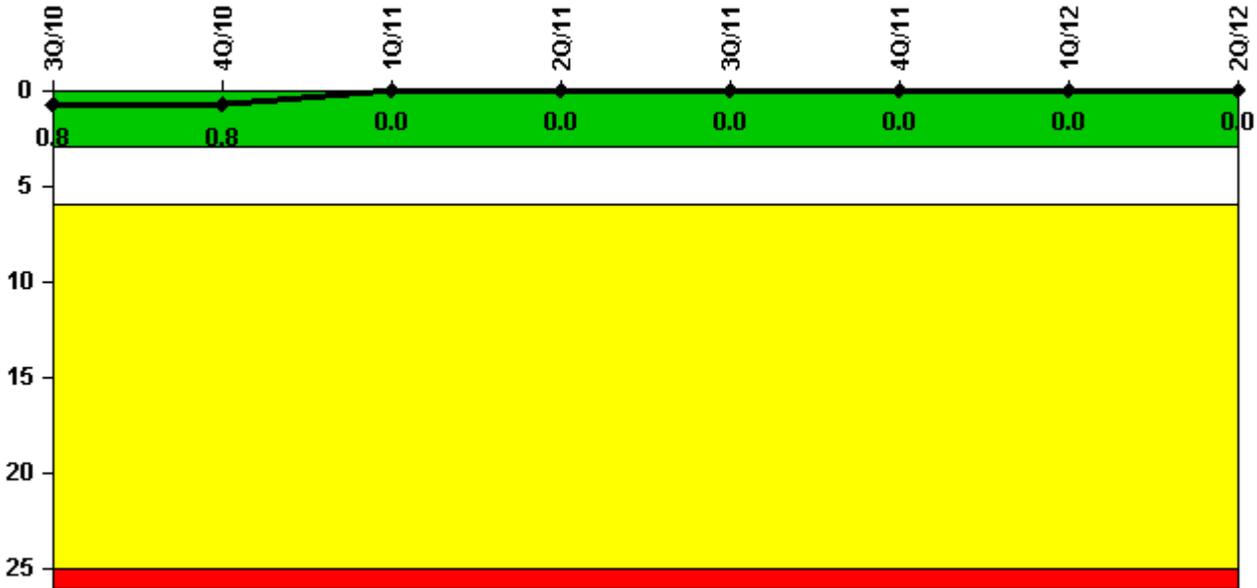


# Calvert Cliffs 2

## 2Q/2012 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



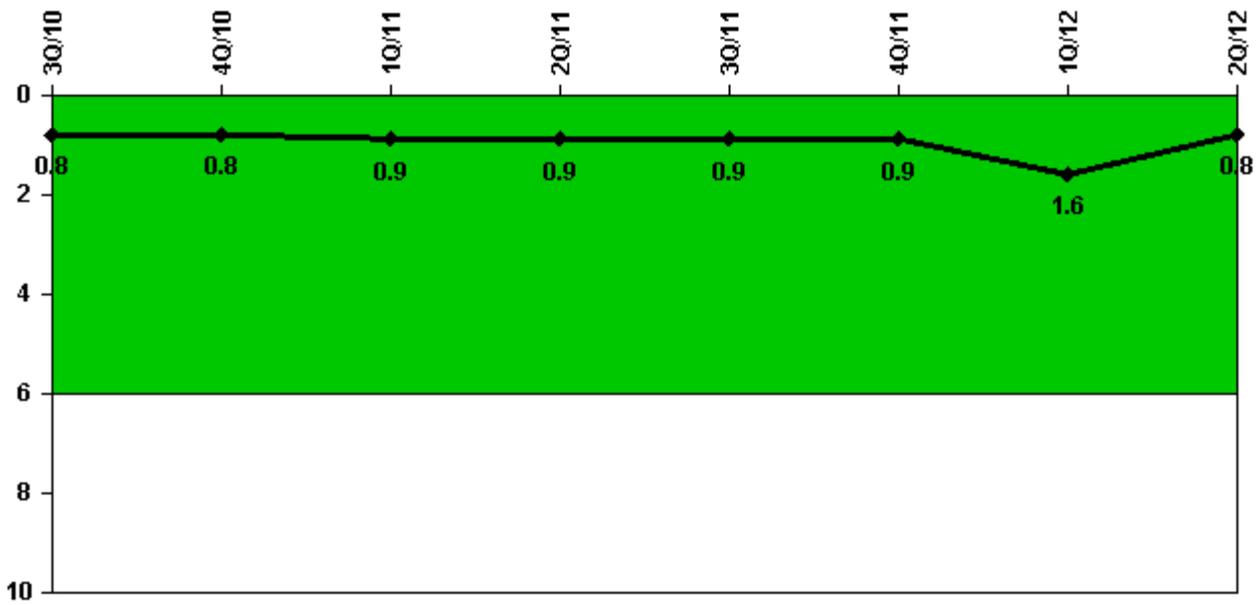
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	1475.6	2184.0	2208.0	2209.0	2183.0	2184.0
Indicator value	0.8	0.8	0	0	0	0	0	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



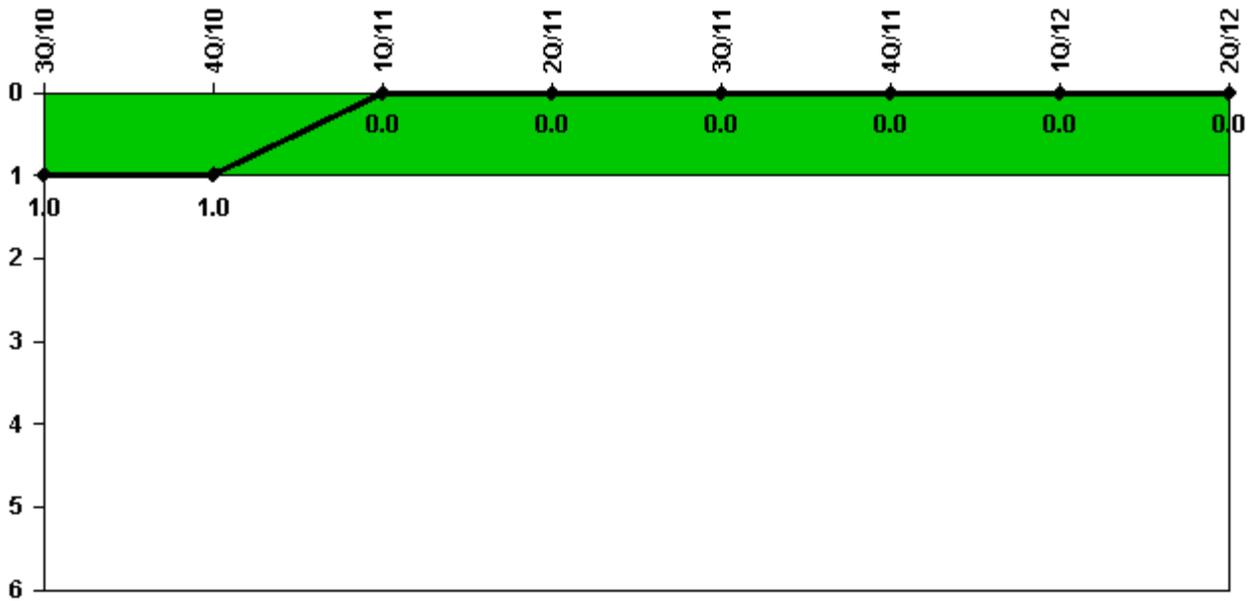
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	0	0	0	1.0	0	0	1.0	0
Critical hours	2208.0	2209.0	1475.6	2184.0	2208.0	2209.0	2183.0	2184.0
Indicator value	0.8	0.8	0.9	0.9	0.9	0.9	1.6	0.8

Licensee Comments: none

## Unplanned Scrams with Complications



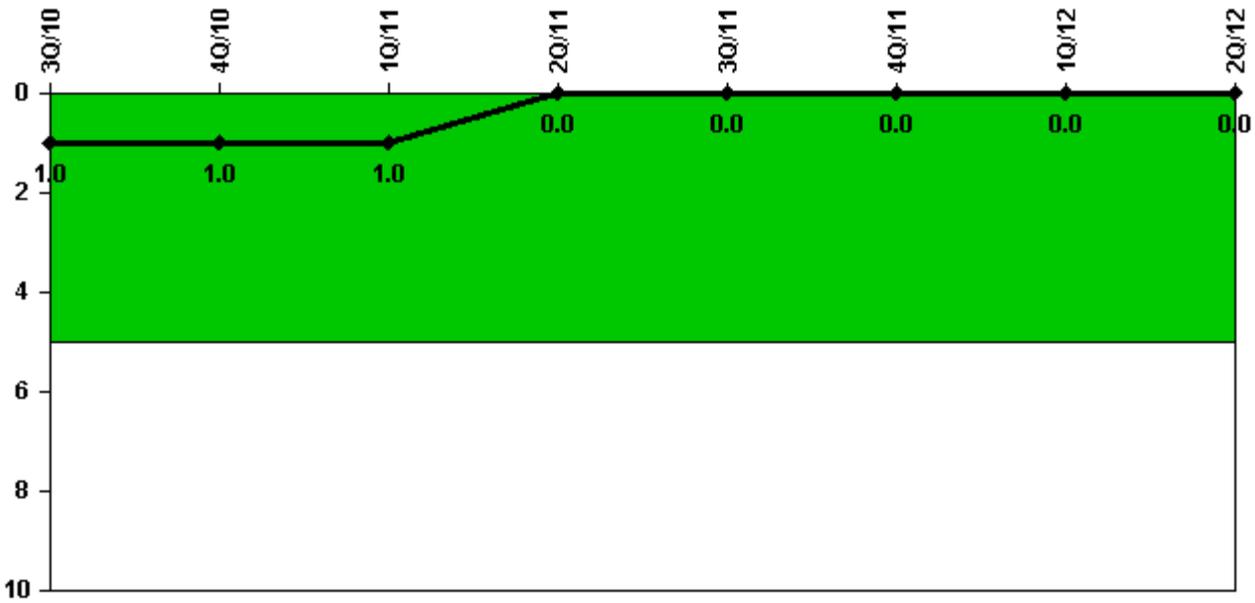
Thresholds: White > 1.0

### Notes

Unplanned Scrams with Complications	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

## Safety System Functional Failures (PWR)



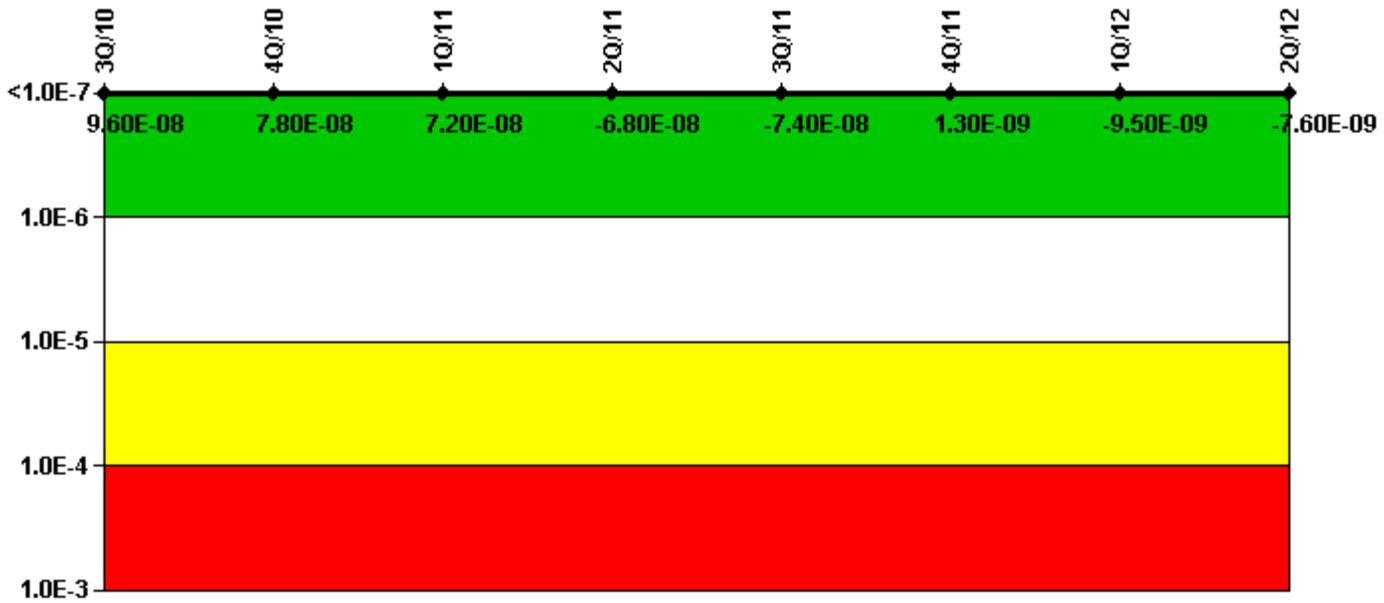
Thresholds: White > 5.0

### Notes

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

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

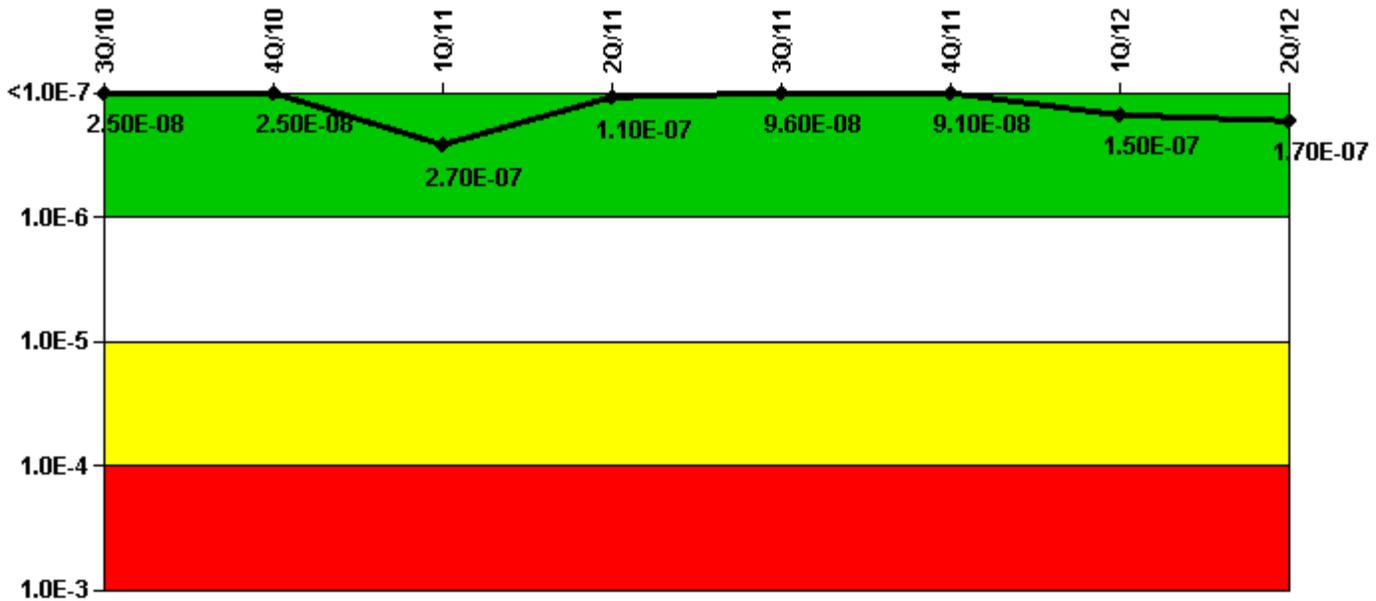
Mitigating Systems Performance Index, Emergency AC Power System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	1.11E-07	9.08E-08	8.65E-08	2.82E-09	-4.23E-09	8.01E-08	6.53E-08	6.53E-08
URI ( $\Delta$ CDF)	-1.45E-08	-1.29E-08	-1.42E-08	-7.07E-08	-6.94E-08	-7.88E-08	-7.48E-08	-7.29E-08
PLE	NO							
Indicator value	9.60E-08	7.80E-08	7.20E-08	-6.80E-08	-7.40E-08	1.30E-09	-9.50E-09	-7.60E-09

## Licensee Comments:

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)

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

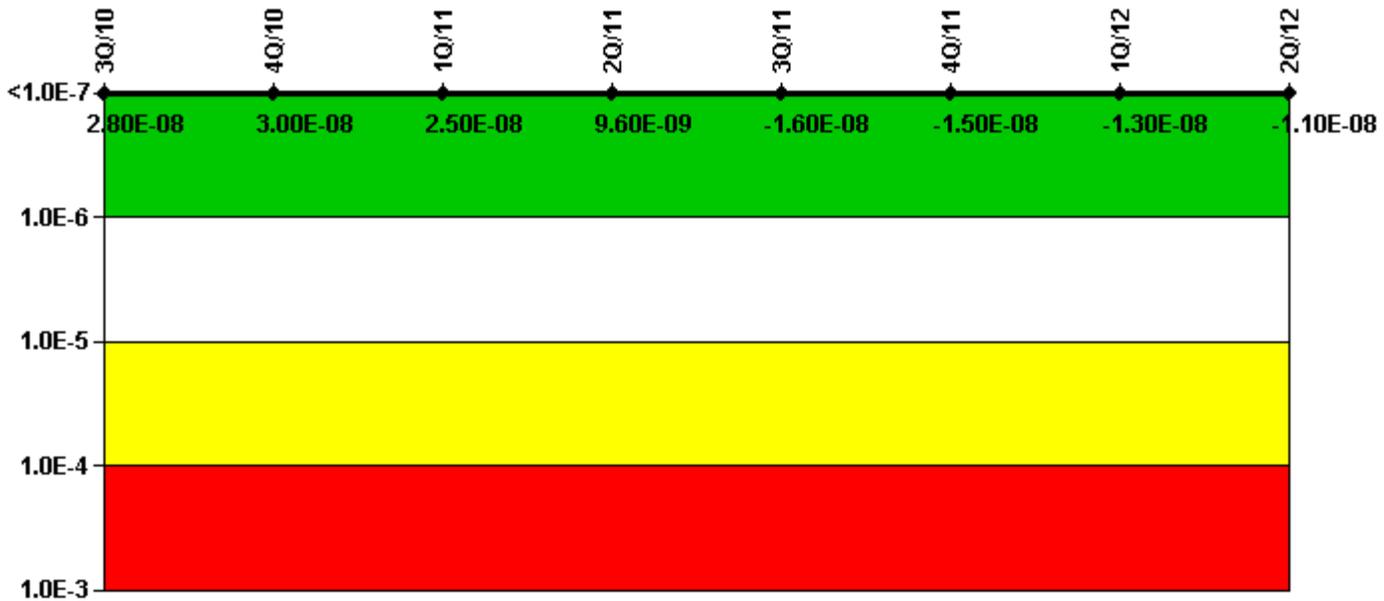
Mitigating Systems Performance Index, High Pressure Injection System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	8.72E-08	8.65E-08	1.33E-07	1.64E-08	5.59E-09	-8.25E-10	4.27E-08	5.53E-08
URI ( $\Delta$ CDF)	-6.18E-08	-6.16E-08	1.33E-07	9.42E-08	9.06E-08	9.14E-08	1.09E-07	1.11E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.50E-08	2.50E-08	2.70E-07	1.10E-07	9.60E-08	9.10E-08	1.50E-07	1.70E-07

Licensee Comments:

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)

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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	-6.25E-09	-6.61E-09	-4.83E-09	-2.80E-09	-2.77E-09	-2.06E-09	-2.46E-09	-8.59E-10
URI ( $\Delta$ CDF)	3.41E-08	3.62E-08	3.00E-08	1.24E-08	-1.28E-08	-1.26E-08	-1.06E-08	-1.03E-08
PLE	NO							
Indicator value	2.80E-08	3.00E-08	2.50E-08	9.60E-09	-1.60E-08	-1.50E-08	-1.30E-08	-1.10E-08

## Licensee Comments:

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

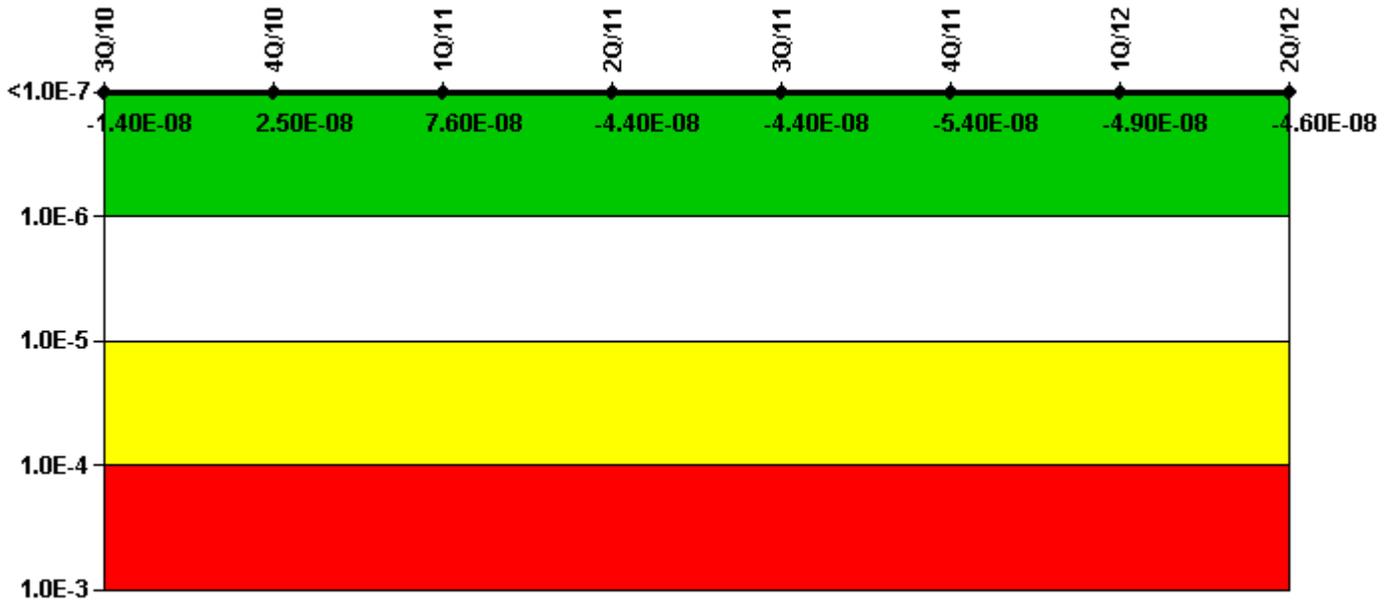
1Q/11: Changed PRA Parameter(s). Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

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: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/10: Changed PRA Parameter(s). 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

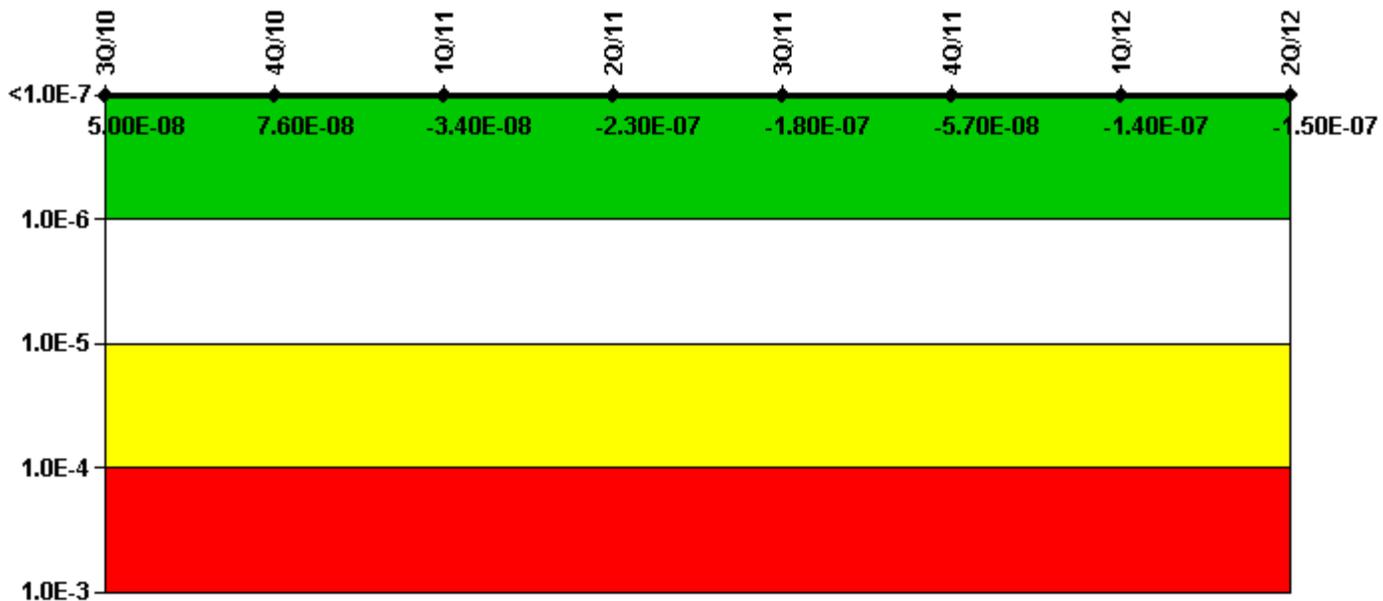
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	-1.86E-08	2.06E-08	7.31E-08	-4.54E-08	-4.51E-08	-5.46E-08	-4.43E-08	-4.10E-08
URI ( $\Delta$ CDF)	4.19E-09	4.10E-09	2.91E-09	9.15E-10	6.91E-10	4.25E-10	-4.61E-09	-4.62E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	2.50E-08	7.60E-08	-4.40E-08	-4.40E-08	-5.40E-08	-4.90E-08	-4.60E-08

### Licensee Comments:

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)

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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	6.56E-08	9.20E-08	9.29E-08	7.52E-09	5.79E-08	1.81E-07	9.35E-08	8.44E-08
URI ( $\Delta$ CDF)	-1.59E-08	-1.56E-08	-1.27E-07	-2.35E-07	-2.39E-07	-2.39E-07	-2.38E-07	-2.38E-07
PLE	NO							
Indicator value	5.00E-08	7.60E-08	-3.40E-08	-2.30E-07	-1.80E-07	-5.70E-08	-1.40E-07	-1.50E-07

### 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: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA 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. 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

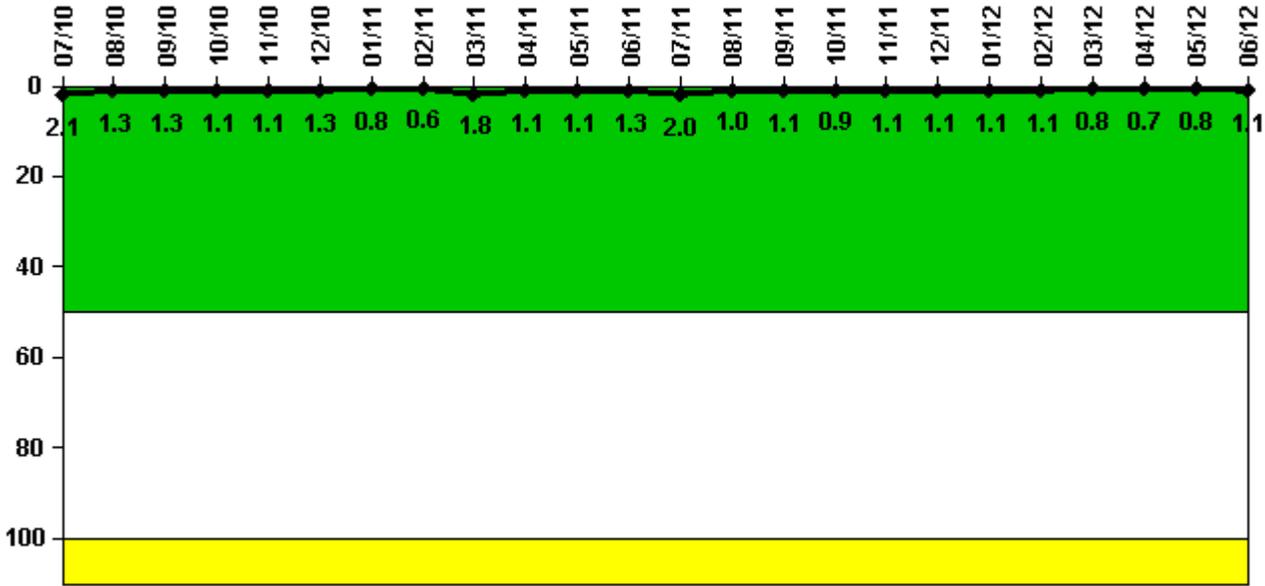
1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization. 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)



Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.4	0.3
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Licensee Comments: none

### Reactor Coolant System Leakage



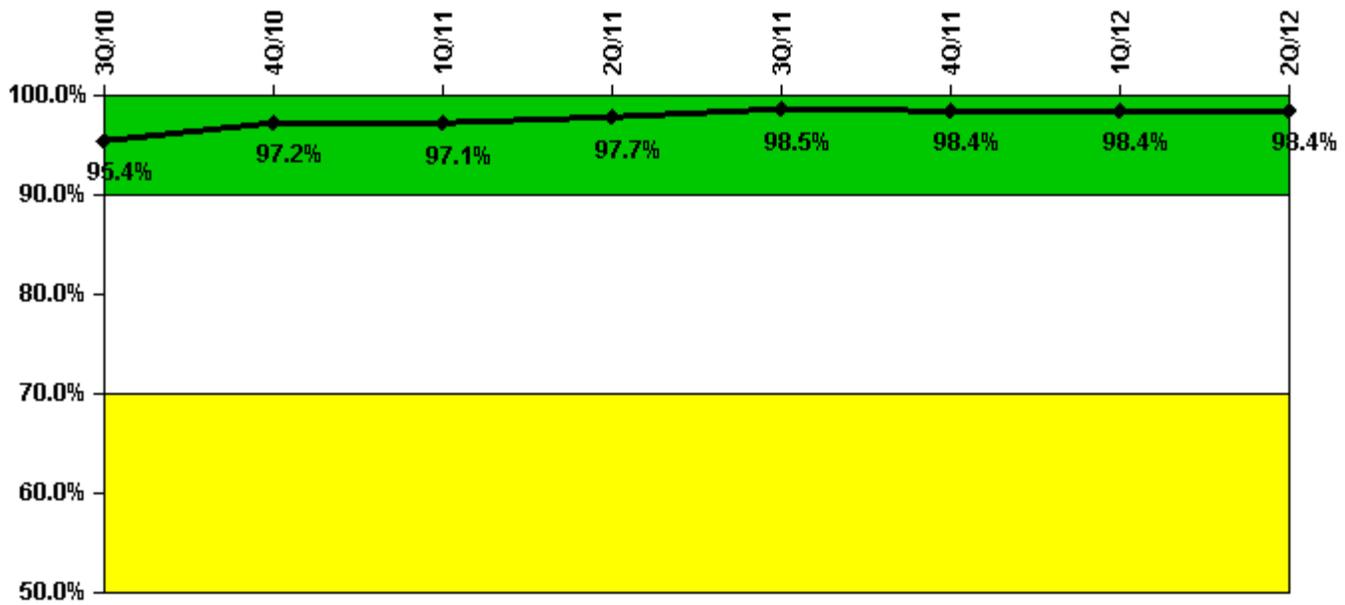
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	0.210	0.130	0.130	0.110	0.110	0.130	0.080	0.060	0.180	0.110	0.110	0.130
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	2.1	1.3	1.3	1.1	1.1	1.3	0.8	0.6	1.8	1.1	1.1	1.3
Reactor Coolant System Leakage	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum leakage	0.200	0.100	0.110	0.090	0.110	0.110	0.110	0.110	0.080	0.070	0.080	0.110
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	2.0	1.0	1.1	0.9	1.1	1.1	1.1	1.1	0.8	0.7	0.8	1.1

Licensee Comments: none

## Drill/Exercise Performance



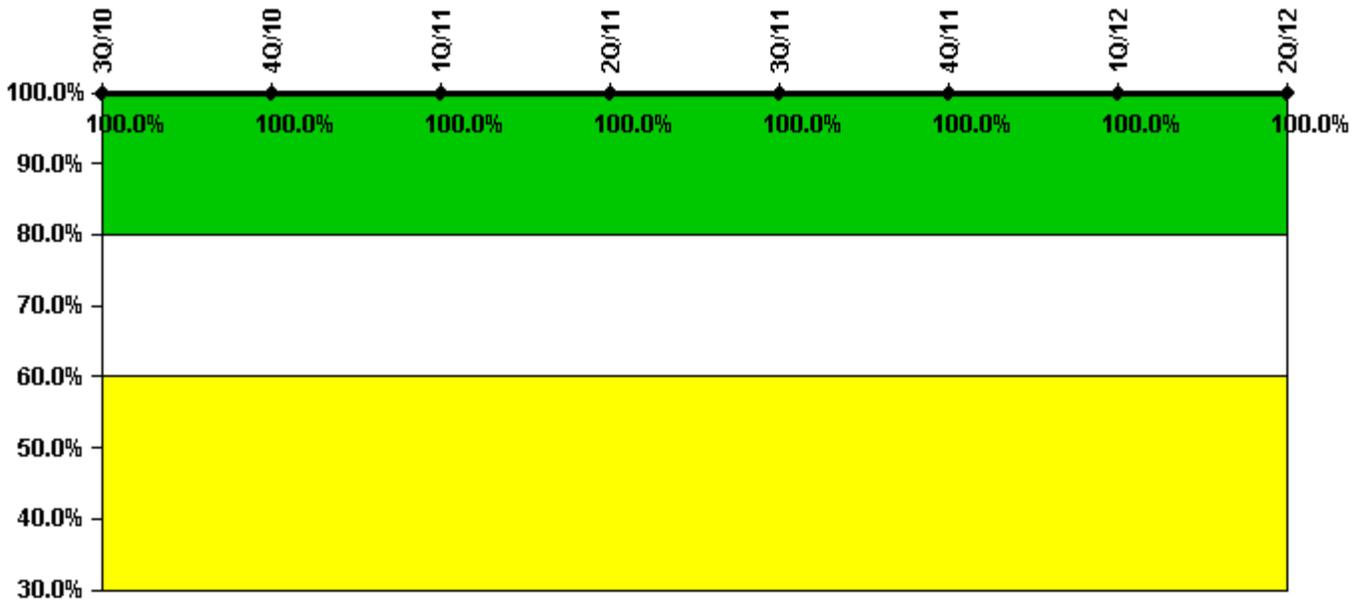
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful opportunities	76.0	53.0	4.0	58.0	30.0	56.0	5.0	25.0
Total opportunities	78.0	54.0	4.0	59.0	30.0	57.0	5.0	25.0
Indicator value	95.4%	97.2%	97.1%	97.7%	98.5%	98.4%	98.4%	98.4%

Licensee Comments: none

## ERO Drill Participation



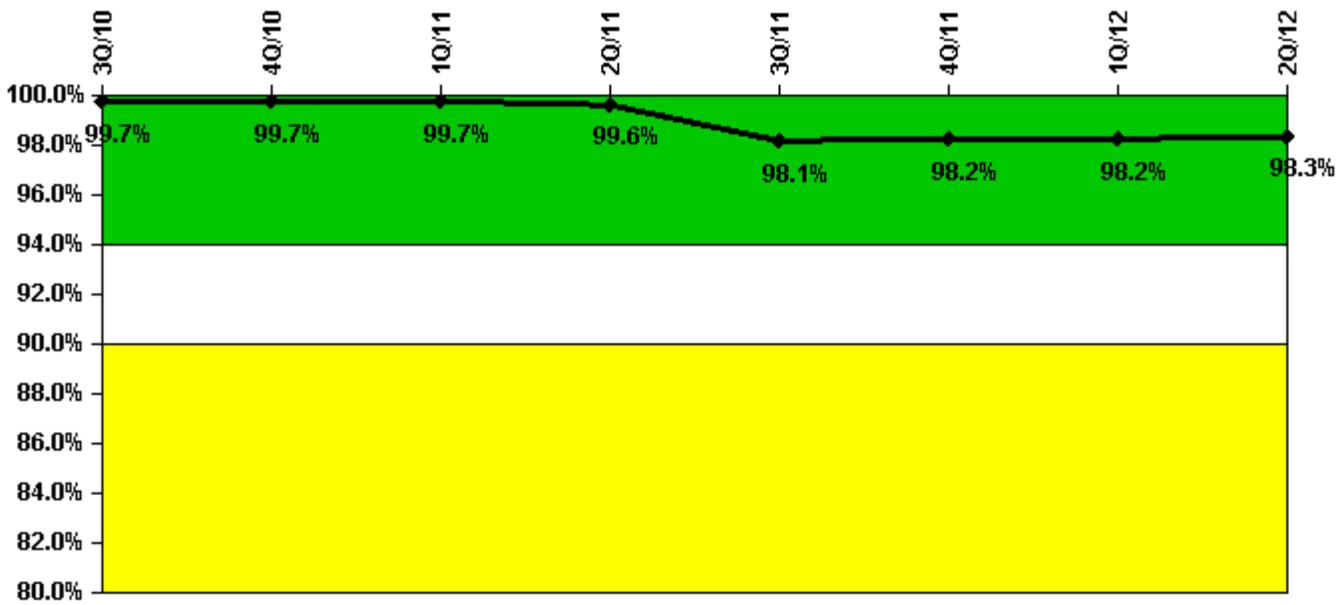
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Participating Key personnel	86.0	88.0	85.0	88.0	83.0	84.0	86.0	80.0
Total Key personnel	86.0	88.0	85.0	88.0	83.0	84.0	86.0	80.0
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%

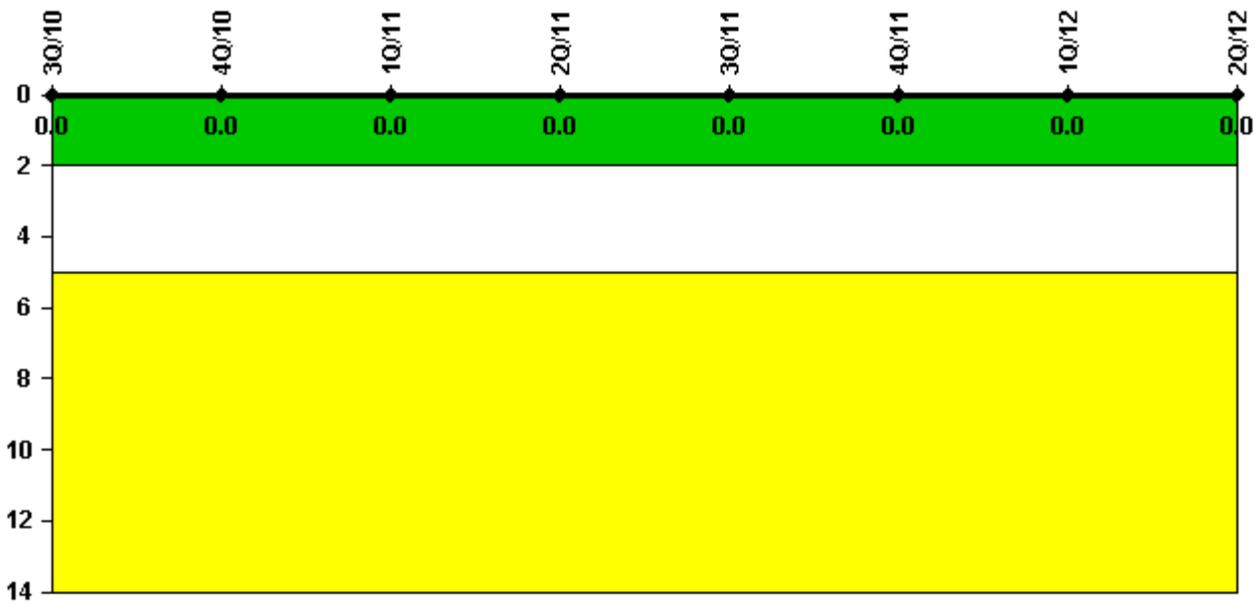
### Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	948	940	949	945	889	946	947	948
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.7%	99.7%	99.6%	98.1%	98.2%	98.2%	98.3%

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



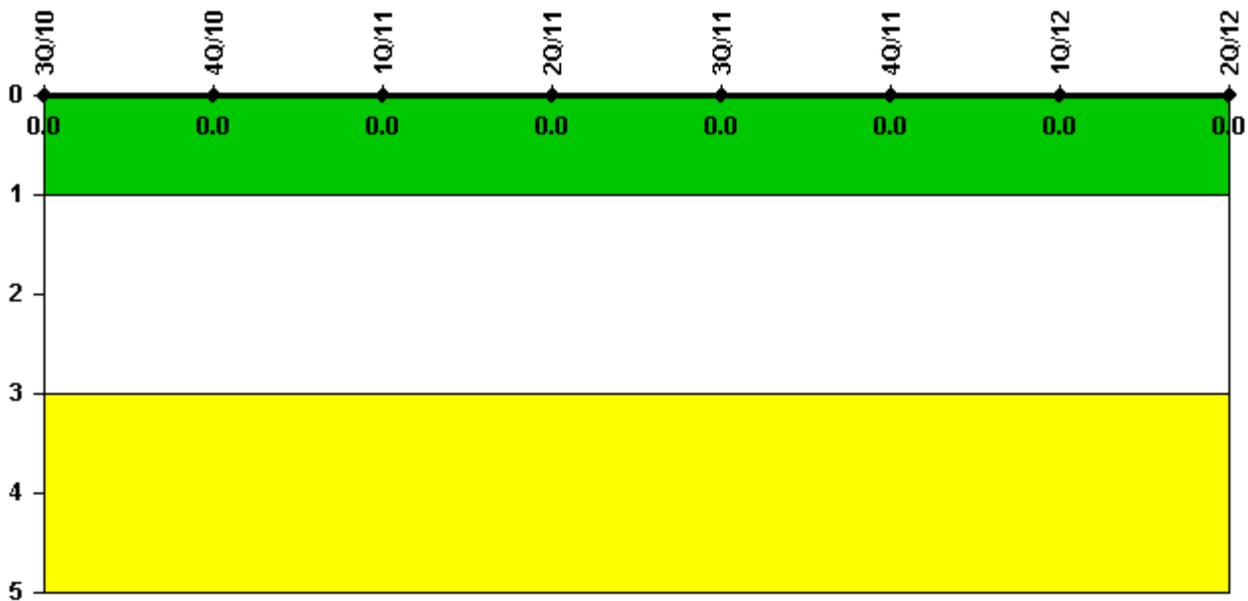
Thresholds: White > 2.0 Yellow > 5.0

### Notes

Occupational Exposure Control Effectiveness	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/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

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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.

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