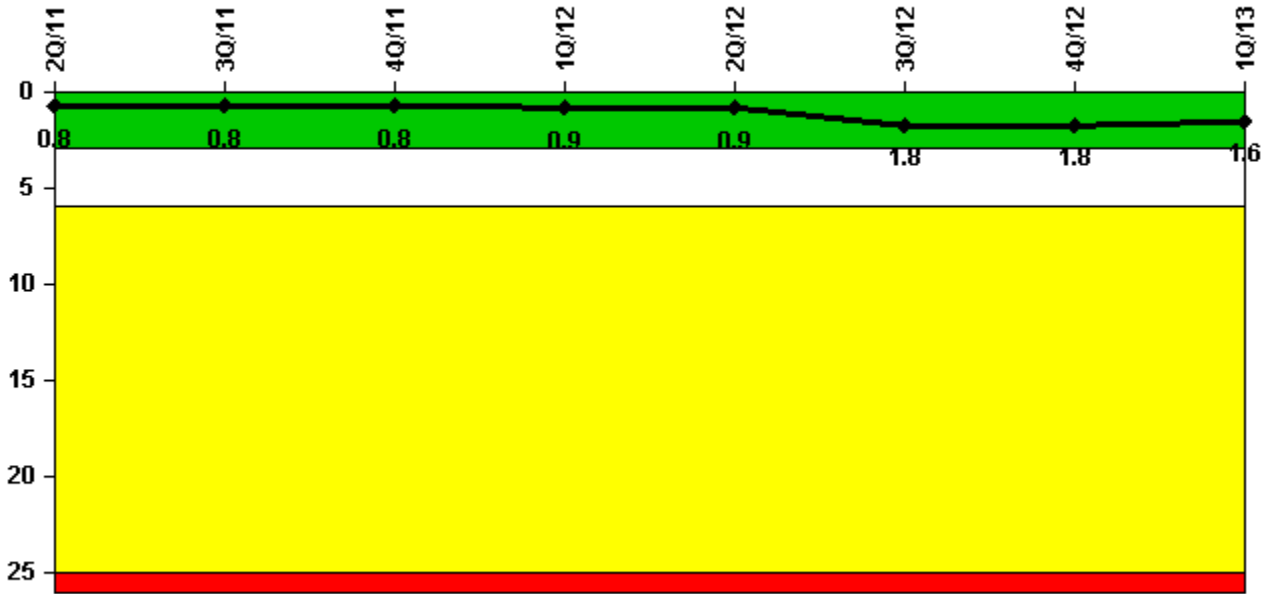


Limerick 1

1Q/2013 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



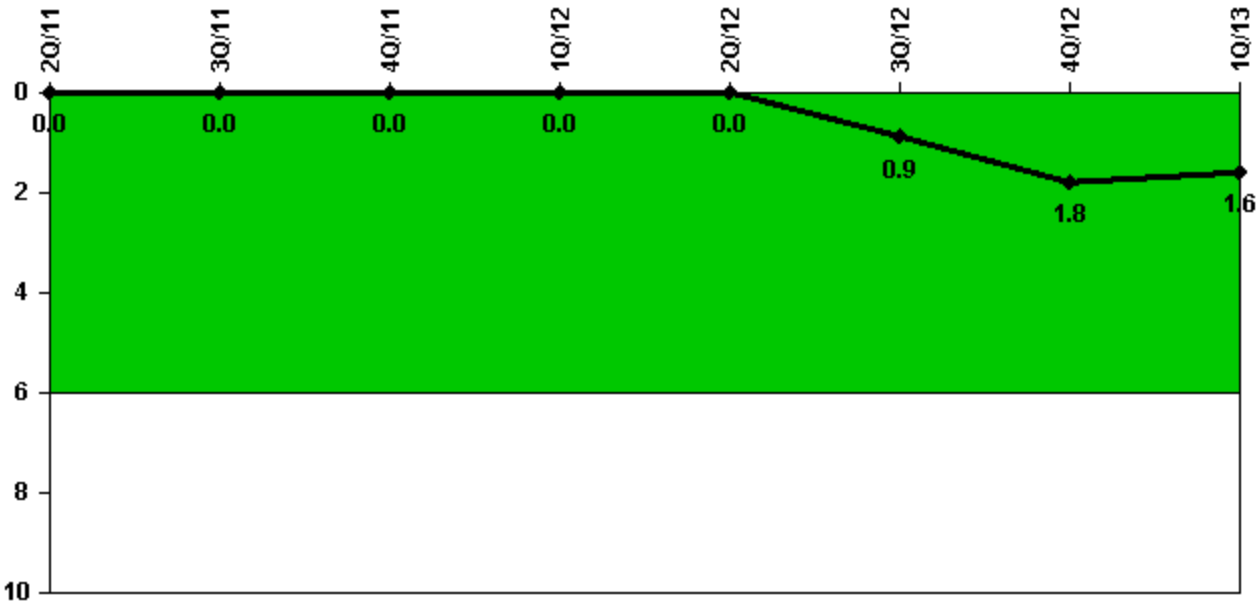
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned scrams	1.0	0	0	0	1.0	1.0	0	0
Critical hours	2142.8	2208.0	2018.1	1463.3	2150.3	2002.5	2209.0	2159.0
Indicator value	0.8	0.8	0.8	0.9	0.9	1.8	1.8	1.6

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



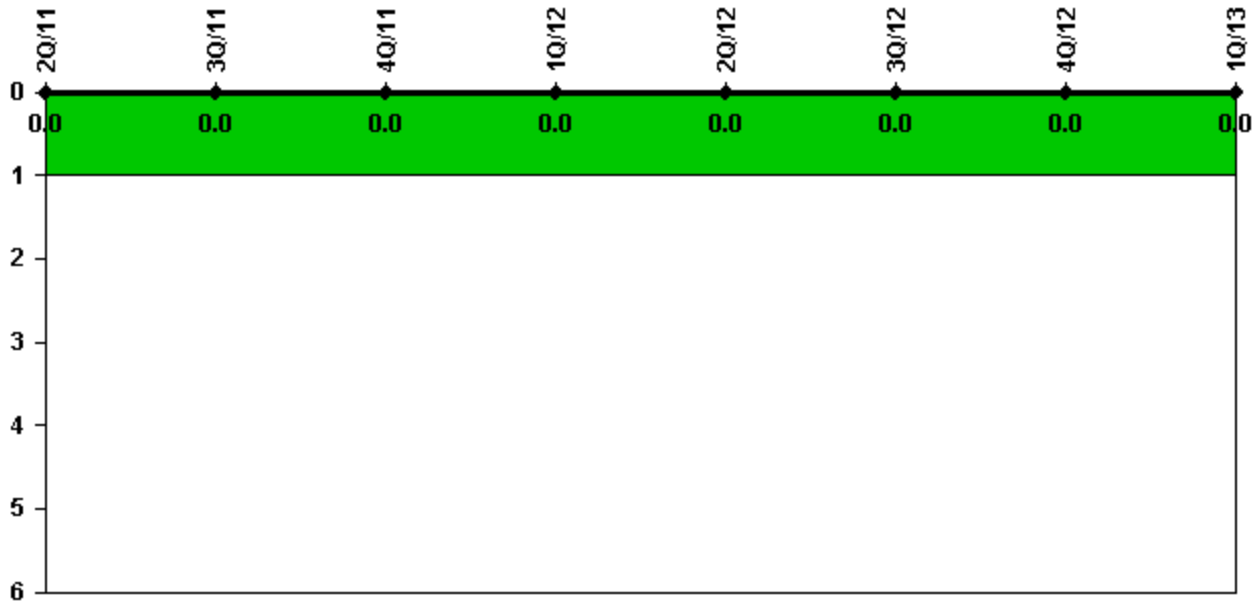
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned power changes	0	0	0	0	0	1.0	1.0	0
Critical hours	2142.8	2208.0	2018.1	1463.3	2150.3	2002.5	2209.0	2159.0
Indicator value	0	0	0	0	0	0.9	1.8	1.6

Licensee Comments: none

Unplanned Scrams with Complications



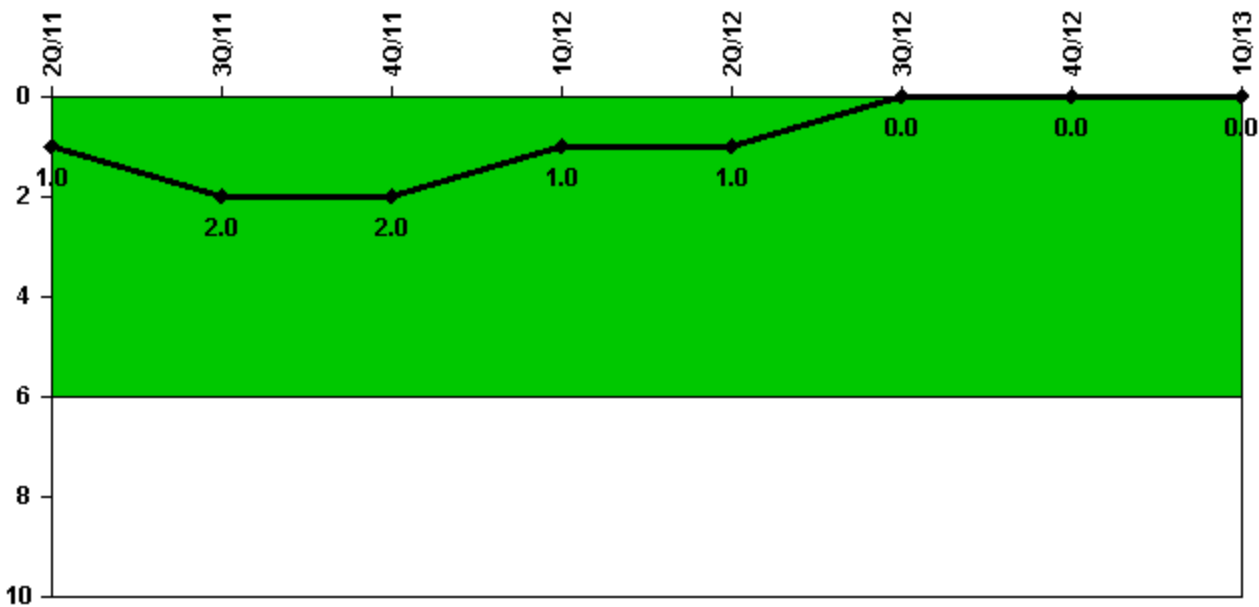
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
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 (BWR)



Thresholds: White > 6.0

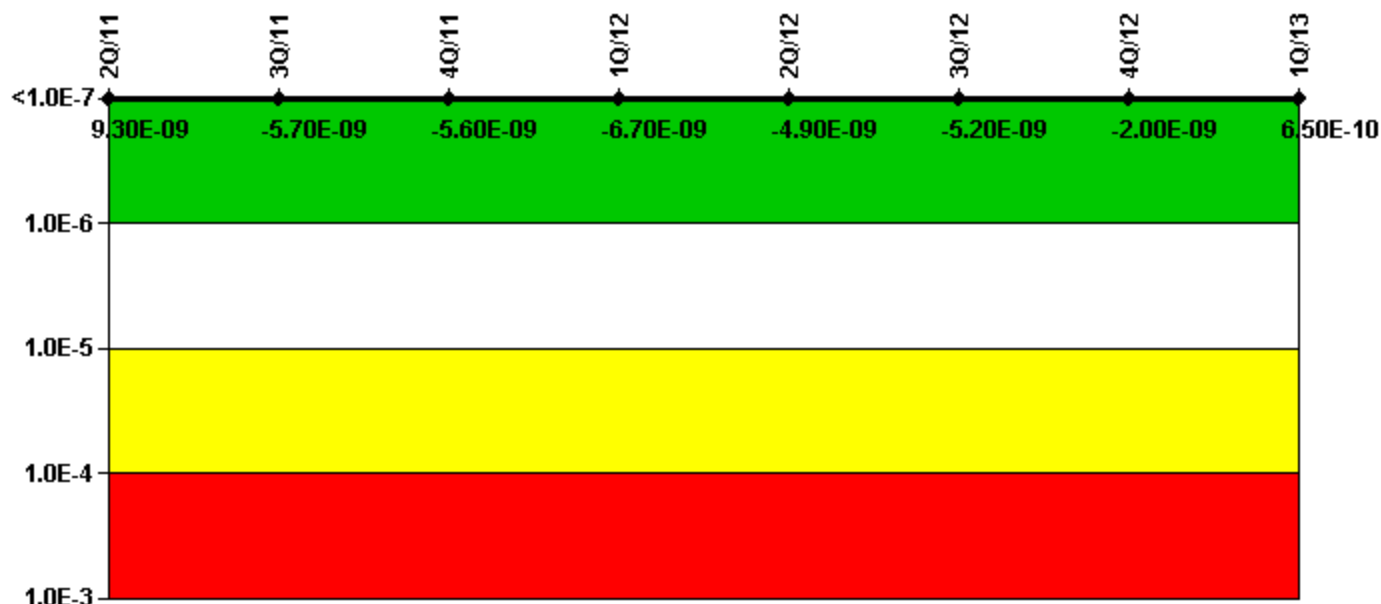
Notes

Safety System Functional Failures (BWR)	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	0	1	0	0	0	0	0	0
Indicator value	1	2	2	1	1	0	0	0

Licensee Comments:

3Q/11: LER 2011-003-00, High Pressure Coolant Injection System Turbine Control Valve failed to Fully Close After testing, Limerick Unit 1 issued 8/22/11.

Mitigating Systems Performance Index, Emergency AC Power System



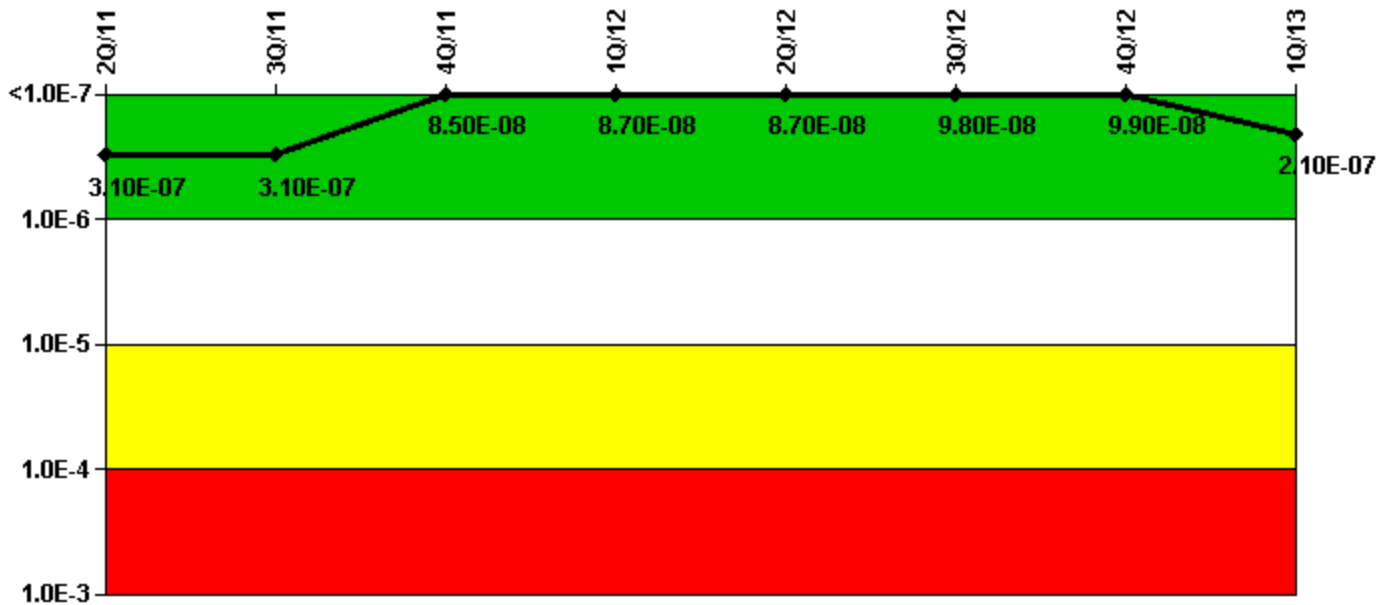
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	2.21E-09	1.86E-09	8.48E-10	-1.66E-10	-1.22E-10	-1.24E-10	2.32E-09	4.86E-09
URI (Δ CDF)	7.10E-09	-7.58E-09	-6.45E-09	-6.58E-09	-4.78E-09	-5.12E-09	-4.27E-09	-4.21E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.30E-09	-5.70E-09	-5.60E-09	-6.70E-09	-4.90E-09	-5.20E-09	-2.00E-09	6.50E-10

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



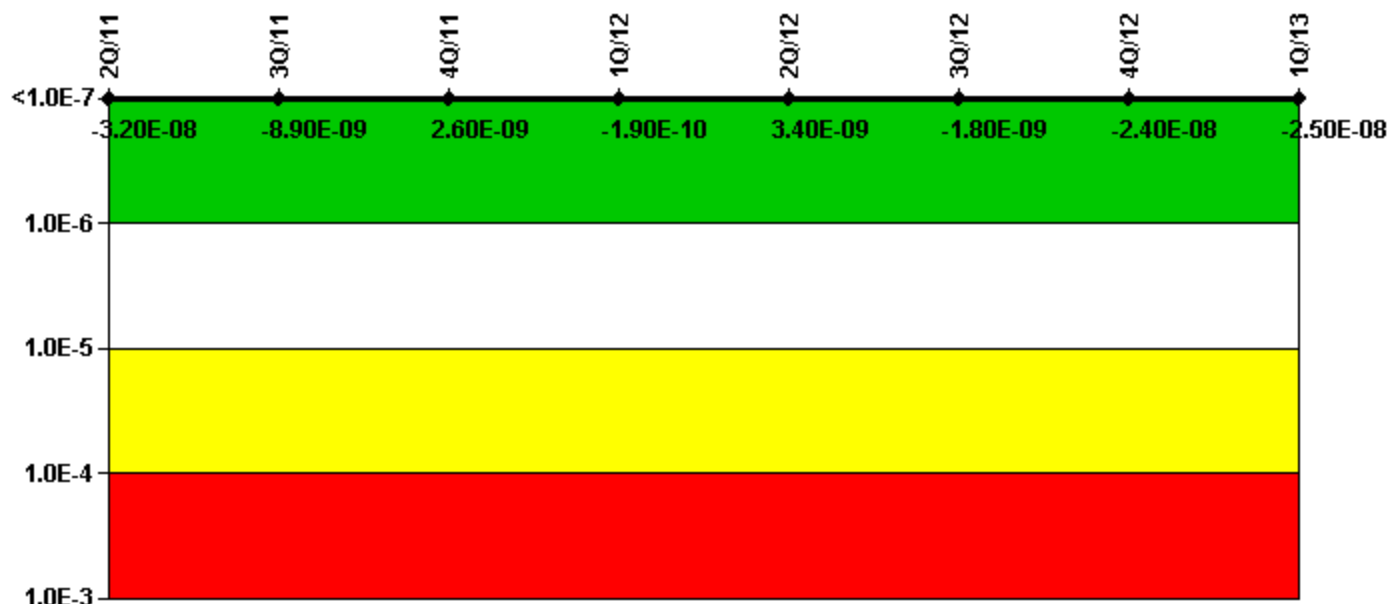
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	2.44E-08	2.44E-08	2.26E-08	2.42E-08	2.43E-08	3.60E-08	3.63E-08	3.99E-08
URI (Δ CDF)	2.90E-07	2.90E-07	6.26E-08	6.25E-08	6.25E-08	6.24E-08	6.24E-08	1.71E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.10E-07	3.10E-07	8.50E-08	8.70E-08	8.70E-08	9.80E-08	9.90E-08	2.10E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



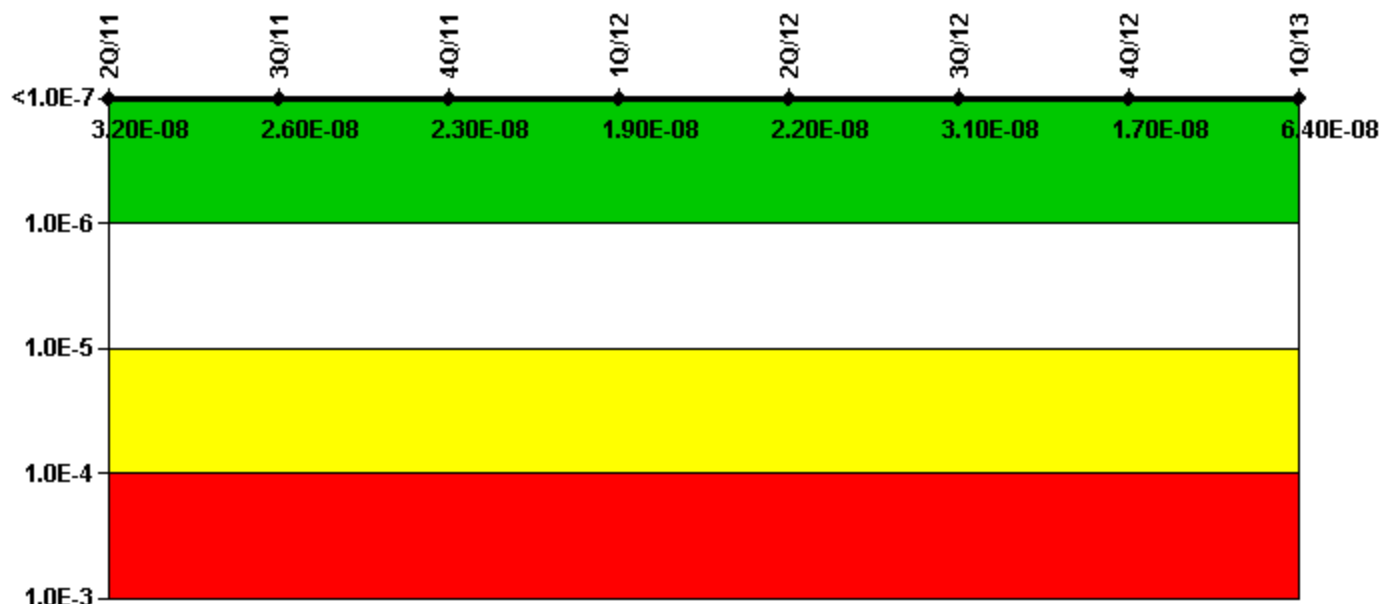
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	-4.17E-09	1.85E-08	3.00E-08	2.72E-08	3.08E-08	2.56E-08	3.69E-09	2.55E-09
URI (ΔCDF)	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.20E-08	-8.90E-09	2.60E-09	-1.90E-10	3.40E-09	-1.80E-09	-2.40E-08	-2.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



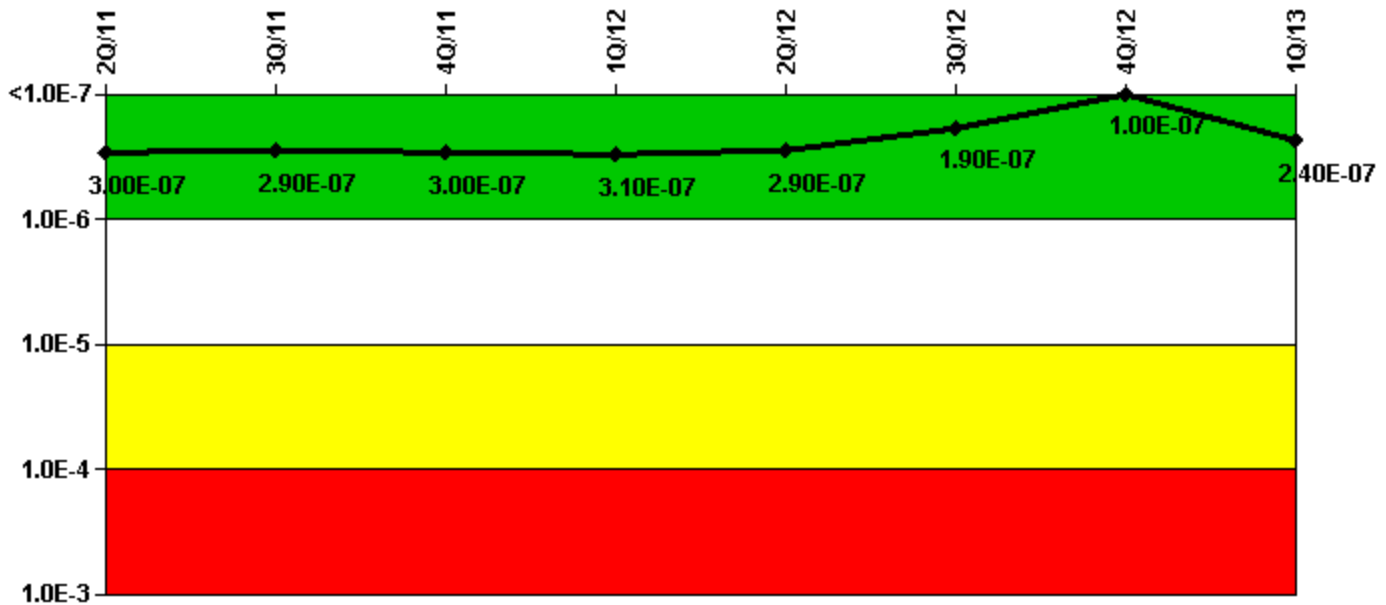
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	3.36E-08	2.71E-08	2.47E-08	2.06E-08	2.43E-08	3.31E-08	1.87E-08	6.54E-08
URI (ΔCDF)	-1.13E-09	-1.11E-09	-1.76E-09	-1.99E-09	-1.96E-09	-1.92E-09	-1.92E-09	-1.77E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.20E-08	2.60E-08	2.30E-08	1.90E-08	2.20E-08	3.10E-08	1.70E-08	6.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

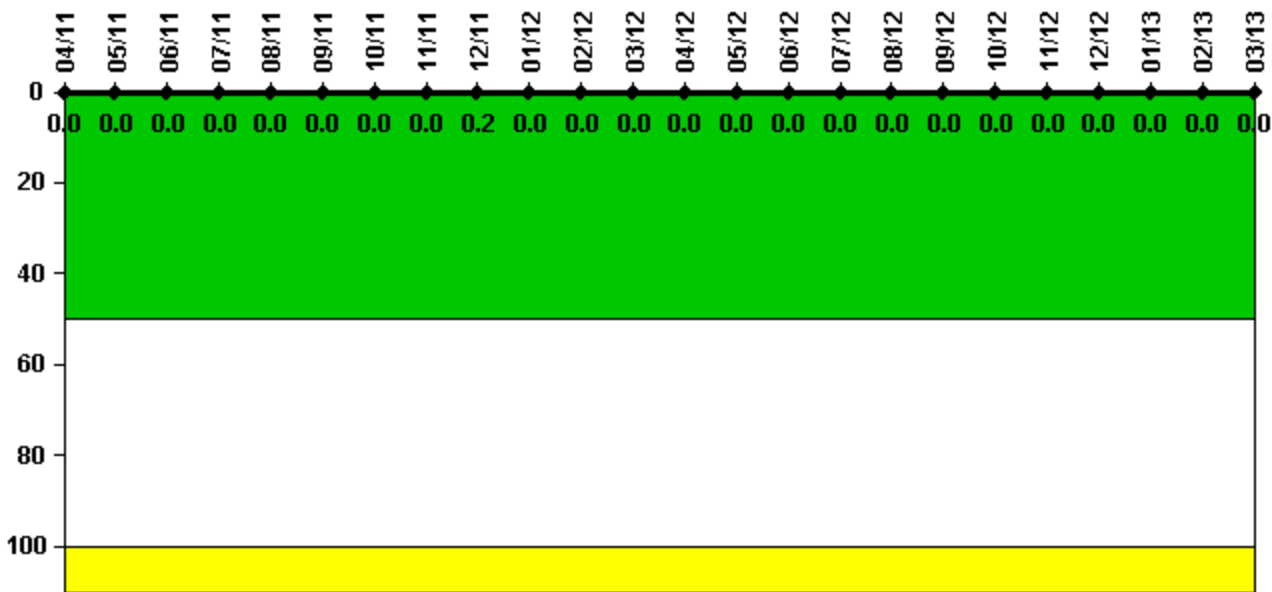
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	3.34E-07	3.23E-07	3.31E-07	3.41E-07	3.18E-07	2.23E-07	1.35E-07	2.67E-07
URI (ΔCDF)	-2.85E-08	-2.92E-08	-3.01E-08	-3.06E-08	-3.10E-08	-3.13E-08	-3.15E-08	-2.96E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.00E-07	2.90E-07	3.00E-07	3.10E-07	2.90E-07	1.90E-07	1.00E-07	2.40E-07

Licensee Comments:

1Q/12: LGS MSPI Basis Document revision 4 was effective on 01/01/12. This was approved and issued on 12/15/11. This revision incorporated FAQs 11-01 (CW), 11-06, 11-07, 11-08 (EDGs) and other minor changes. No PRA data or factors were changed and there was no impact to historical PI data.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

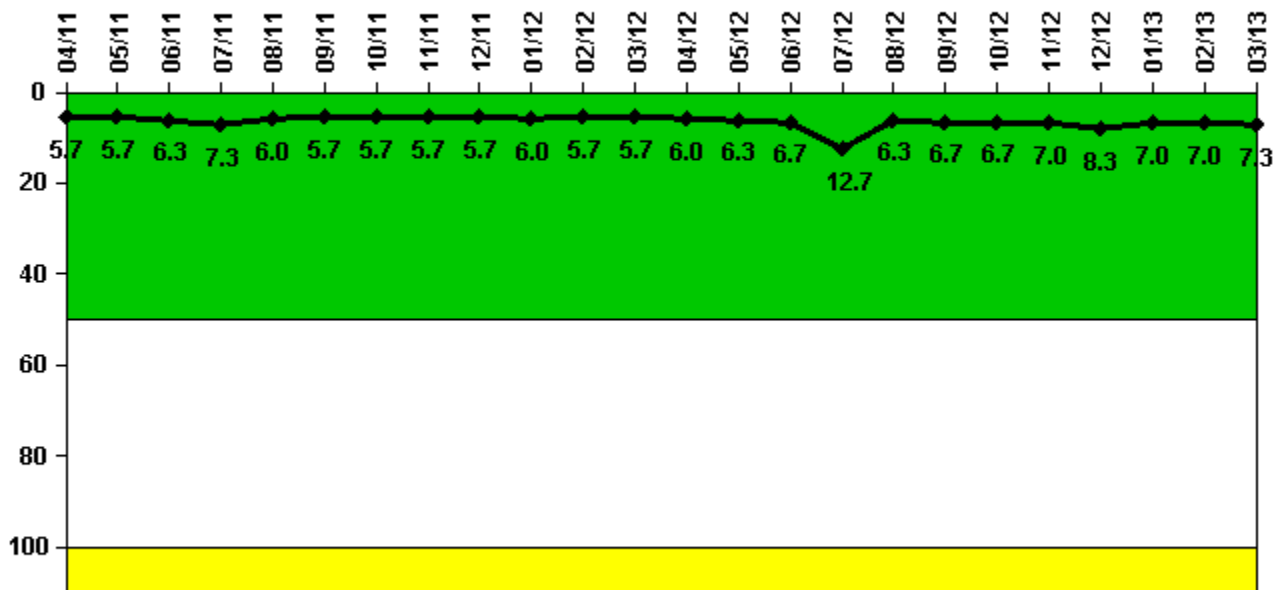
Notes

Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000002	0.000003	0.000020	0.000005	0.000004	0.000003	0.000003	0.000003	0.000311	0.000008	0.000004	0.000007
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	0.2	0	0	0

Reactor Coolant System Activity	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum activity	0.000003	0.000003	0.000003	0.000005	0.000006	0.000003	0.000003	0.000002	0.000003	0.000003	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	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

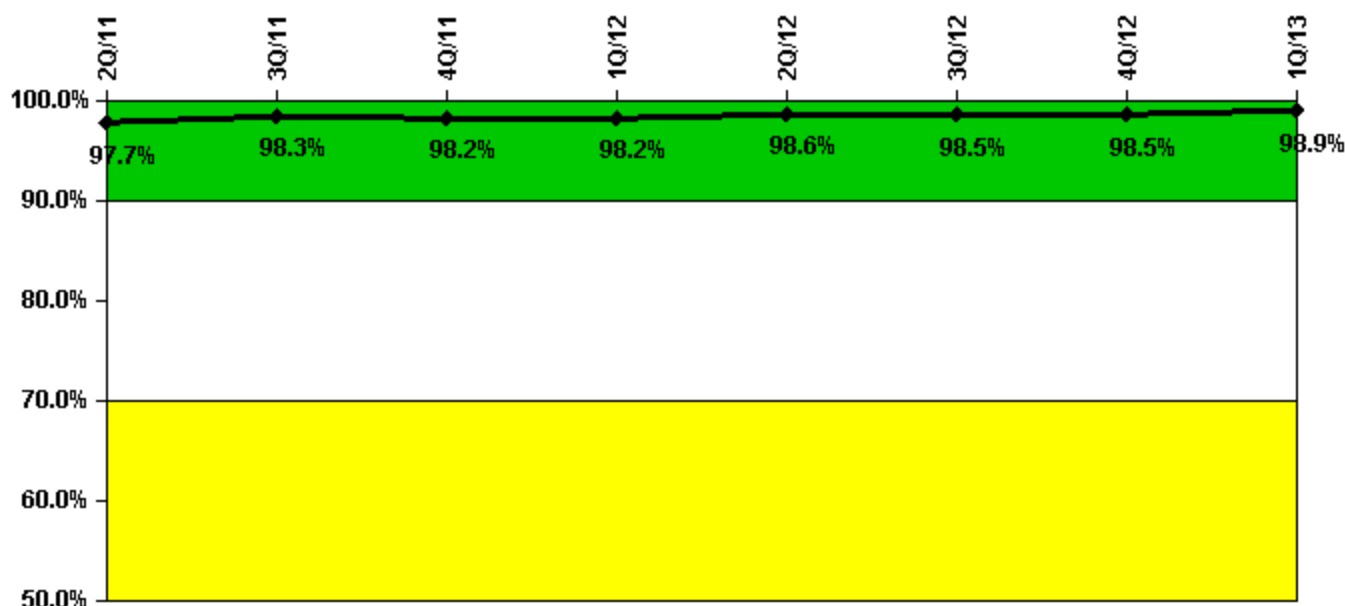
Notes

Reactor Coolant System Leakage	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum leakage	1.700	1.700	1.900	2.200	1.800	1.700	1.700	1.700	1.700	1.800	1.700	1.700
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	5.7	5.7	6.3	7.3	6.0	5.7	5.7	5.7	5.7	6.0	5.7	5.7

Reactor Coolant System Leakage	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum leakage	1.800	1.900	2.000	3.800	1.900	2.000	2.000	2.100	2.500	2.100	2.100	2.200
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	6.7	12.7	6.3	6.7	6.7	7.0	8.3	7.0	7.0	7.3

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

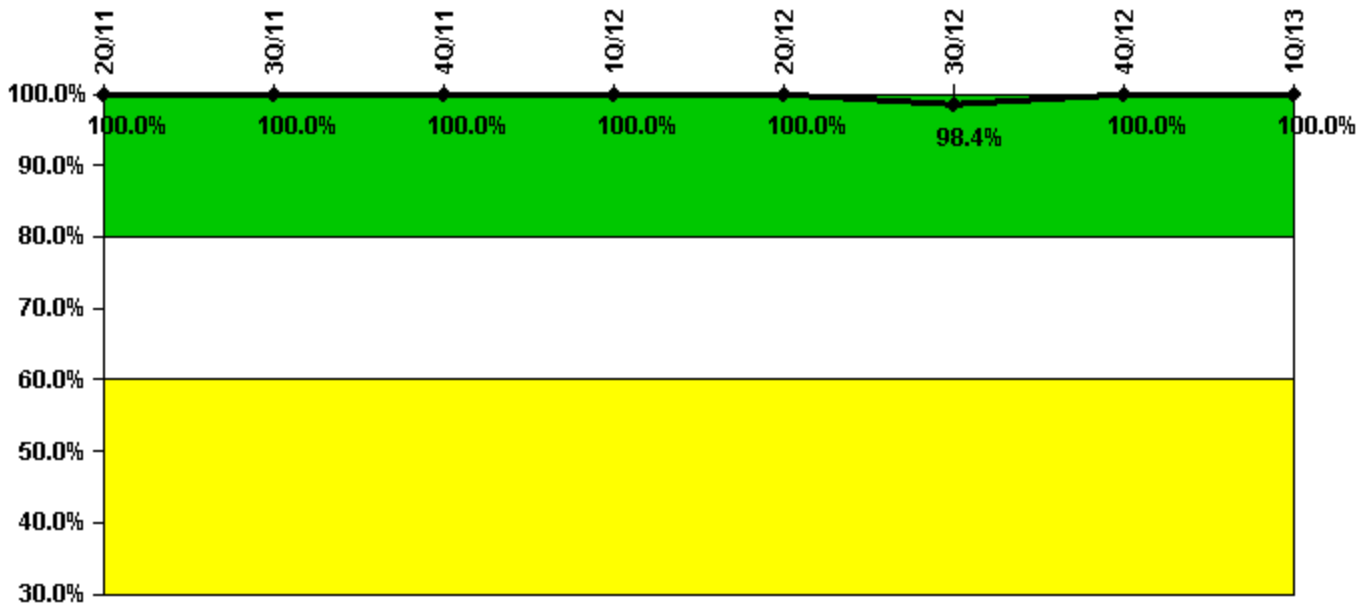
Drill/Exercise Performance	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful opportunities	20.0	112.0	56.0	6.0	73.0	26.0	28.0	24.0
Total opportunities	20.0	113.0	57.0	6.0	73.0	28.0	28.0	24.0
Indicator value	97.7%	98.3%	98.2%	98.2%	98.6%	98.5%	98.5%	98.9%

Licensee Comments:

4Q/12: Total and Successful number of DEP opportunities data was corrected for Oct 2012. Oct 2012 data changed from 16 to 17 to include a DEP opportunity from an Ops Training Drill/Exercise held in Oct 2012. Quarterly data changed from 27 to 28 total opportunities. No threshold changes occurred (4/15/13).

1Q/12: Total and Successful number of DEP opportunities data was corrected for Jan and Mar 2012. Jan and Mar 2012 data changed from 0 to 3 to include DEP opportunities from Peach Bottom Drill/Exercises held in Jan and Mar 2012 where the shared Emergency Offsite Facility (EOF) participated. Quarterly data changed from 0 to 6. No threshold changes occurred (4/15/13).

ERO Drill Participation



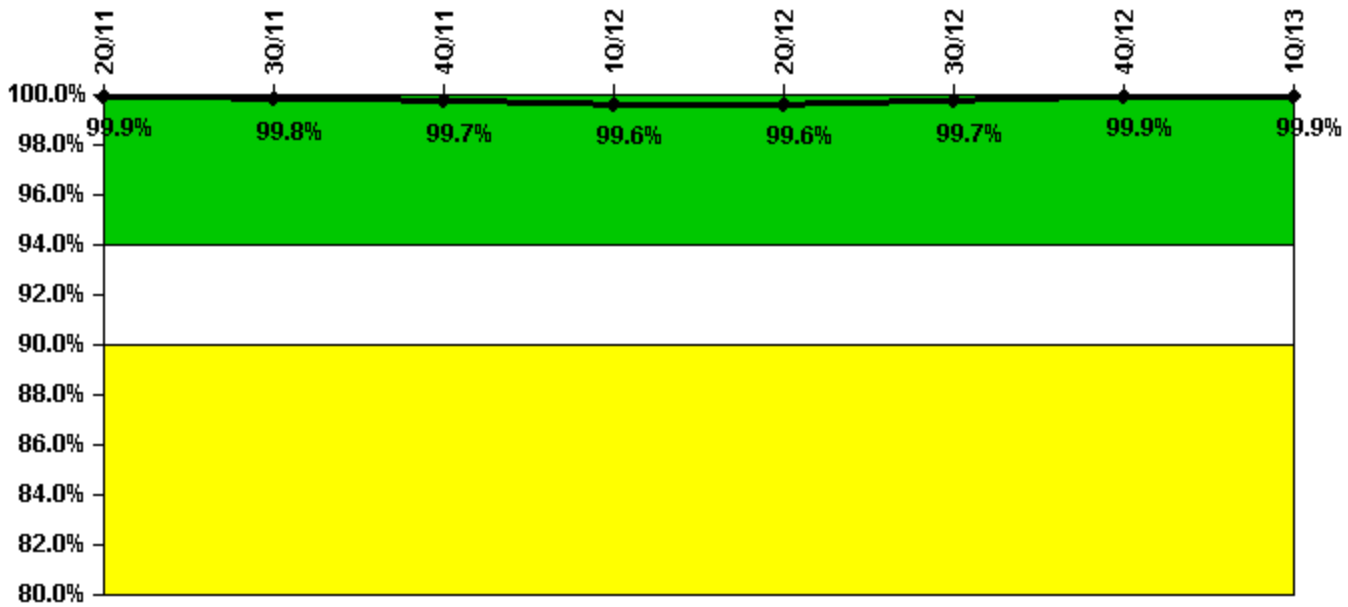
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Participating Key personnel	64.0	63.0	65.0	64.0	66.0	62.0	65.0	68.0
Total Key personnel	64.0	63.0	65.0	64.0	66.0	63.0	65.0	68.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	98.4%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



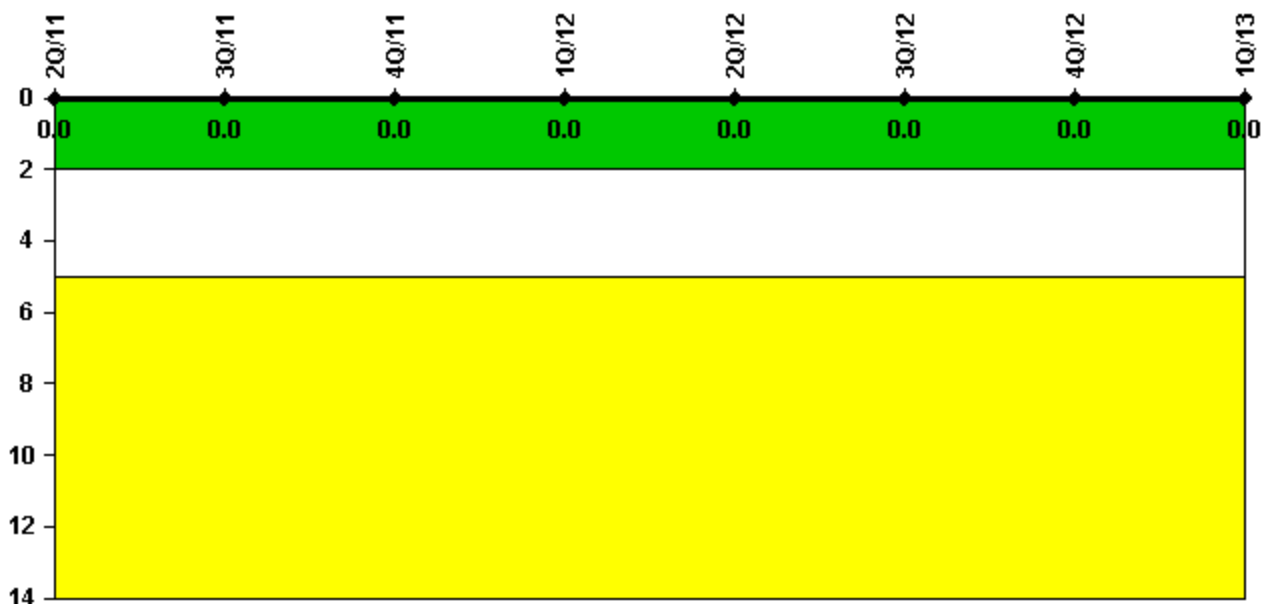
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful siren-tests	2144	2136	2128	2141	2143	2141	2309	1980
Total sirens-tests	2145	2145	2145	2145	2145	2145	2310	1980
Indicator value	99.9%	99.8%	99.7%	99.6%	99.6%	99.7%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

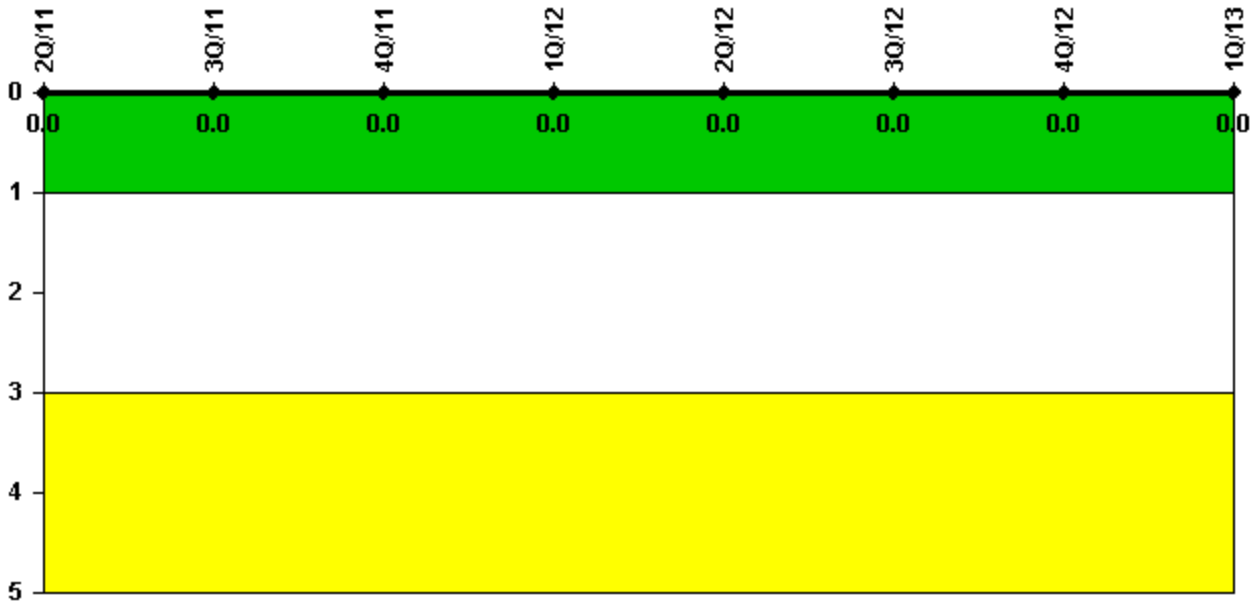
Notes

Occupational Exposure Control Effectiveness	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
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:

2Q/11: The NRC has determined that the event was not a performance indicator occurrence during the Limerick Radiation Instruments inspection from December 12-16, 2011. There is no Color Change associated with this event.

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
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, 2013