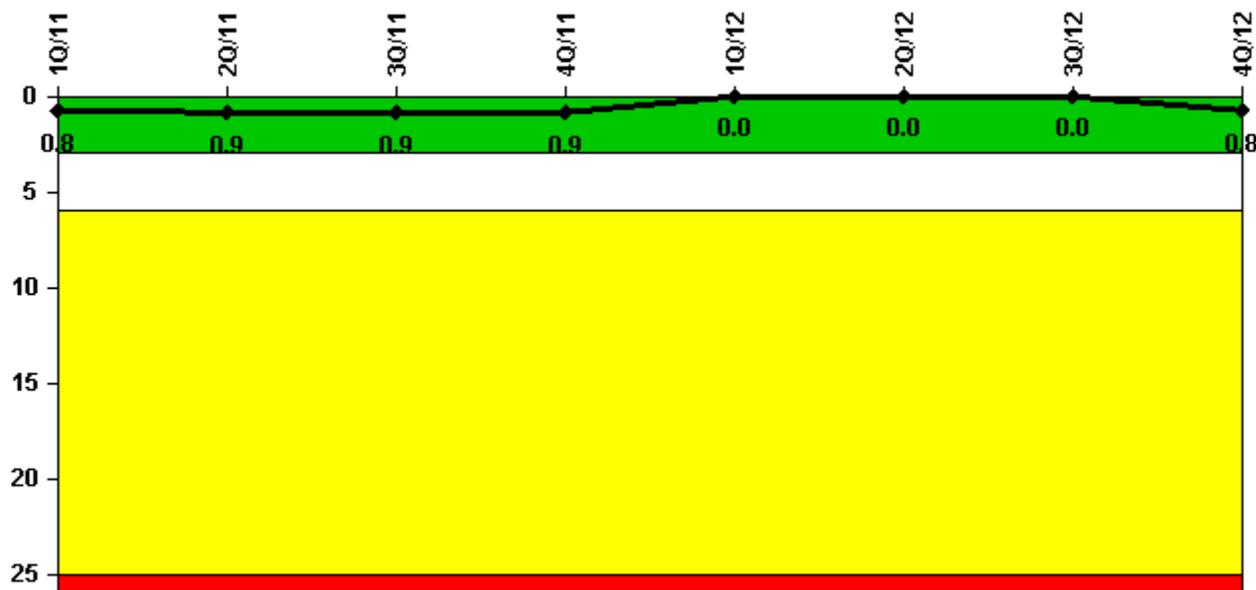


Diablo Canyon 2

4Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

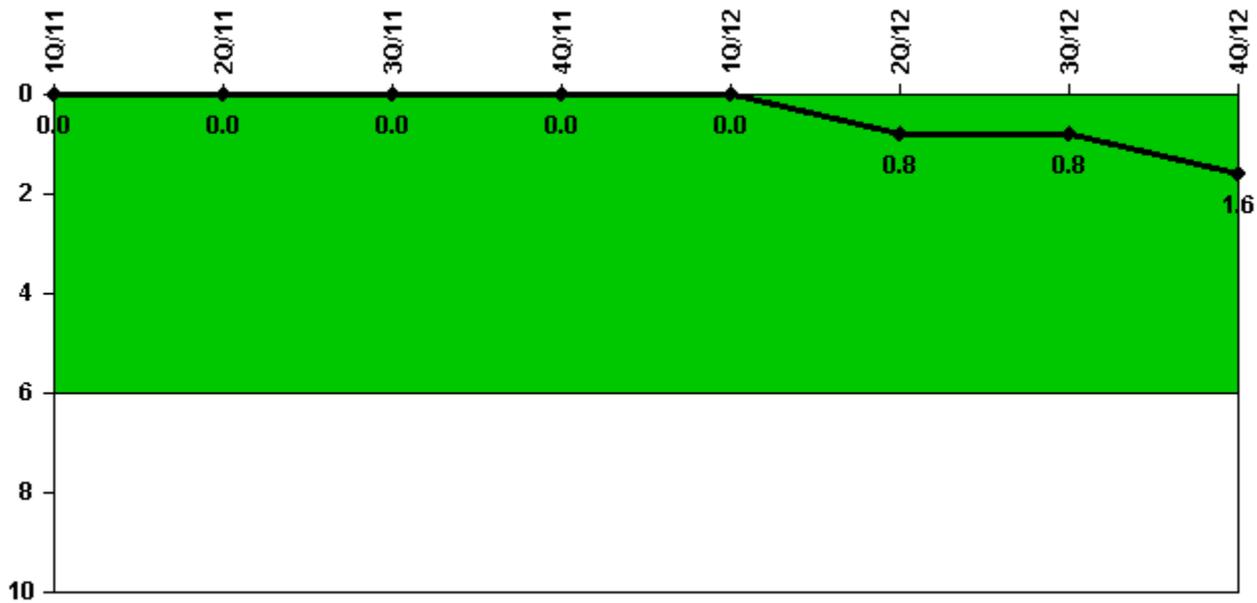
Unplanned Scrams per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned scrams	1.0	0	0	0	0	0	0	1.0
Critical hours	2052.5	1340.4	2208.0	2209.0	2183.0	2130.8	2208.0	2114.5
Indicator value	0.8	0.9	0.9	0.9	0	0	0	0.8

Licensee Comments:

4Q/12: Diablo Canyon Unit 2 began the month of October in Mode 1 (Power Operation) at approximately 100 percent reactor power. On October 11th, an apparent electrical arc near the plant transformers resulted in an automatic shutdown. Preliminary investigation suggests that the electrical disturbance was caused by recent rain in the area coming into contact with material that may have built up on a bushing that connects to the Capacitive Coupled Voltage Transformer, which is used to transmit generation data to the Independent System Operator (ISO). These conditions may have caused the flashover event, providing a path to ground and Unit Trip signal. On October 17, 2012, the unit returned to approximately 100 percent reactor power.

1Q/11: On March 26, 2011 at 1449 PDT operators at Diablo Canyon Power Plant Unit 2 manually initiated a reactor trip in response to loss of main feedwater pump 2-1. Reference NRC EN# 46701

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	0	0	0	0	1.0	0	1.0
Critical hours	2052.5	1340.4	2208.0	2209.0	2183.0	2130.8	2208.0	2114.5
Indicator value	0	0	0	0	0	0.8	0.8	1.6

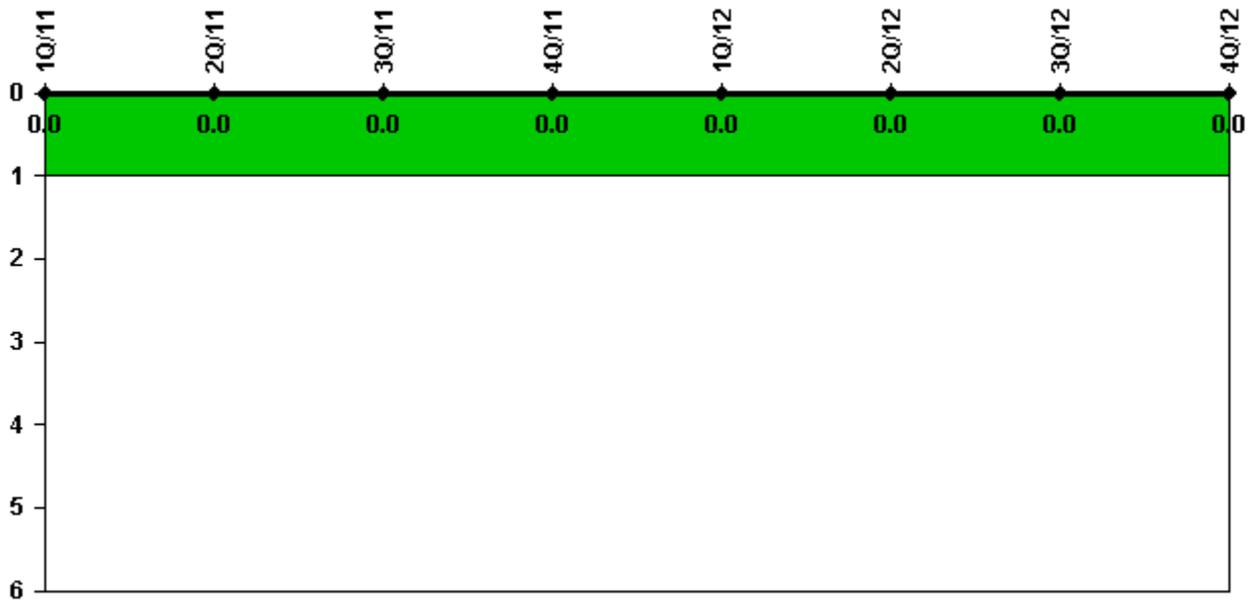
Licensee Comments:

4Q/12: Unplanned power change narrative added: On December 12, Diablo Canyon Unit 2 had an unplanned power change (power reduced to approximately 15%) to address Unit 2 main generator voltage fluctuations and replace two fuses needed for manual voltage regulator control and protective features. Work was completed on December 13th and Unit 2 was subsequently returned to full power.

2Q/12: On April 25, 2012, Unit 2 experienced an unplanned power change as a result of a salp influx. With the reactor at approximately 25 percent power, operators manually tripped circulating water pumps 1 and 2 due to differential pressure on the traveling screens caused by a significant increase salp. Operators then manually tripped the main turbine and manually shutdown the reactor. SAPN 50476376

3Q/11: A Unit 2 power reduction on 09/02/2011 was excluded per NEI 99-02, Rev. 6, Appendix D as it was the result of high swells and ocean debris.

Unplanned Scrams with Complications



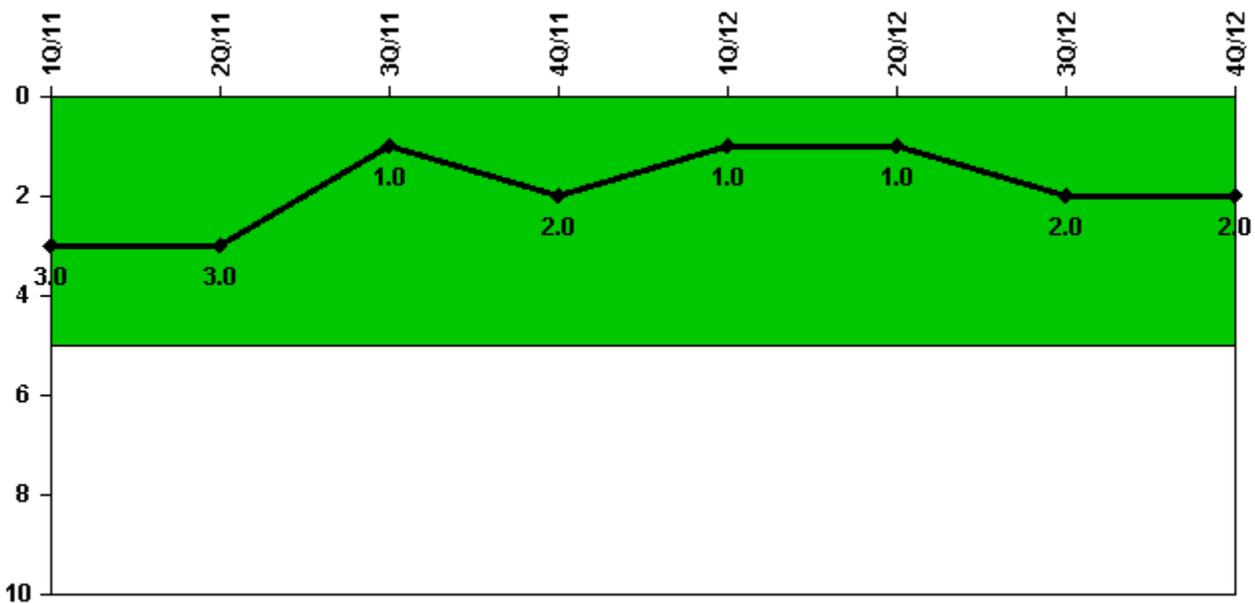
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

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

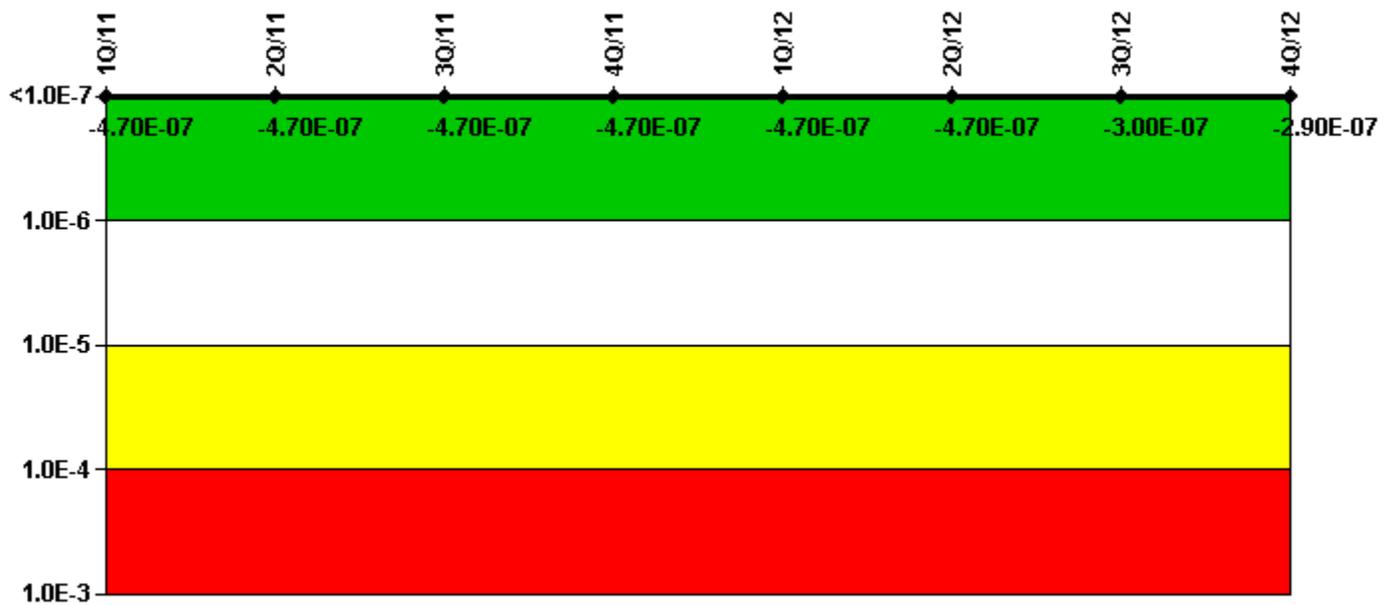
Licensee Comments:

4Q/12: On October 16, 2012, PG&E submitted LER 2-2012-001-00 for a SSFF of an emergency diesel generator due to a broken fuel oil booster pump drive belt and subsequent failure to meet plant technical specifications (Ref. DCL-12-096).

4Q/11: DCPD had a SSFF reported in LER 2011-006-0 (DCL-11-113) that reported a loss of control room envelope.

1Q/11: LER 1-2011-002 was submitted on March 11, 2011 for DCPD Unit 2 ABVS fans simultaneously secured due to a single failure vulnerability. TS 3.0.3 was entered for Unit 2 on 1/10/2011 at 1321 PST and exited on 1/10/2011 at 1342 PST.

Mitigating Systems Performance Index, Emergency AC Power System



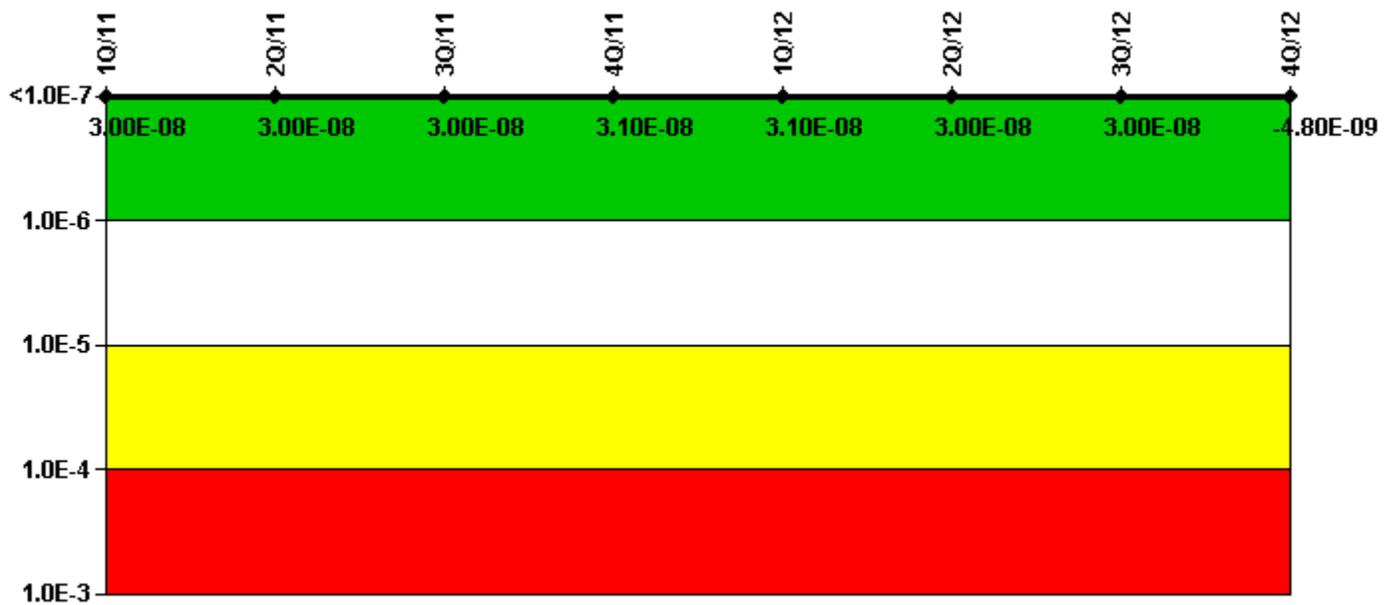
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	1.98E-09	5.16E-09	1.42E-09	-2.24E-09	6.95E-11	1.23E-10	-2.40E-09	8.46E-09
URI (Δ CDF)	-4.71E-07	-4.71E-07	-4.71E-07	-4.71E-07	-4.69E-07	-4.66E-07	-2.98E-07	-2.95E-07
PLE	NO							
Indicator value	-4.70E-07	-4.70E-07	-4.70E-07	-4.70E-07	-4.70E-07	-4.70E-07	-3.00E-07	-2.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



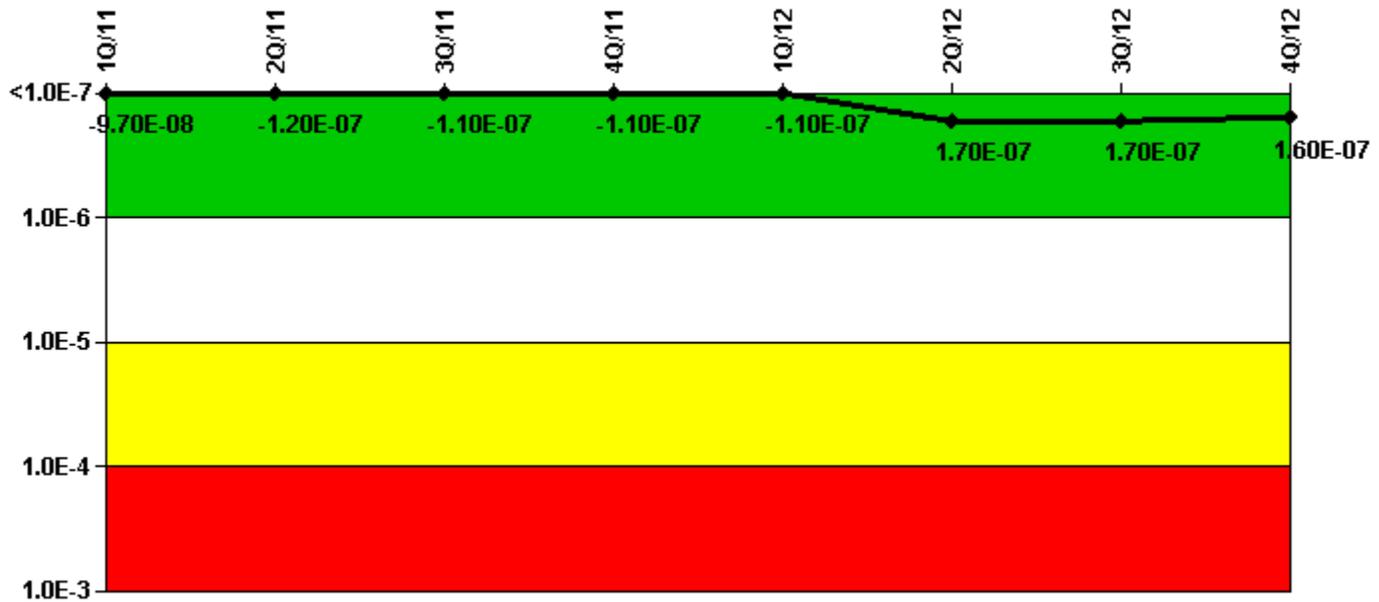
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-3.36E-09	-3.10E-09	-3.36E-09	-2.66E-09	-2.69E-09	-3.36E-09	-3.18E-09	-3.36E-09
URI (Δ CDF)	3.35E-08	-1.41E-09						
PLE	NO							
Indicator value	3.00E-08	3.00E-08	3.00E-08	3.10E-08	3.10E-08	3.00E-08	3.00E-08	-4.80E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



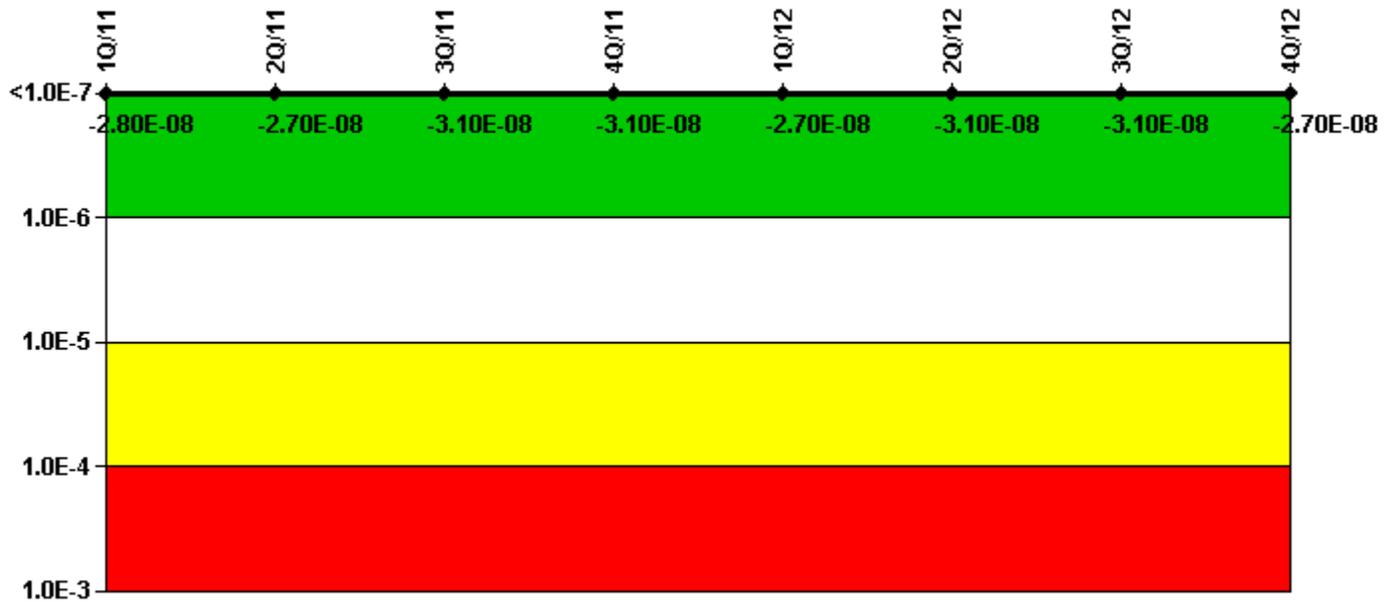
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (ΔCDF)	-1.96E-09	-2.45E-08	-2.45E-08	-2.45E-08	-2.40E-08	-2.24E-08	-2.25E-08	-2.27E-08
URI (ΔCDF)	-9.47E-08	-9.47E-08	-9.04E-08	-9.00E-08	-9.00E-08	1.88E-07	1.88E-07	1.82E-07
PLE	NO							
Indicator value	-9.70E-08	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-07	1.70E-07	1.70E-07	1.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



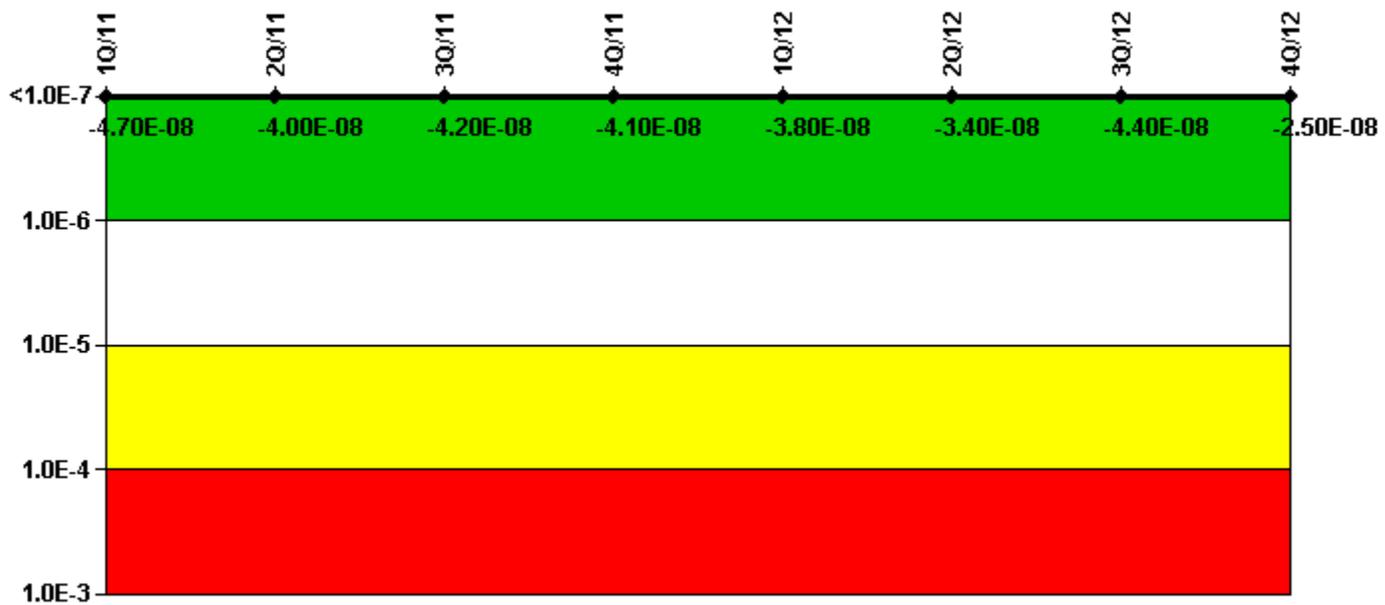
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-2.41E-09	-1.80E-09	-5.94E-09	-5.94E-09	-1.98E-09	-5.25E-09	-5.43E-09	-1.54E-09
URI (Δ CDF)	-2.53E-08							
PLE	NO							
Indicator value	-2.80E-08	-2.70E-08	-3.10E-08	-3.10E-08	-2.70E-08	-3.10E-08	-3.10E-08	-2.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



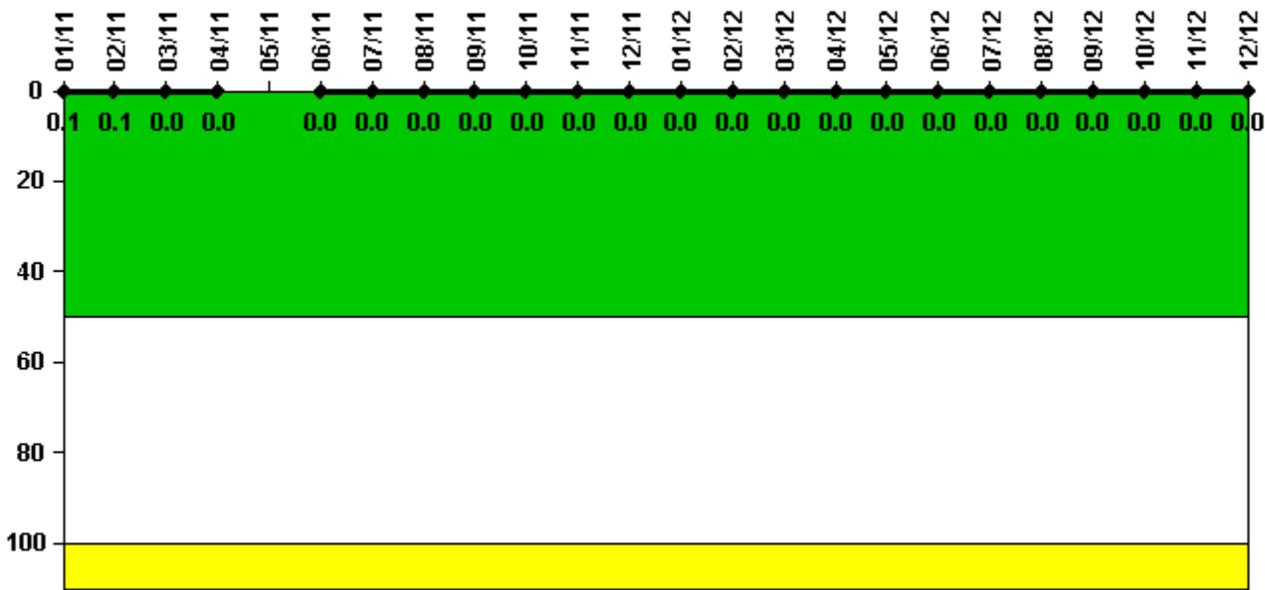
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-2.26E-08	-1.62E-08	-1.77E-08	-1.70E-08	-1.41E-08	-9.76E-09	-1.95E-08	-4.53E-10
URI (Δ CDF)	-2.41E-08							
PLE	NO							
Indicator value	-4.70E-08	-4.00E-08	-4.20E-08	-4.10E-08	-3.80E-08	-3.40E-08	-4.40E-08	-2.50E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

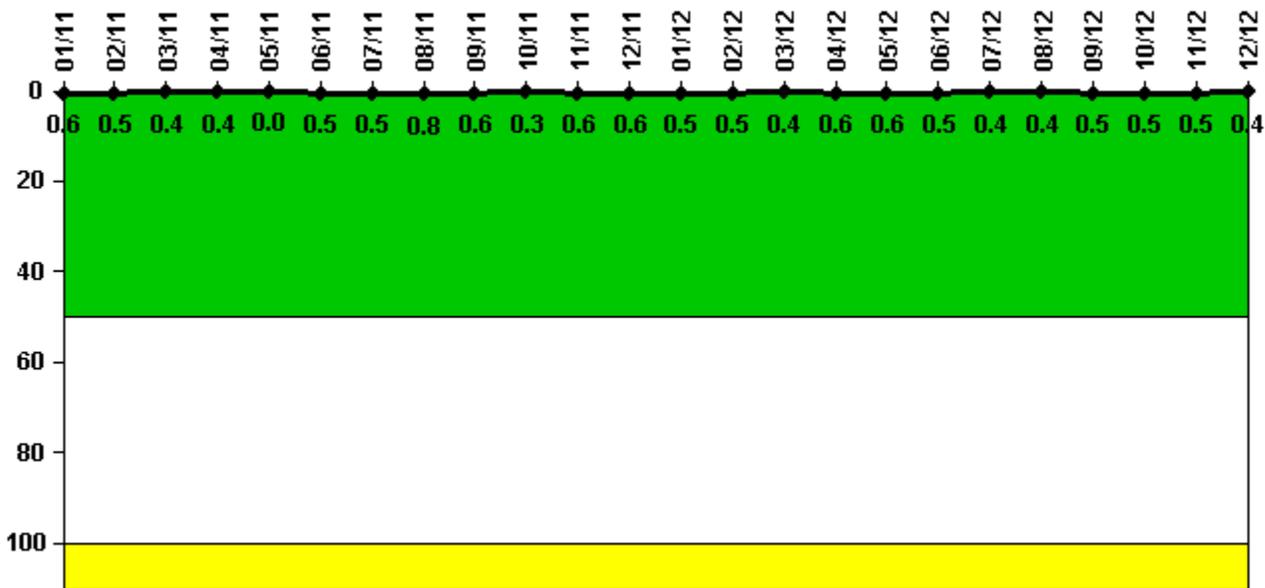
Notes

Reactor Coolant System Activity	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum activity	0.000705	0.000622	0.000493	0.000489	N/A	0.000160	0.000167	0.000182	0.000171	0.000183	0.000185	0.000200
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	0	N/A	0	0	0	0	0	0	0

Reactor Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	0.000199	0.000199	0.000325	0.000225	0.000222	0.000347	0.000418	0.000313	0.000253	0.000245	0.000261	0.000381
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



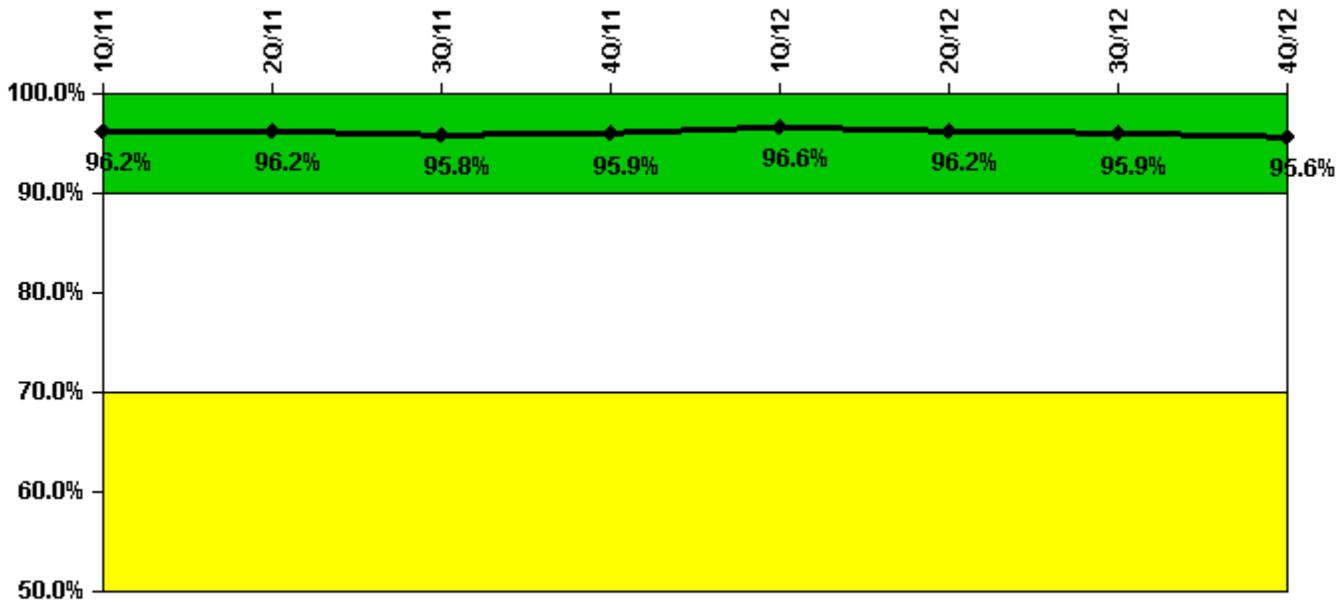
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum leakage	0.060	0.045	0.035	0.041	0	0.054	0.045	0.084	0.060	0.025	0.059	0.057
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	0.6	0.5	0.4	0.4	0	0.5	0.5	0.8	0.6	0.3	0.6	0.6
Reactor Coolant System Leakage	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum leakage	0.052	0.051	0.037	0.059	0.055	0.047	0.035	0.037	0.051	0.045	0.049	0.041
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	0.5	0.4	0.6	0.6	0.5	0.4	0.4	0.5	0.5	0.5	0.4

Licensee Comments: none

Drill/Exercise Performance



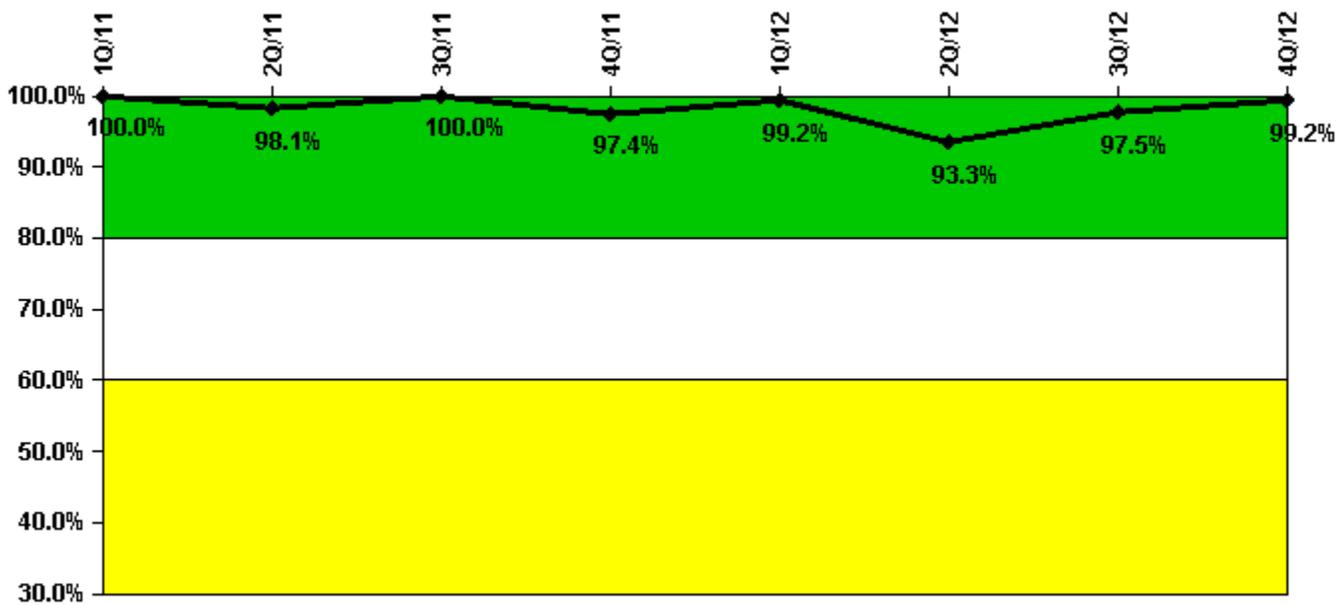
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful opportunities	45.0	21.0	9.0	28.0	57.0	6.0	52.0	22.0
Total opportunities	49.0	22.0	9.0	28.0	58.0	6.0	54.0	25.0
Indicator value	96.2%	96.2%	95.8%	95.9%	96.6%	96.2%	95.9%	95.6%

Licensee Comments: none

ERO Drill Participation



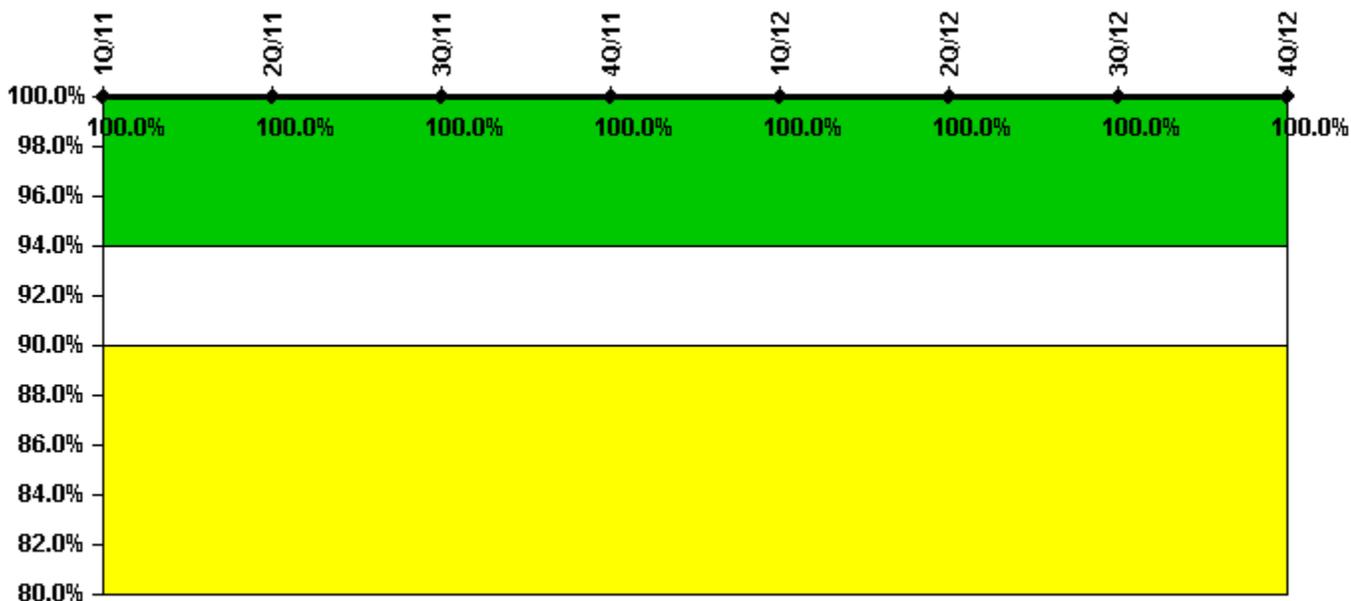
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Participating Key personnel	107.0	102.0	104.0	111.0	117.0	112.0	116.0	119.0
Total Key personnel	107.0	104.0	104.0	114.0	118.0	120.0	119.0	120.0
Indicator value	100.0%	98.1%	100.0%	97.4%	99.2%	93.3%	97.5%	99.2%

Licensee Comments: none

Alert & Notification System



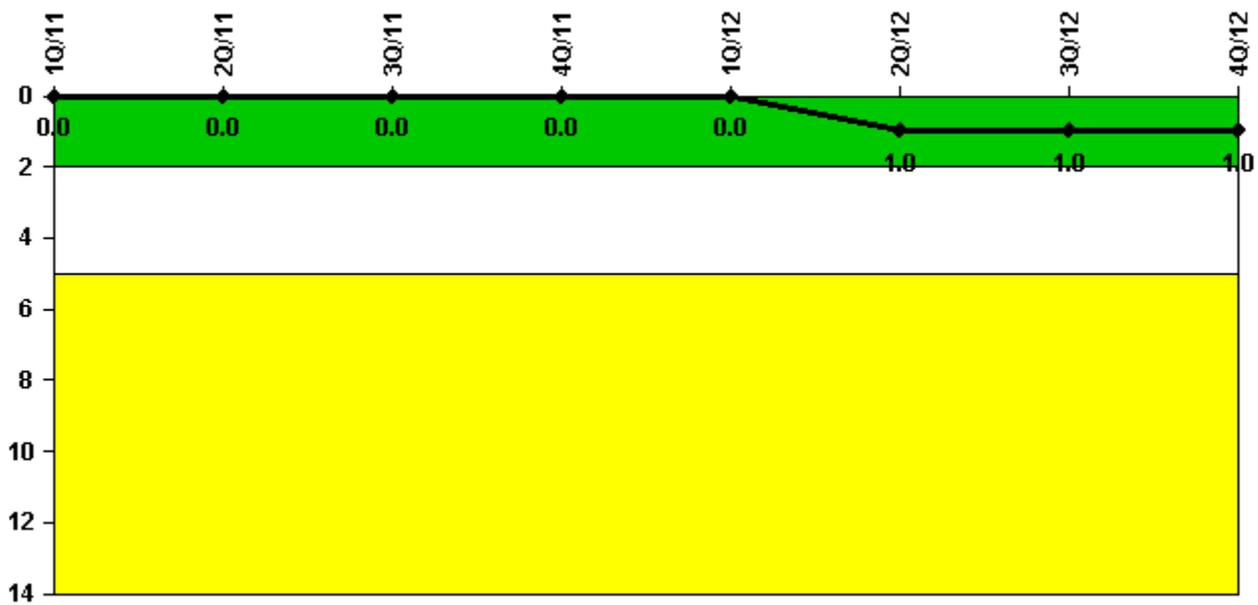
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	1048	917	1309	917	1048	916	1310	917
Total sirens-tests	1048	917	1310	917	1048	917	1310	917
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
High radiation area occurrences	0	0	0	0	0	1	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	1	1	1

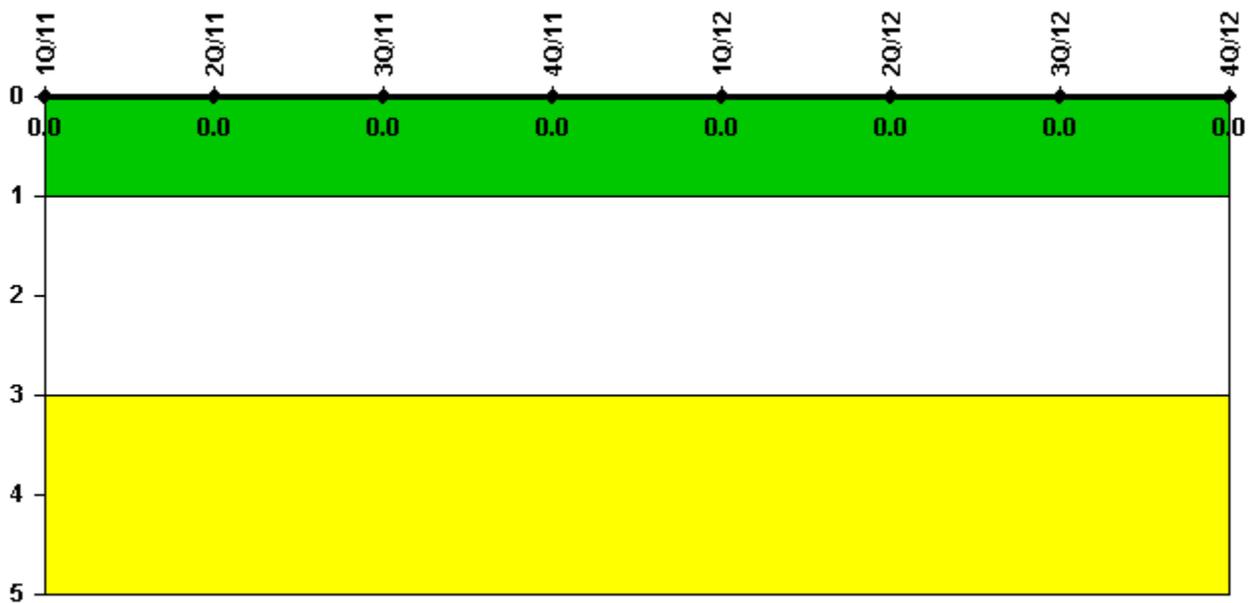
Licensee Comments:

4Q/12: Data approved by manager T. Irving. Approval checked by M. Richardson per request of T. Irving due to technical issues.

1Q/12: A March 2012 "High radiation area occurrence" was retracted in July 2012, following completion of the cause evaluation. The change has no impact on the color of the indicator. The basis for the retraction is contained in SAPN 50499040.

4Q/11: U1 and U2 Occupational Radiation Safety for 4Q2011 approved by manager T. Irving, approval boxes checked by M. Richardson per RS manager request.

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments:

4Q/12: Data approved by manager T. Irving. Approval checked by M. Richardson per request of T. Irving due to technical issues.

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.
