

Millstone 2

3Q/2012 Performance Indicators

Licensee's General Comments: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the Emergency AC Power MSPI indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

Unplanned Scrams per 7000 Critical Hrs



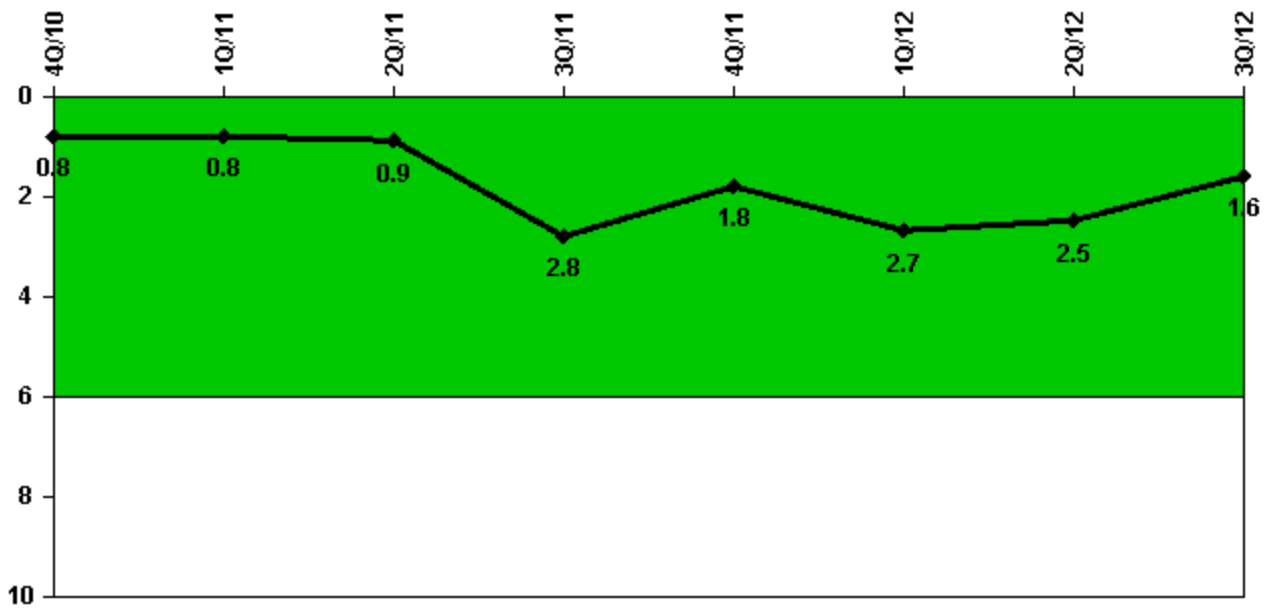
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned scrams	1.0	0	1.0	0	0	0	0	0
Critical hours	2134.5	2159.0	1408.9	1879.7	2209.0	2183.0	2184.0	1936.0
Indicator value	2.4	1.6	1.8	1.8	0.9	0.9	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



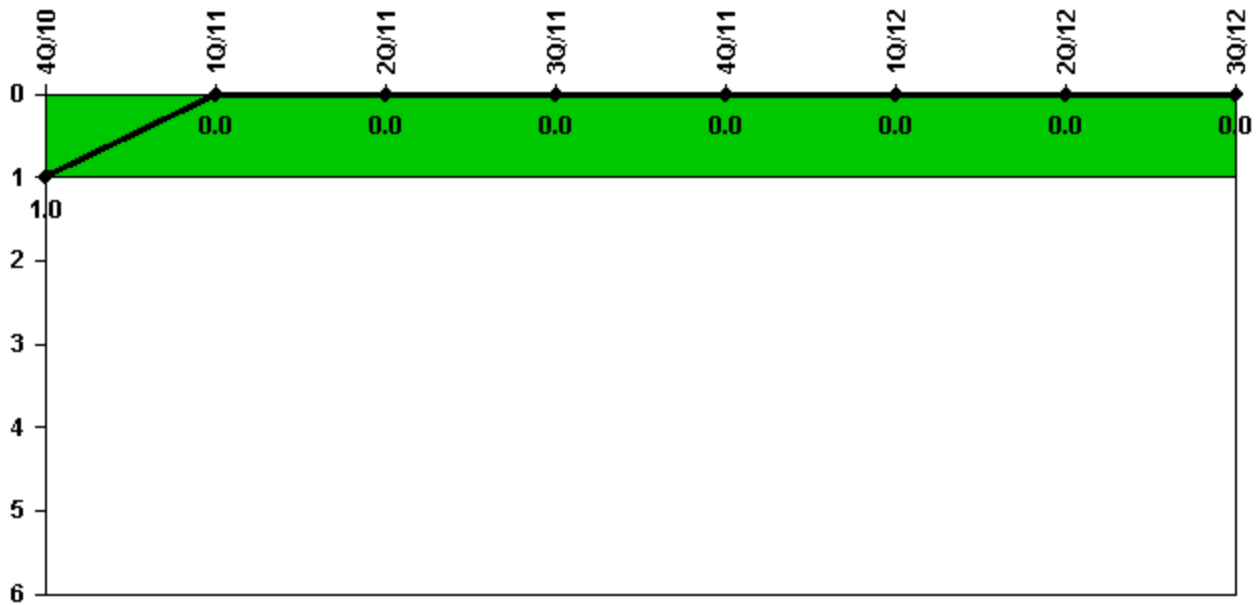
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	1.0	0	0	2.0	0	1.0	0	1.0
Critical hours	2134.5	2159.0	1408.9	1879.7	2209.0	2183.0	2184.0	1936.0
Indicator value	0.8	0.8	0.9	2.8	1.8	2.7	2.5	1.6

Licensee Comments: none

Unplanned Scrams with Complications



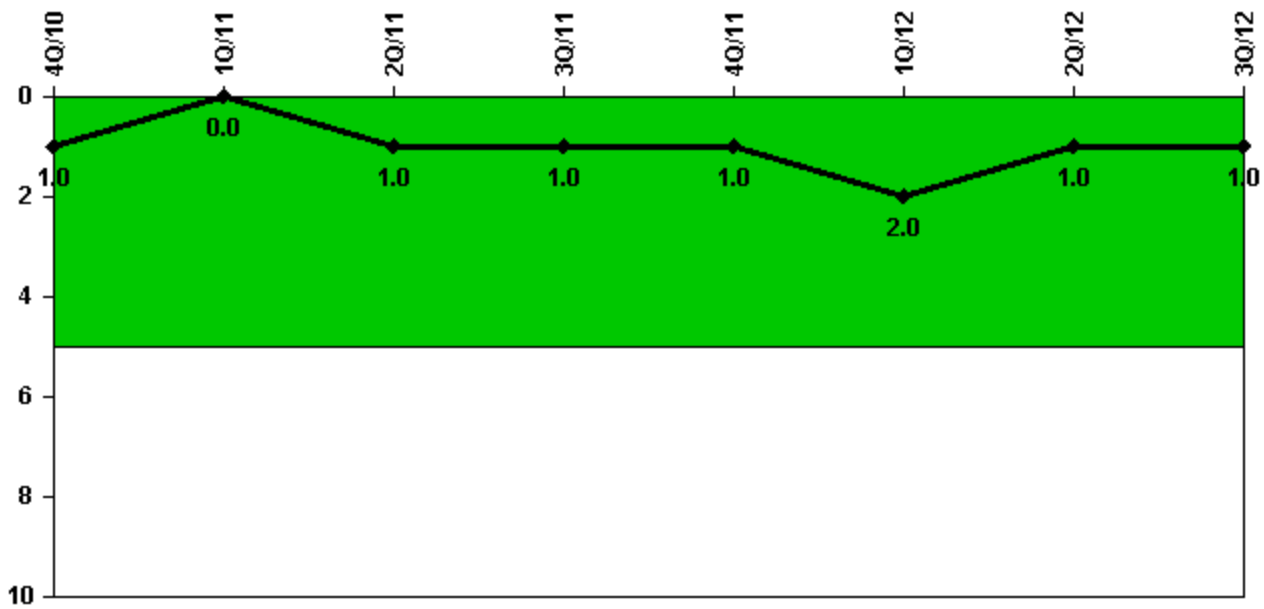
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	1.0	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

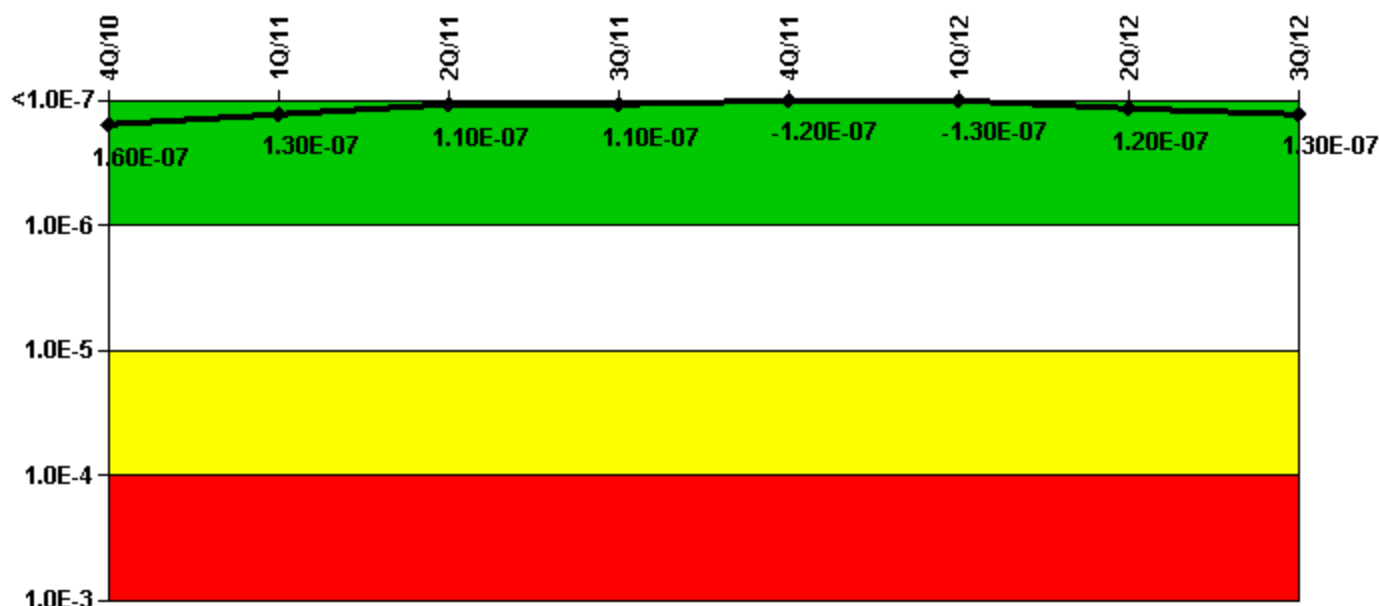
Notes

Safety System Functional Failures (PWR)	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Safety System Functional Failures	0	0	1	0	0	1	0	0
Indicator value	1	0	1	1	1	2	1	1

Licensee Comments:

2Q/11: LER 2011-001-00

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/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	1.58E-07	1.31E-07	4.11E-08	4.14E-08	3.20E-08	2.02E-08	4.15E-08	3.94E-08
URI (Δ CDF)	3.00E-09	4.77E-10	7.10E-08	6.92E-08	-1.55E-07	-1.55E-07	8.19E-08	8.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.60E-07	1.30E-07	1.10E-07	1.10E-07	-1.20E-07	-1.30E-07	1.20E-07	1.30E-07

Licensee Comments:

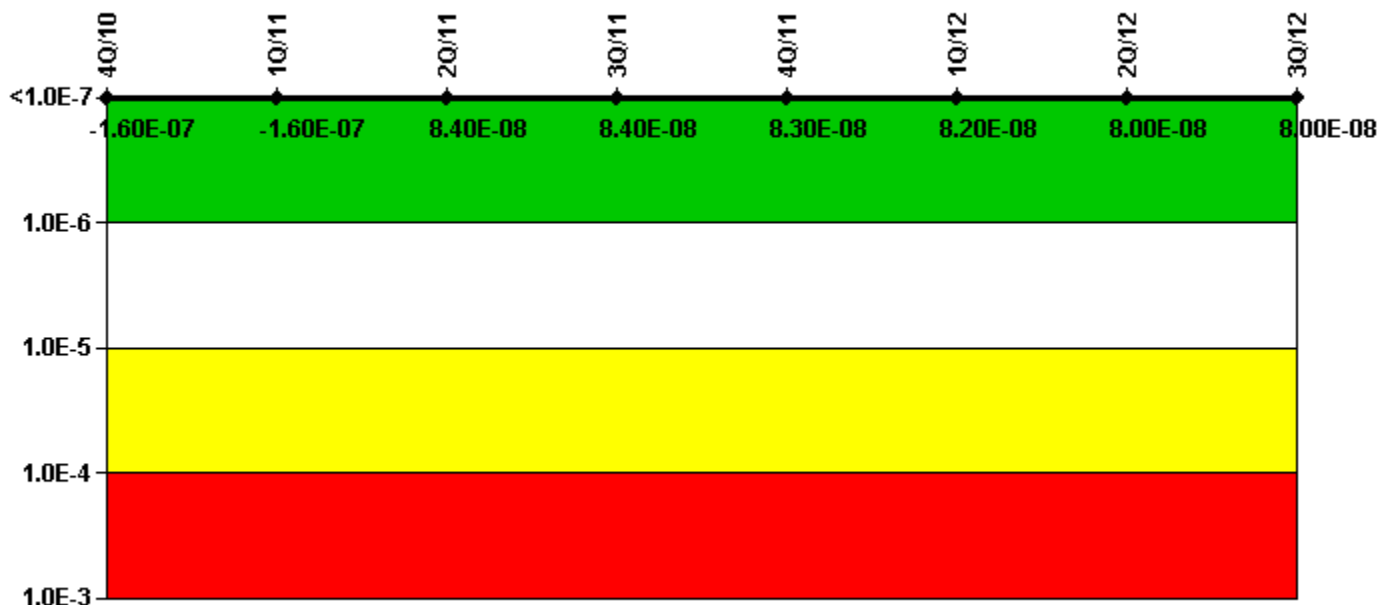
3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

Mitigating Systems Performance Index, High Pressure Injection System



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

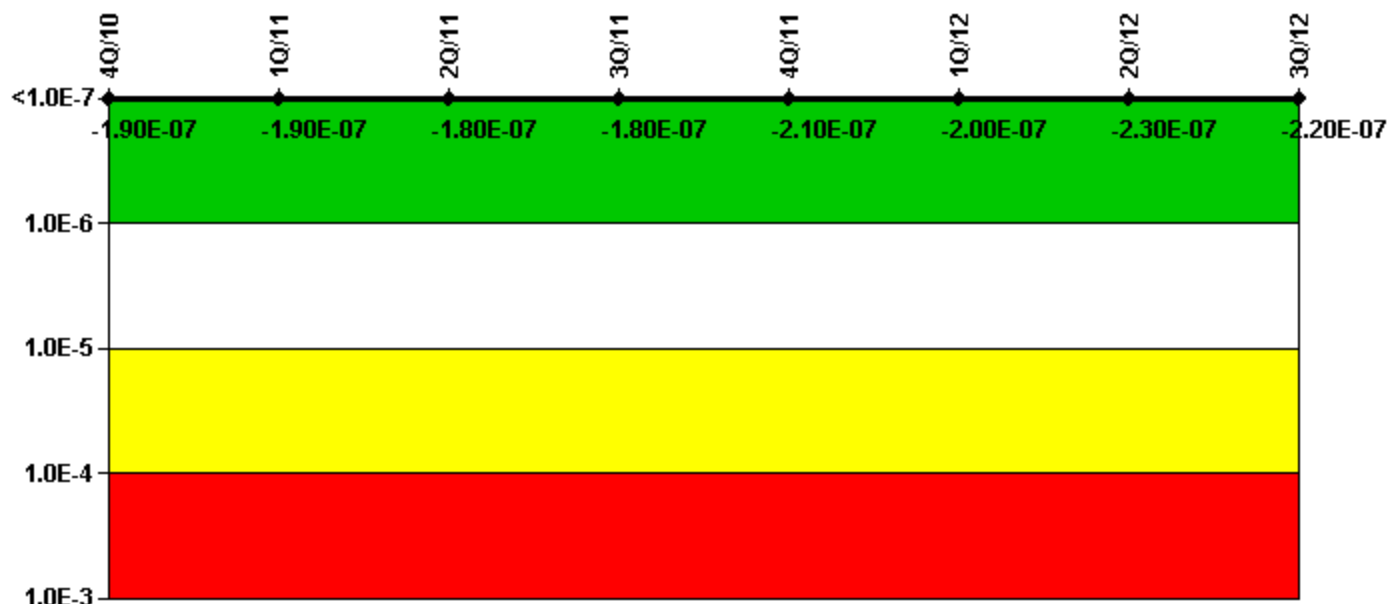
Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	-2.73E-07	-2.73E-07	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08
URI (ΔCDF)	1.17E-07	1.17E-07	1.48E-07	1.48E-07	1.46E-07	1.46E-07	1.44E-07	1.43E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-07	-1.60E-07	8.40E-08	8.40E-08	8.30E-08	8.20E-08	8.00E-08	8.00E-08

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

Mitigating Systems Performance Index, Heat Removal System



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

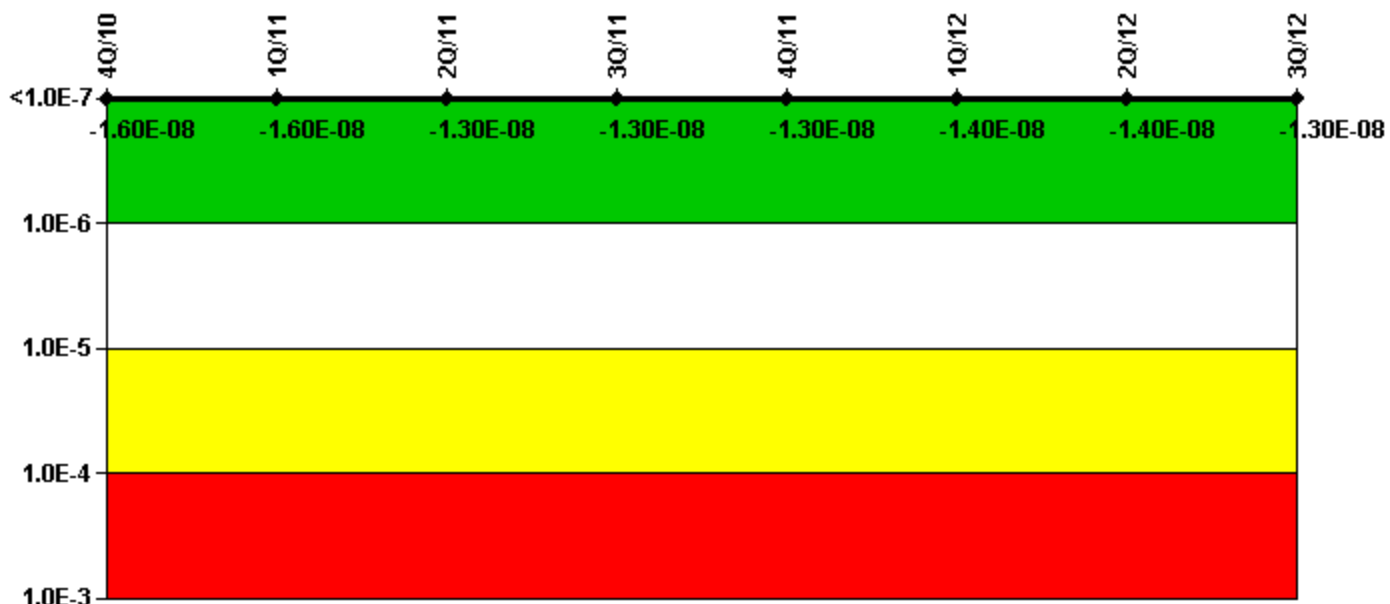
Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-4.30E-08	-4.26E-08	-4.63E-08	-4.17E-08	-7.48E-08	-6.15E-08	-8.75E-08	-8.74E-08
URI (Δ CDF)	-1.50E-07	-1.50E-07	-1.33E-07	-1.38E-07	-1.36E-07	-1.37E-07	-1.38E-07	-1.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-1.90E-07	-1.80E-07	-1.80E-07	-2.10E-07	-2.00E-07	-2.30E-07	-2.20E-07

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

Mitigating Systems Performance Index, Residual Heat Removal System



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

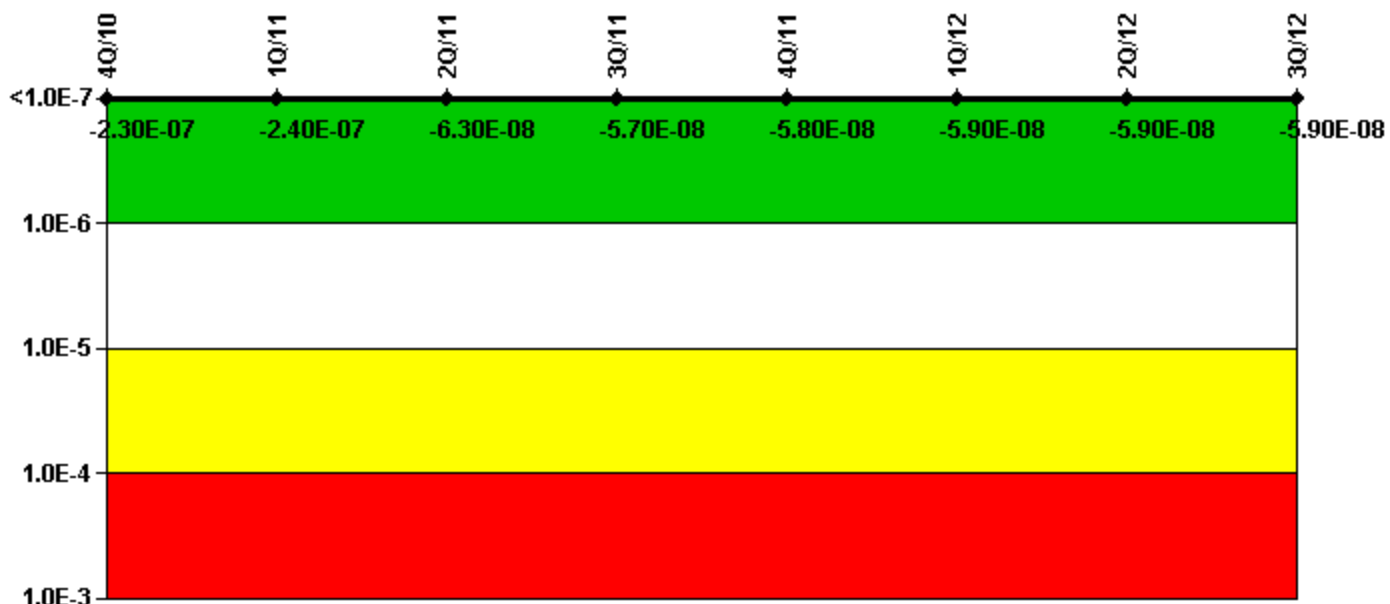
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-4.58E-10	-6.64E-10	-2.08E-10	-1.82E-10	-1.95E-10	-1.95E-10	-1.98E-10	-2.08E-10
URI (Δ CDF)	-1.53E-08	-1.55E-08	-1.32E-08	-1.31E-08	-1.33E-08	-1.35E-08	-1.36E-08	-1.29E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.40E-08	-1.40E-08	-1.30E-08

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

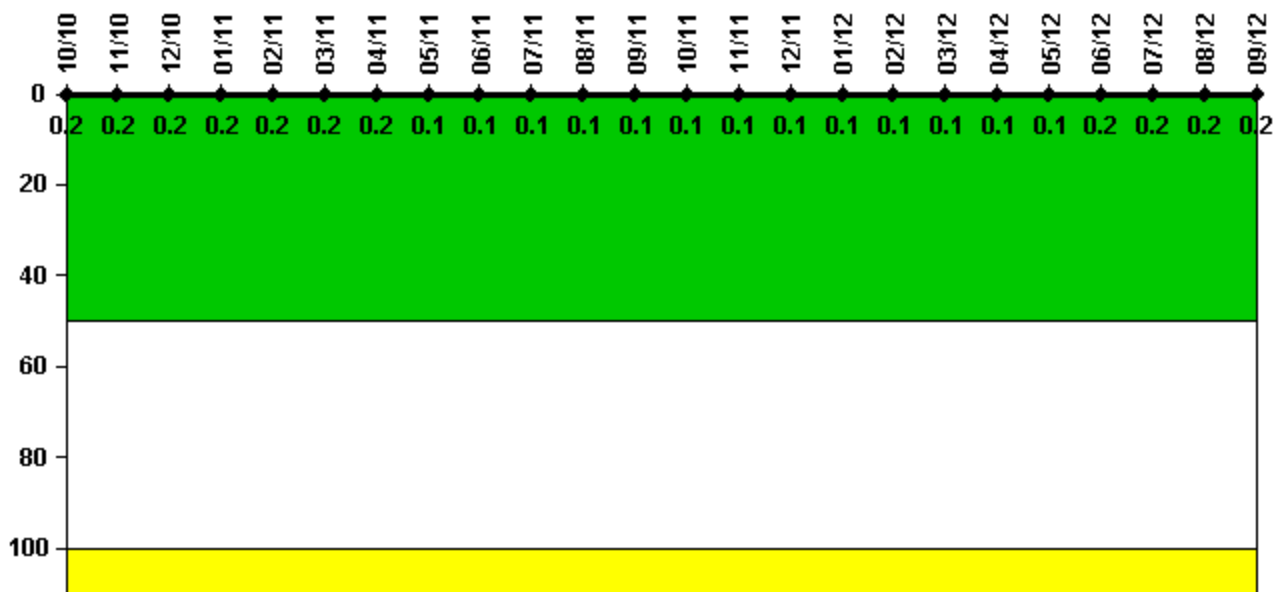
Mitigating Systems Performance Index, Cooling Water Systems	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-3.61E-08	-3.61E-08	-1.40E-09	5.34E-09	5.34E-09	5.33E-09	5.05E-09	4.97E-09
URI (Δ CDF)	-1.98E-07	-1.99E-07	-6.20E-08	-6.28E-08	-6.35E-08	-6.42E-08	-6.42E-08	-6.42E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-07	-2.40E-07	-6.30E-08	-5.70E-08	-5.80E-08	-5.90E-08	-5.90E-08	-5.90E-08

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

1Q/11: Changed PRA Parameter(s).

Reactor Coolant System Activity



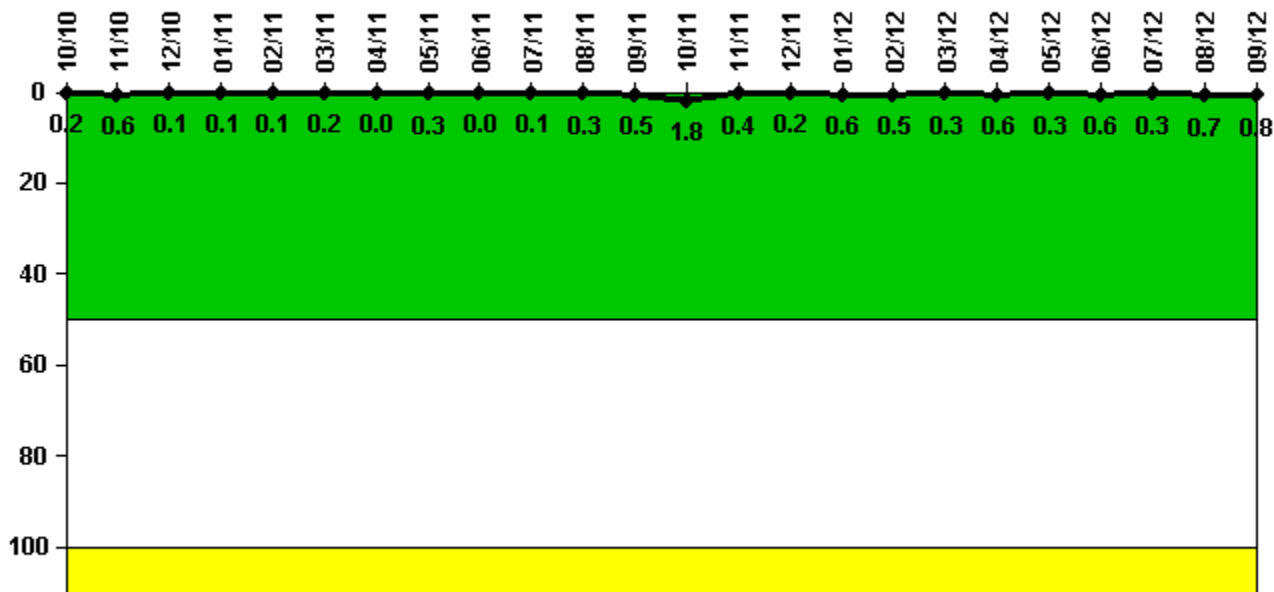
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum activity	0.001730	0.002030	0.001930	0.002020	0.002020	0.002460	0.002130	0.000863	0.000989	0.001300	0.001040	0.001040
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum activity	0.001140	0.001210	0.001210	0.001250	0.001320	0.001450	0.001420	0.001430	0.001540	0.001600	0.001580	0.002050
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	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

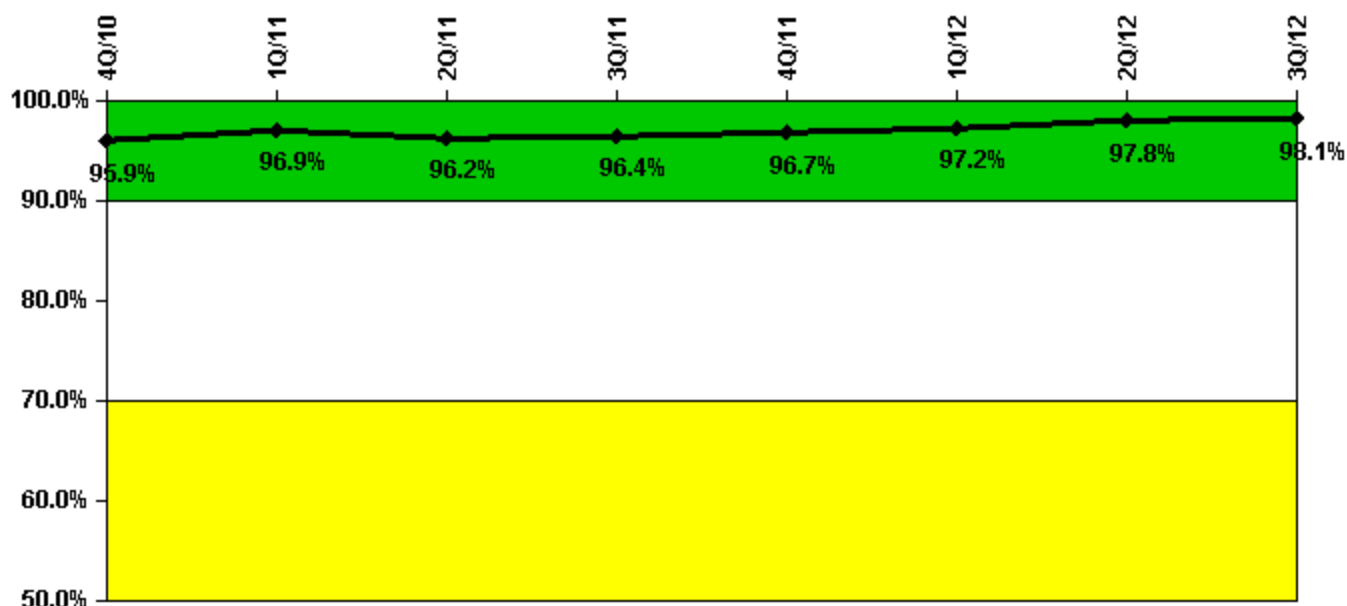
Notes

Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	0.018	0.056	0.009	0.014	0.005	0.022	0	0.033	0.002	0.013	0.028	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	0.2	0.6	0.1	0.1	0.1	0.2	0	0.3	0	0.1	0.3	0.5

Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	0.180	0.037	0.021	0.055	0.045	0.031	0.061	0.034	0.060	0.031	0.067	0.076
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	1.8	0.4	0.2	0.6	0.5	0.3	0.6	0.3	0.6	0.3	0.7	0.8

Licensee Comments: none

Drill/Exercise Performance



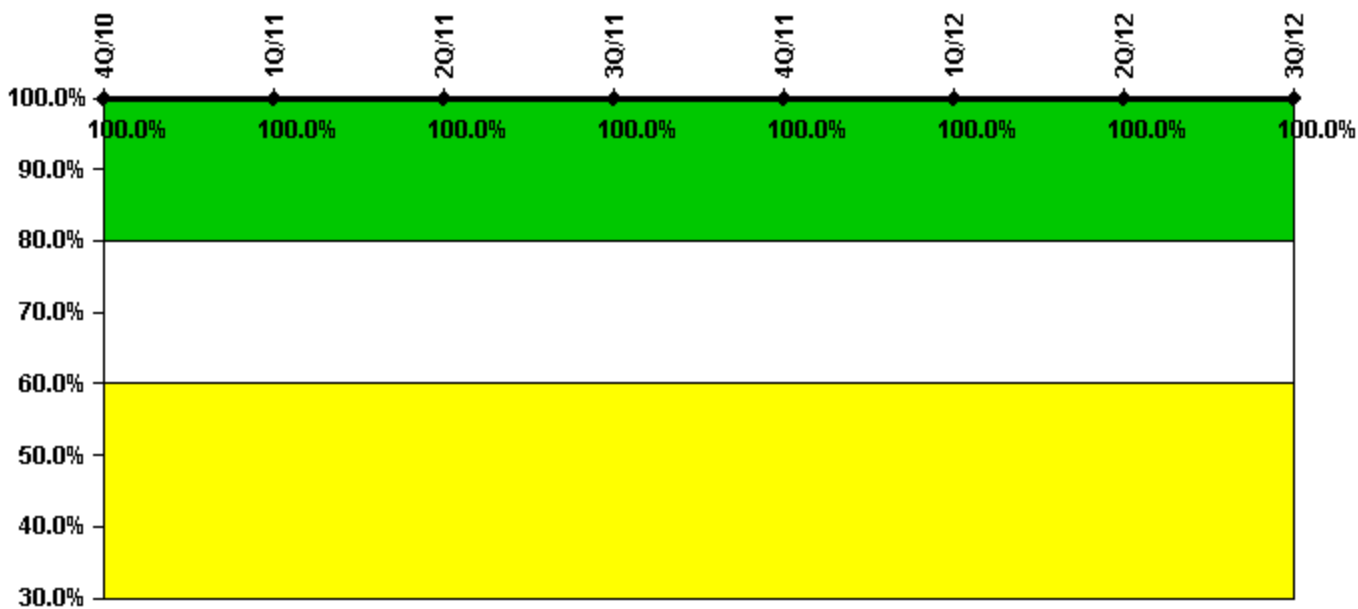
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	41.0	31.0	41.0	43.0	27.0	34.0	32.0	58.0
Total opportunities	43.0	31.0	44.0	43.0	27.0	34.0	32.0	59.0
Indicator value	95.9%	96.9%	96.2%	96.4%	96.7%	97.2%	97.8%	98.1%

Licensee Comments: none

ERO Drill Participation



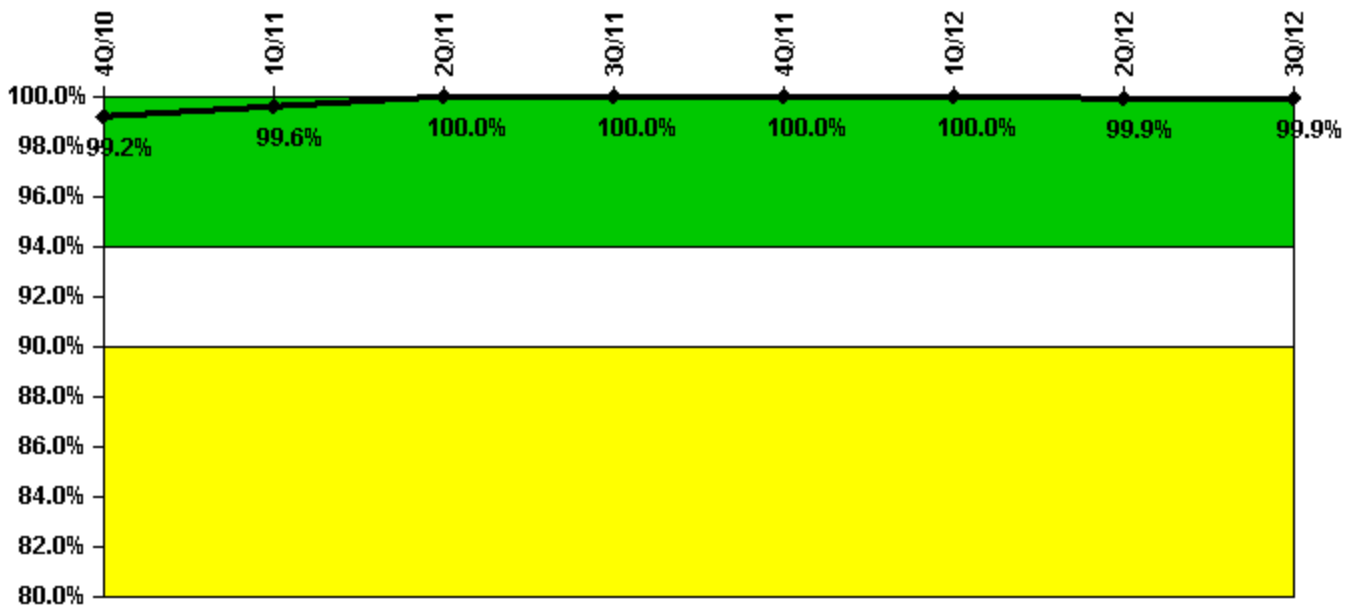
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Participating Key personnel	138.0	138.0	137.0	139.0	137.0	138.0	133.0	132.0
Total Key personnel	138.0	138.0	137.0	139.0	137.0	138.0	133.0	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



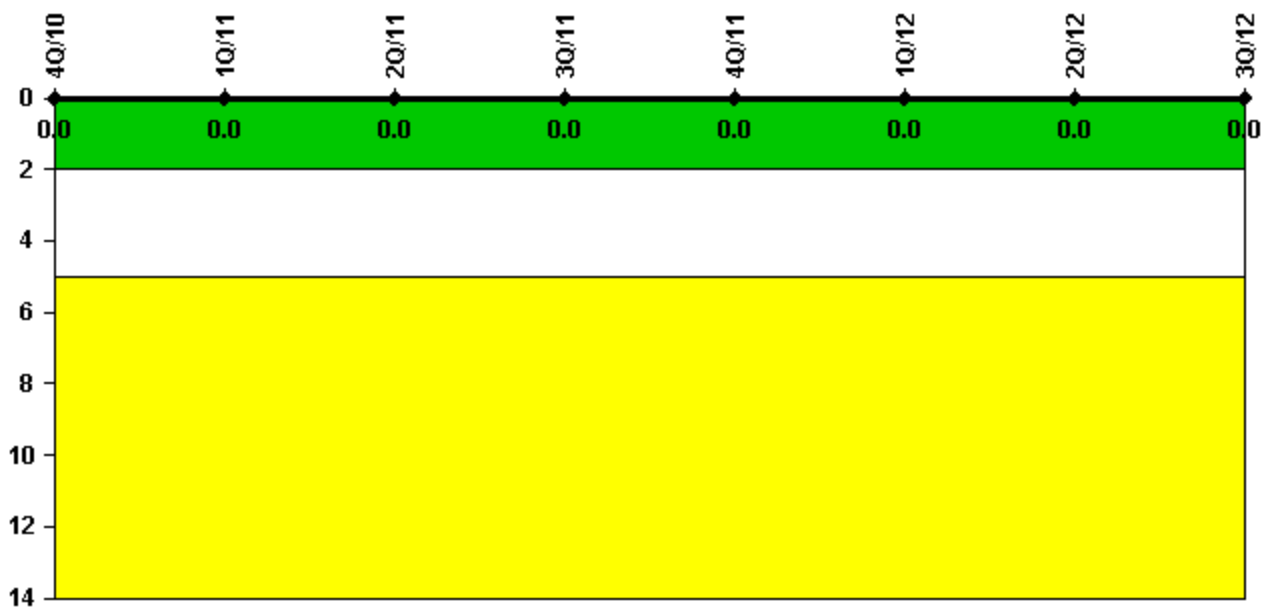
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	553	474	553	474	553	474	473	474
Total sirens-tests	553	474	553	474	553	474	474	474
Indicator value	99.2%	99.6%	100.0%	100.0%	100.0%	100.0%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



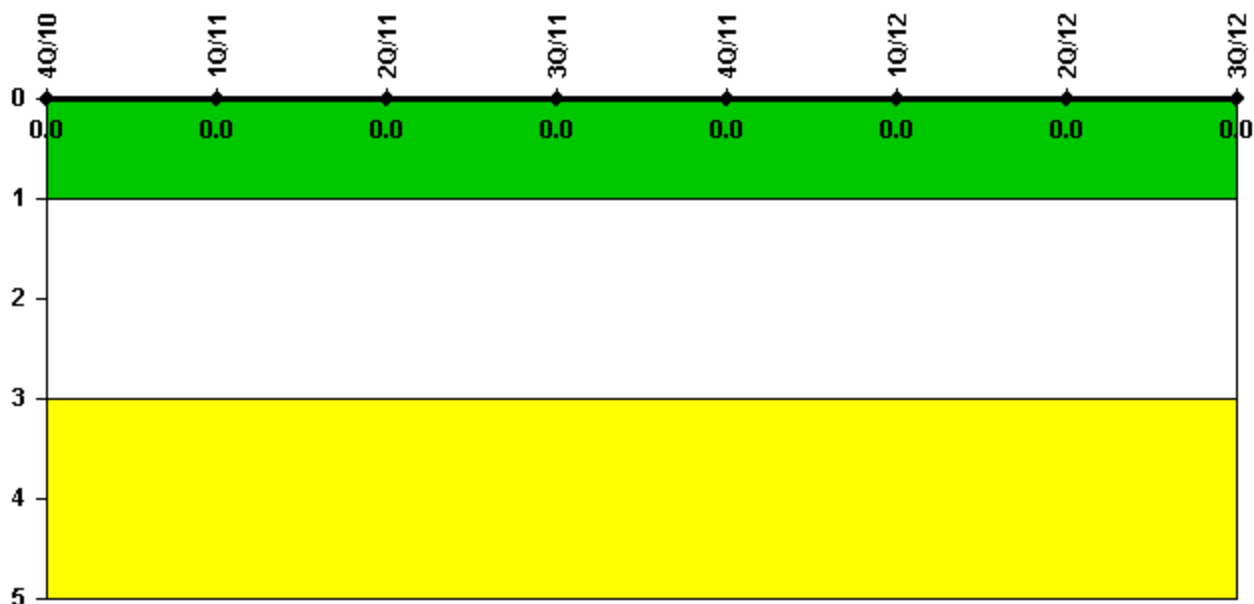
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
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/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
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: October 24, 2012