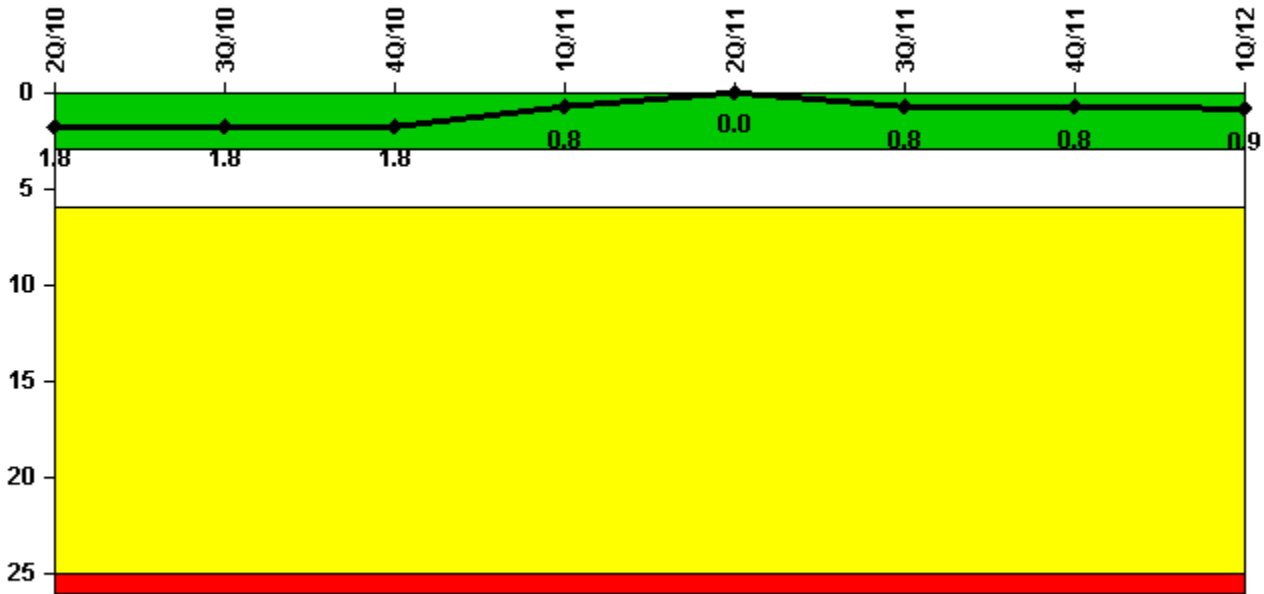


Calvert Cliffs 1

1Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



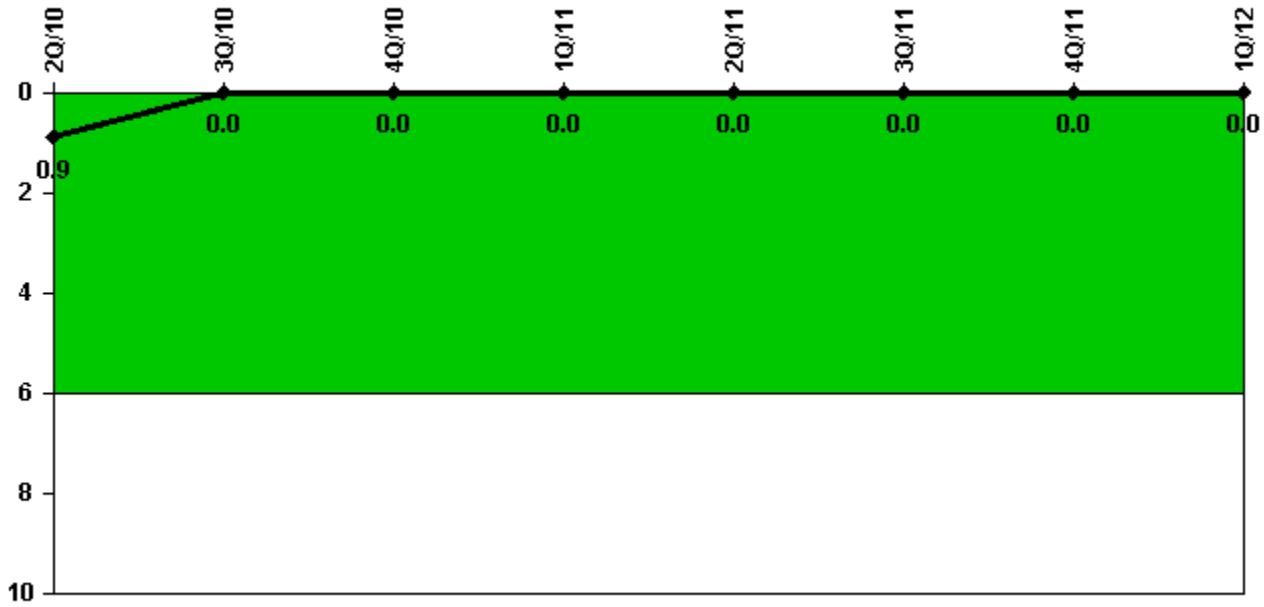
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned scrams	1.0	0	0	0	0	1.0	0	0
Critical hours	2031.4	2208.0	2209.0	2159.0	2184.0	2133.6	2209.0	849.7
Indicator value	1.8	1.8	1.8	0.8	0	0.8	0.8	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2031.4	2208.0	2209.0	2159.0	2184.0	2133.6	2209.0	849.7
Indicator value	0.9	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



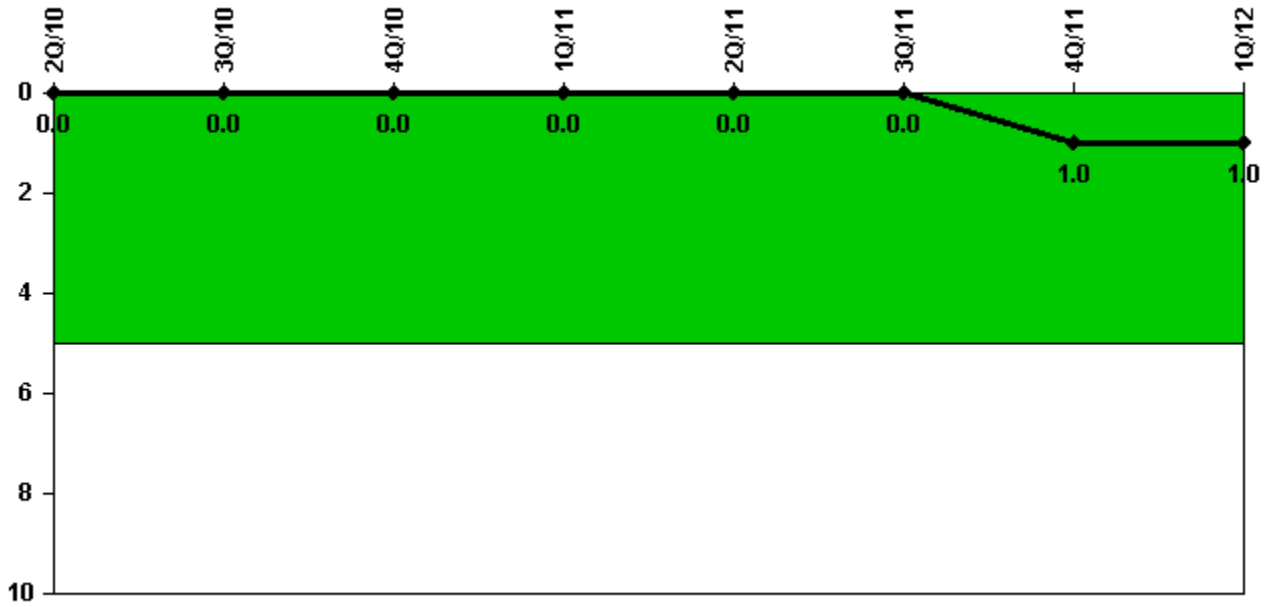
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
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

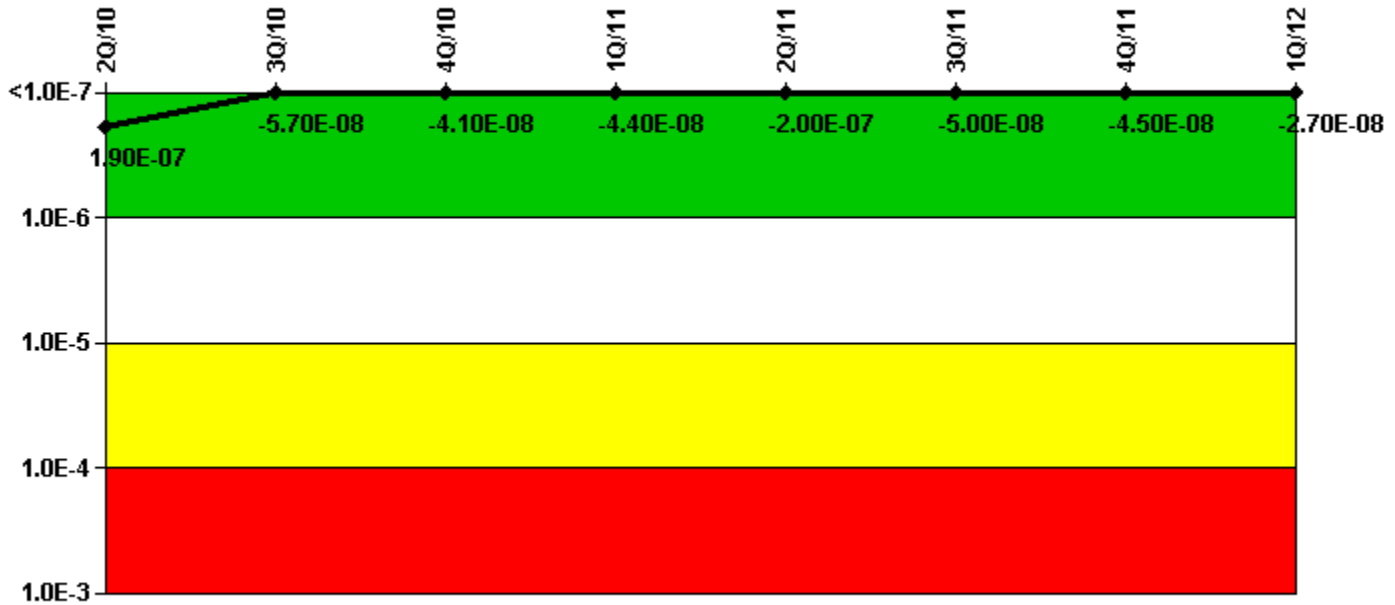
Notes

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

Licensee Comments:

4Q/11: LER 2011-003-00

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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	1.49E-07	5.95E-08	7.66E-08	7.32E-08	-3.38E-08	-1.22E-08	-8.64E-09	9.44E-09
URI (Δ CDF)	4.37E-08	-1.17E-07	-1.17E-07	-1.17E-07	-1.69E-07	-3.76E-08	-3.63E-08	-3.67E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.90E-07	-5.70E-08	-4.10E-08	-4.40E-08	-2.00E-07	-5.00E-08	-4.50E-08	-2.70E-08

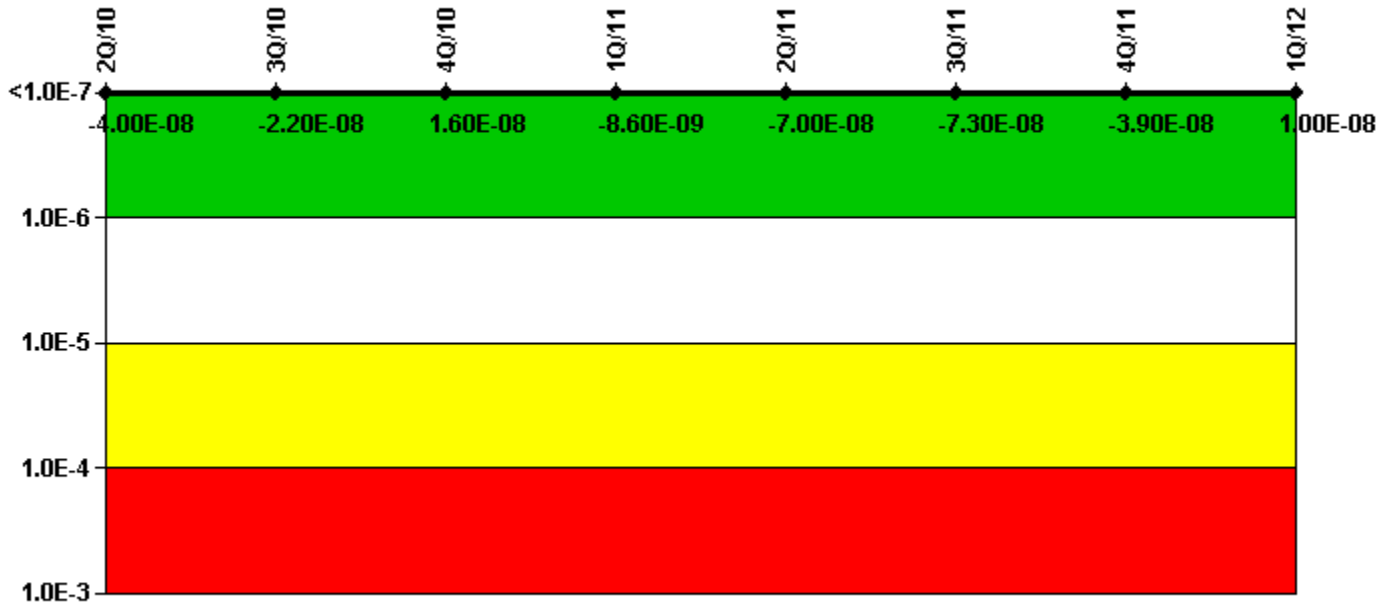
Licensee Comments:

3Q/11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

2Q/11: Changed PRA Parameter(s). 1Q-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	2.52E-08	4.31E-08	7.86E-08	4.45E-08	-3.60E-08	-3.96E-08	-4.45E-09	4.91E-08
URI (Δ CDF)	-6.52E-08	-6.55E-08	-6.27E-08	-5.31E-08	-3.43E-08	-3.35E-08	-3.42E-08	-3.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.00E-08	-2.20E-08	1.60E-08	-8.60E-09	-7.00E-08	-7.30E-08	-3.90E-08	1.00E-08

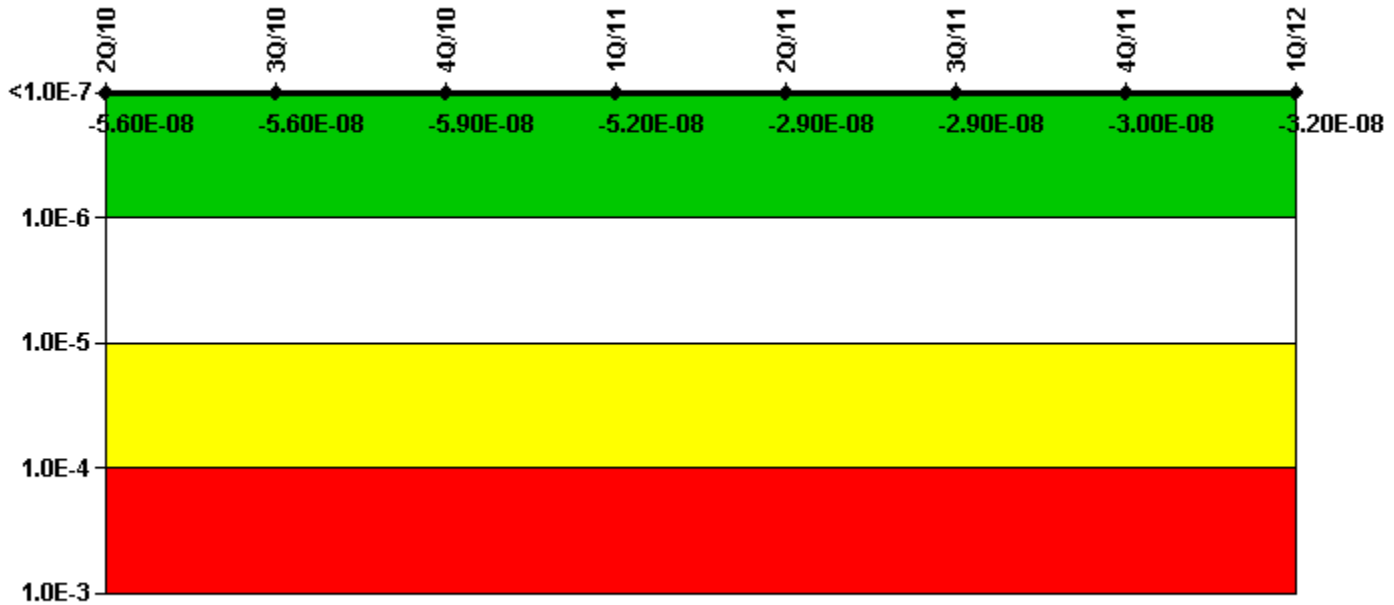
Licensee Comments:

3Q/11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

2Q/11: Changed PRA Parameter(s). 1Q-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	7.40E-09	6.15E-09	1.39E-09	-1.91E-09	-7.61E-09	-7.61E-09	-7.61E-09	-7.59E-09
URI (Δ CDF)	-6.34E-08	-6.25E-08	-6.08E-08	-5.02E-08	-2.13E-08	-2.19E-08	-2.22E-08	-2.46E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.60E-08	-5.60E-08	-5.90E-08	-5.20E-08	-2.90E-08	-2.90E-08	-3.00E-08	-3.20E-08

Licensee Comments:

1Q/11: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

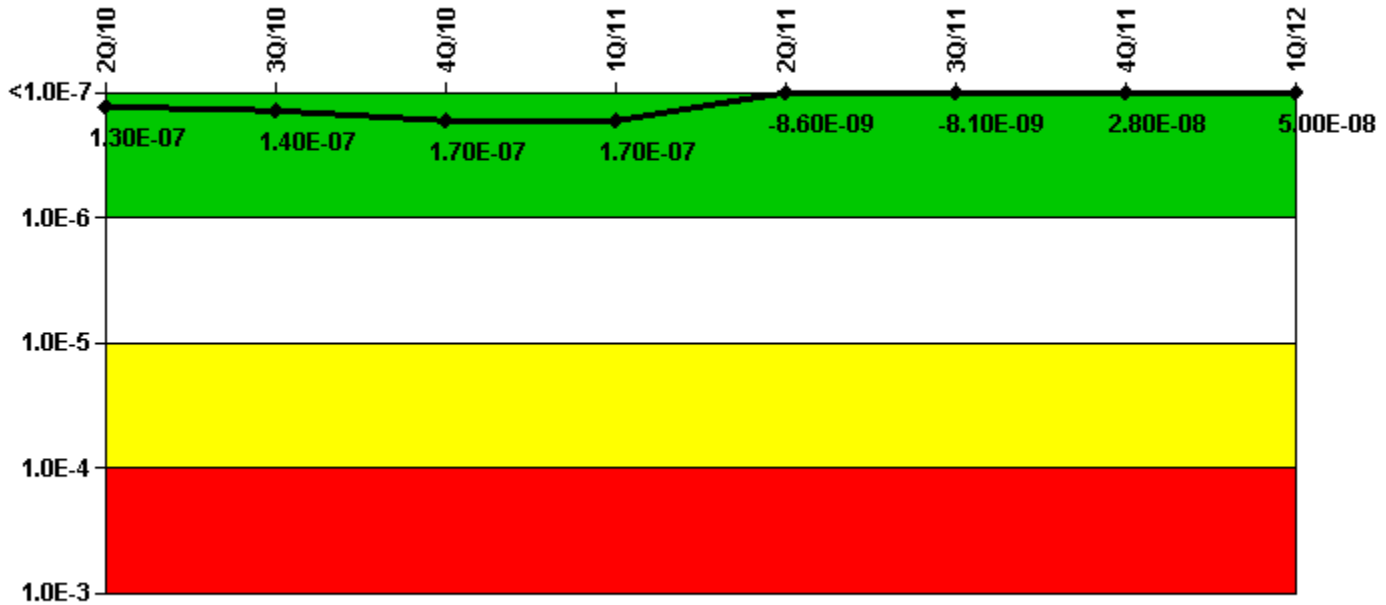
1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

4Q/10: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/10: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

2Q/10: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

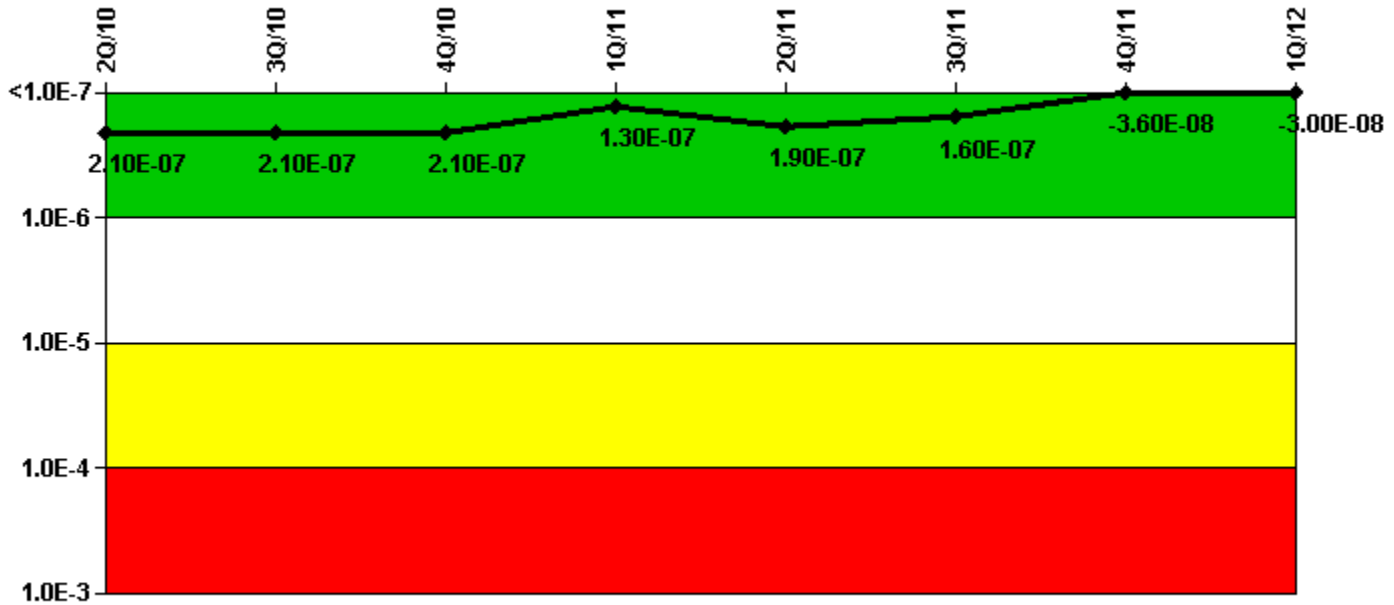
Mitigating Systems Performance Index, Residual Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	1.40E-07	1.45E-07	1.76E-07	1.73E-07	-4.29E-09	-3.89E-09	3.23E-08	5.50E-08
URI (Δ CDF)	-5.87E-09	-5.50E-09	-5.59E-09	-4.58E-09	-4.26E-09	-4.17E-09	-4.15E-09	-5.25E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.40E-07	1.70E-07	1.70E-07	-8.60E-09	-8.10E-09	2.80E-08	5.00E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 1Q-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	1.25E-07	1.24E-07	1.25E-07	4.13E-08	1.61E-07	1.34E-07	1.91E-07	1.98E-07
URI (Δ CDF)	8.79E-08	8.78E-08	8.77E-08	8.78E-08	2.75E-08	2.54E-08	-2.27E-07	-2.27E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.10E-07	2.10E-07	2.10E-07	1.30E-07	1.90E-07	1.60E-07	-3.60E-08	-3.00E-08

Licensee Comments:

4Q/11: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping. CR-2011-008863

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

2Q/11: 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

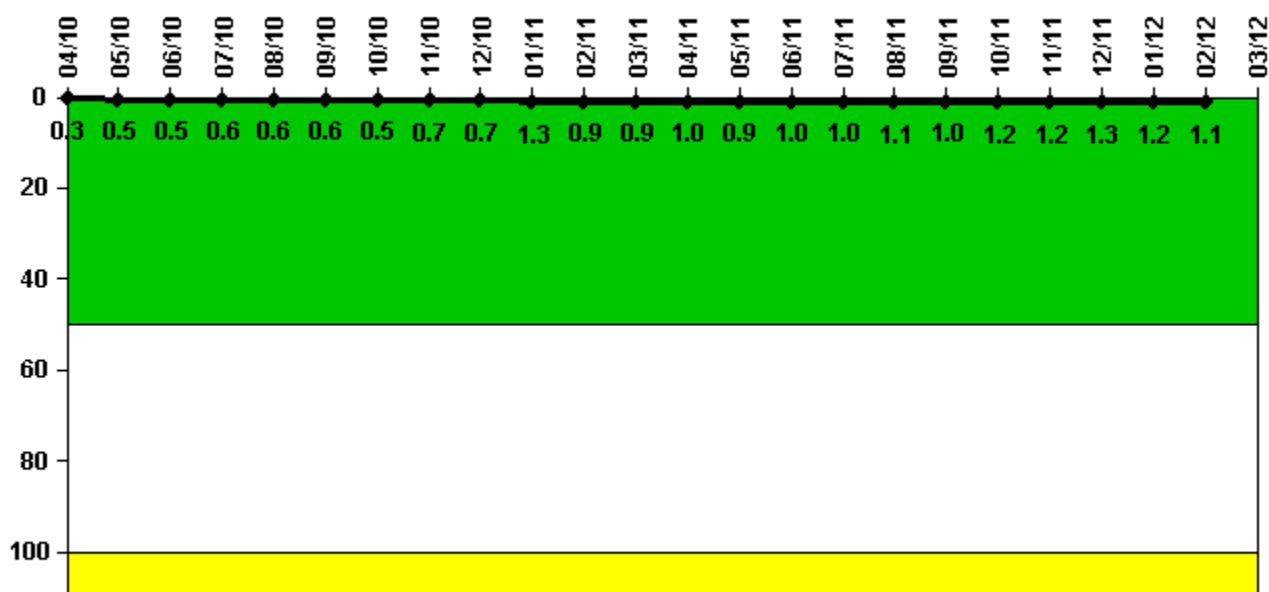
1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization.

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization.

3Q/10: 4-11-12: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping.

2Q/10: 4-11-12: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

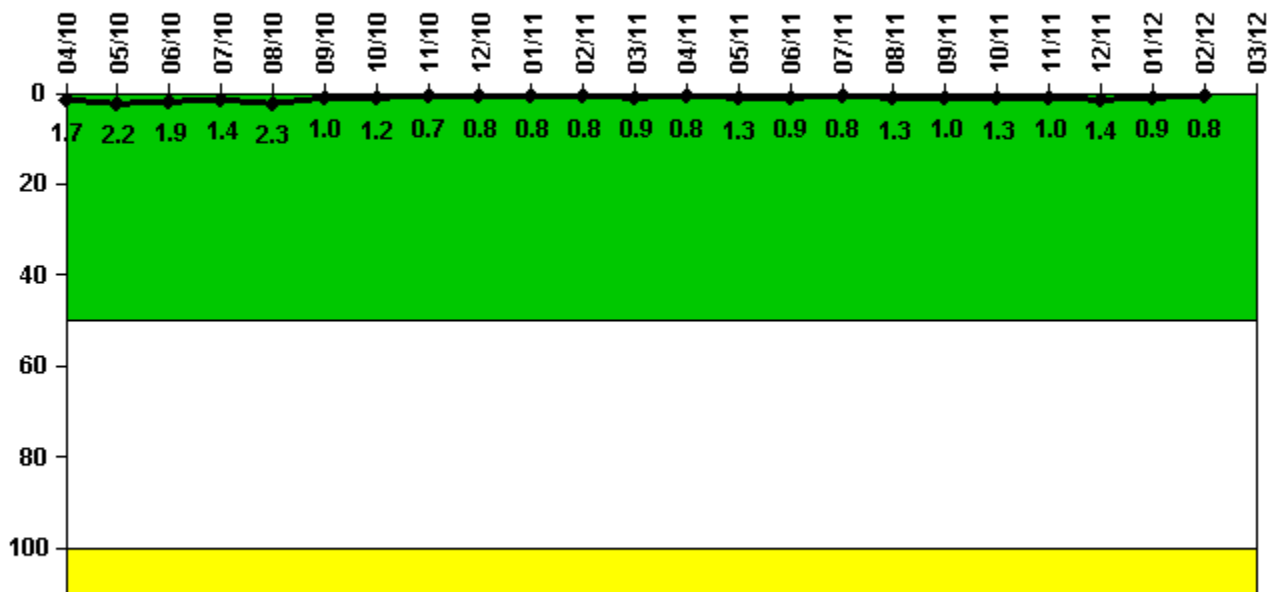
Notes

Reactor Coolant System Activity	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum activity	0.003390	0.004800	0.005030	0.005990	0.005840	0.005910	0.005480	0.006660	0.007140	0.006540	0.004740	0.004530
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5
Indicator value	0.3	0.5	0.5	0.6	0.6	0.6	0.5	0.7	0.7	1.3	0.9	0.9
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	0.004750	0.004730	0.004790	0.005080	0.005420	0.004790	0.005870	0.005920	0.006670	0.006150	0.005650	N/A
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	1.0	0.9	1.0	1.0	1.1	1.0	1.2	1.2	1.3	1.2	1.1	N/A

Licensee Comments:

3/12: Per NEI 99-02 "If in the entire month, plant conditions do not require RCS activity to be calculated, the data field is left blank for that month." Calvert Cliffs Unit 1 was in a refueling outage and shutdown for the entire month of March, 2012.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

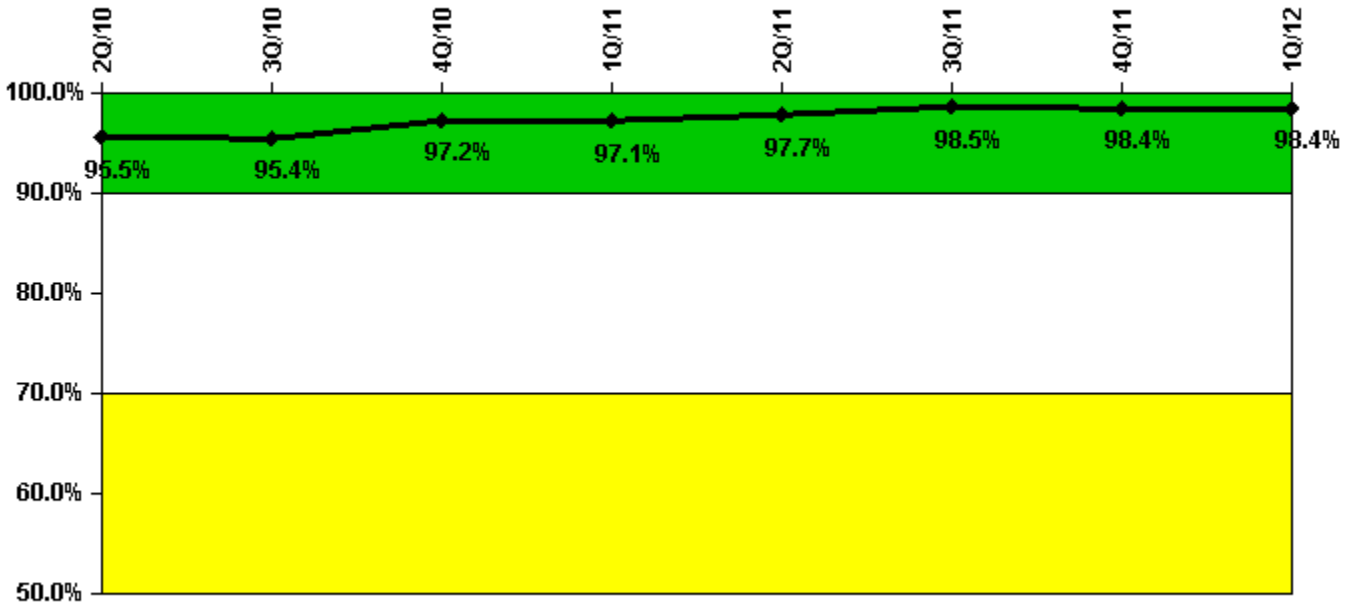
Notes

Reactor Coolant System Leakage	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum leakage	0.168	0.224	0.194	0.140	0.230	0.100	0.120	0.070	0.080	0.080	0.080	0.090
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	1.7	2.2	1.9	1.4	2.3	1.0	1.2	0.7	0.8	0.8	0.8	0.9
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	0.080	0.130	0.090	0.080	0.130	0.100	0.130	0.100	0.140	0.090	0.080	N/A
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	0.8	1.3	0.9	0.8	1.3	1.0	1.3	1.0	1.4	0.9	0.8	N/A

Licensee Comments:

3/12: Per NEI 99-02 "If in the entire month, plant conditions do not require RCS activity to be calculated, the data field is left blank for that month." Calvert Cliffs Unit 1 was in a refueling outage and shutdown for the entire month of March, 2012.

Drill/Exercise Performance



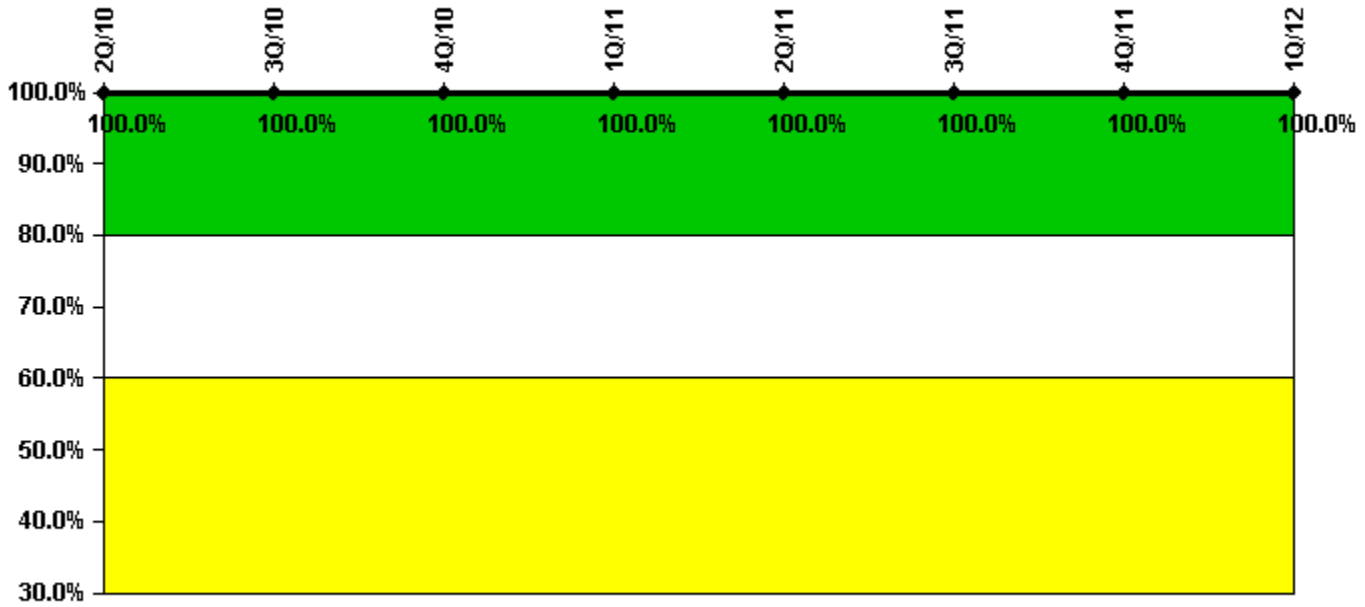
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	23.0	76.0	53.0	4.0	58.0	30.0	56.0	5.0
Total opportunities	23.0	78.0	54.0	4.0	59.0	30.0	57.0	5.0
Indicator value	95.5%	95.4%	97.2%	97.1%	97.7%	98.5%	98.4%	98.4%

Licensee Comments: none

ERO Drill Participation



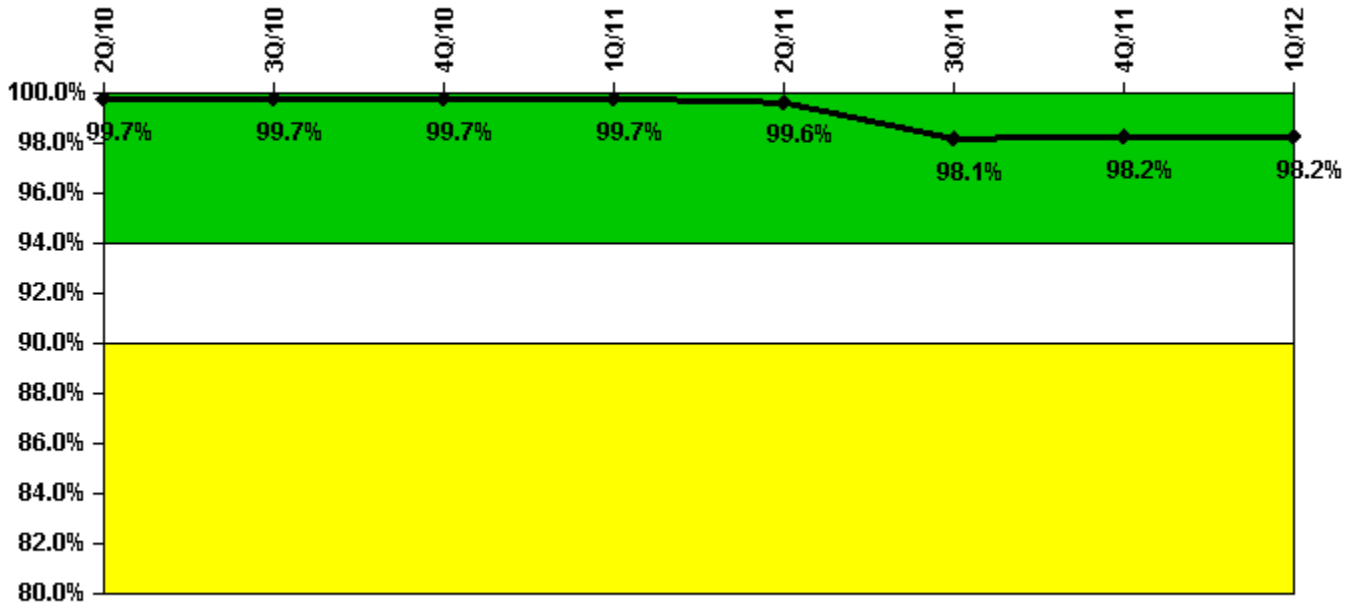
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	87.0	86.0	88.0	85.0	88.0	83.0	84.0	86.0
Total Key personnel	87.0	86.0	88.0	85.0	88.0	83.0	84.0	86.0
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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	948	948	940	949	945	889	946	947
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.7%	99.7%	99.7%	99.6%	98.1%	98.2%	98.2%

Licensee Comments:

3Q/11: ANS test was misinterpreted and incorrectly reported in 3Q2011. The system engineer caught the error and Licensing corrected in CDE in 1Q2012. CR-2012-000541.

Occupational Exposure Control Effectiveness



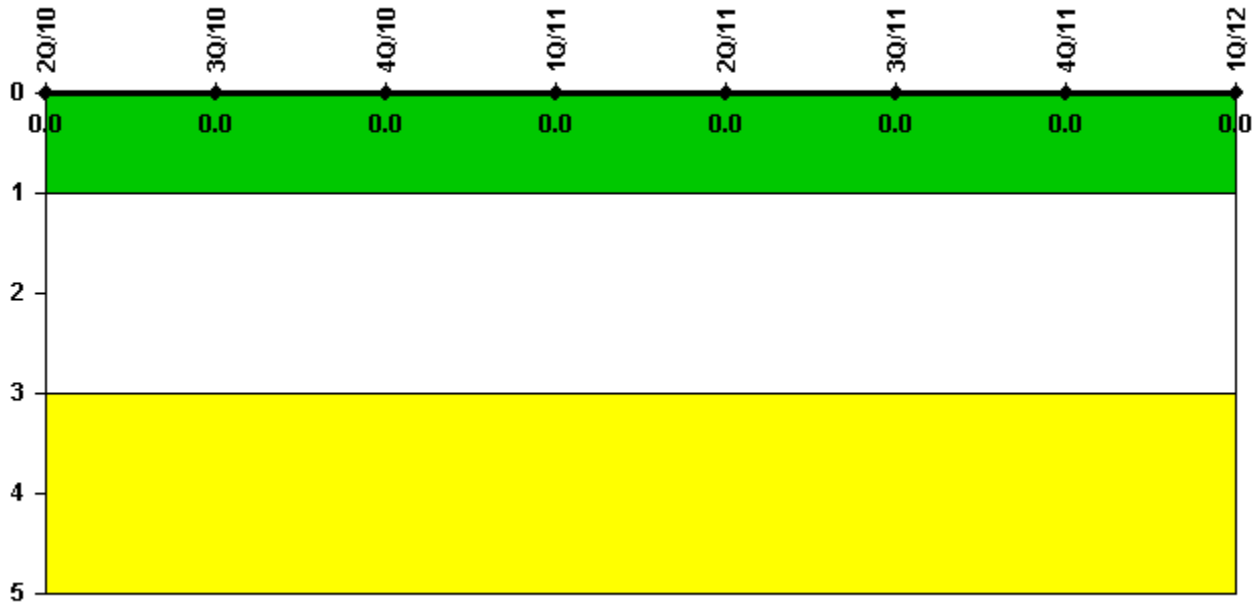
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/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

[Security](#) information not publicly available.