

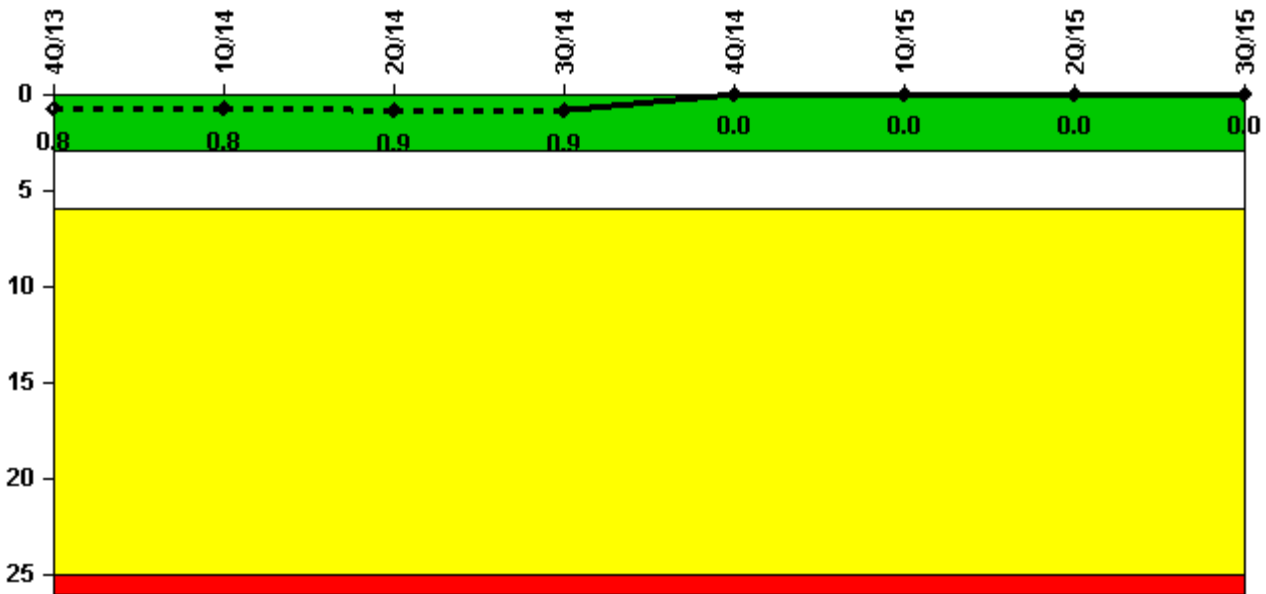
Palo Verde 2

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



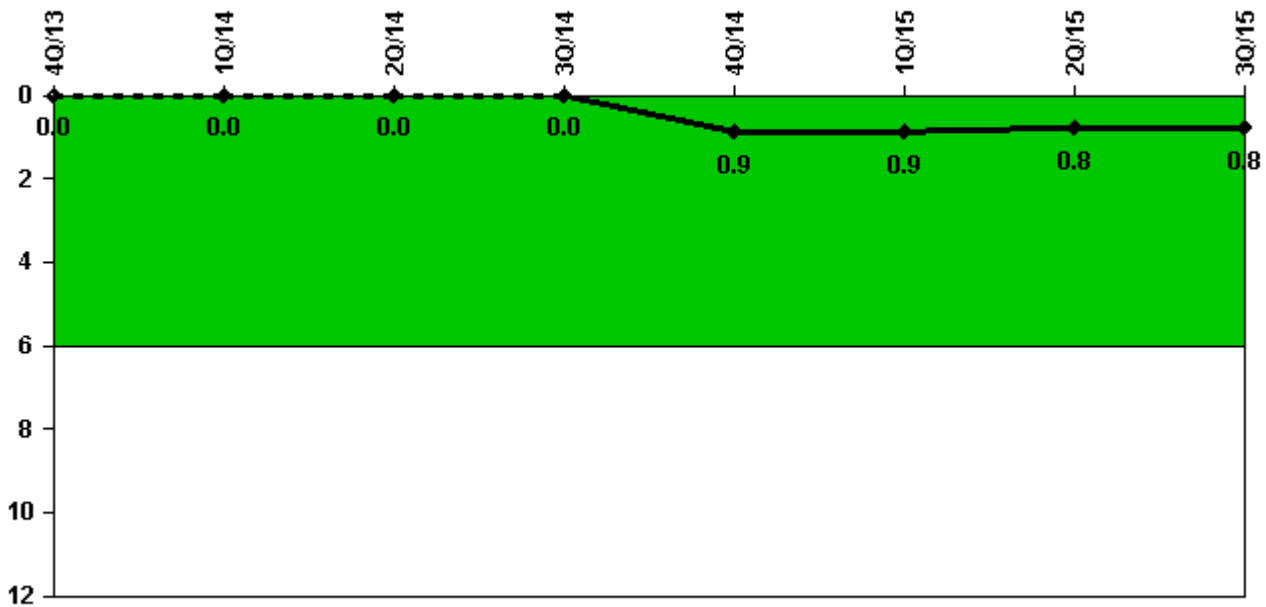
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	0	0	0
Critical hours	1956.9	2160.0	1513.3	2208.0	2059.2	2160.0	2184.0	2208.0
Indicator value	0.8	0.8	0.9	0.9	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

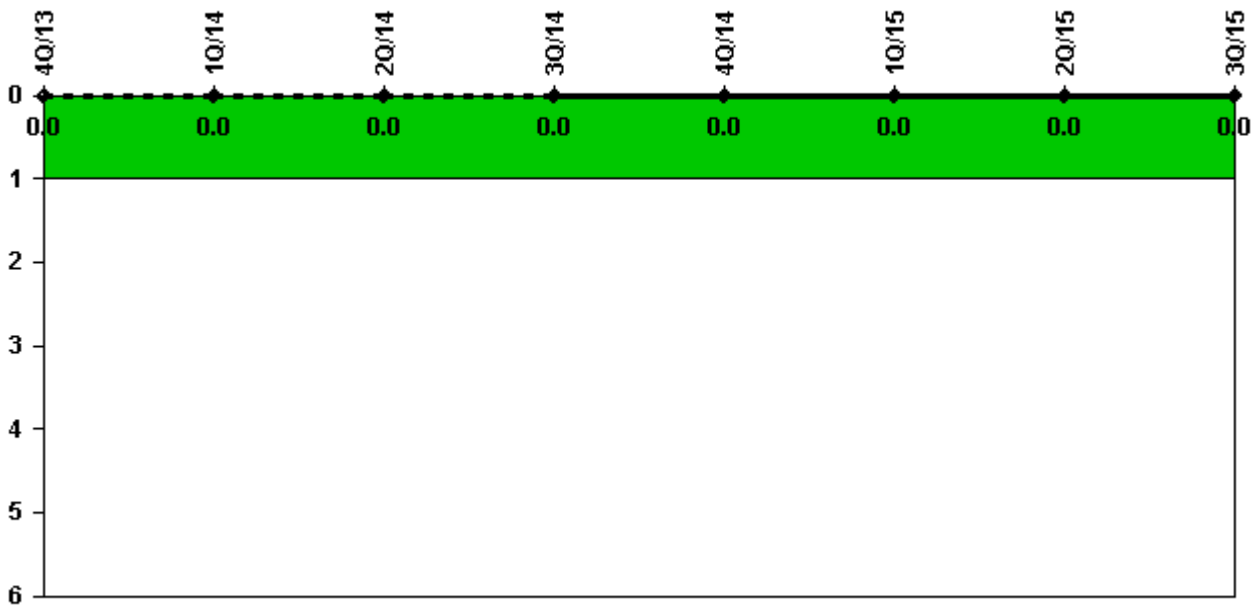
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	1956.9	2160.0	1513.3	2208.0	2059.2	2160.0	2184.0	2208.0
Indicator value	0	0	0	0	0.9	0.9	0.8	0.8

Licensee Comments:

3Q/15: On September 25, 2015, Unit 2 was granted an exigent amendment to Technical Specification Surveillance Requirement 3.1.5.3 to eliminate further quarterly performance for control element assemble #88 for the remainder of the 19th Unit 2 operating cycle. Reference ADAMS Accession # ML 15266A005.

Unplanned Scrams with Complications



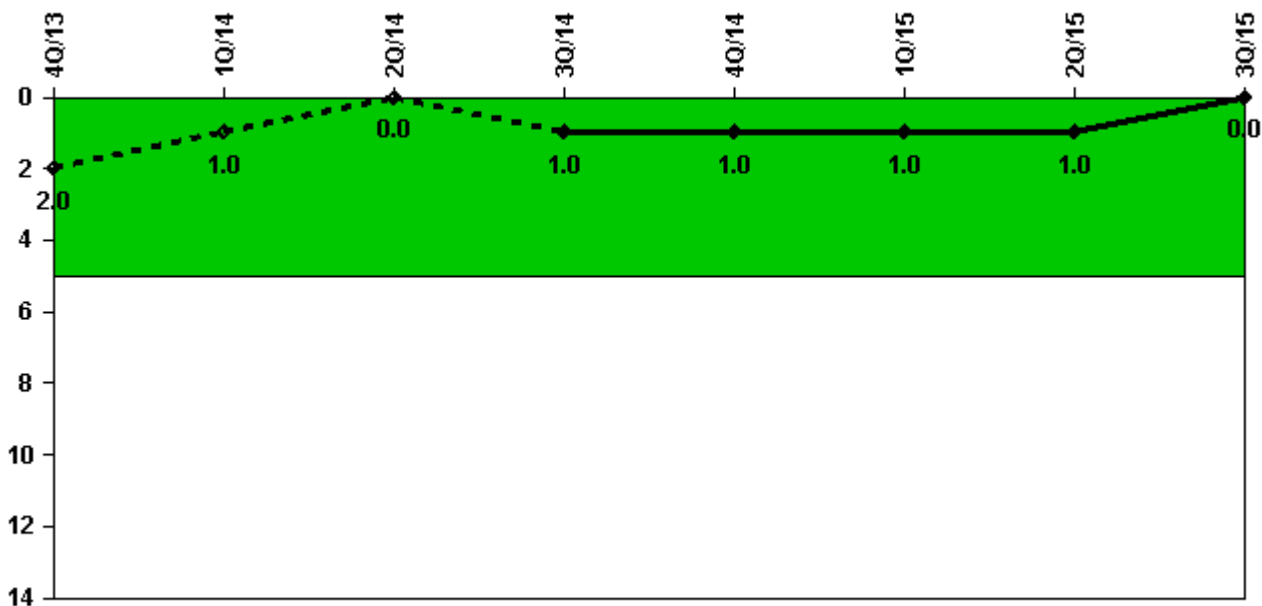
Thresholds: White > 1.0

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	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

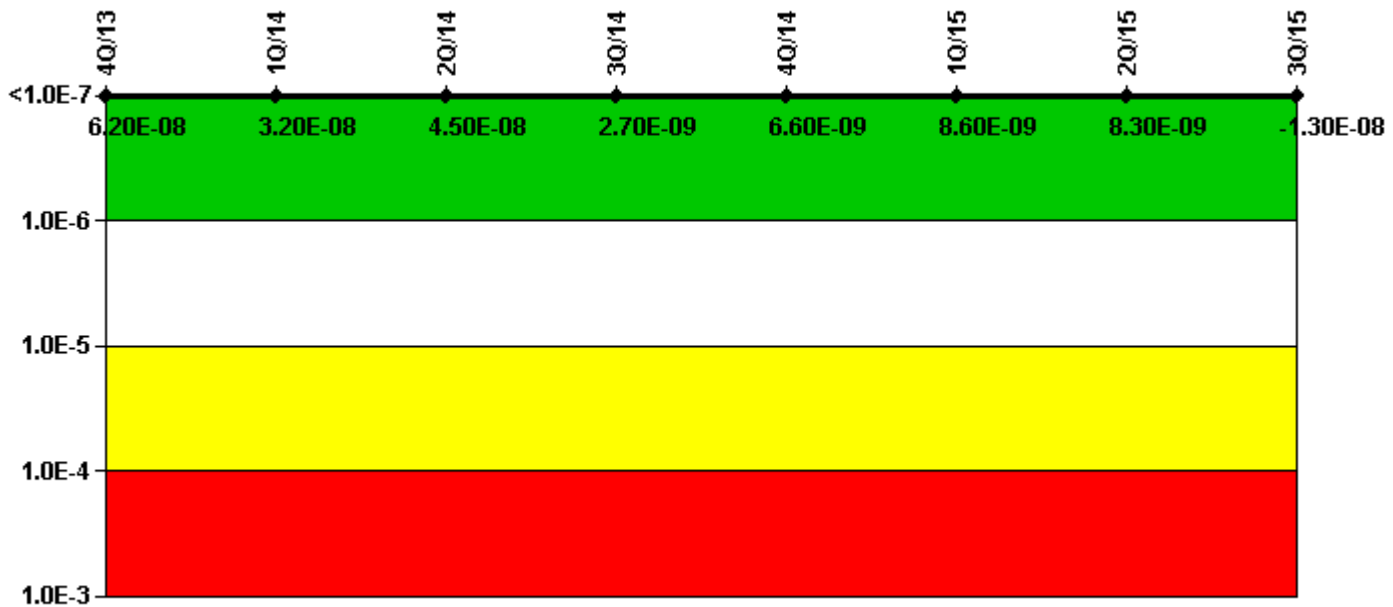
Notes

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

Licensee Comments:

3Q/14: LER 05000529-2014-001-00 issued in August 2014

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)	2.44E-08	2.20E-08	3.06E-08	1.94E-08	1.95E-08	2.15E-08	2.12E-08	-1.65E-10
URI (Δ CDF)	3.75E-08	9.88E-09	1.45E-08	-1.67E-08	-1.29E-08	-1.29E-08	-1.29E-08	-1.29E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.20E-08	3.20E-08	4.50E-08	2.70E-09	6.60E-09	8.60E-09	8.30E-09	-1.30E-08

Licensee Comments:

3Q/15: In 3rd Quarter 2015, updated unavailability for EDG 2A for September 2012, net change was () 1.91 hours and EDG 1B for April 2014 and February 2015, net change was (-) 25.72 hours , no color change as a result.

2Q/15: In May 2015, planned unavailability hours from September 2012, July and November 2013, February 2014, and February 2015, were adjusted resulting in a net decrease of 25.81 planned unavailability hours for the 3 year period ending in June 2015. The adjustments were made to account for hours unavailable vs. hours inoperable, previously recorded and not have resulted in a color change.

2Q/15: In May 2015, planned unavailability hours from September 2012, July and November 2013, February 2014, and February 2015, were adjusted resulting in a net decrease of 25.81 planned unavailability hours for the 3 year period ending in June 2015. The adjustments were made to account for hours unavailable vs. hours inoperable, previously recorded and not have resulted in a color change.

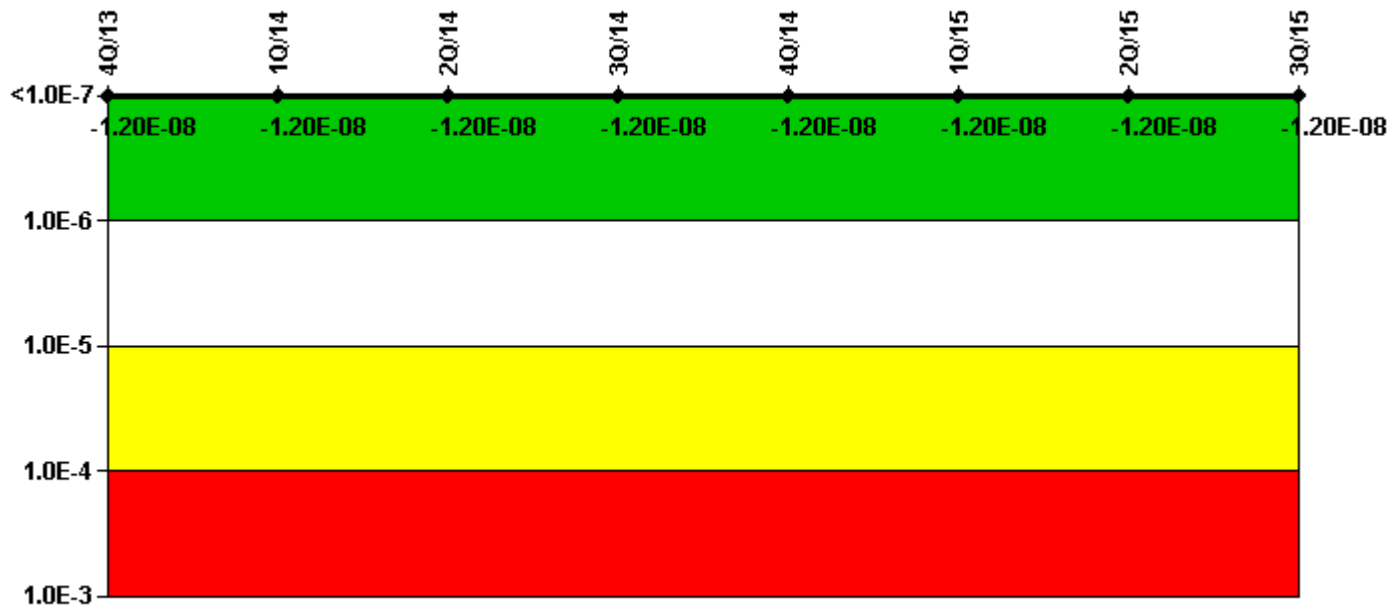
1Q/15: In 3rd Quarter 2015, updated February 2015 unavailability for EDG 2B, net change was (-) 0.72 hours, no color change as a result.

4Q/14: In May 2015, planned unavailability hours from September 2012, July and November 2013, February 2014, and February 2015, were adjusted resulting in a net decrease of 25.81 planned unavailability hours for the 3 year period ending in June 2015. The adjustments were made to account for hours unavailable vs. hours inoperable, previously recorded and not have resulted in a color change.

4Q/14: In May 2015, planned unavailability hours from September 2012, July and November 2013, February 2014, and February 2015, were adjusted resulting in a net decrease of 25.81 planned unavailability hours for the 3 year period ending in June 2015. The adjustments were made to account for hours unavailable vs. hours inoperable, previously recorded and not have resulted in a color change.

2Q/14: In 3rd Quarter 2015, updated April 2014 unavailability for EDG 2B, net change was (-) 25.0 hours, no color change as a result.

Mitigating Systems Performance Index, High Pressure Injection System



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

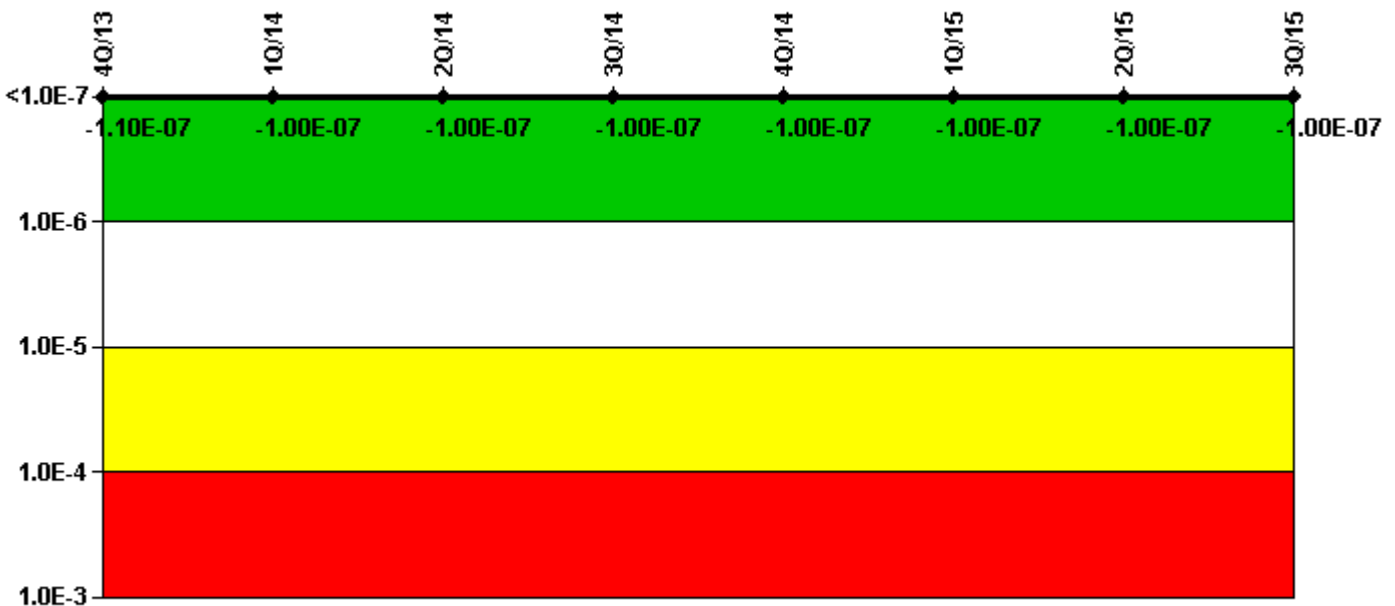
Notes

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 (ΔCDF)	-1.52E-09	-1.52E-09	-1.52E-09	-1.52E-09	-1.52E-09	-1.52E-09	-1.52E-09	-1.52E-09
URI (ΔCDF)	-1.06E-08	-1.05E-08	-1.04E-08	-1.03E-08	-1.03E-08	-1.03E-08	-1.03E-08	-1.03E-08

PLE		NO	NO	NO	NO	NO	NO	NO	NO
Indicator value		-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



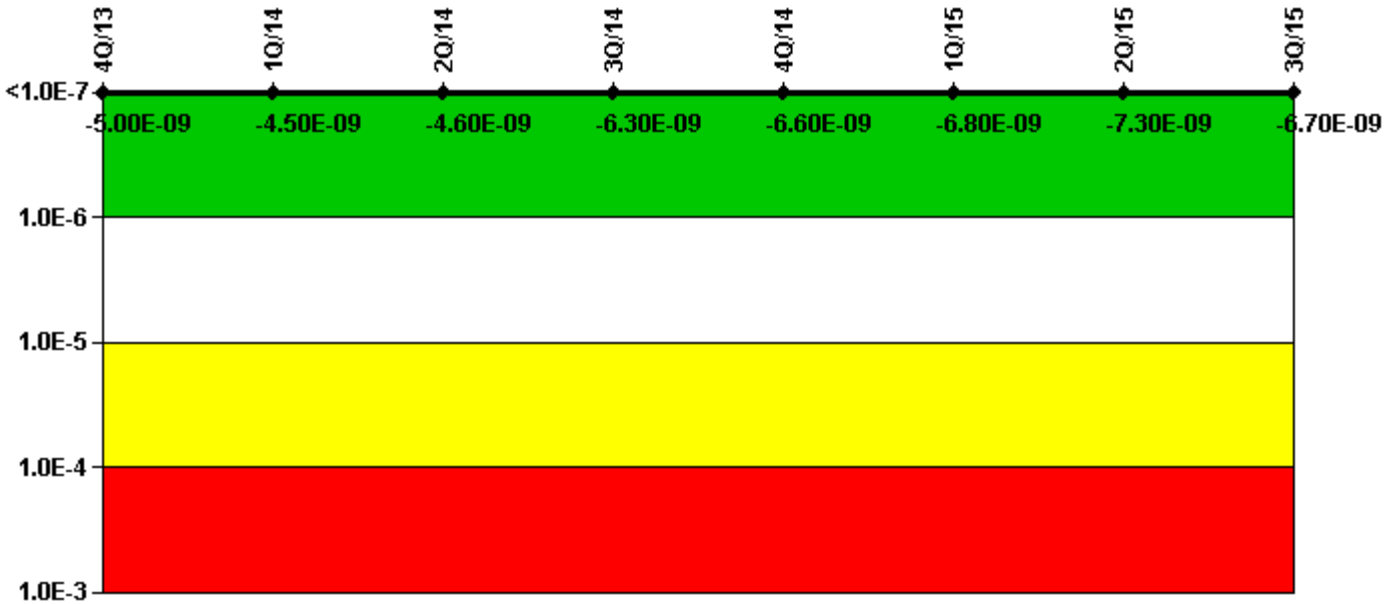
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-4.84E-08	-4.84E-08	-4.84E-08	-4.84E-08	-4.84E-08	-4.84E-08	-4.84E-08	-4.84E-08
URI (Δ CDF)	-5.78E-08	-5.63E-08	-5.47E-08	-5.31E-08	-5.15E-08	-5.15E-08	-5.15E-08	-5.15E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07

Licensee Comments: none

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)	1.41E-09	1.89E-09	1.76E-09	9.73E-11	-2.46E-10	-3.77E-10	-9.01E-10	-2.94E-10
URI (Δ CDF)	-6.37E-09	-6.37E-09	-6.37E-09	-6.37E-09	-6.37E-09	-6.37E-09	-6.37E-09	-6.37E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.00E-09	-4.50E-09	-4.60E-09	-6.30E-09	-6.60E-09	-6.80E-09	-7.30E-09	-6.70E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



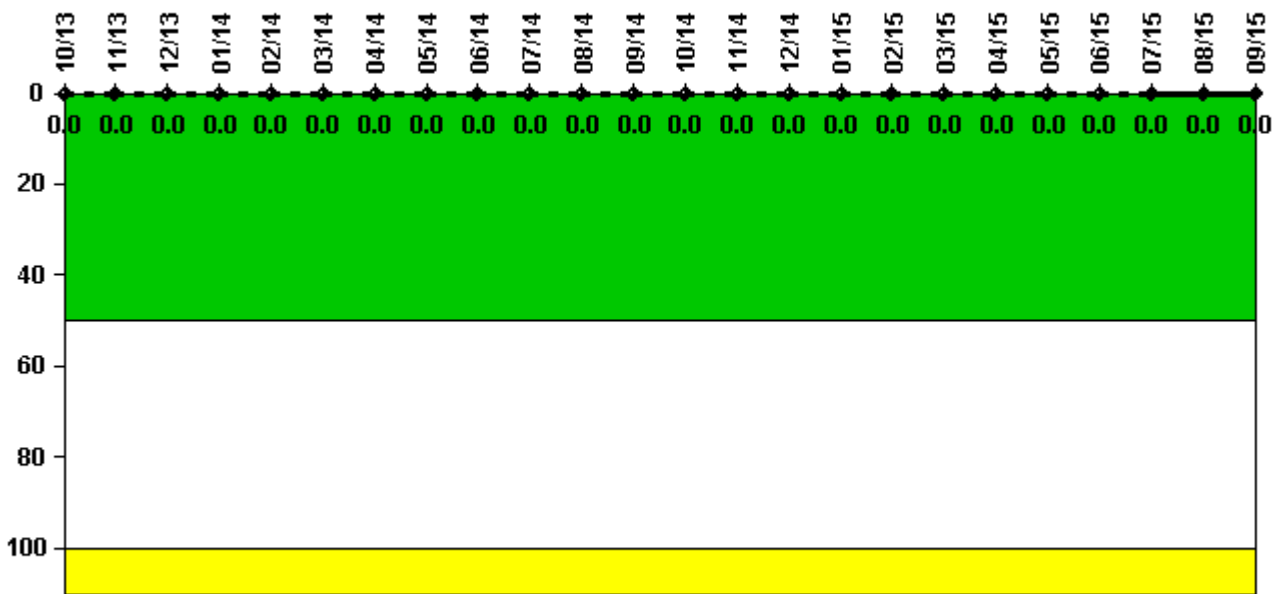
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.45E-08	1.19E-08	1.60E-08	1.50E-08	1.51E-08	1.50E-08	1.47E-08	1.24E-09
URI (Δ CDF)	-4.57E-08	-4.57E-08	-4.57E-08	-4.57E-08	-4.57E-08	-4.57E-08	-4.57E-08	-4.57E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.10E-08	-3.40E-08	-3.00E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08	-4.40E-08

Licensee Comments: none

Reactor Coolant System Activity



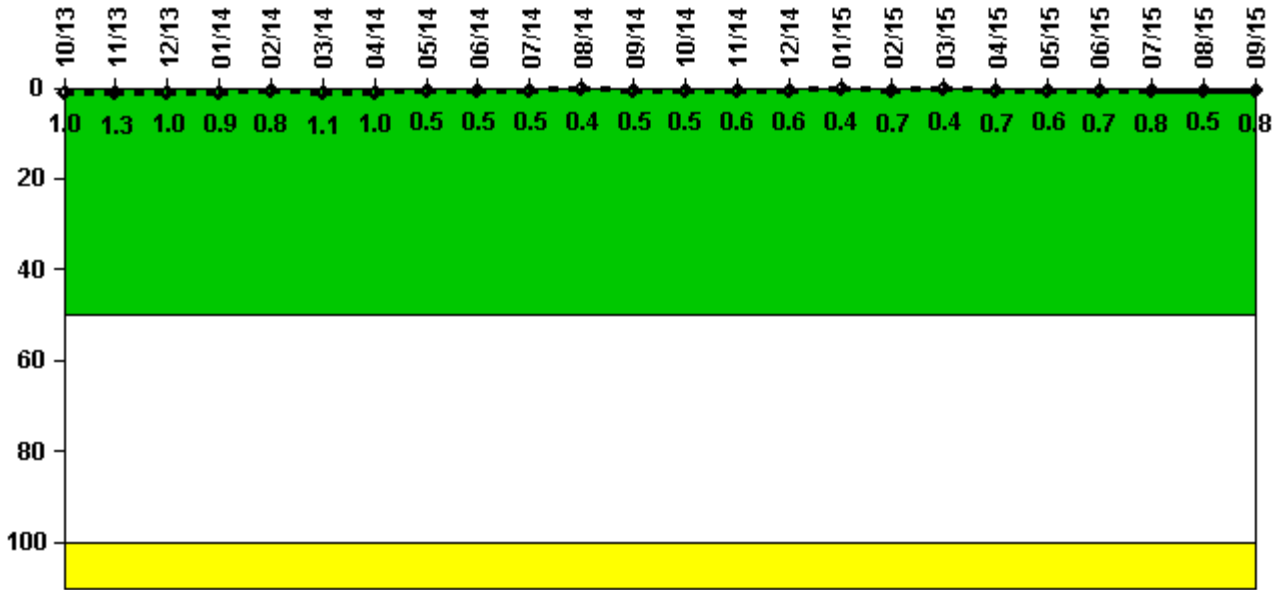
Thresholds: White > 50.0 Yellow > 100.0

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	0.000208	0.000211	0.000209	0.000227	0.000222	0.000233	0.000232	0.000162	0.000167	0.000252	0.000175	0.000176
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	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	0.000190	0.000190	0.000183	0.000179	0.000178	0.000183	0.000192	0.000194	0.000195	0.000194	0.000190	0.000226
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	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



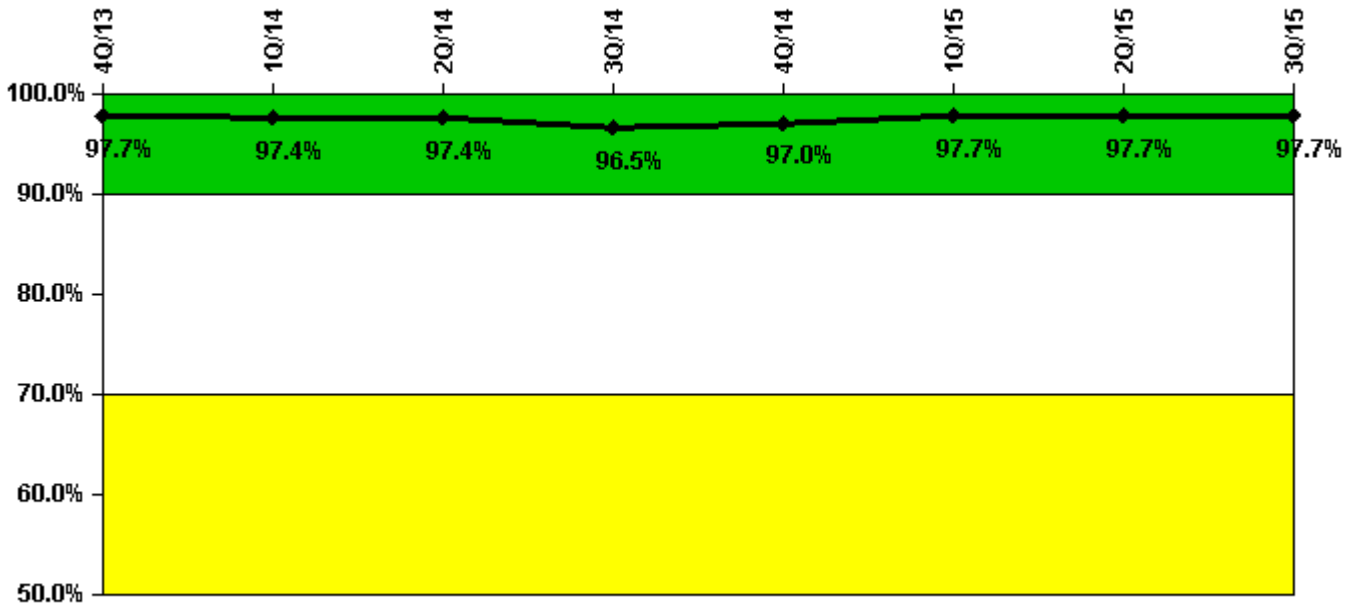
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.097	0.125	0.096	0.091	0.077	0.109	0.095	0.050	0.049	0.053	0.041	0.054
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	1.0	1.3	1.0	0.9	0.8	1.1	1.0	0.5	0.5	0.5	0.4	0.5
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	0.045	0.059	0.060	0.037	0.067	0.038	0.074	0.060	0.073	0.077	0.052	0.079
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	0.5	0.6	0.6	0.4	0.7	0.4	0.7	0.6	0.7	0.8	0.5	0.8

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	83.0	81.0	14.0	74.0	137.0	42.0	38.0	50.0
Total opportunities	85.0	83.0	14.0	80.0	139.0	42.0	38.0	50.0
Indicator value	97.7%	97.4%	97.4%	96.5%	97.0%	97.7%	97.7%	97.7%

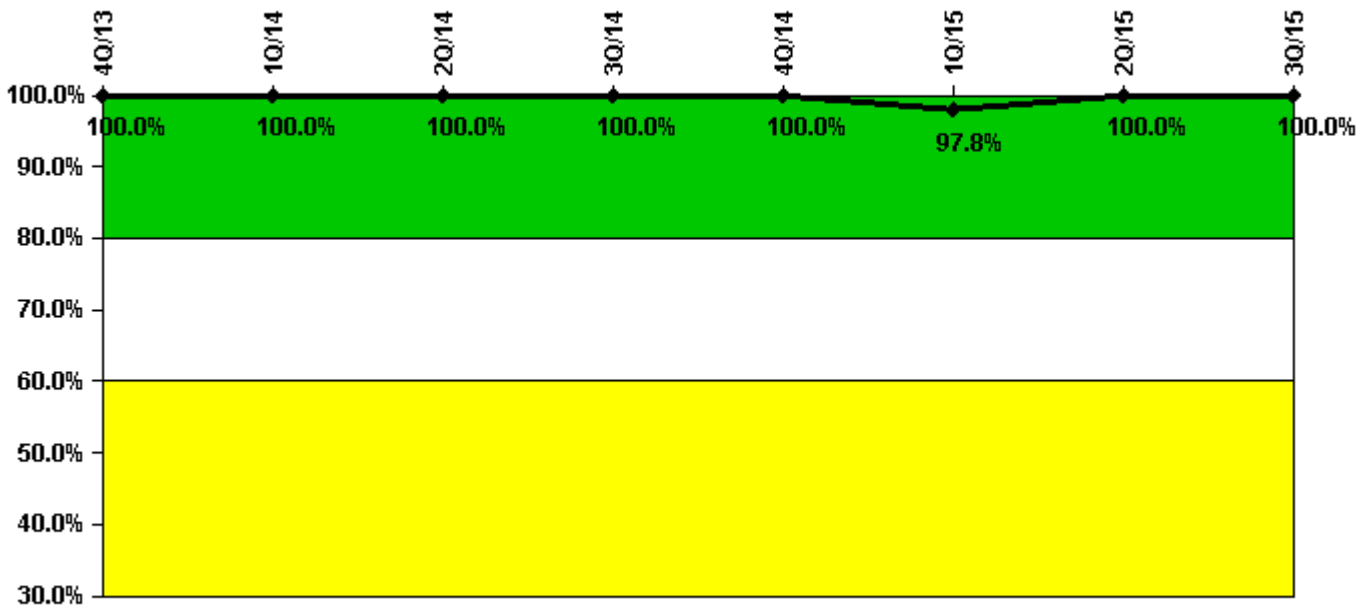
Licensee Comments:

1Q/15: Corrected March 2014 EP01 drill success and total opportunities that included one item that should not have been counted. Discovered in March 2015. No color change as a result.

1Q/14: Corrected March 2014 EP01 drill success and total opportunities that included one item that should not have been counted. Discovered in March 2015. No color change as a result.

4Q/13: A plant condition was discovered that resulted in a previously unidentified missed emergency action level classification in November 2013. No color change resulted.

ERO Drill Participation



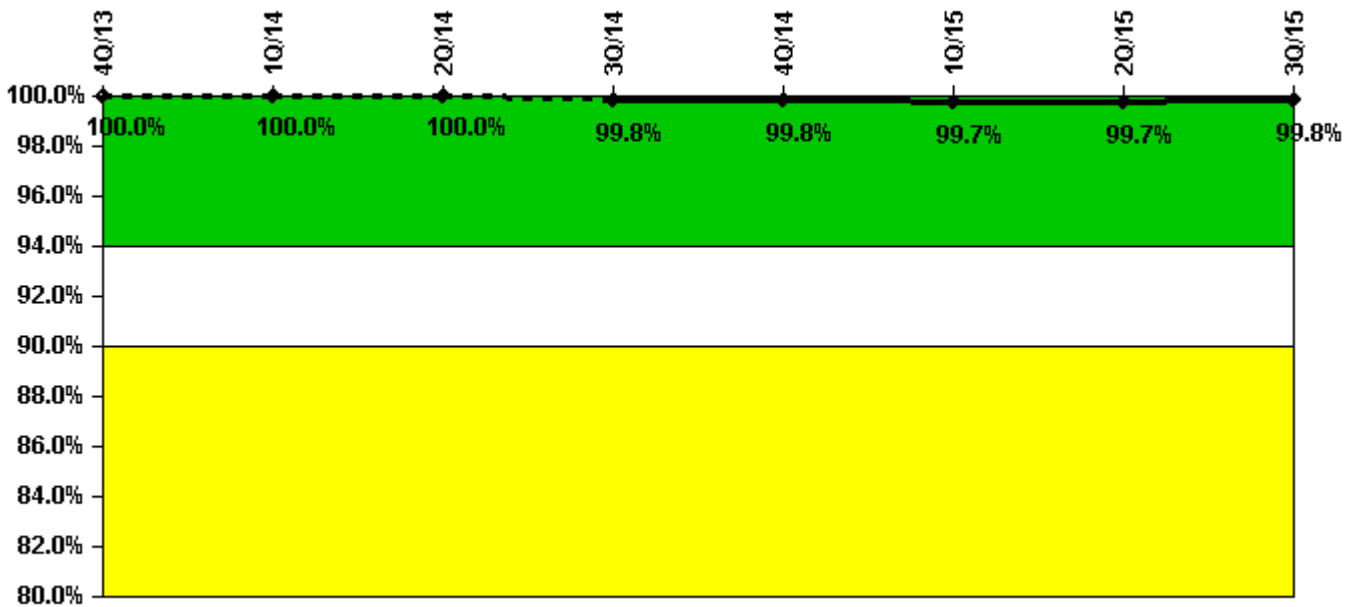
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	98.0	94.0	92.0	89.0	85.0	91.0	91.0	95.0
Total Key personnel	98.0	94.0	92.0	89.0	85.0	93.0	91.0	95.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	97.8%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



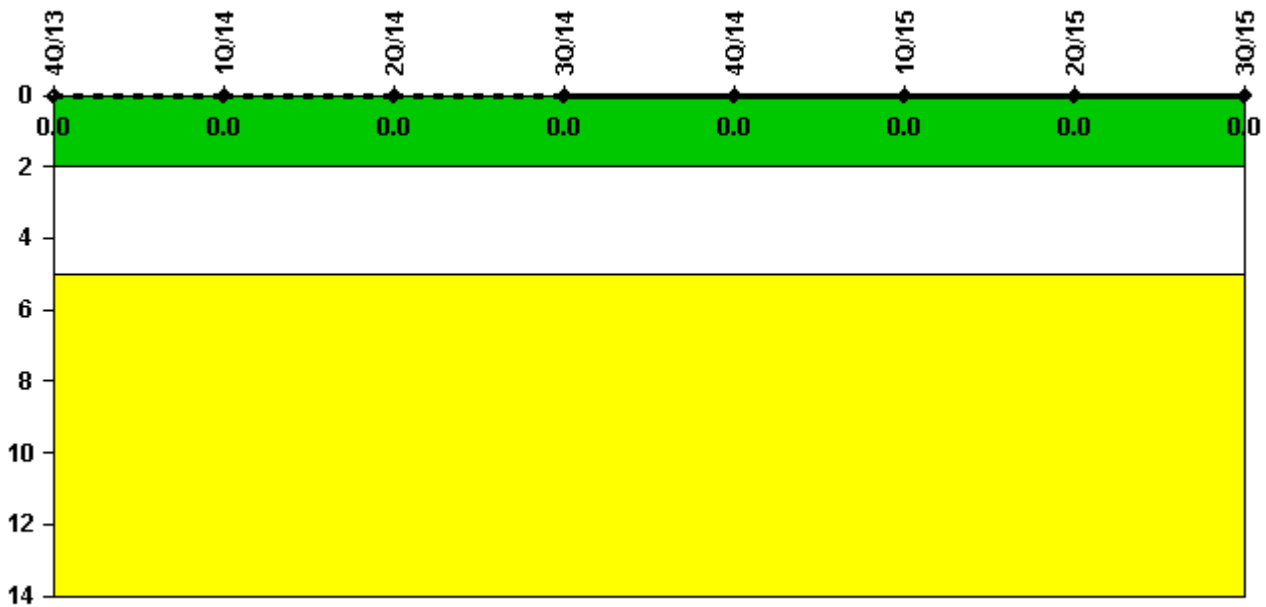
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	1008	912	912	858	960	908	912	909
Total sirens-tests	1008	912	912	864	960	912	912	912
Indicator value	100.0%	100.0%	100.0%	99.8%	99.8%	99.7%	99.7%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



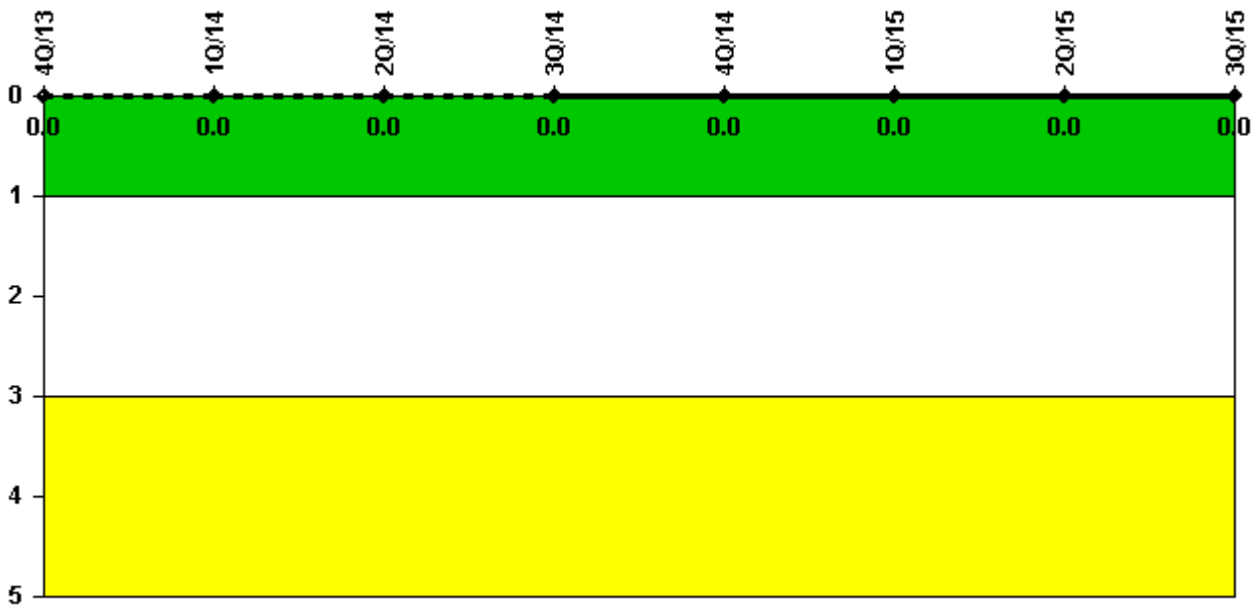
Thresholds: White > 2.0 Yellow > 5.0

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