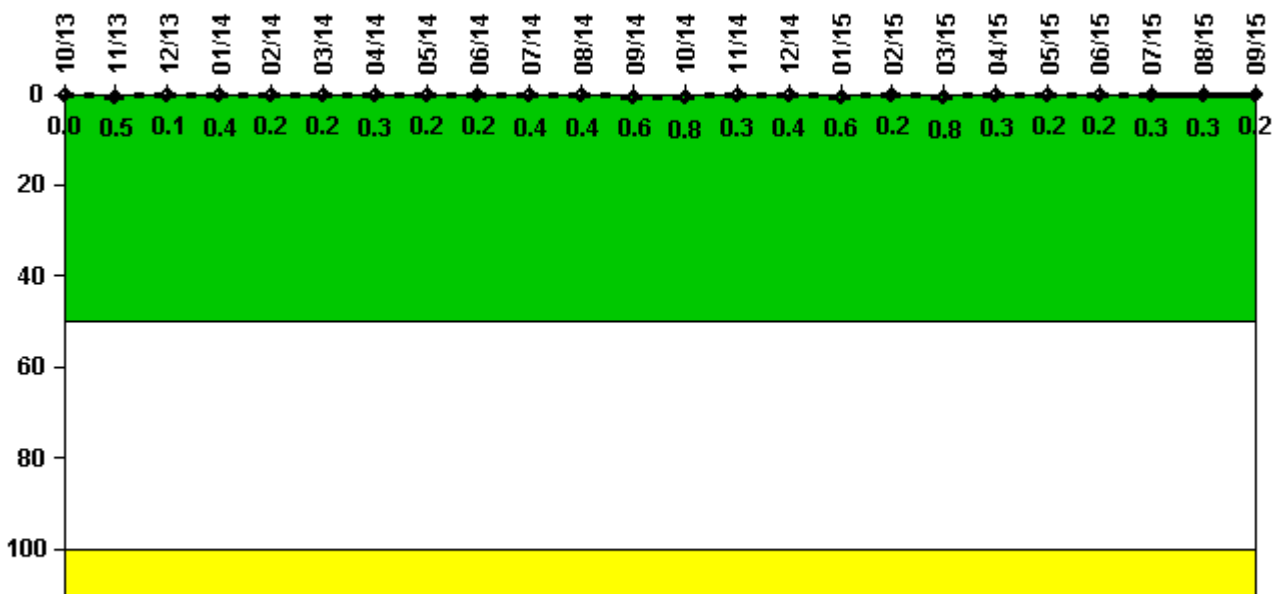
Notes

Reactor Coolant System Activity	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum activity	0.000164	0.000068	0.000090	0.000095	0.000099	0.000102	0.000115	0.000111	0.000114	0.000121	0.000125	0.000127
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum activity	0.000131	0.000137	0.000162	0.000145	0.000149	0.000197	N/A	0.000662	0.001160	0.001090	0.001290	0.001420
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0.1	N/A	0.2	0.3	0.3	0.4	0.4

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

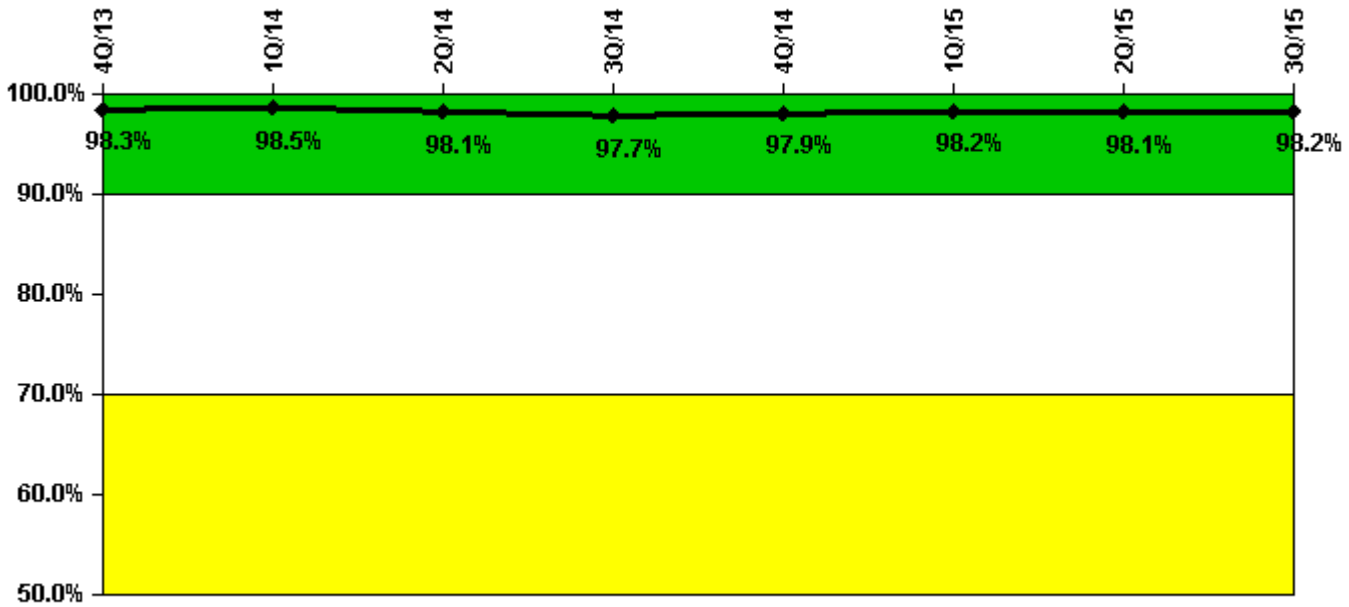
Notes

Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	0	0.052	0.010	0.045	0.026	0.024	0.028	0.023	0.024	0.039	0.048	0.071
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0	0.5	0.1	0.4	0.2	0.2	0.3	0.2	0.2	0.4	0.4	0.6

Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	0.084	0.028	0.041	0.064	0.025	0.085	0.037	0.024	0.023	0.028	0.031	0.018
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.8	0.3	0.4	0.6	0.2	0.8	0.3	0.2	0.2	0.3	0.3	0.2

Licensee Comments: none

Drill/Exercise Performance



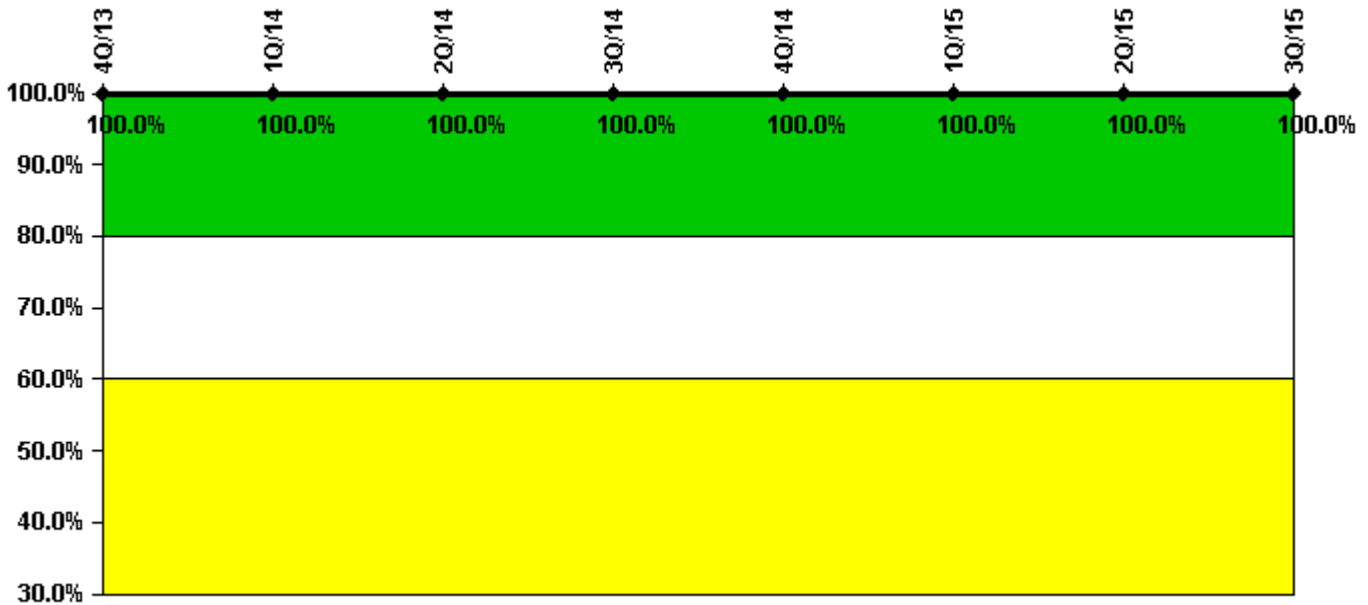
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful opportunities	0	55.0	23.0	59.0	56.0	68.0	12.0	62.0
Total opportunities	0	56.0	25.0	61.0	56.0	69.0	12.0	62.0
Indicator value	98.3%	98.5%	98.1%	97.7%	97.9%	98.2%	98.1%	98.2%

Licensee Comments: none

ERO Drill Participation



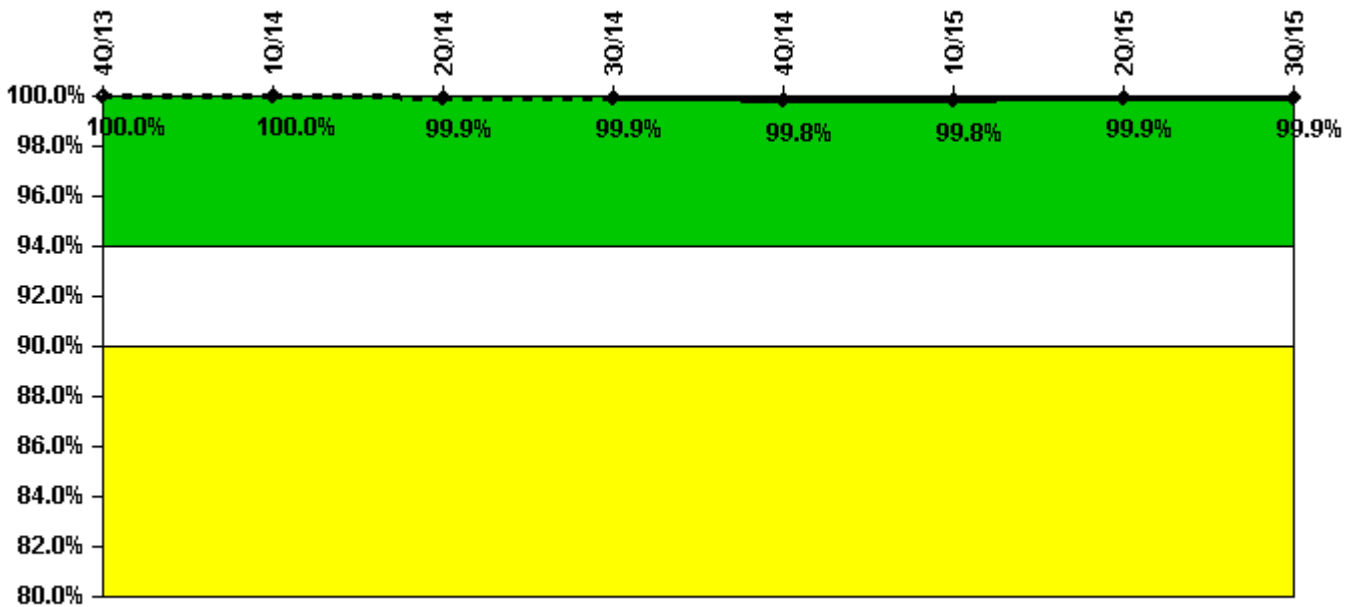
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	118.0	120.0	118.0	123.0	128.0	133.0	134.0	132.0
Total Key personnel	118.0	120.0	118.0	123.0	128.0	133.0	134.0	132.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



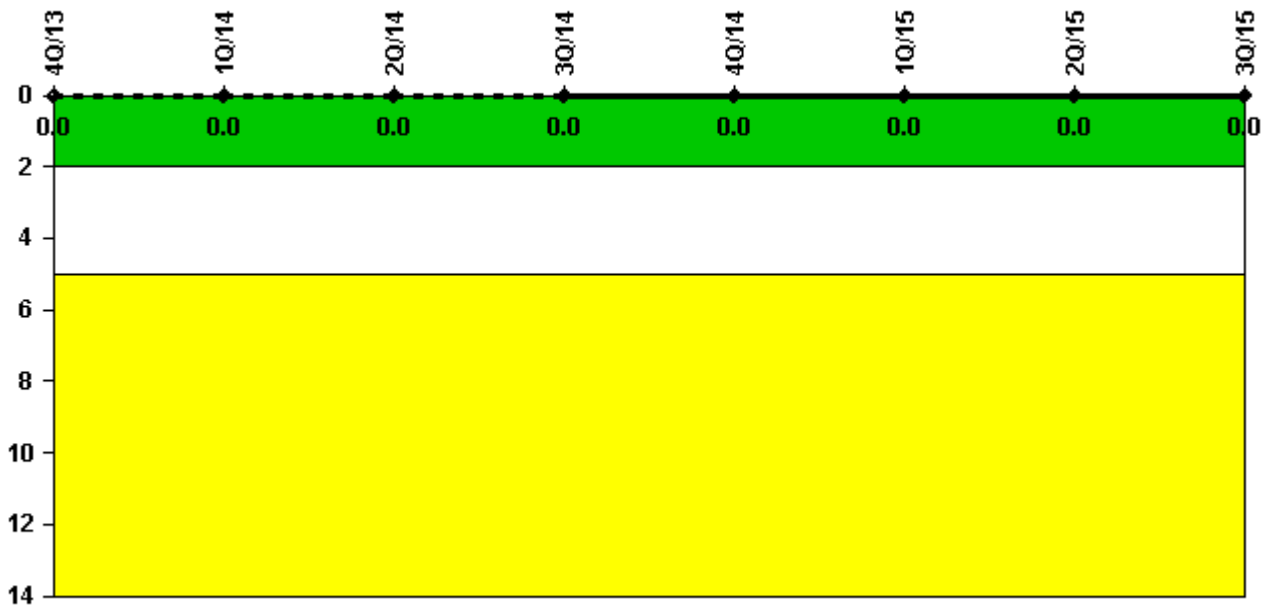
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	1120	1119	1116	1119	1187	1050	1119	1190
Total sirens-tests	1120	1120	1119	1120	1190	1050	1119	1190
Indicator value	100.0%	100.0%	99.9%	99.9%	99.8%	99.8%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



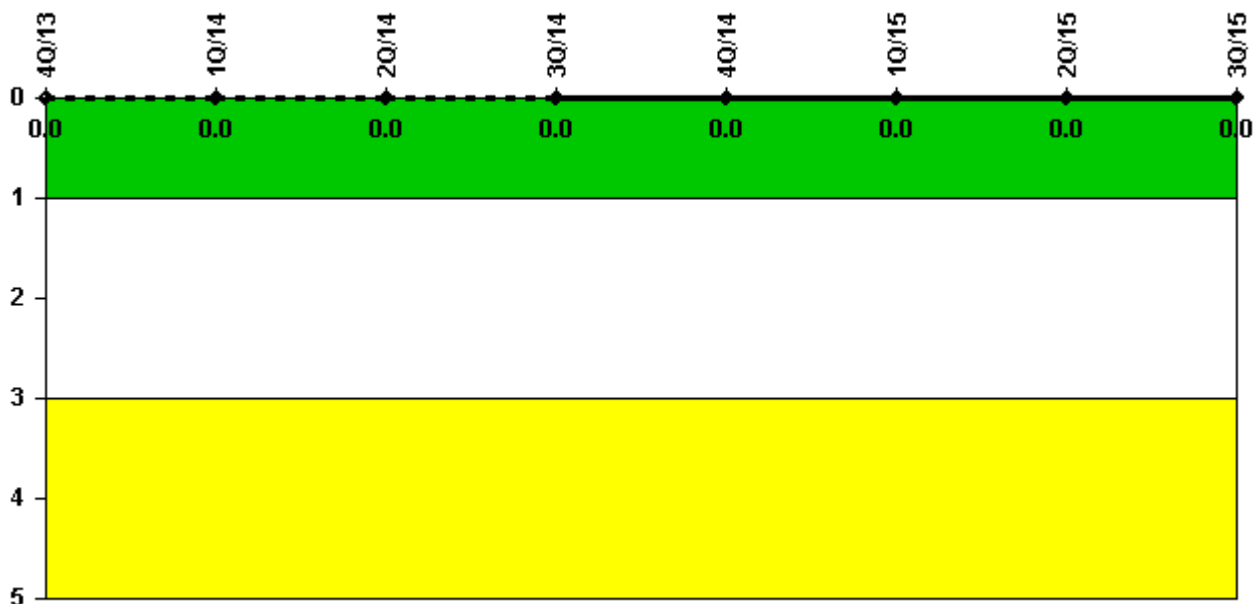
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/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	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	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/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: December 15, 2015