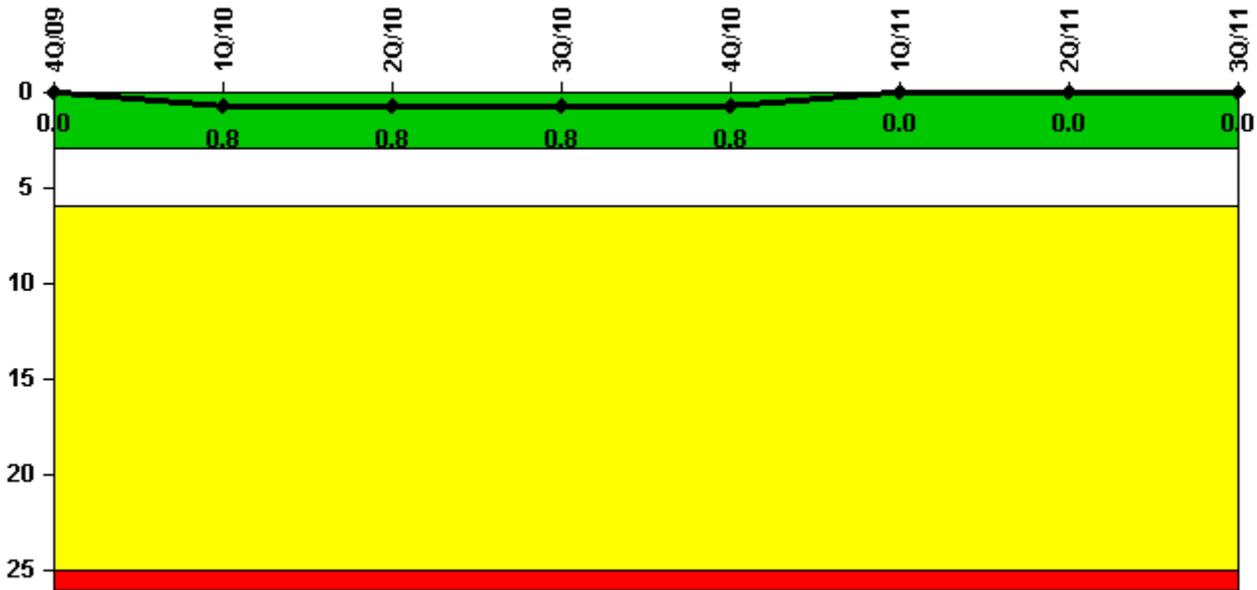


Calvert Cliffs 2

3Q/2011 Performance Indicators

Licensee's General Comments: Several changes were made in ePix due to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March. Other changes were made due to assignment of MSPI Unit effect for the AFW alternate Unit supply valves to the affected Unit all the way back to the MSPI origin in 2Q2006.

Unplanned Scrams per 7000 Critical Hrs



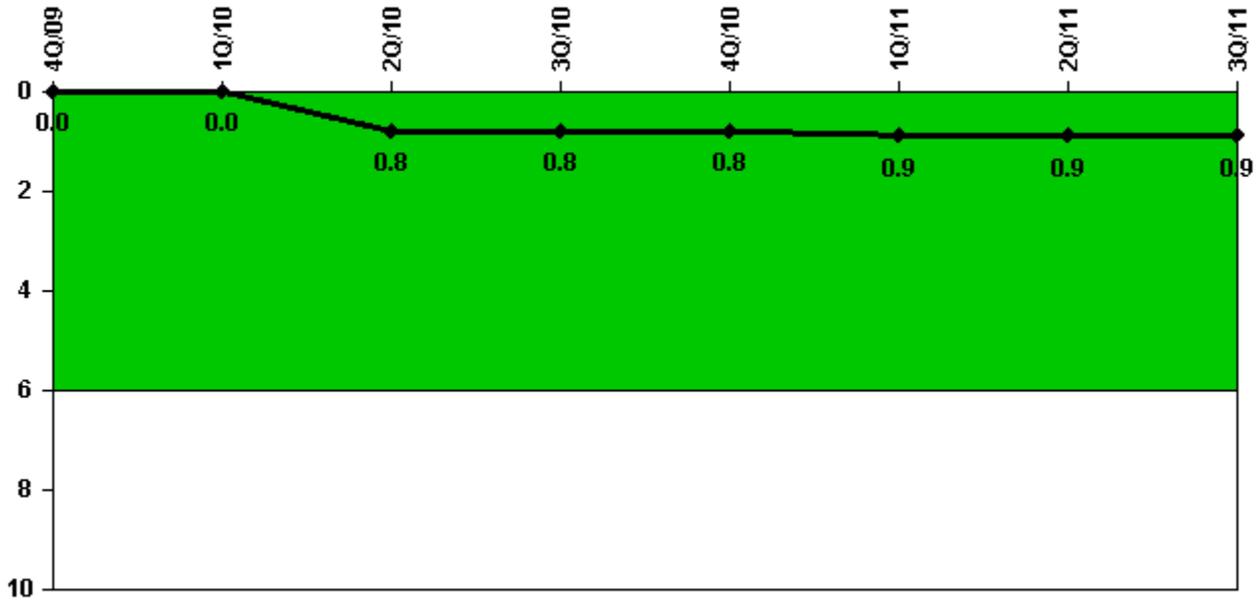
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	1941.7	2184.0	2208.0	2209.0	1475.6	2184.0	2208.0
Indicator value	0	0.8	0.8	0.8	0.8	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



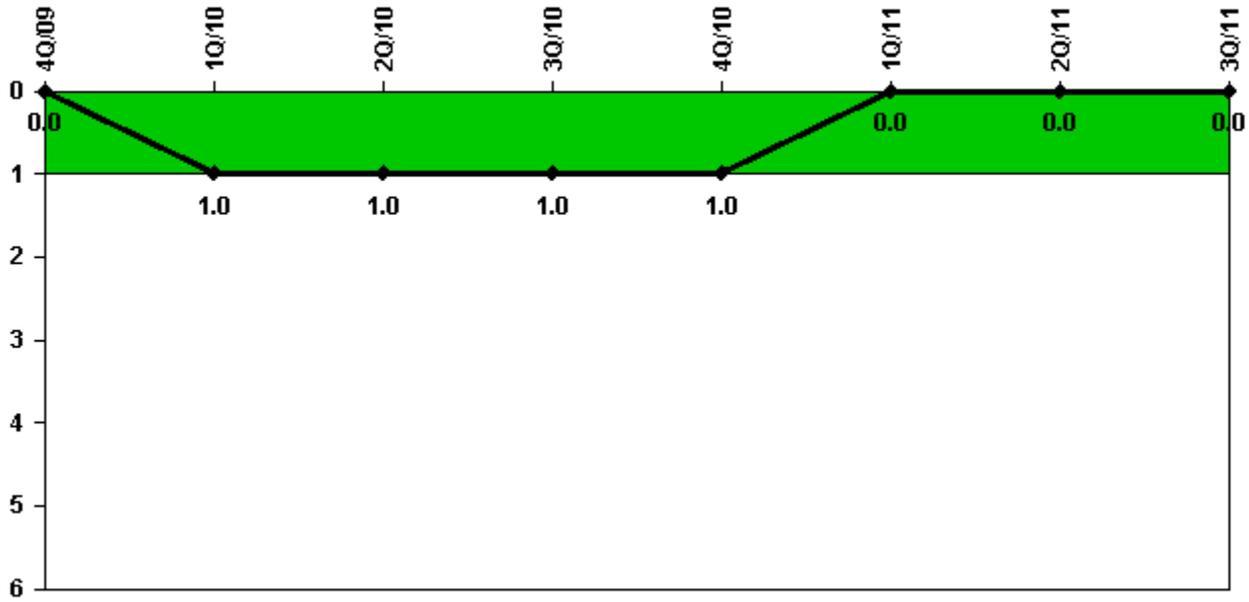
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	0	0	1.0	0	0	0	1.0	0
Critical hours	2209.0	1941.7	2184.0	2208.0	2209.0	1475.6	2184.0	2208.0
Indicator value	0	0	0.8	0.8	0.8	0.9	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



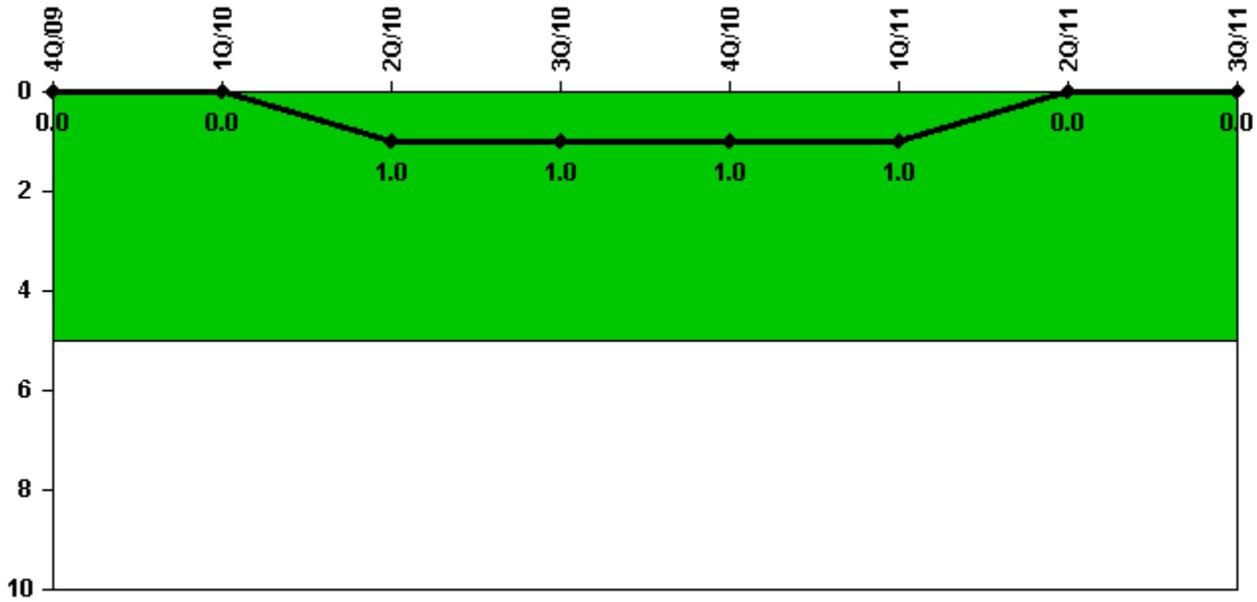
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Scrams with complications	0	1.0	0	0	0	0	0	0
Indicator value	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



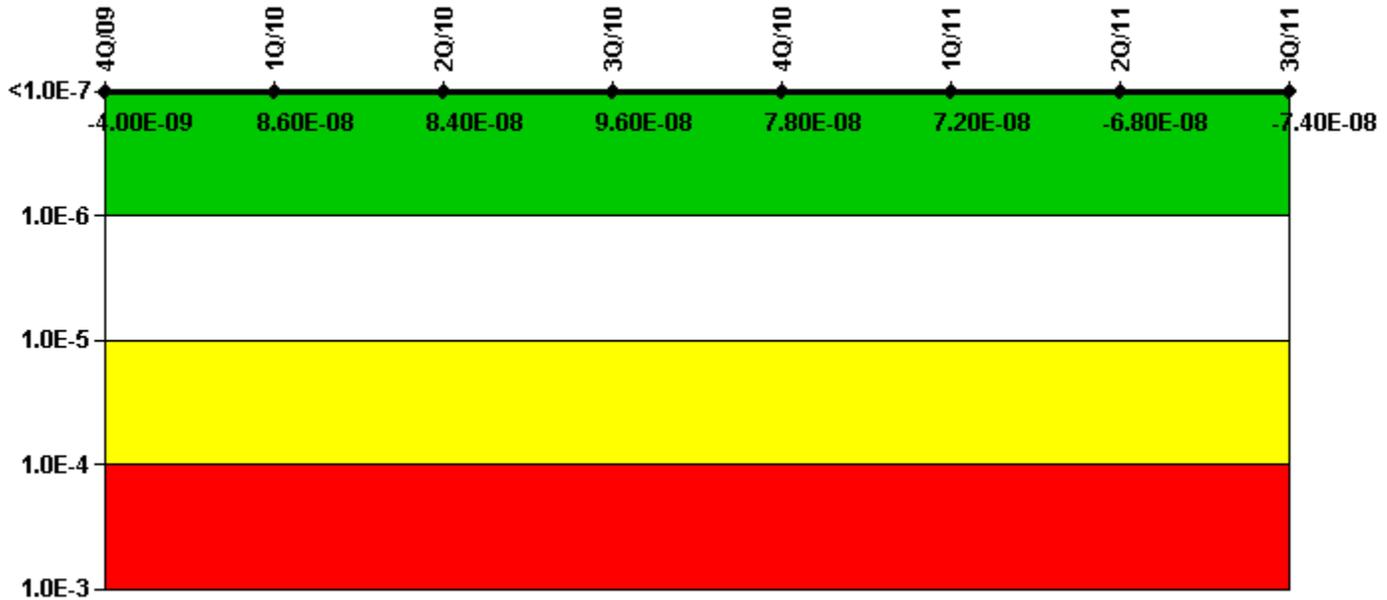
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Safety System Functional Failures	0	0	1	0	0	0	0	0
Indicator value	0	0	1	1	1	1	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

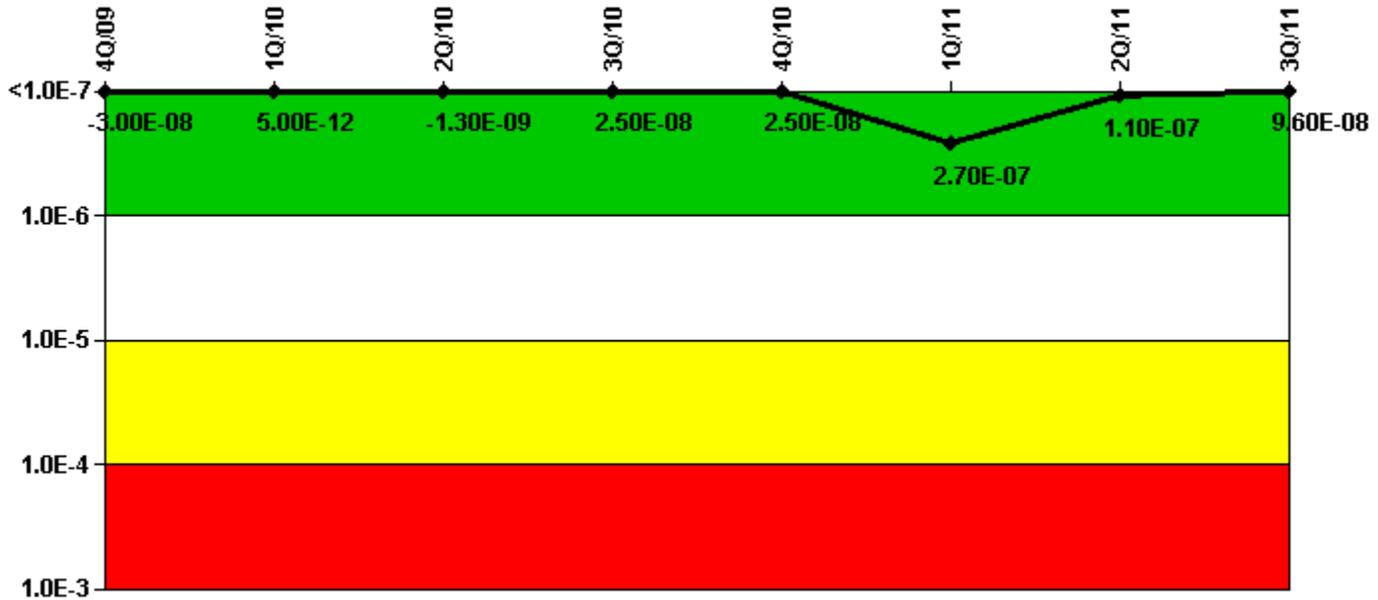
Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	7.00E-08	1.00E-07	9.77E-08	1.11E-07	9.08E-08	8.65E-08	2.82E-09	-4.23E-09
URI (Δ CDF)	-7.40E-08	-1.46E-08	-1.40E-08	-1.45E-08	-1.29E-08	-1.42E-08	-7.07E-08	-6.94E-08
PLE	NO							
Indicator value	-4.00E-09	8.60E-08	8.40E-08	9.60E-08	7.80E-08	7.20E-08	-6.80E-08	-7.40E-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)

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

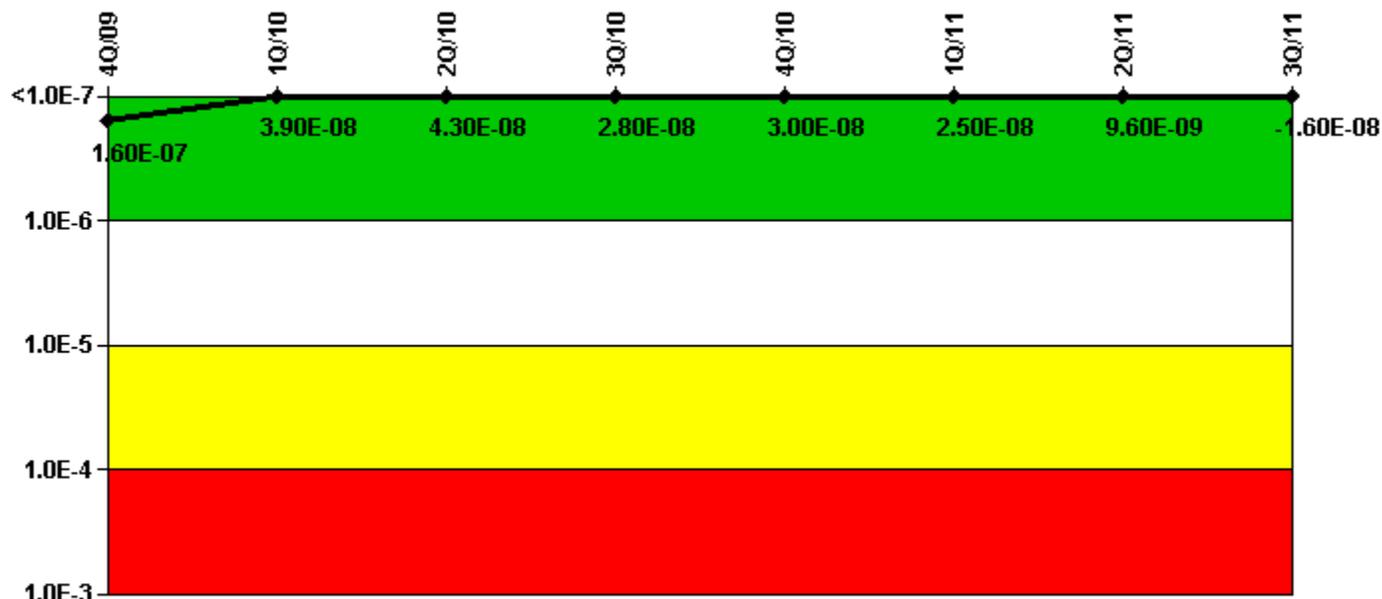
Mitigating Systems Performance Index, High Pressure Injection System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	4.10E-08	6.40E-08	6.19E-08	8.72E-08	8.65E-08	1.33E-07	1.64E-08	5.59E-09
URI (Δ CDF)	-7.10E-08	-6.40E-08	-6.31E-08	-6.18E-08	-6.16E-08	1.33E-07	9.42E-08	9.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-08	5.00E-12	-1.30E-09	2.50E-08	2.50E-08	2.70E-07	1.10E-07	9.60E-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/10: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

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/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	3.10E-09	1.31E-08	1.24E-08	-6.25E-09	-6.61E-09	-4.83E-09	-2.80E-09	-2.77E-09
URI (Δ CDF)	1.59E-07	2.54E-08	3.06E-08	3.41E-08	3.62E-08	3.00E-08	1.24E-08	-1.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.60E-07	3.90E-08	4.30E-08	2.80E-08	3.00E-08	2.50E-08	9.60E-09	-1.60E-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)

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)

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

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

4Q/09: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/09: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

2Q/09: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

1Q/09: Risk Cap Invoked. Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

4Q/08: Risk Cap Invoked. Changed PRA Parameter(s). Change in unavailable hours for 23 AFW pump because it was determined that the motor driven AFW flow paths to both Steam Generators were simultaneously isolated for routine maintenance, this effectively removed 23 AFW pump from service. Previous performance of this maintenance was performed on one flow path at a time, which did not remove the pump from service. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/08: Risk Cap Invoked. Changed PRA Parameter(s). Change in unavailable hours for 23 AFW pump because it was determined that the motor driven AFW flow paths to both Steam Generators were simultaneously isolated for routine maintenance, this effectively removed 23 AFW pump from service. Previous performance of this maintenance was performed on one flow path at a time, which did not remove the pump from service. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

2Q/08: Risk Cap Invoked. Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

1Q/08: Risk Cap Invoked. Changed PRA Parameter(s). A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

4Q/07: Risk Cap Invoked. Changed PRA Parameter(s). Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/07: Risk Cap Invoked. Changed PRA Parameter(s). Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

2Q/07: Risk Cap Invoked. Changed PRA Parameter(s). Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

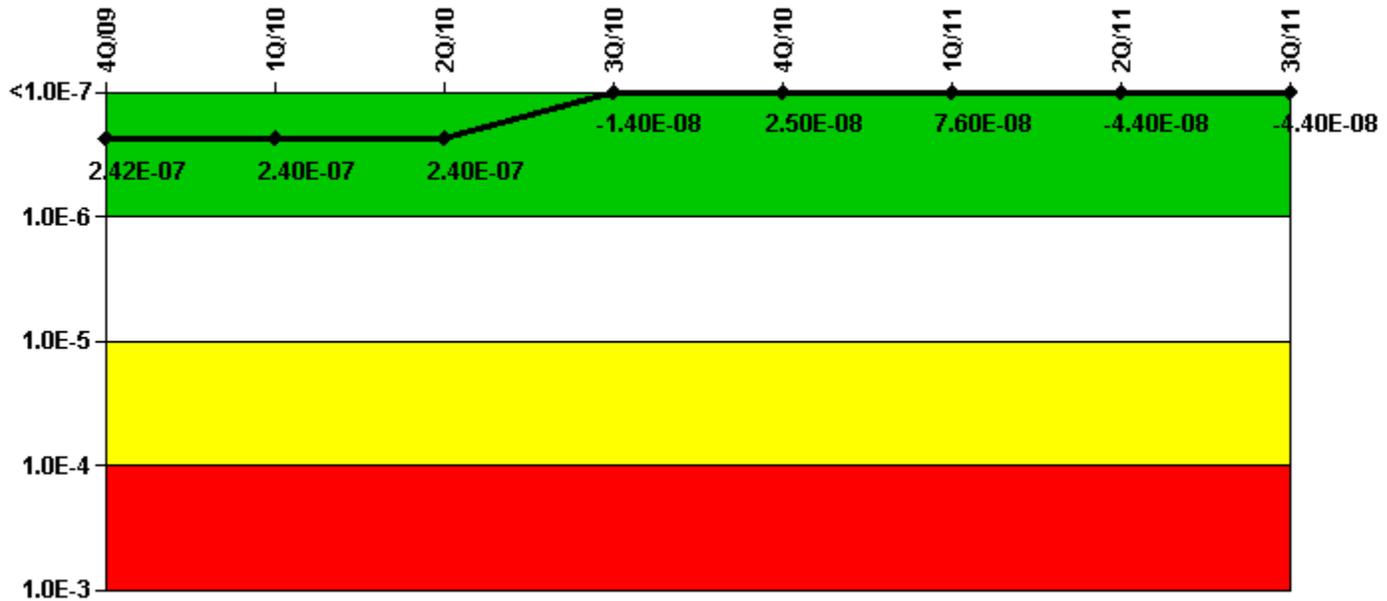
1Q/07: Risk Cap Invoked. Changed PRA Parameter(s). Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

4Q/06: Changed PRA Parameter(s). Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/06: Changed PRA Parameter(s). Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

2Q/06: 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

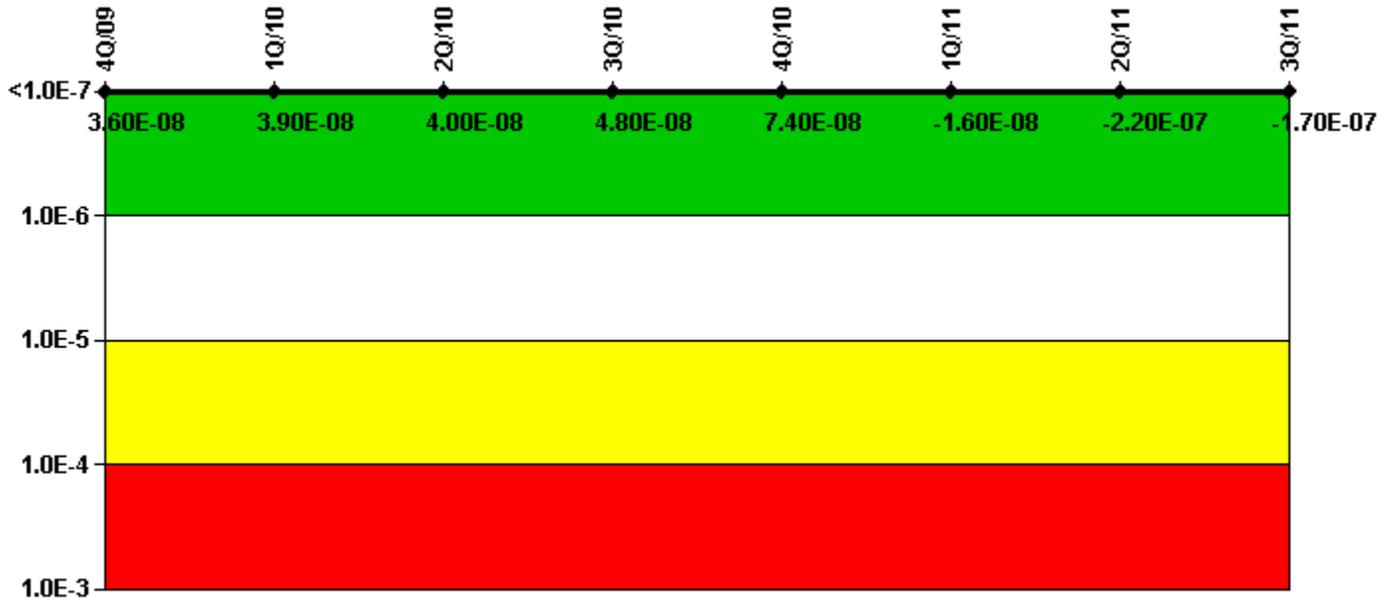
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	2.30E-07	2.25E-07	2.23E-07	-1.86E-08	2.06E-08	7.31E-08	-4.54E-08	-4.51E-08
URI (Δ CDF)	1.20E-08	1.34E-08	1.39E-08	4.19E-09	4.10E-09	2.91E-09	9.15E-10	6.91E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.42E-07	2.40E-07	2.40E-07	-1.40E-08	2.50E-08	7.60E-08	-4.40E-08	-4.40E-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)

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/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	5.40E-08	5.72E-08	5.85E-08	6.56E-08	9.20E-08	9.29E-08	7.52E-09	5.79E-08
URI (Δ CDF)	-1.80E-08	-1.80E-08	-1.80E-08	-1.79E-08	-1.77E-08	-1.09E-07	-2.24E-07	-2.28E-07
PLE	NO							
Indicator value	3.60E-08	3.90E-08	4.00E-08	4.80E-08	7.40E-08	-1.60E-08	-2.20E-07	-1.70E-07

Licensee Comments:

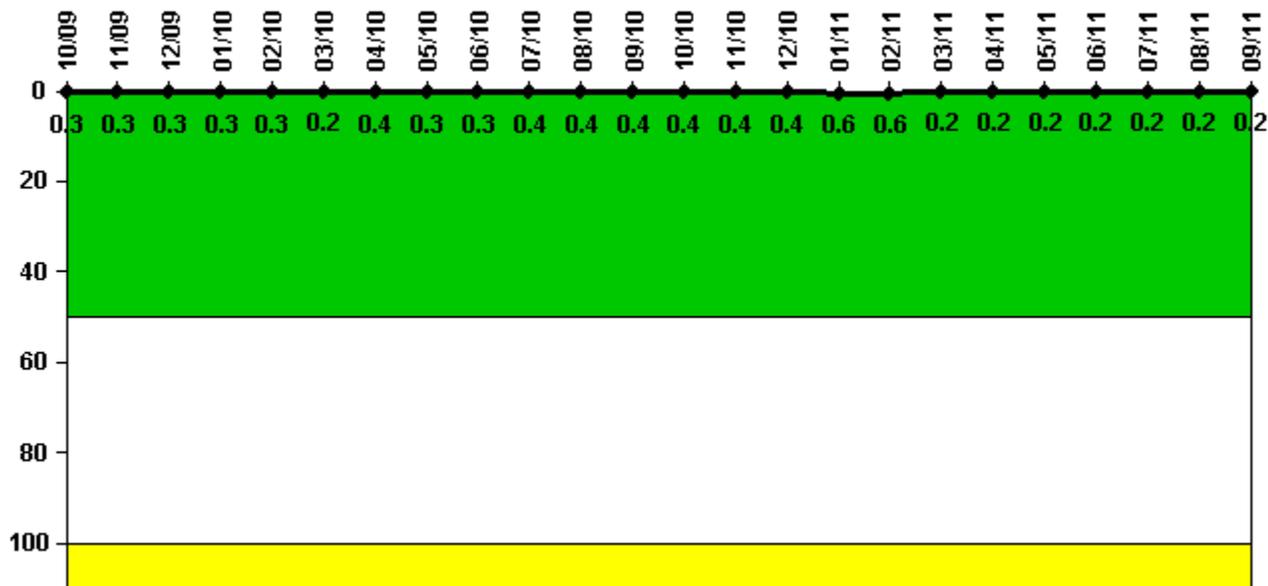
2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

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. 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)

4Q/10: 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)

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

Reactor Coolant System Activity



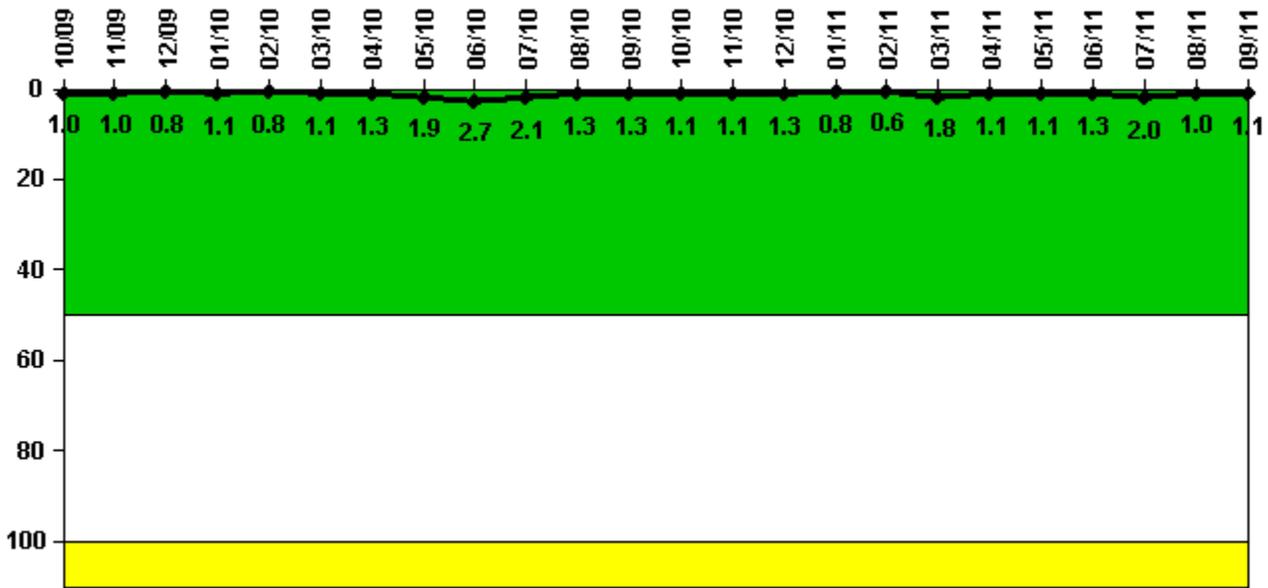
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum activity	0.002540	0.002950	0.003020	0.002880	0.003080	0.002190	0.003500	0.003240	0.003420	0.003610	0.003970	0.004170
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	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.3	0.3	0.4	0.4	0.4
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	0.003950	0.003620	0.003710	0.003190	0.003230	0.000800	0.000863	0.000877	0.000842	0.000878	0.000956	0.001090
Technical specification limit	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.4	0.4	0.4	0.6	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



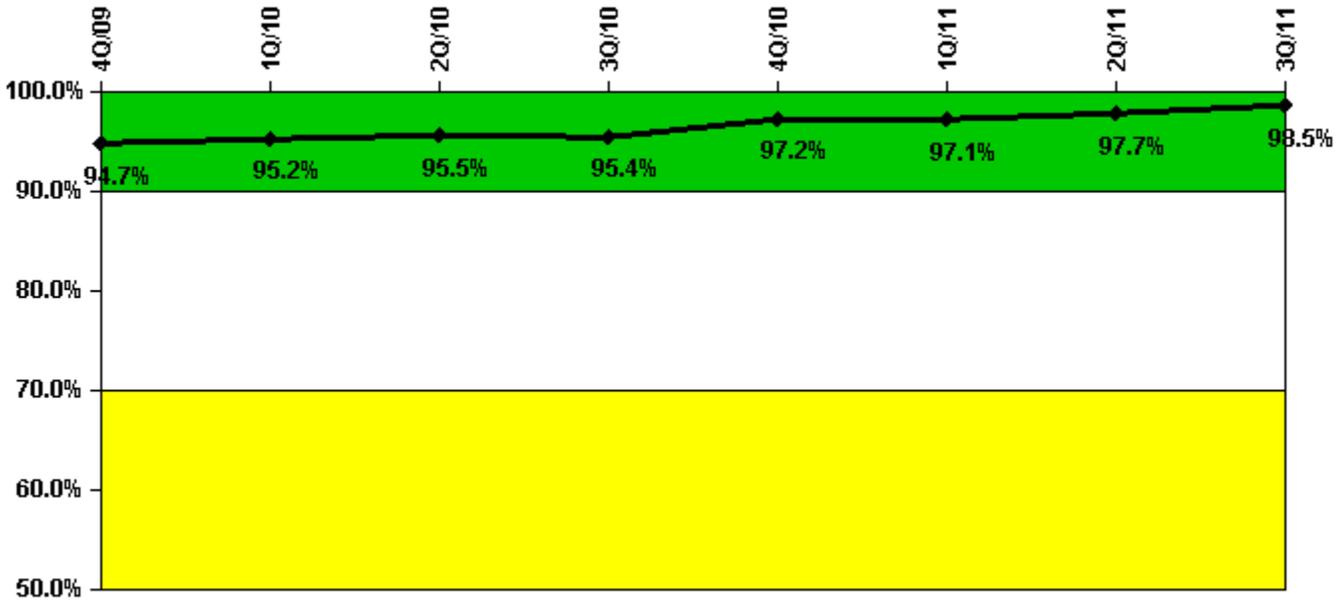
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum leakage	0.100	0.100	0.080	0.110	0.080	0.110	0.134	0.190	0.270	0.210	0.130	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	1.0	1.0	0.8	1.1	0.8	1.1	1.3	1.9	2.7	2.1	1.3	1.3
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	0.110	0.110	0.130	0.080	0.060	0.180	0.110	0.110	0.130	0.200	0.100	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	1.1	1.1	1.3	0.8	0.6	1.8	1.1	1.1	1.3	2.0	1.0	1.1

Licensee Comments: none

Drill/Exercise Performance



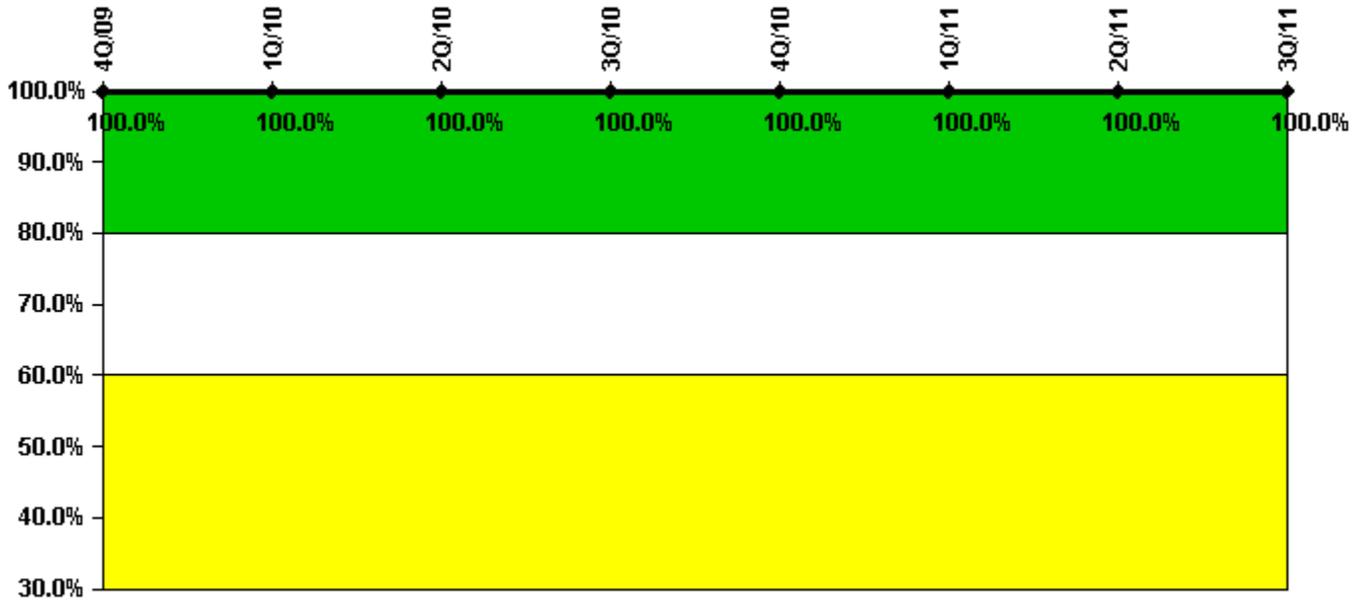
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful opportunities	63.0	13.0	23.0	76.0	53.0	4.0	58.0	30.0
Total opportunities	64.0	13.0	23.0	78.0	54.0	4.0	59.0	30.0
Indicator value	94.7%	95.2%	95.5%	95.4%	97.2%	97.1%	97.7%	98.5%

Licensee Comments: none

ERO Drill Participation



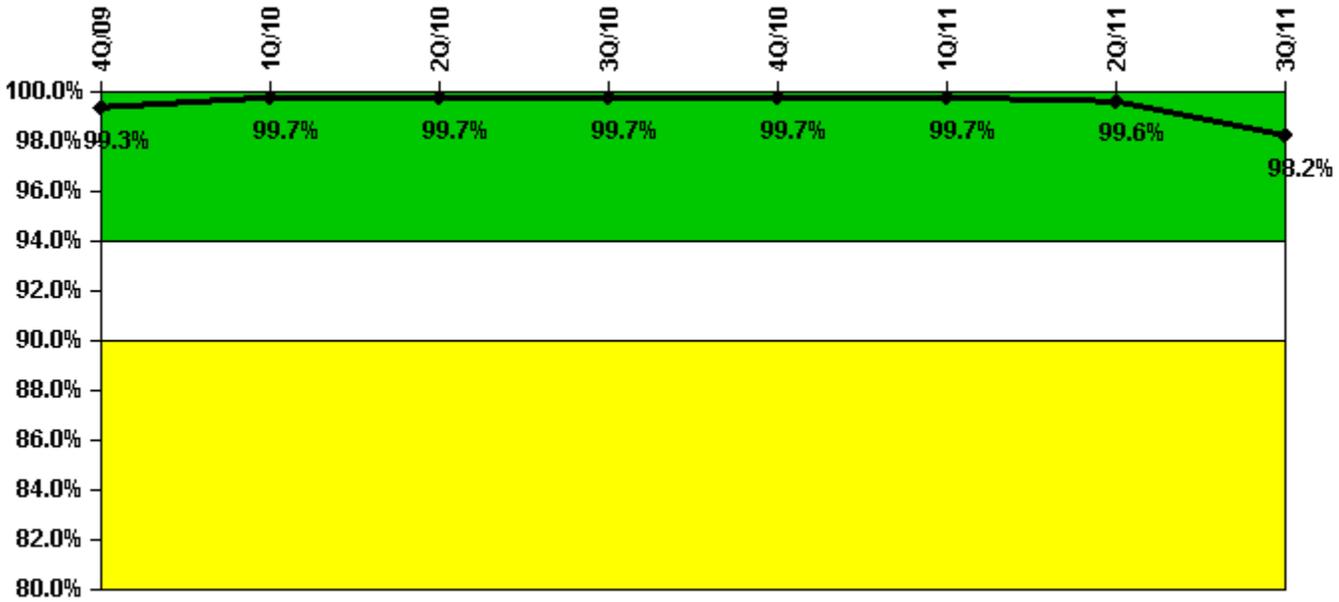
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Participating Key personnel	95.0	98.0	87.0	86.0	88.0	85.0	88.0	83.0
Total Key personnel	95.0	98.0	87.0	86.0	88.0	85.0	88.0	83.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



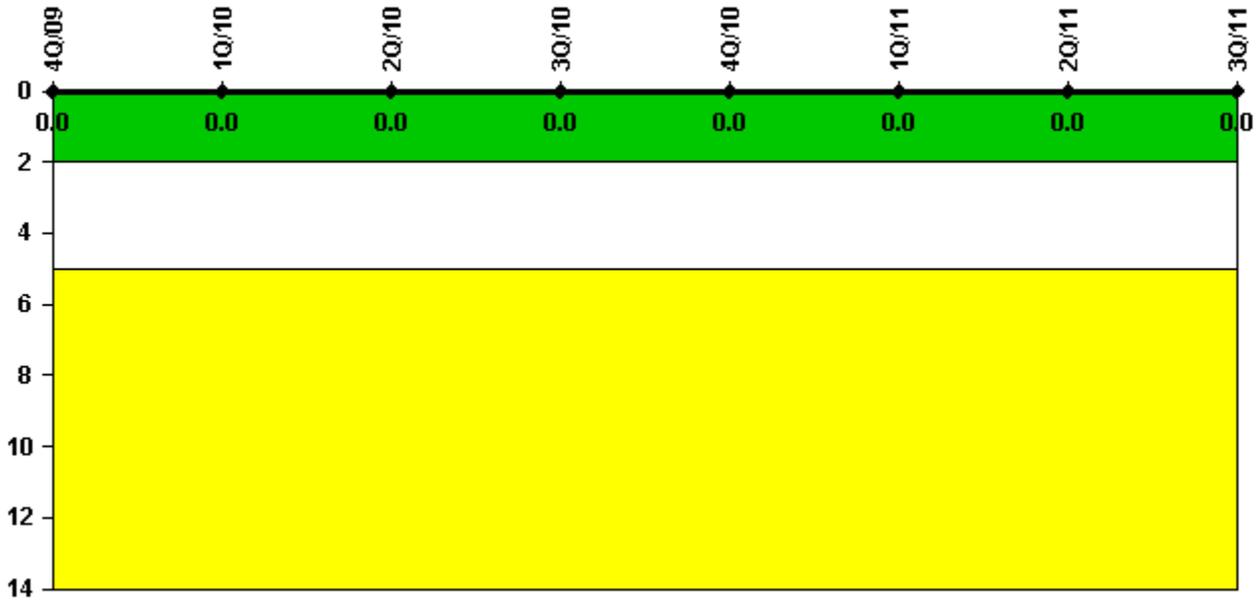
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	942	948	948	948	940	949	945	892
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.3%	99.7%	99.7%	99.7%	99.7%	99.7%	99.6%	98.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness



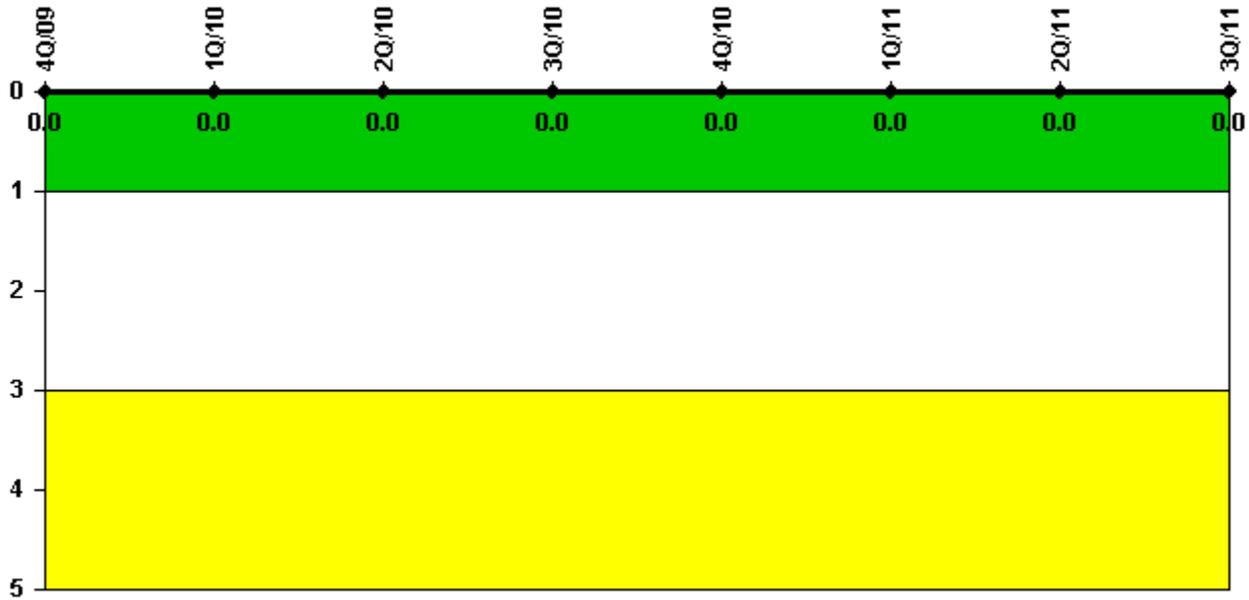
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
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							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/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.