

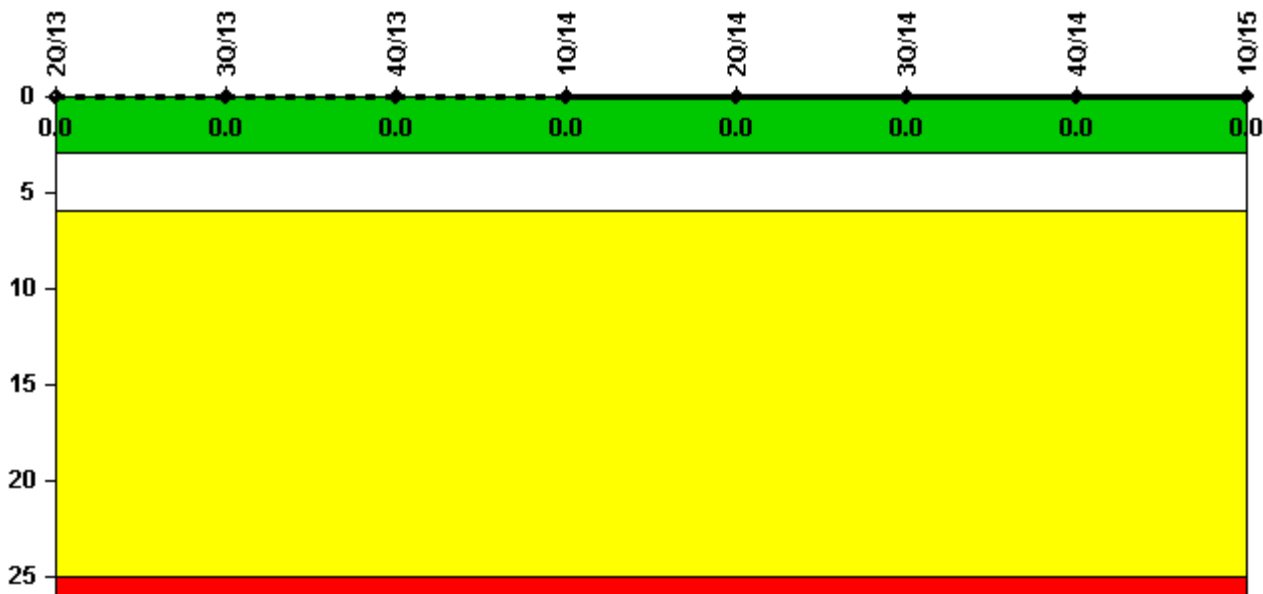
Surry 1

1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



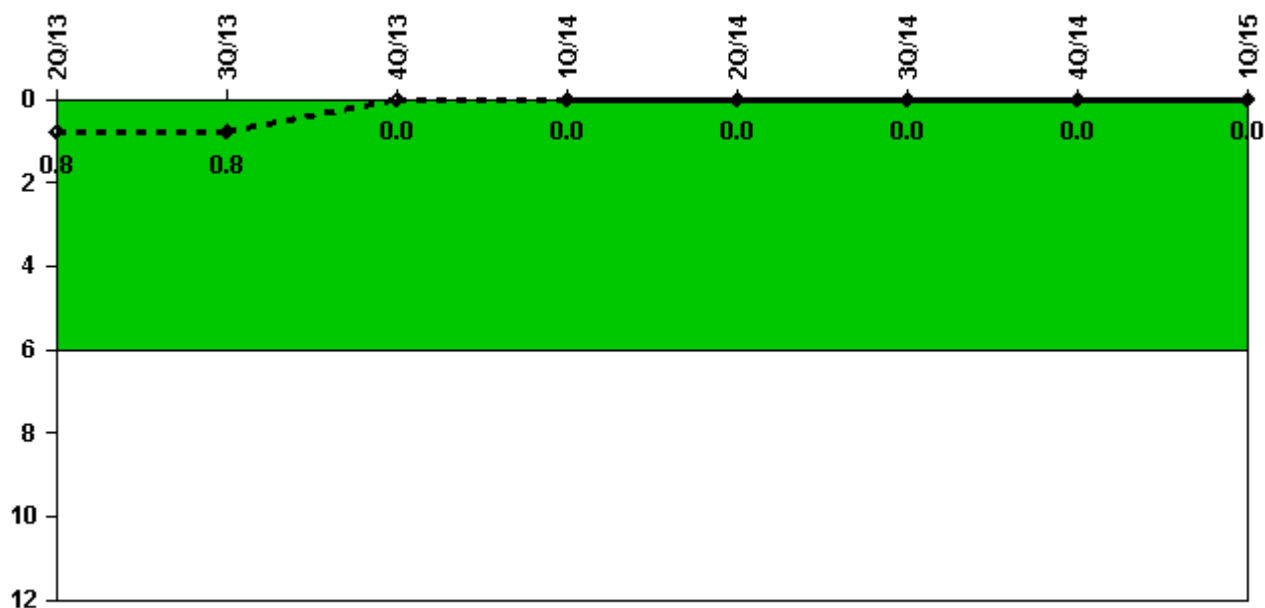
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2184.0	2208.0	1450.9	2159.0	2184.0	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



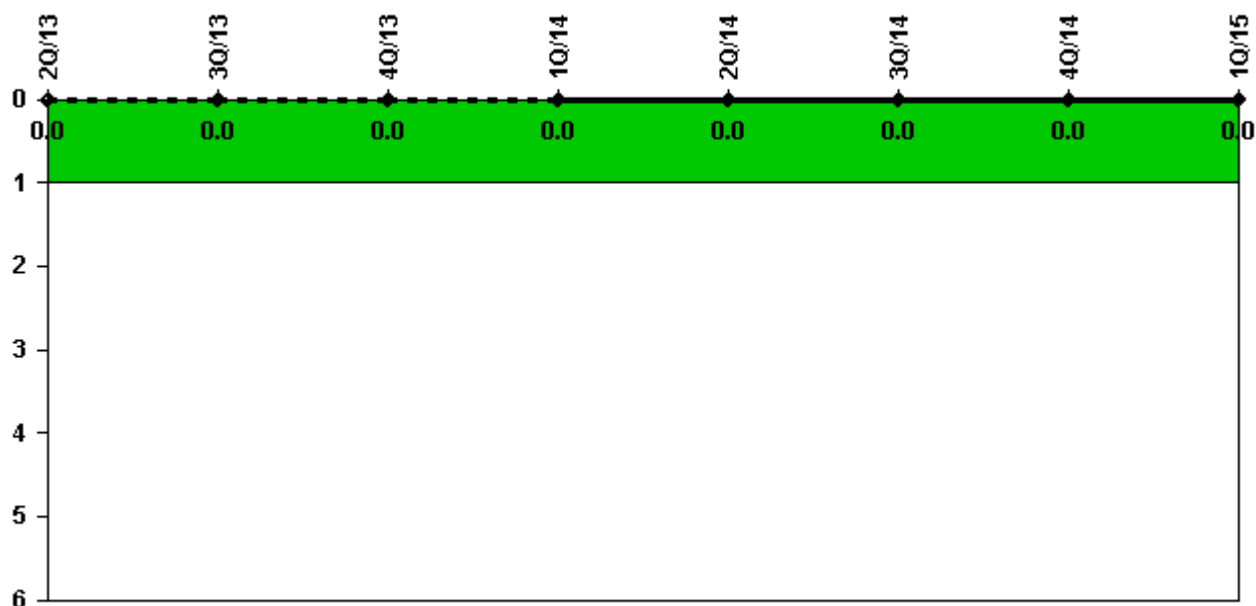
Thresholds: White > 6.0

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	2184.0	2208.0	1450.9	2159.0	2184.0	2208.0	2209.0	2159.0
Indicator value	0.8	0.8	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



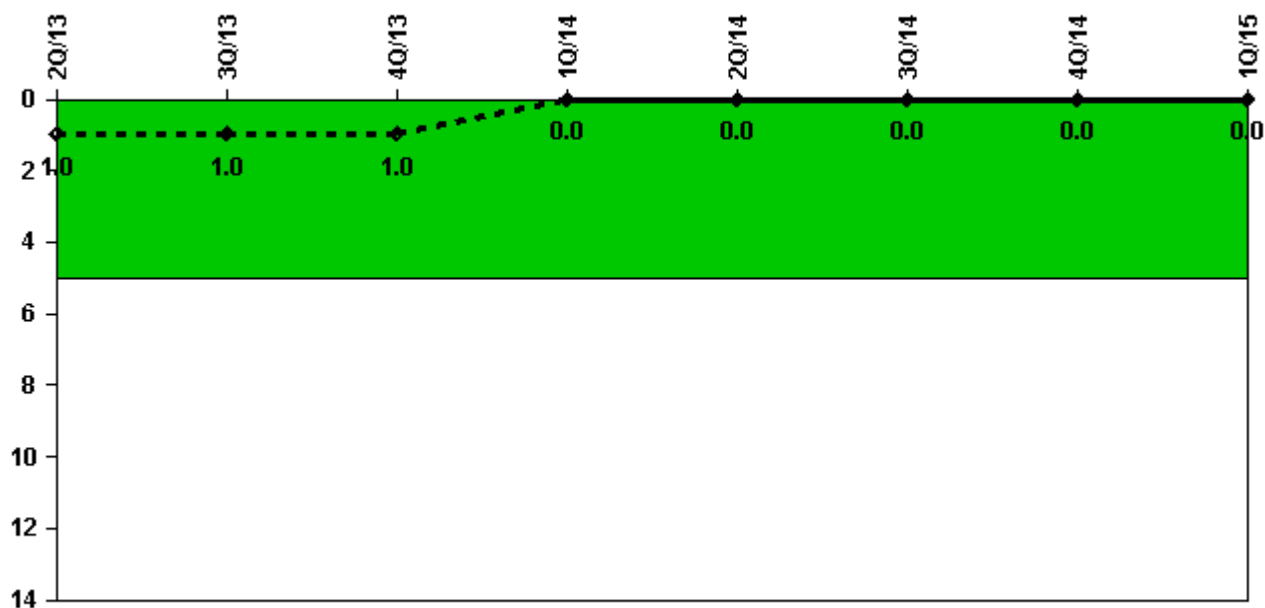
Thresholds: White > 1.0

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



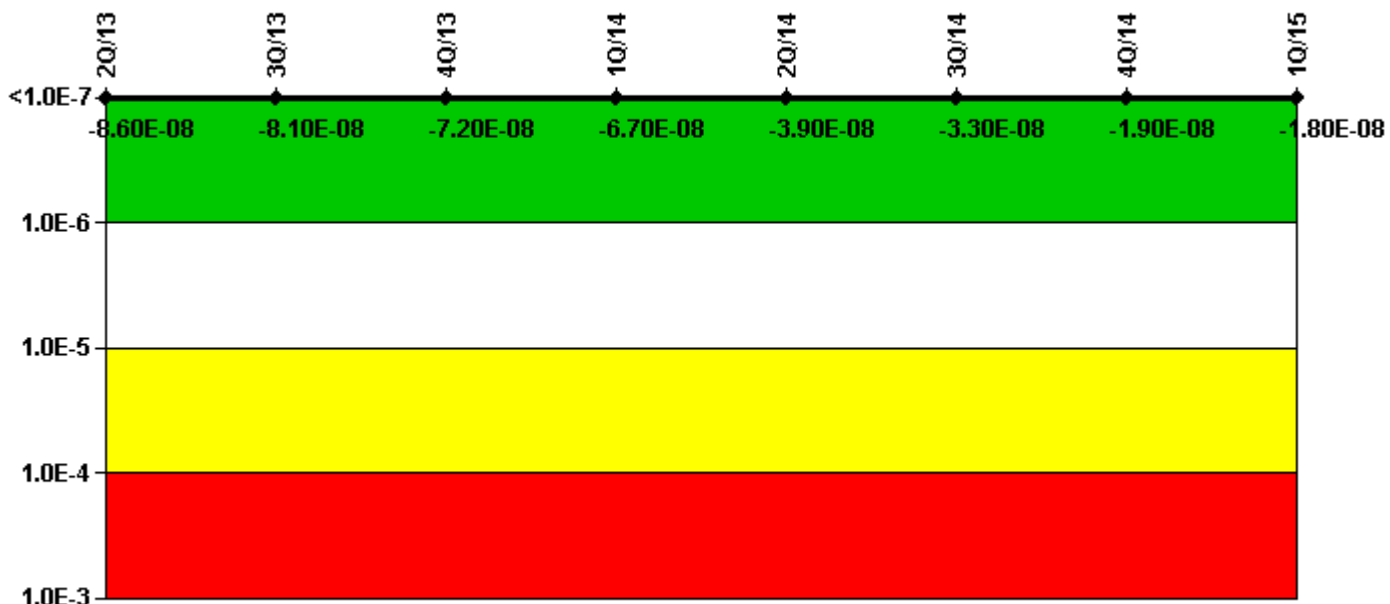
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



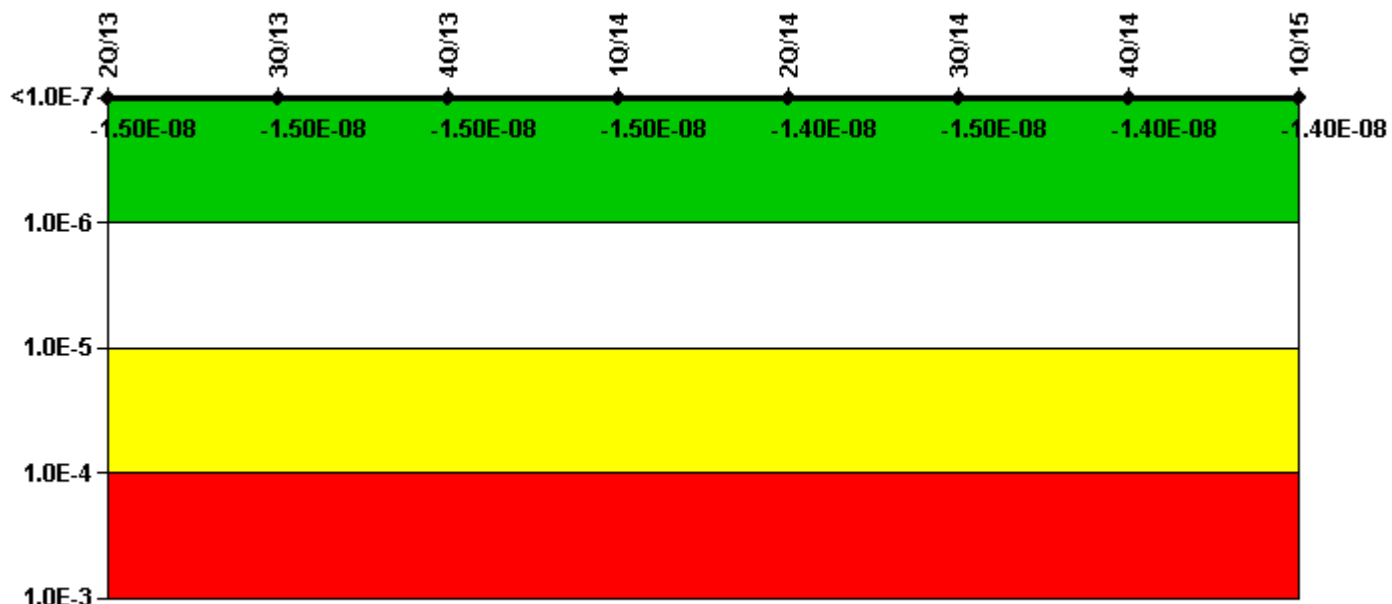
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-2.75E-09	-2.74E-09
URI (Δ CDF)	-7.22E-08	-6.70E-08	-5.84E-08	-5.33E-08	-2.55E-08	-1.96E-08	-1.61E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.60E-08	-8.10E-08	-7.20E-08	-6.70E-08	-3.90E-08	-3.30E-08	-1.90E-08	-1.80E-08

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	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	-8.24E-10	-7.80E-10	-7.85E-10	-8.09E-10	-8.72E-10	-8.26E-10	-7.99E-10	-9.98E-10
URI (ΔCDF)	-1.43E-08	-1.41E-08	-1.39E-08	-1.39E-08	-1.36E-08	-1.38E-08	-1.36E-08	-1.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.40E-08	-1.50E-08	-1.40E-08	-1.40E-08

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

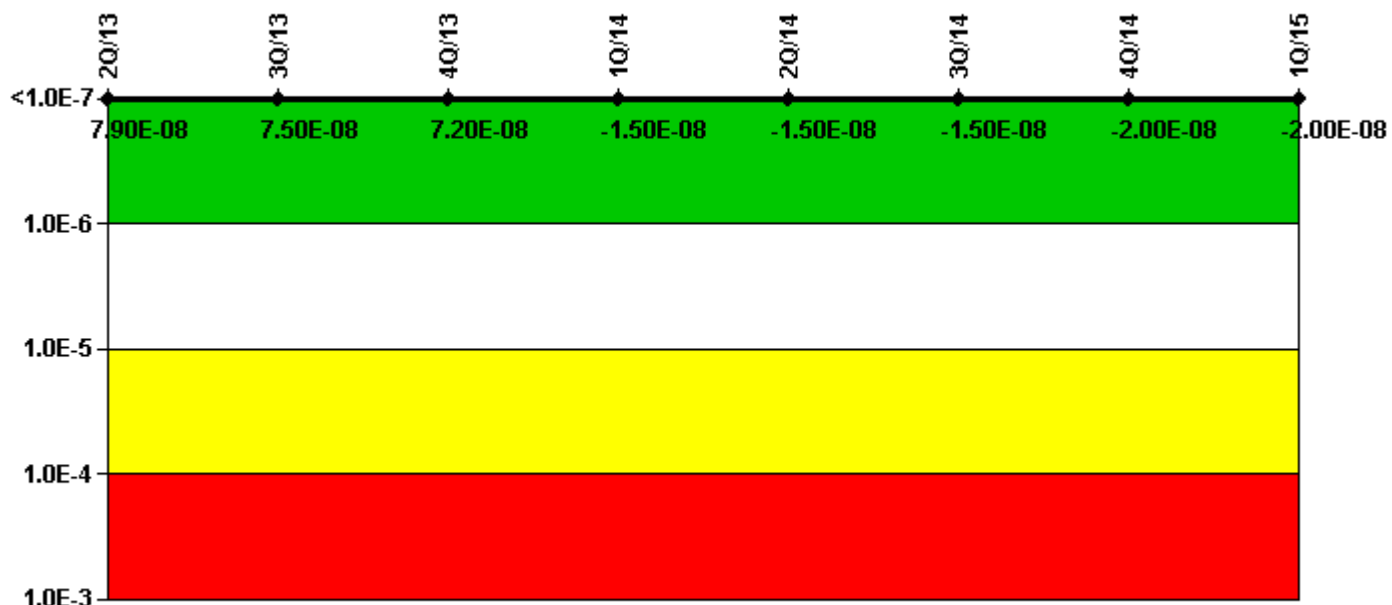
1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

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

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)	4.35E-09	1.69E-09	2.32E-09	1.66E-09	1.25E-09	1.48E-09	-2.13E-09	-2.02E-09
URI (Δ CDF)	7.51E-08	7.32E-08	6.96E-08	-1.63E-08	-1.63E-08	-1.69E-08	-1.74E-08	-1.79E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.90E-08	7.50E-08	7.20E-08	-1.50E-08	-1.50E-08	-1.50E-08	-2.00E-08	-2.00E-08

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

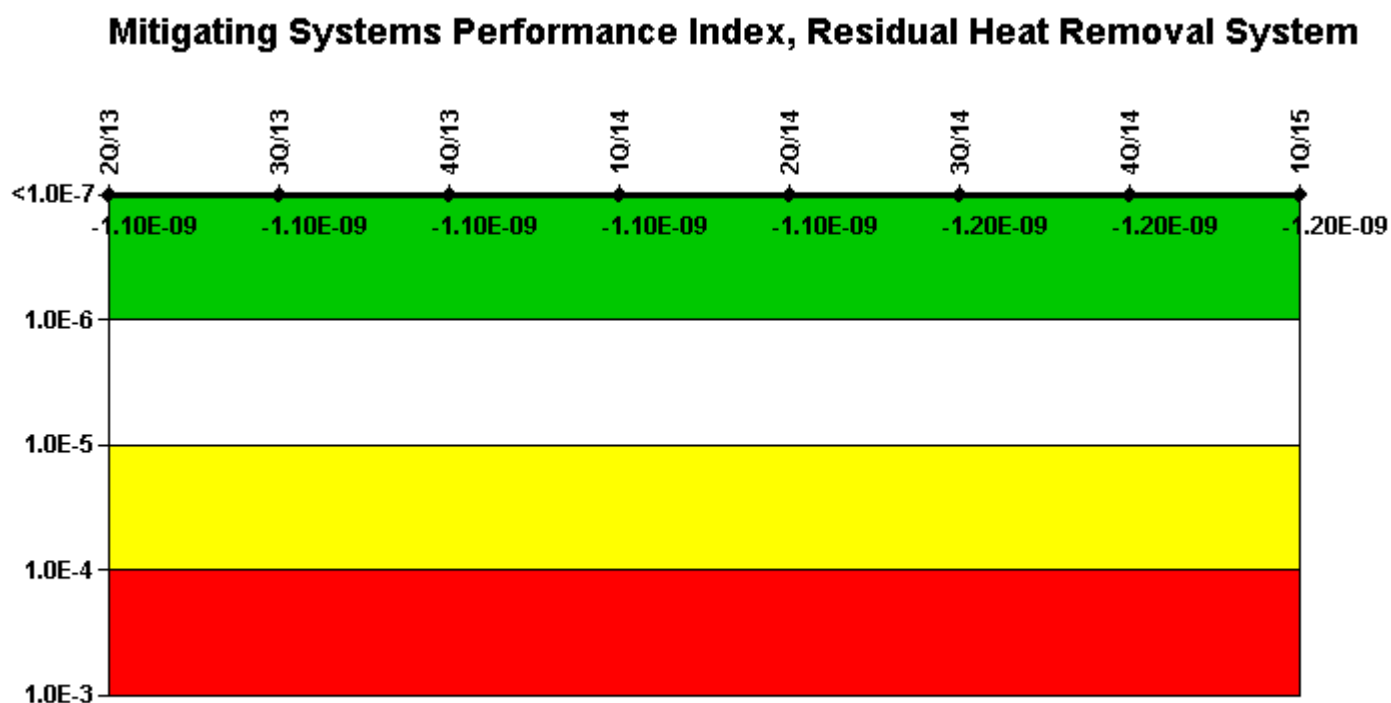
2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

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



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 (ΔCDF)	-2.01E-10	-2.28E-10	-2.29E-10	-2.43E-10	-2.43E-10	-2.55E-10	-2.55E-10	-2.70E-10
URI (ΔCDF)	-9.16E-10	-8.96E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.20E-09	-1.20E-09	-1.20E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

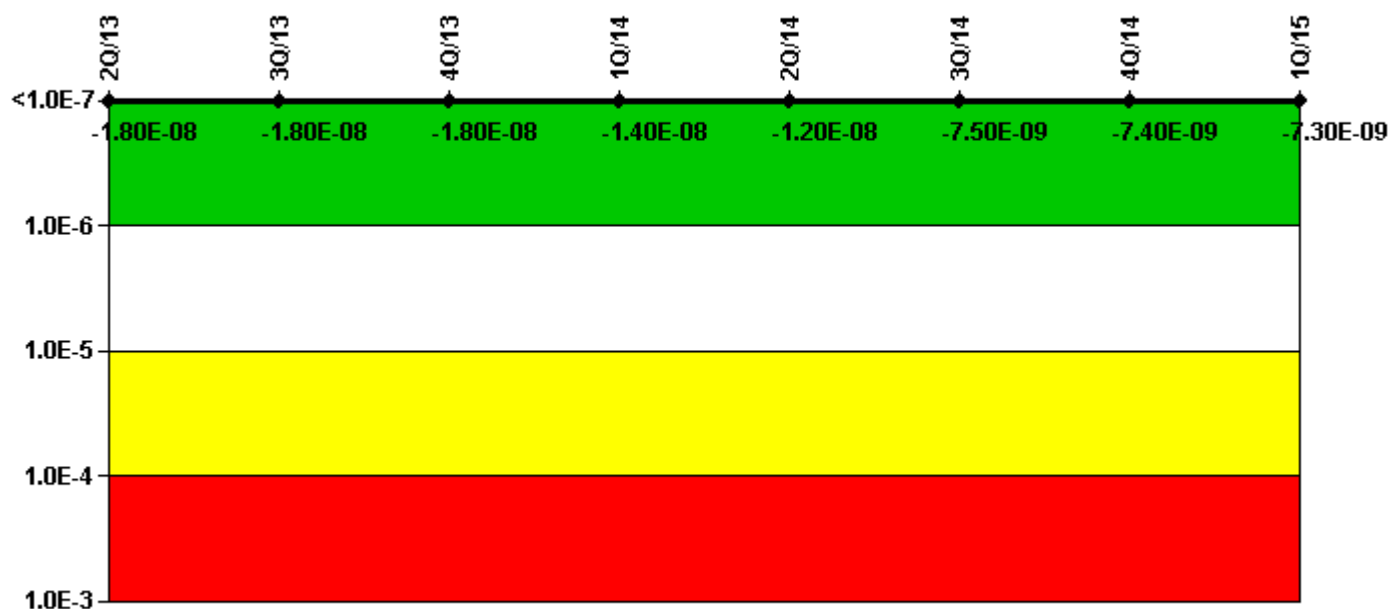
1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

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 (ΔCDF)	2.26E-09	1.59E-09	1.58E-09	1.27E-09	3.30E-09	3.04E-09	3.25E-09	3.15E-09
URI (ΔCDF)	-2.01E-08	-2.01E-08	-1.99E-08	-1.53E-08	-1.49E-08	-1.05E-08	-1.07E-08	-1.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.80E-08	-1.80E-08	-1.40E-08	-1.20E-08	-7.50E-09	-7.40E-09	-7.30E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

2Q/14: Failure No. 311011 on March 29 was added which changed the first quarter indicator with no change in color. See LER report No. 50-280/2014-001-00.

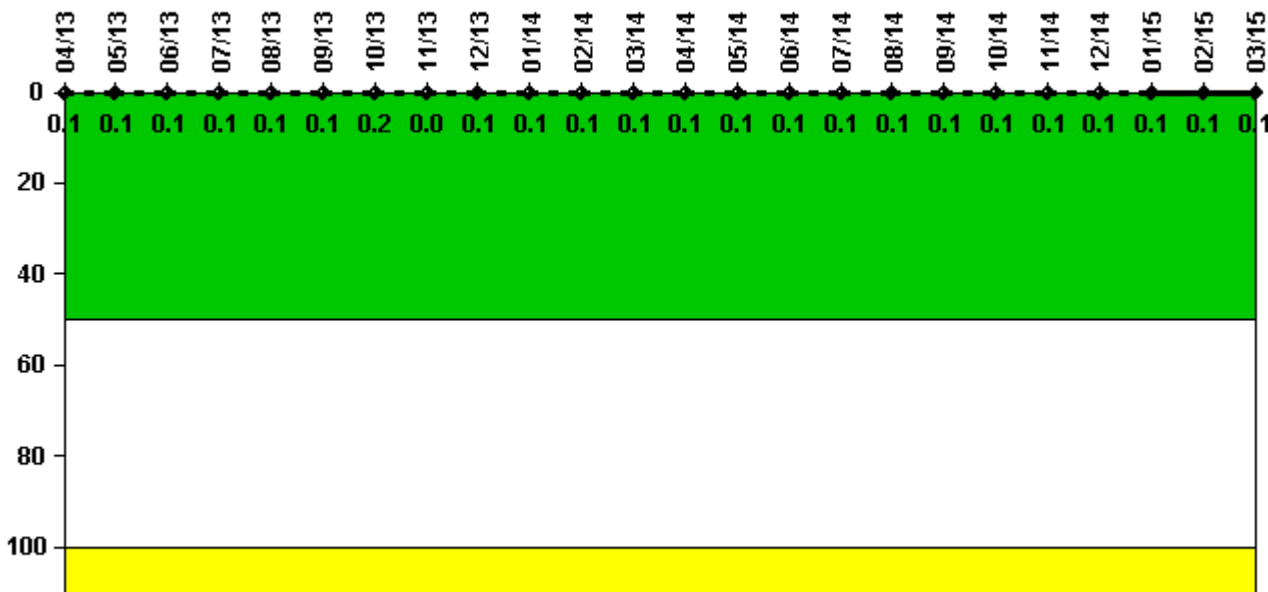
1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

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

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

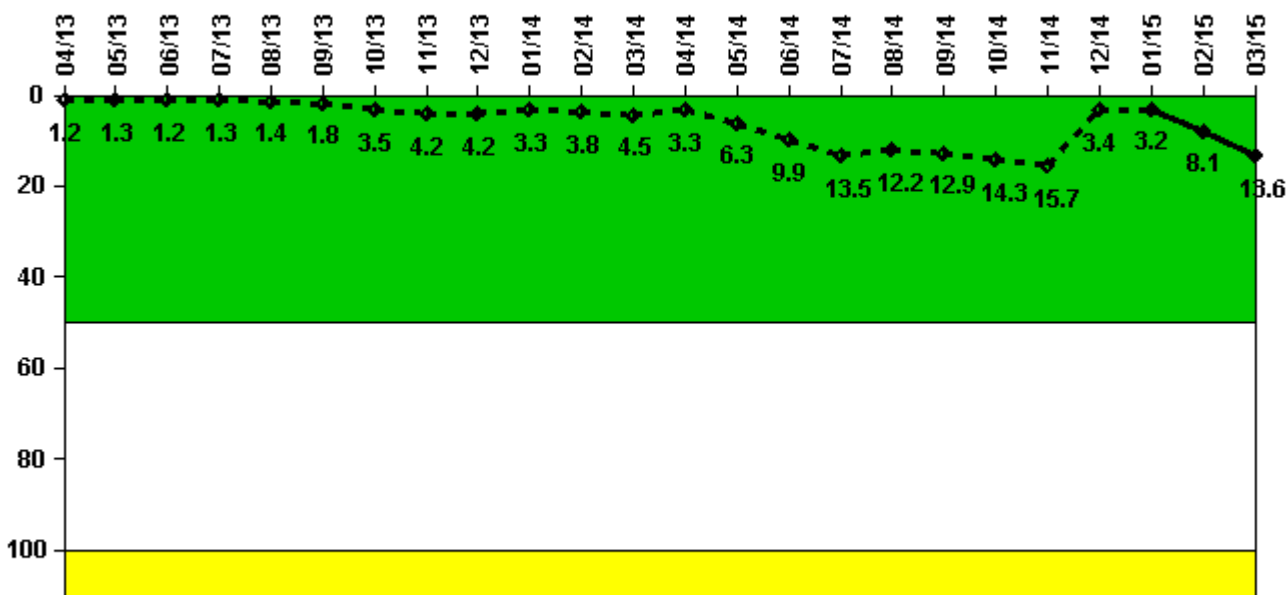
Reactor Coolant System													
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Activity	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum activity	0.001090	0.001310	0.001280	0.001120	0.001320	0.001490	0.001580	0.000475	0.000601	0.000632	0.000631	0.000729
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0	0.1	0.1	0.1	0.1

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	0.000749	0.000817	0.000839	0.000828	0.000910	0.000928	0.000929	0.001020	0.001030	0.001140	0.001110	0.001280
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

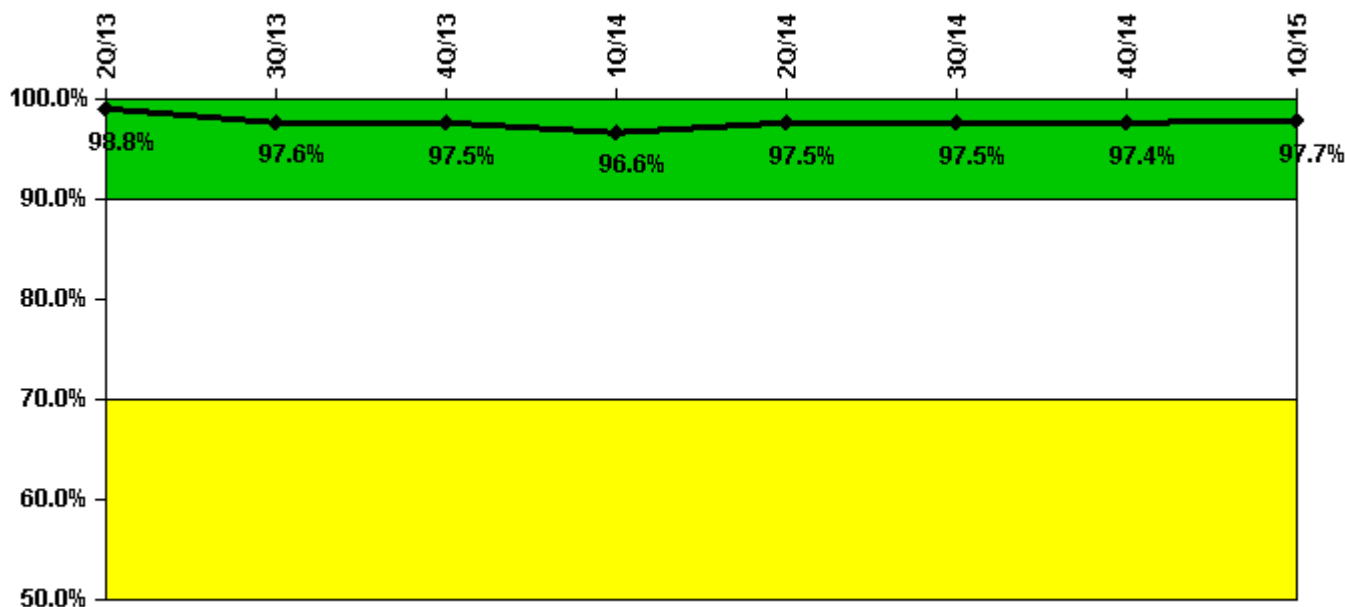
Notes

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	0.120	0.130	0.120	0.130	0.140	0.180	0.350	0.420	0.420	0.330	0.380	0.450
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.2	1.3	1.2	1.3	1.4	1.8	3.5	4.2	4.2	3.3	3.8	4.5
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	0.330	0.630	0.990	1.350	1.220	1.290	1.430	1.570	0.340	0.320	0.810	1.360
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.3	6.3	9.9	13.5	12.2	12.9	14.3	15.7	3.4	3.2	8.1	13.6

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September and November of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

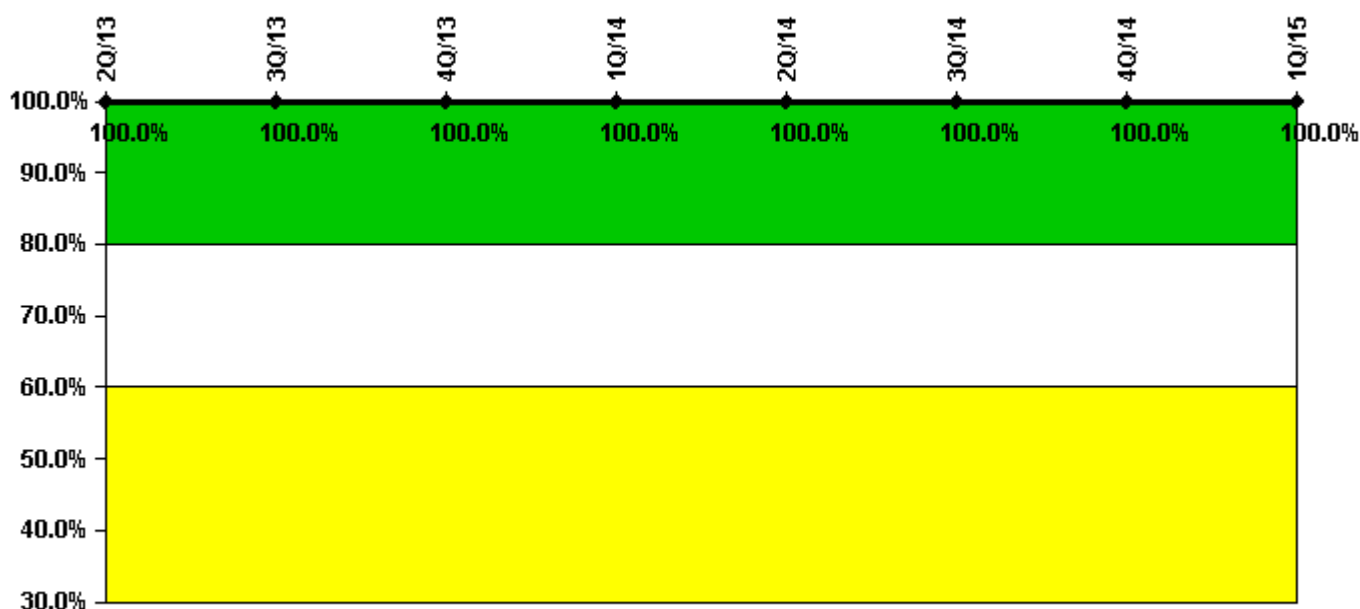
Drill/Exercise Performance	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15

Successful opportunities	22.0	28.0	14.0	36.0	28.0	33.0	19.0	31.0
Total opportunities	22.0	31.0	14.0	38.0	28.0	33.0	19.0	31.0
Indicator value	98.8%	97.6%	97.5%	96.6%	97.5%	97.5%	97.4%	97.7%

Licensee Comments:

3Q/14: Further review of a March 2014 ERO drill determined an initial successful DEP opportunity was not successful. Historical data was corrected with no change in color.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

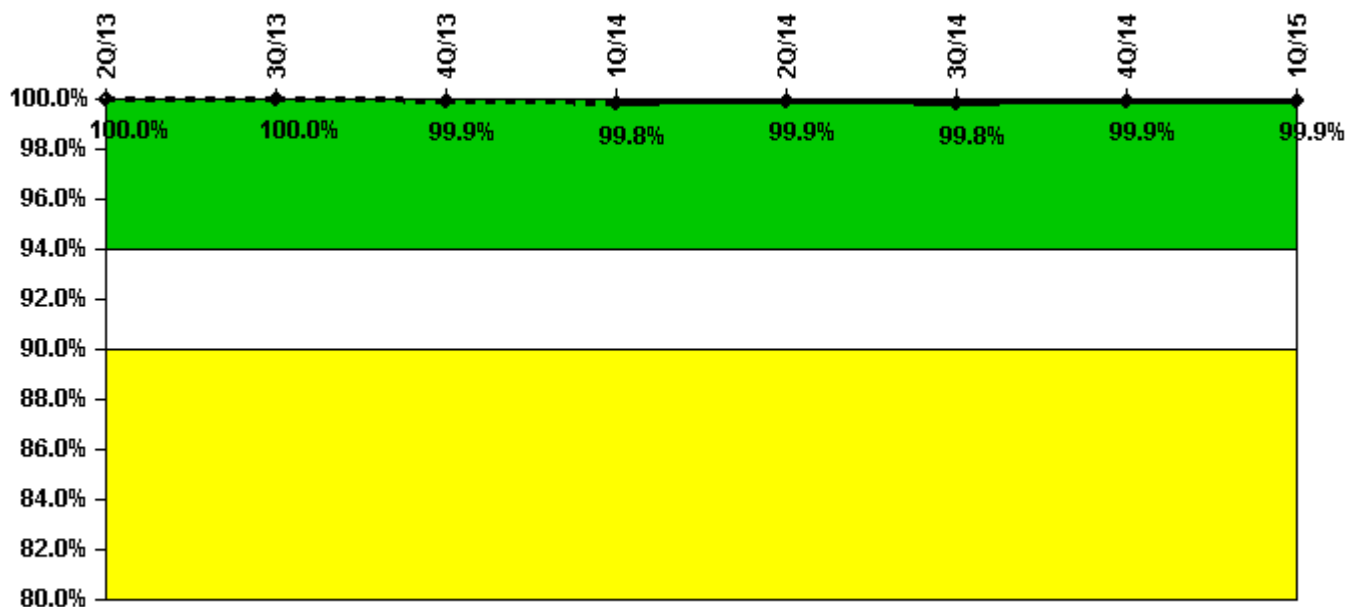
Notes

ERO Drill Participation	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Participating Key personnel	161.0	160.0	159.0	156.0	152.0	154.0	151.0	138.0
Total Key personnel	161.0	160.0	159.0	156.0	152.0	154.0	151.0	138.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

3Q/14: An assessment determined the total number of personnel in key ERO positions was inaccurate. Historical data was corrected with no change in color.

Alert & Notification System



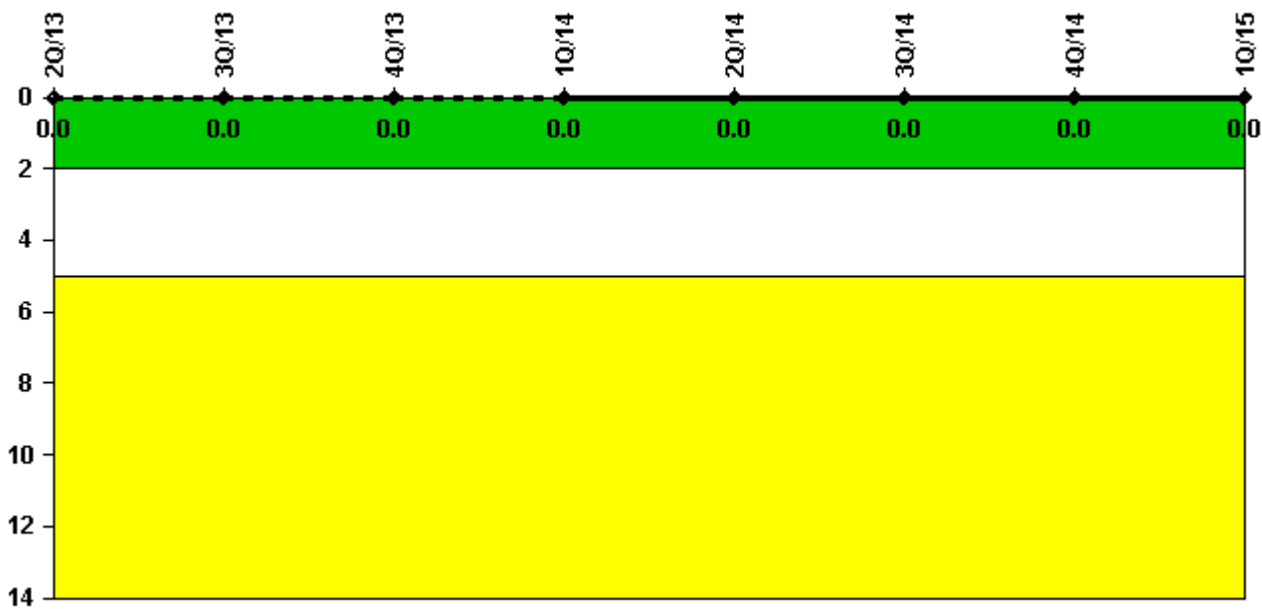
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful siren-tests	567	497	566	496	568	567	497	567
Total sirens-tests	568	497	568	497	568	568	497	568
Indicator value	100.0%	100.0%	99.9%	99.8%	99.9%	99.8%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



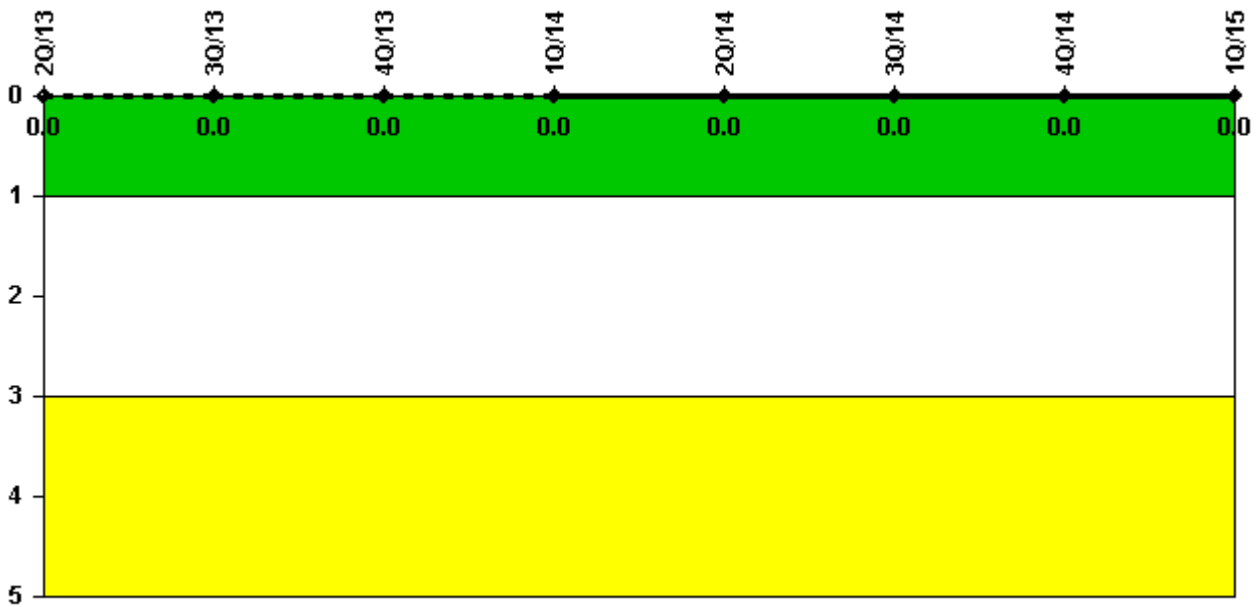
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	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	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	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: April 23, 2015