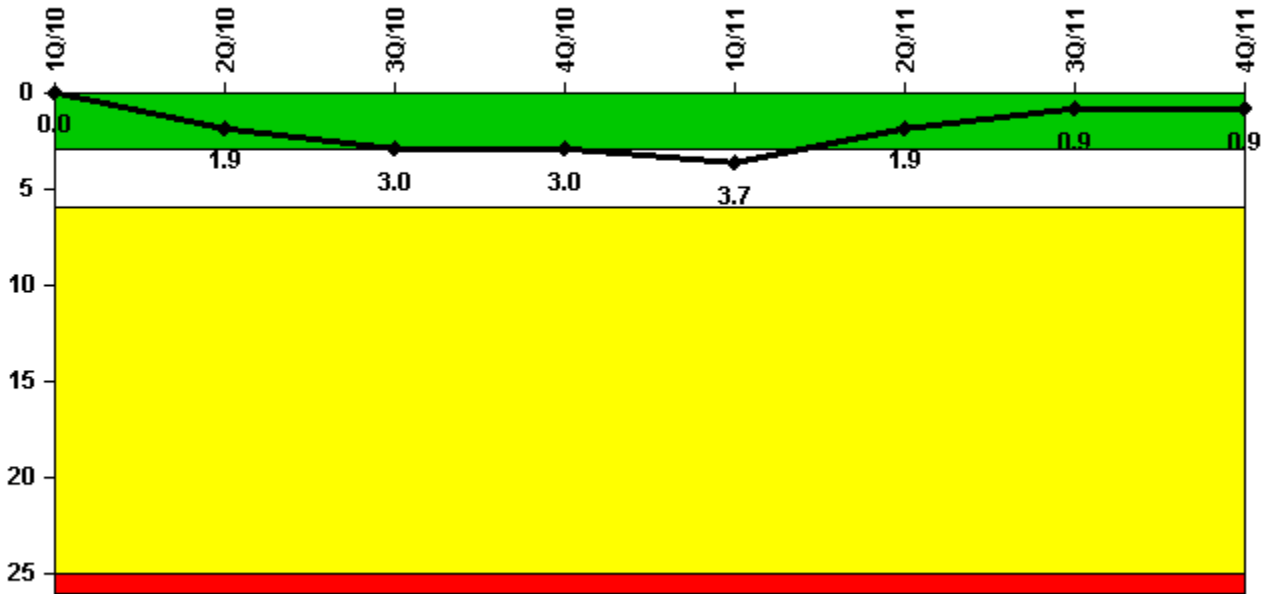


Susquehanna 1

4Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



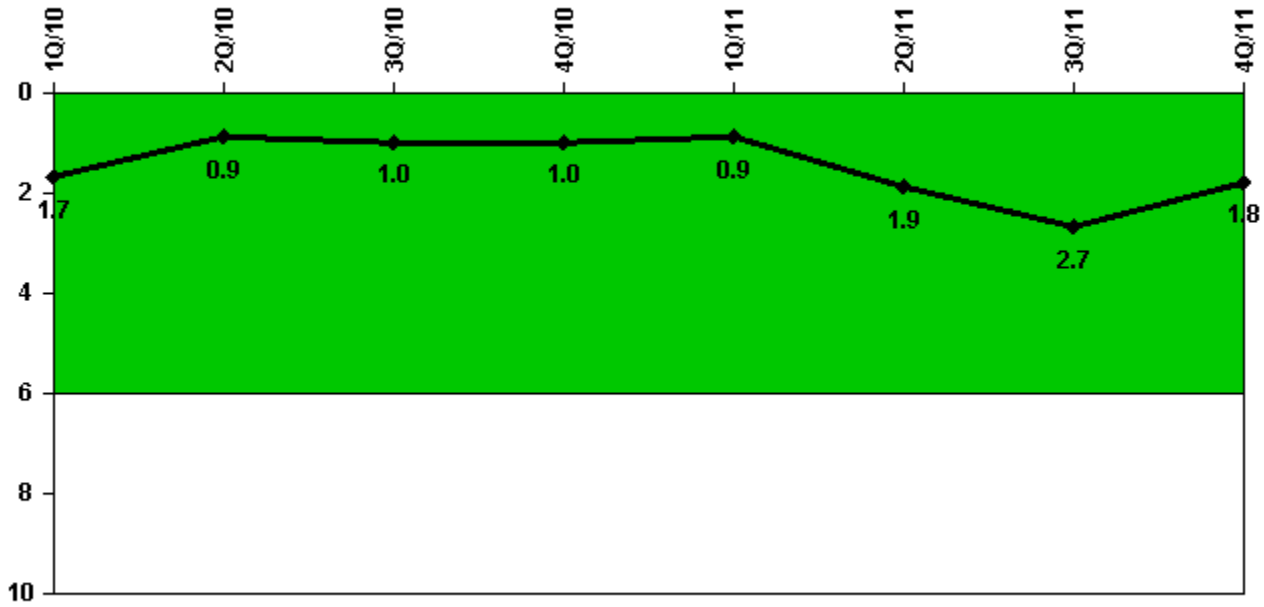
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned scrams	0	2.0	1.0	0	1.0	0	0	0
Critical hours	1447.2	1667.0	1794.1	2209.0	1981.8	1291.5	2208.0	2209.0
Indicator value	0	1.9	3.0	3.0	3.7	1.9	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



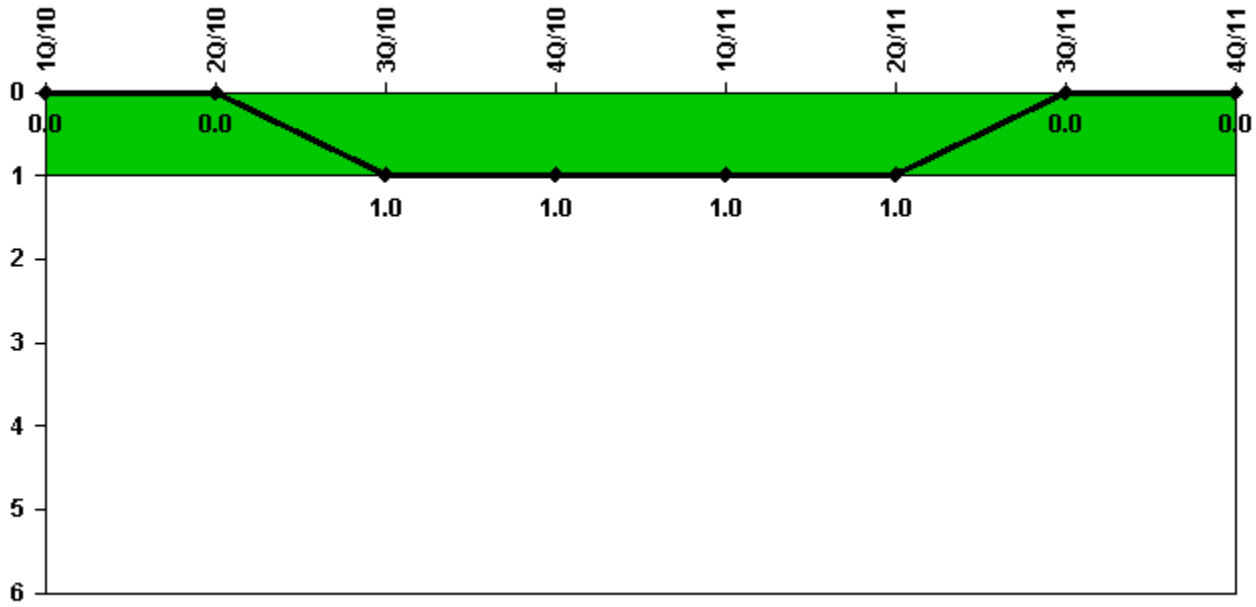
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	0	0	0	1.0	0	1.0	1.0	0
Critical hours	1447.2	1667.0	1794.1	2209.0	1981.8	1291.5	2208.0	2209.0
Indicator value	1.7	0.9	1.0	1.0	0.9	1.9	2.7	1.8

Licensee Comments: none

Unplanned Scrams with Complications



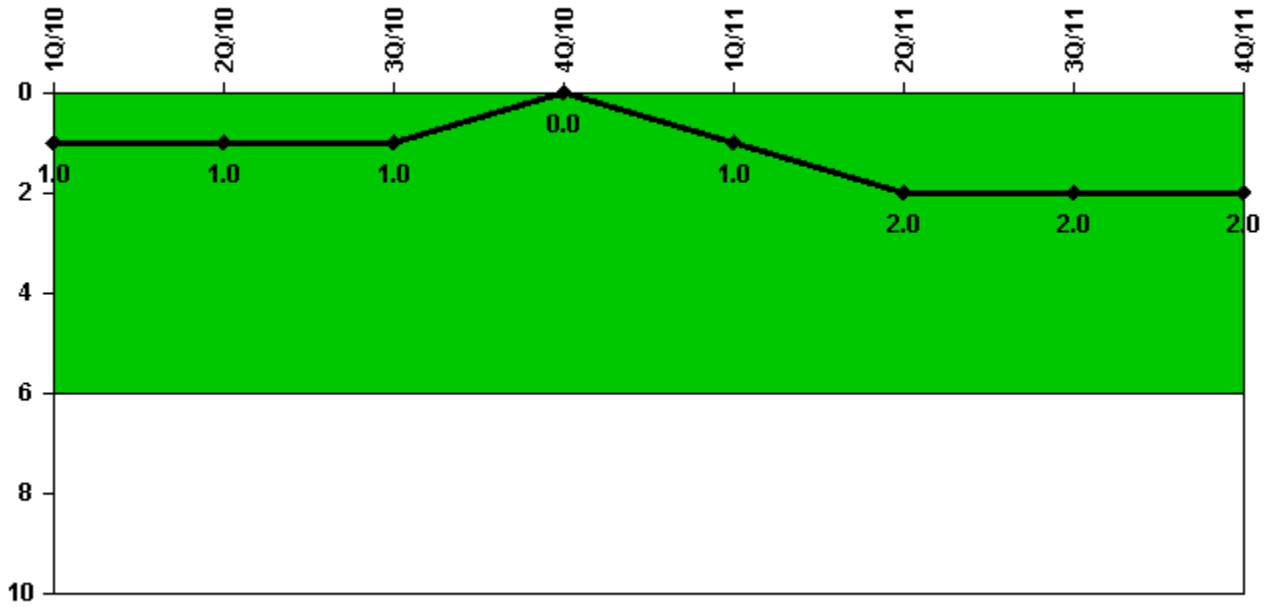
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Scrams with complications	0	0	1.0	0	0	0	0	0
Indicator value	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (BWR)



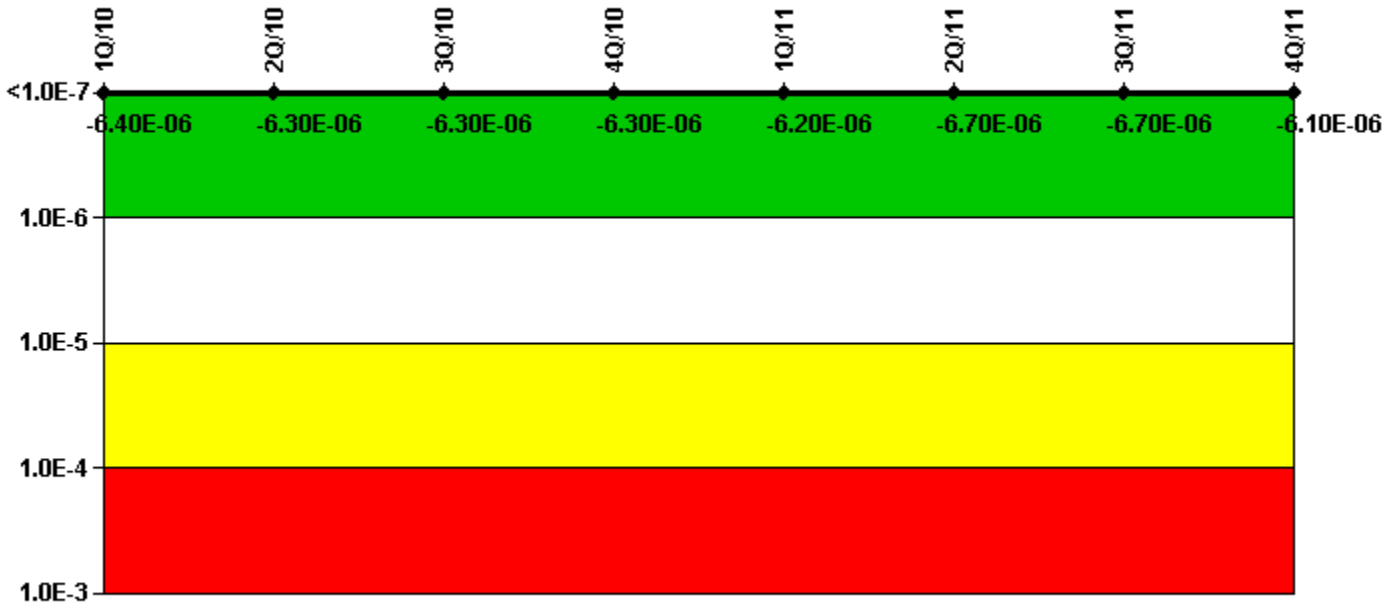
Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

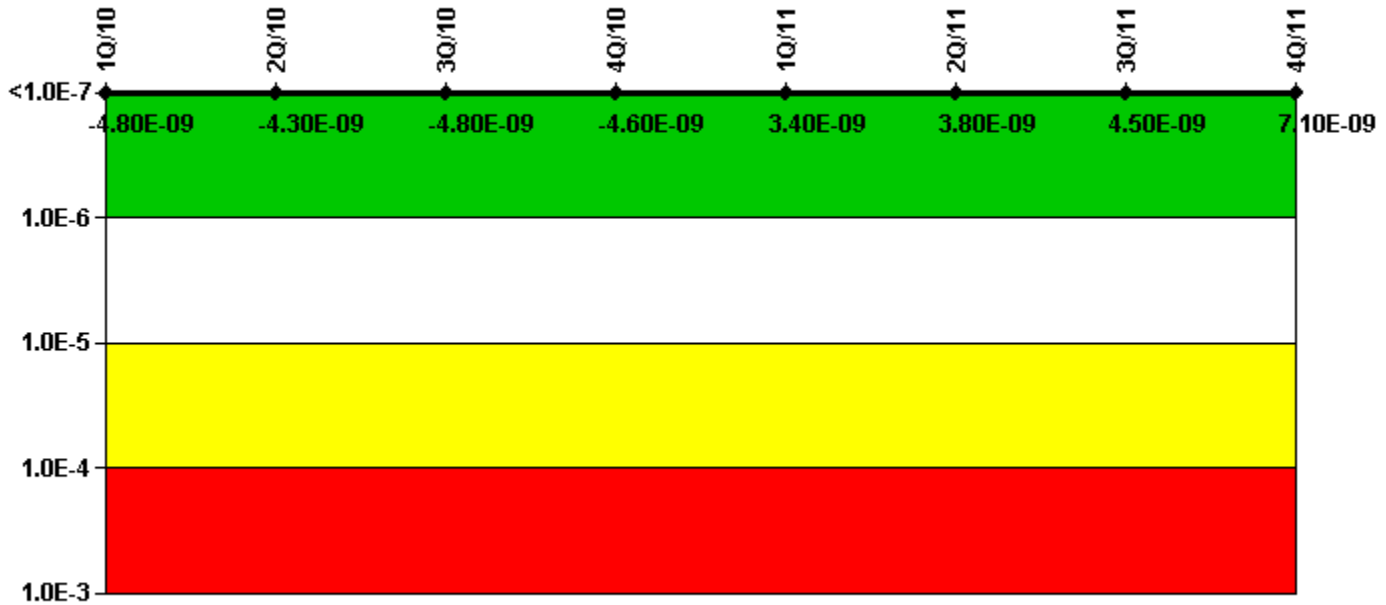
Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	-2.81E-08	-2.88E-08	-2.82E-08	-2.88E-08	-1.85E-08	-2.11E-08	3.96E-10	1.92E-07
URI (Δ CDF)	-6.42E-06	-6.29E-06	-6.24E-06	-6.23E-06	-6.19E-06	-6.72E-06	-6.75E-06	-6.25E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.40E-06	-6.30E-06	-6.30E-06	-6.30E-06	-6.20E-06	-6.70E-06	-6.70E-06	-6.10E-06

Licensee Comments:

4Q/11: Risk Cap Invoked. The 3Q2011 Emergency AC Power System data is revised to include additional unavailable hours for the "C" diesel generator in September 2011. There is no safety significance associated with this change. The PI color was green before the data revision and it remains green after the change.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

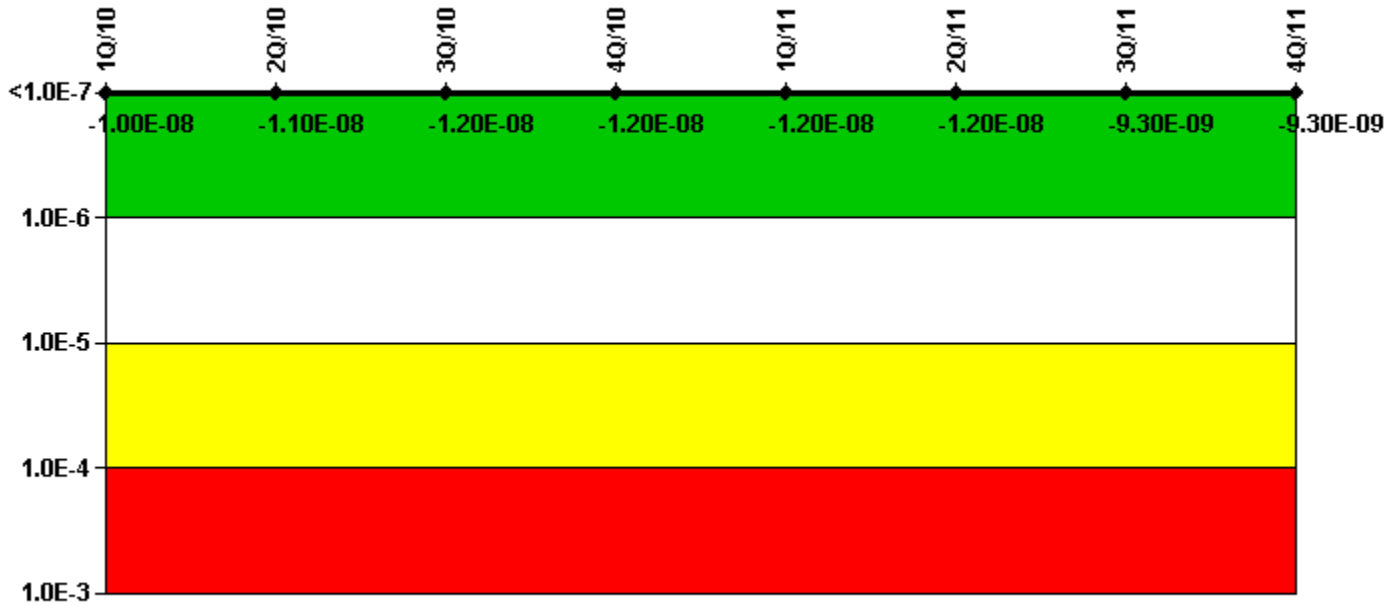
Mitigating Systems Performance Index, High Pressure Injection System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	$1.47E-09$	$1.96E-09$	$2.23E-09$	$2.00E-09$	$1.00E-08$	$1.04E-08$	$1.11E-08$	$1.40E-08$
URI (Δ CDF)	$-6.30E-09$	$-6.30E-09$	$-6.99E-09$	$-6.63E-09$	$-6.61E-09$	$-6.61E-09$	$-6.61E-09$	$-6.89E-09$
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	$-4.80E-09$	$-4.30E-09$	$-4.80E-09$	$-4.60E-09$	$3.40E-09$	$3.80E-09$	$4.50E-09$	$7.10E-09$

Licensee Comments:

4Q/11: The 3Q2010 data is revised due to a data entry error for ESF Non-Test demands. There is no safety significance associated with this change. The PI color was green before the data revision and it remains green after the change

4Q/10: The High Pressure Coolant Injection data previously reported for the first, second, and third quarters of 2010 is revised based on changed PRA parameters and the resulting revision to the MSPI coefficients in the SSES MSPI Basis Document. There is no safety significance associated with this change, and the color of the current High Pressure Coolant Injection Performance Indicator remains Green.

Mitigating Systems Performance Index, Heat Removal System



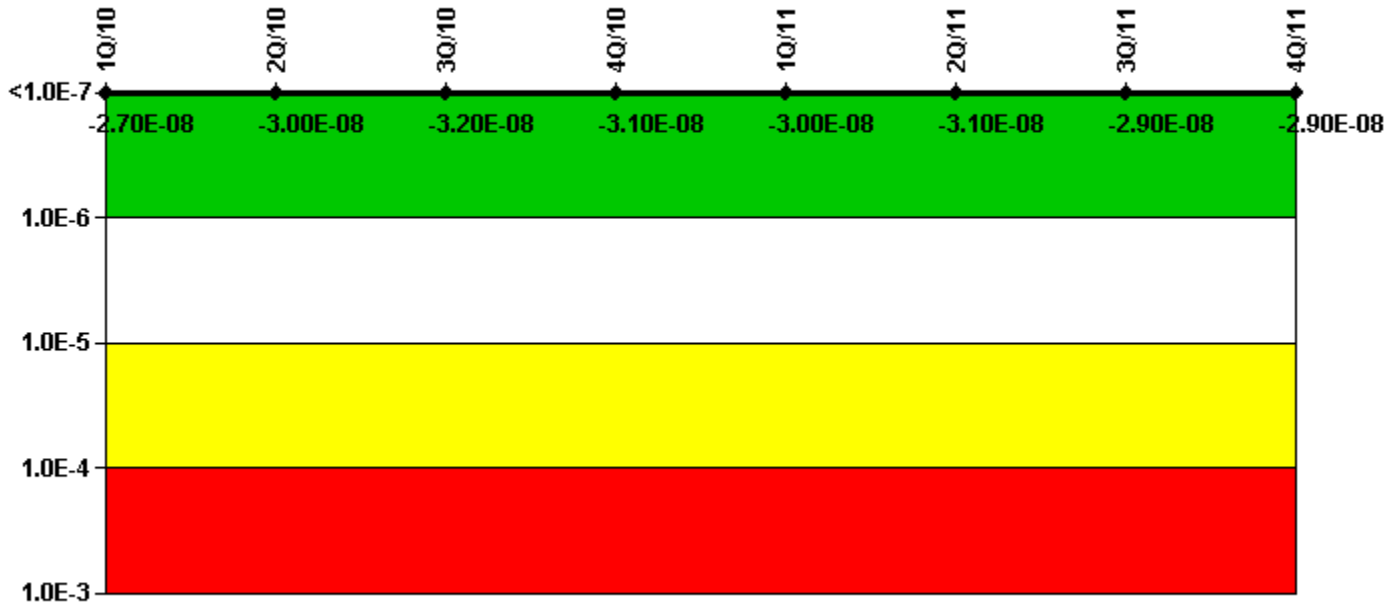
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	-2.72E-09	-2.69E-09	-4.06E-09	-4.06E-09	-4.06E-09	-4.06E-09	-8.88E-10	-8.88E-10
URI (Δ CDF)	-7.42E-09	-7.99E-09	-8.12E-09	-7.86E-09	-8.14E-09	-8.14E-09	-8.39E-09	-8.39E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-08	-1.10E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-9.30E-09	-9.30E-09

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



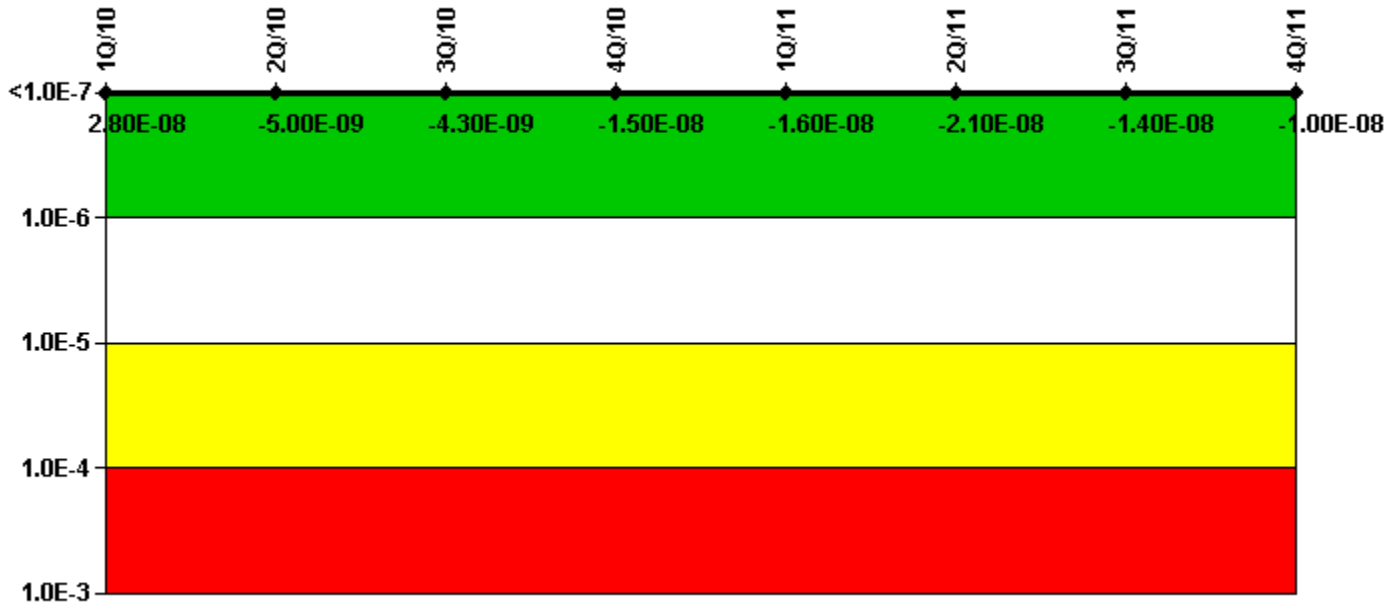
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	1.46E-09	5.70E-10	-5.46E-10	-6.35E-10	-8.89E-10	-8.44E-10	1.85E-09	1.85E-09
URI (Δ CDF)	-2.88E-08	-3.05E-08	-3.10E-08	-3.02E-08	-2.95E-08	-2.97E-08	-3.06E-08	-3.07E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-08	-3.00E-08	-3.20E-08	-3.10E-08	-3.00E-08	-3.10E-08	-2.90E-08	-2.90E-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

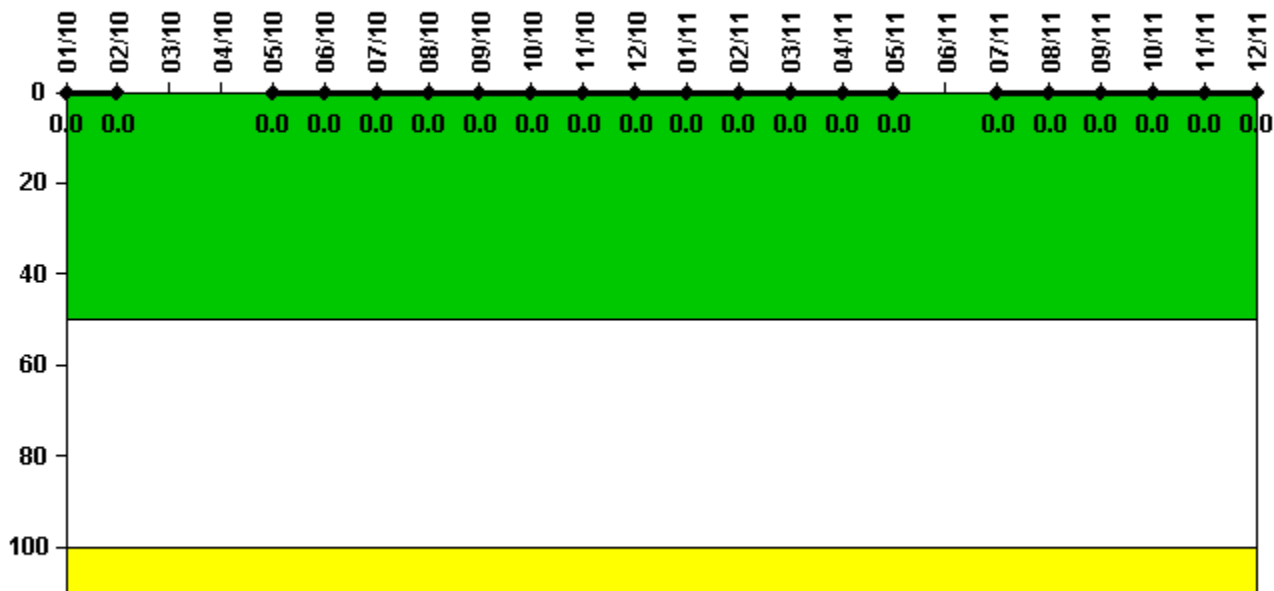
Mitigating Systems Performance Index, Cooling Water Systems	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	6.01E-08	2.71E-08	2.77E-08	1.66E-08	1.60E-08	1.10E-08	1.85E-08	2.25E-08
URI (Δ CDF)	-3.20E-08	-3.21E-08	-3.20E-08	-3.18E-08	-3.17E-08	-3.24E-08	-3.29E-08	-3.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.80E-08	-5.00E-09	-4.30E-09	-1.50E-08	-1.60E-08	-2.10E-08	-1.40E-08	-1.00E-08

Licensee Comments:

4Q/11: Previously reported data for 3Q2009, 2Q2010, and 3Q2010 is revised for operational non-test strokes of valves HV01224A1 and HV01224B1. This change provides more conservative values for the stroke count. There is no safety significance associated with this change. The PI color was green before the data revision and it remains green after the change.

4Q/10: The Residual Heat Removal Service Water / Emergency Service Water data previously reported for the first, second, and third quarters of 2010 is revised based on changed PRA parameters and the resulting revision to the MSPI coefficients in the SSES MSPI Basis Document. There is no safety significance associated with this change, and the color of the current Residual Heat Removal Service Water / Emergency Service Water Performance Indicator remains Green.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

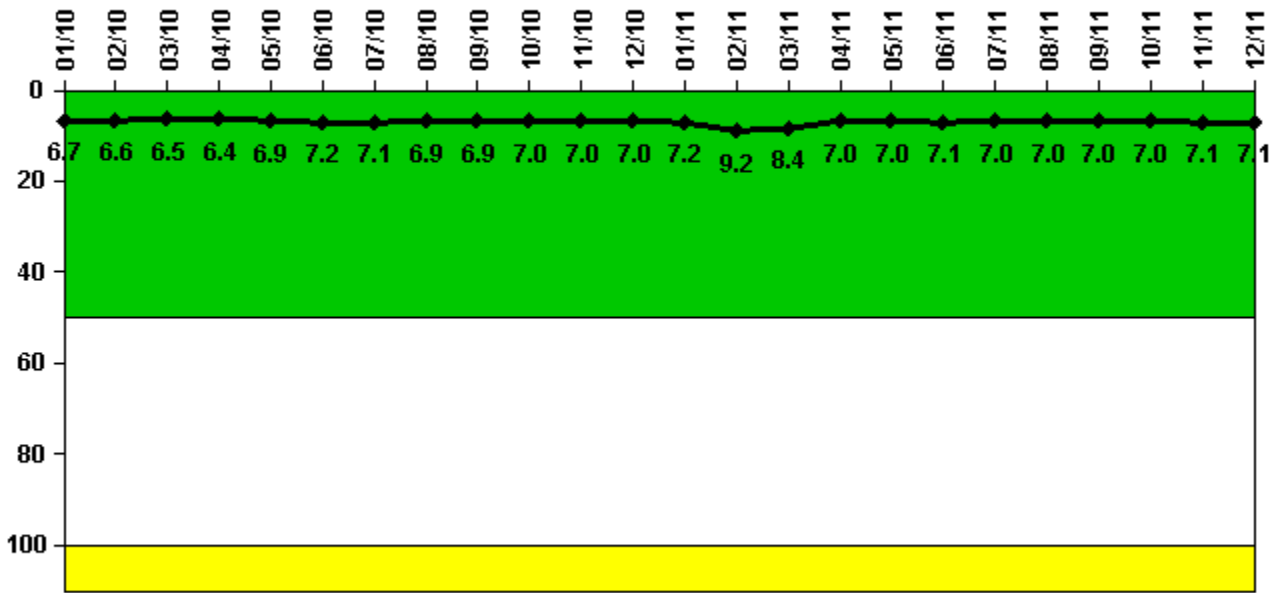
Notes

Reactor Coolant System Activity	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum activity	0.000011	0.000010	N/A	N/A	0.000004	0.000005	0.000005	0.000005	0.000005	0.000005	0.000006	0.000010
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	N/A	N/A	0	0	0	0	0	0	0	0

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	0.000007	0.000007	0.000008	0.000007	0.000008	N/A	0.000006	0.000007	0.000007	0.000007	0.000007	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	N/A	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

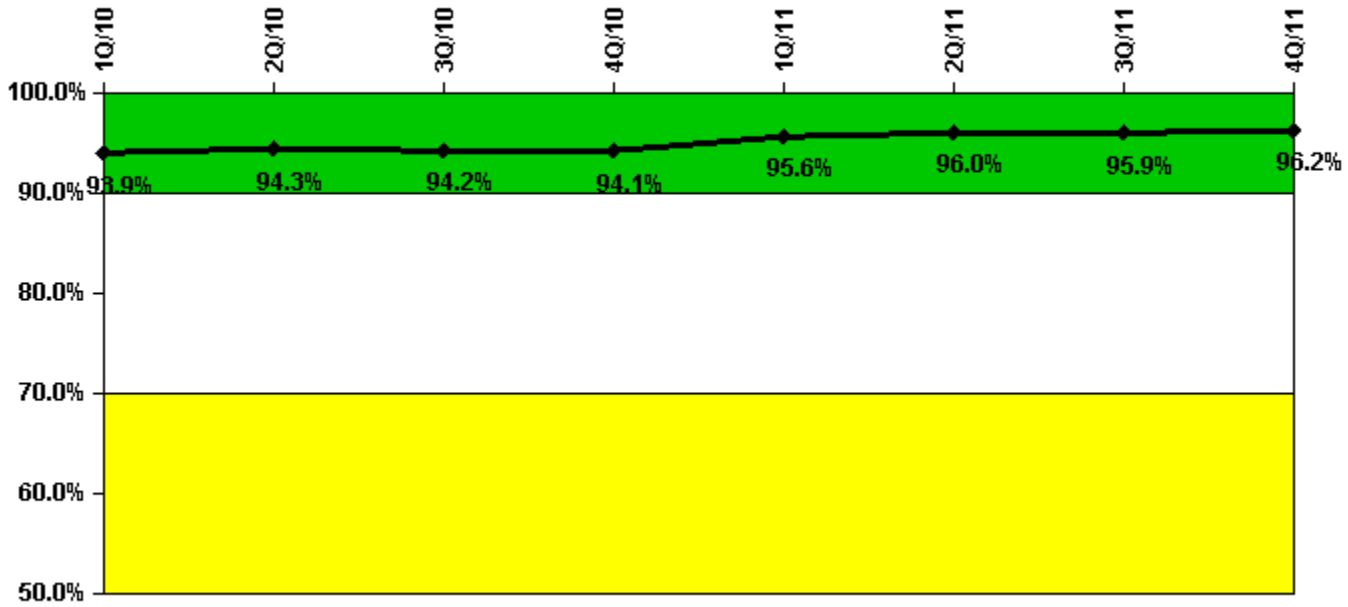
Notes

Reactor Coolant System Leakage	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum leakage	1.670	1.660	1.620	1.590	1.730	1.800	1.770	1.730	1.720	1.740	1.740	1.740
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	6.7	6.6	6.5	6.4	6.9	7.2	7.1	6.9	6.9	7.0	7.0	7.0
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	1.790	2.300	2.090	1.740	1.760	1.780	1.740	1.750	1.760	1.760	1.770	1.770
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	7.2	9.2	8.4	7.0	7.0	7.1	7.0	7.0	7.0	7.0	7.1	7.1

Licensee Comments:

12/11: Previously reported data for Reactor Coolant System Leakage for the period from 1Q2010 through 2Q2011 is revised to provide the correct value for maximum monthly identified leakage. There is no safety significance associated with this change. The PI color was green before the data revision and it remains green after the change.

Drill/Exercise Performance



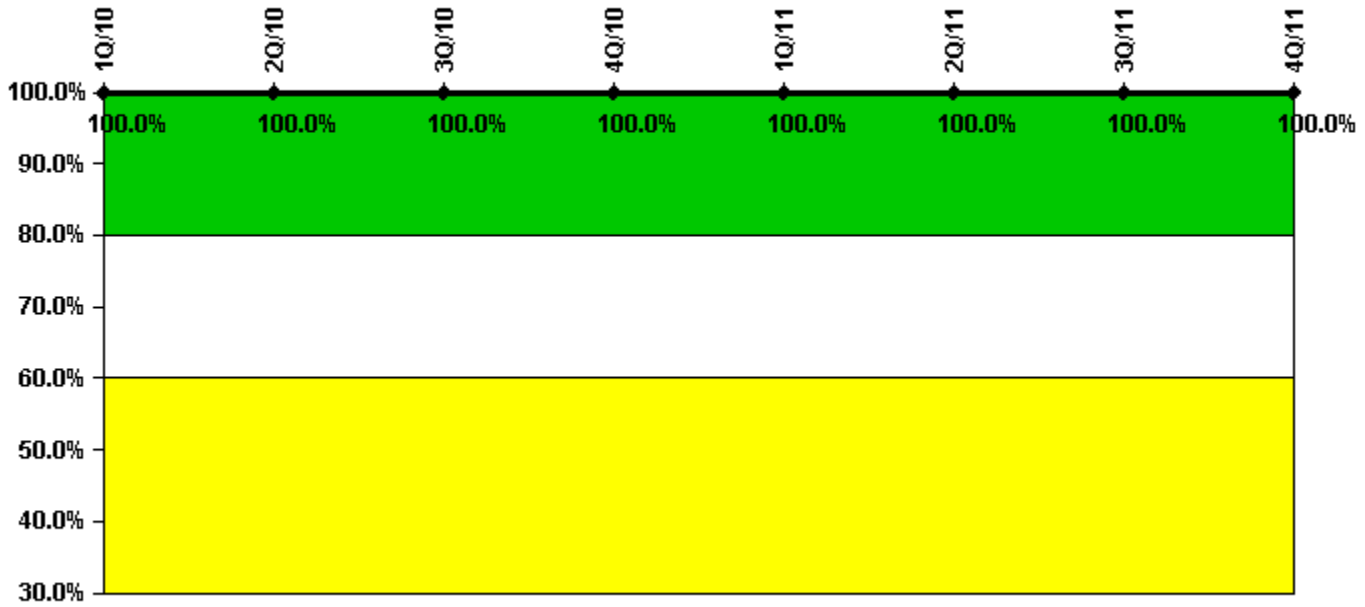
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful opportunities	30.0	67.0	35.0	18.0	0	21.0	21.0	10.0
Total opportunities	31.0	69.0	36.0	21.0	0	21.0	22.0	10.0
Indicator value	93.9%	94.3%	94.2%	94.1%	95.6%	96.0%	95.9%	96.2%

Licensee Comments: none

ERO Drill Participation



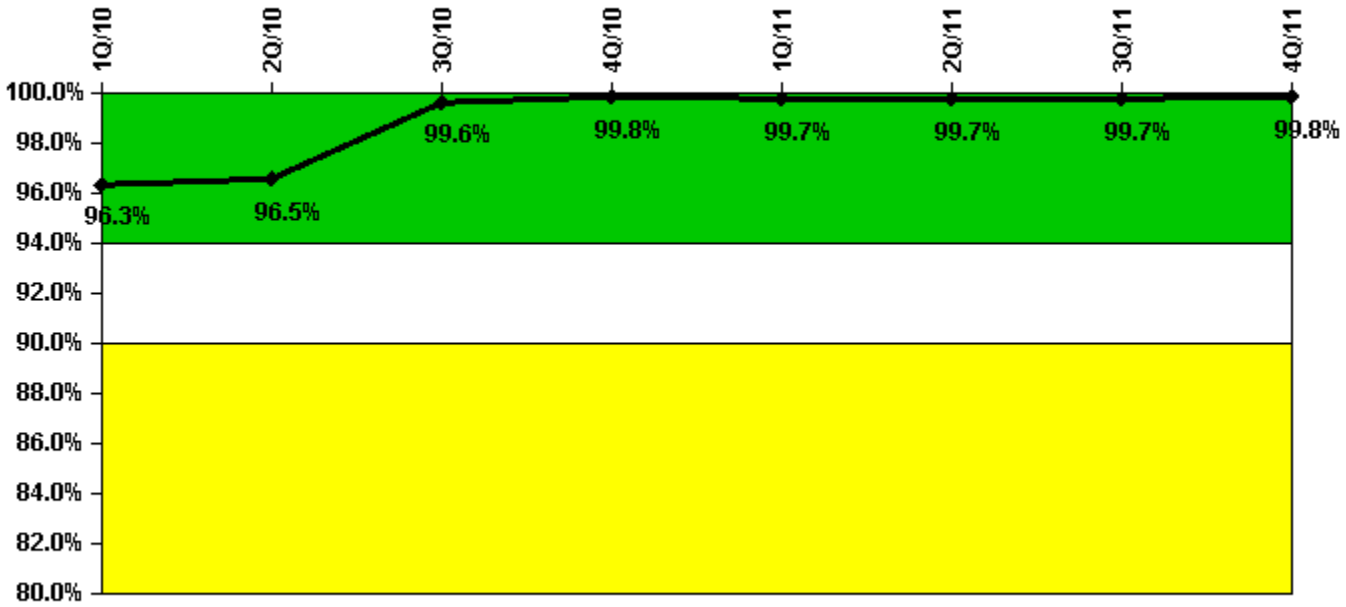
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	69.0	69.0	68.0	68.0	70.0	74.0	72.0	71.0
Total Key personnel	69.0	69.0	68.0	68.0	70.0	74.0	72.0	71.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



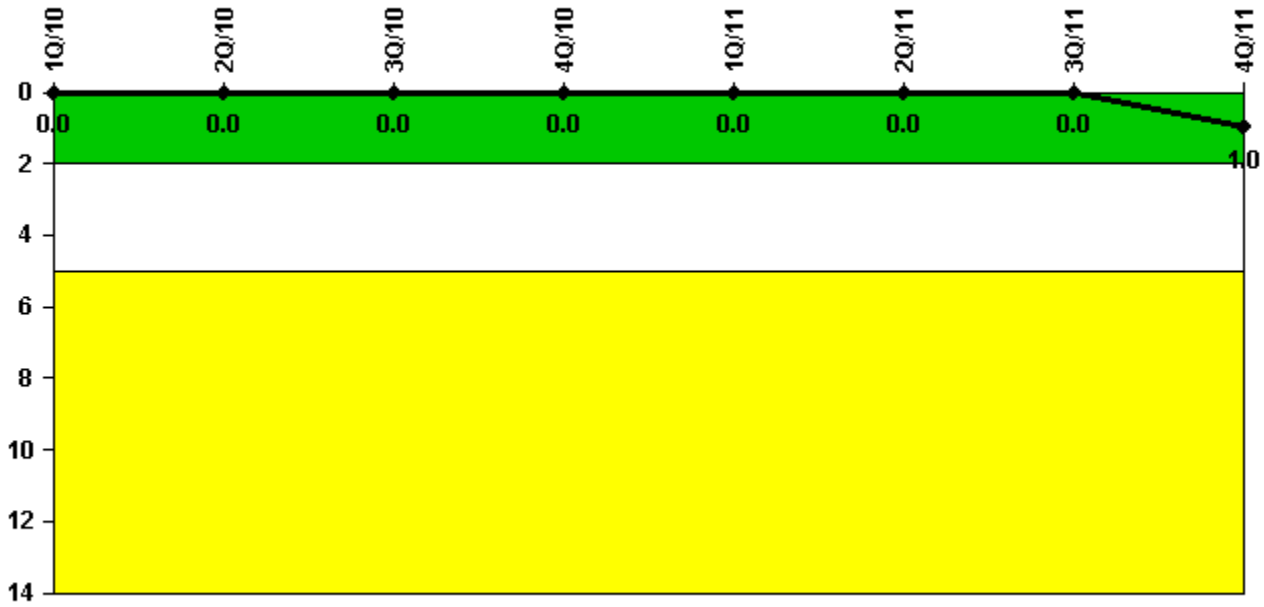
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful siren-tests	532	608	605	606	531	606	607	608
Total sirens-tests	532	608	608	608	532	608	608	608
Indicator value	96.3%	96.5%	99.6%	99.8%	99.7%	99.7%	99.7%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



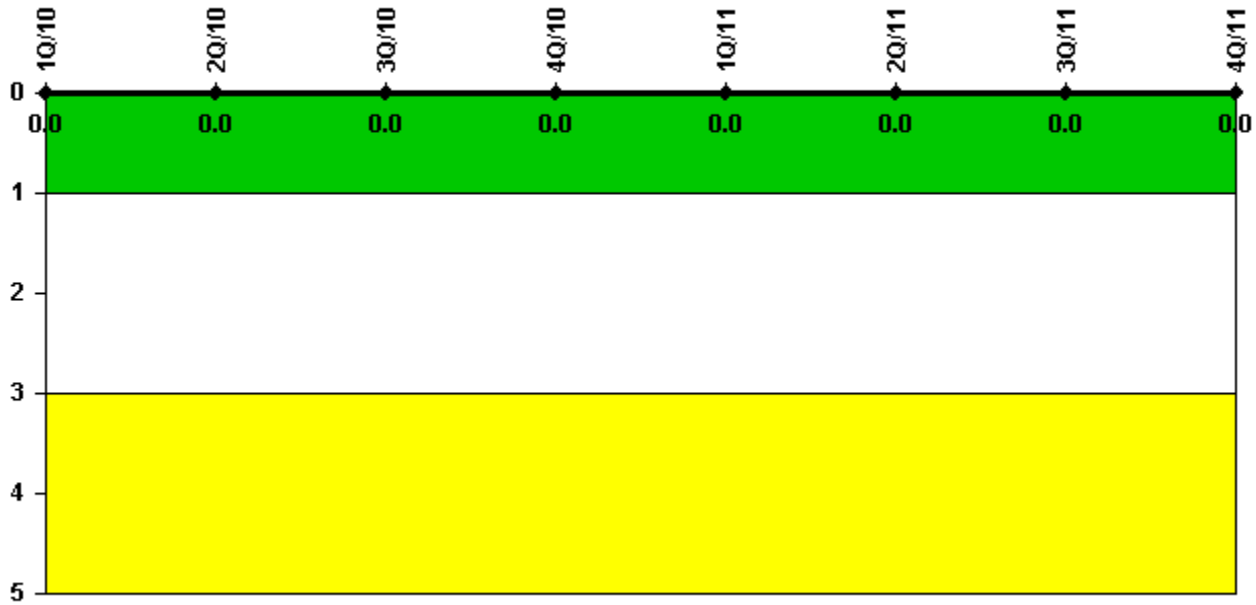
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
High radiation area occurrences	0	0	0	0	0	0	0	1
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	1

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.