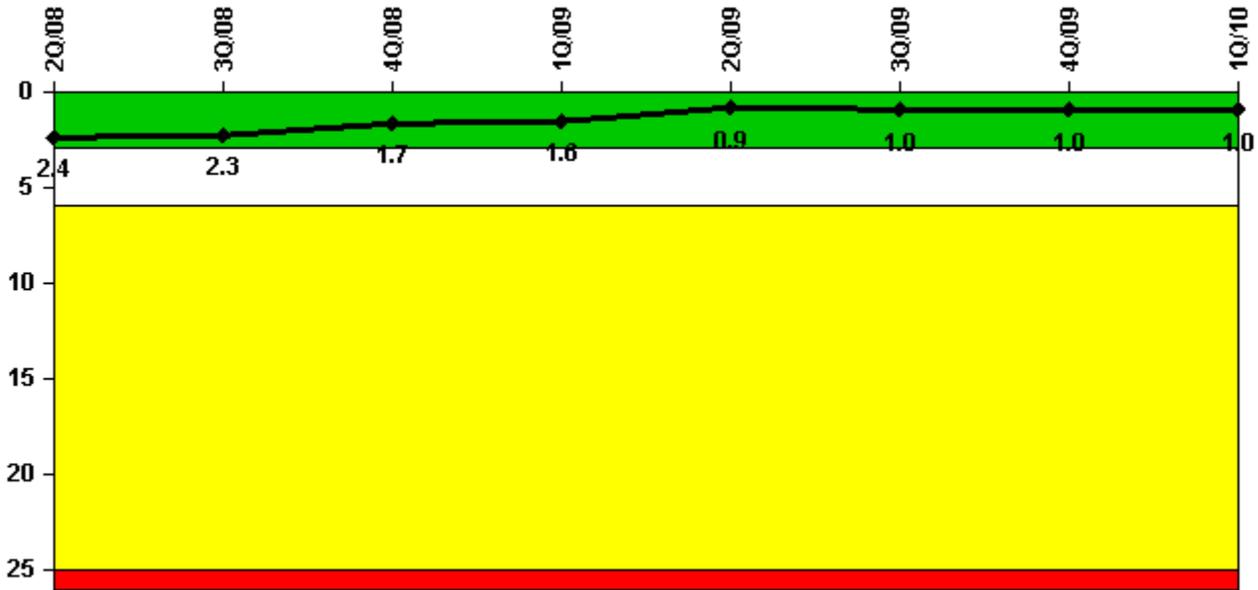


Saint Lucie 2

1Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



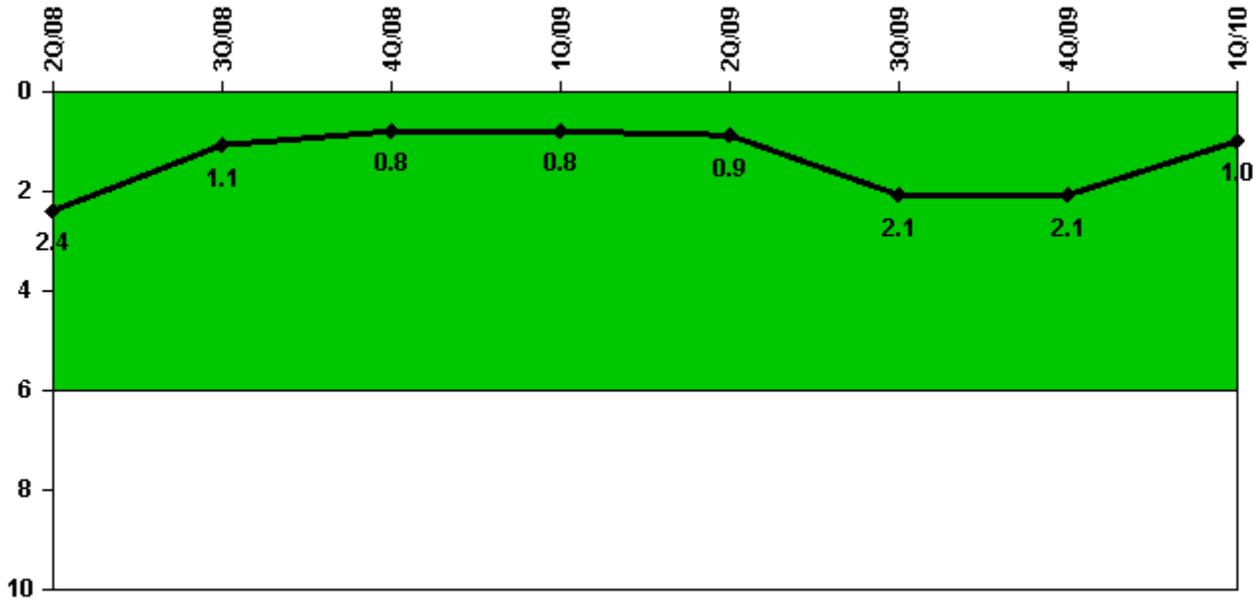
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	2.0	0	0	0	1.0	0	0	0
Critical hours	2112.2	2208.0	2209.0	2159.0	1018.6	1402.9	2209.0	2159.0
Indicator value	2.4	2.3	1.7	1.6	0.9	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



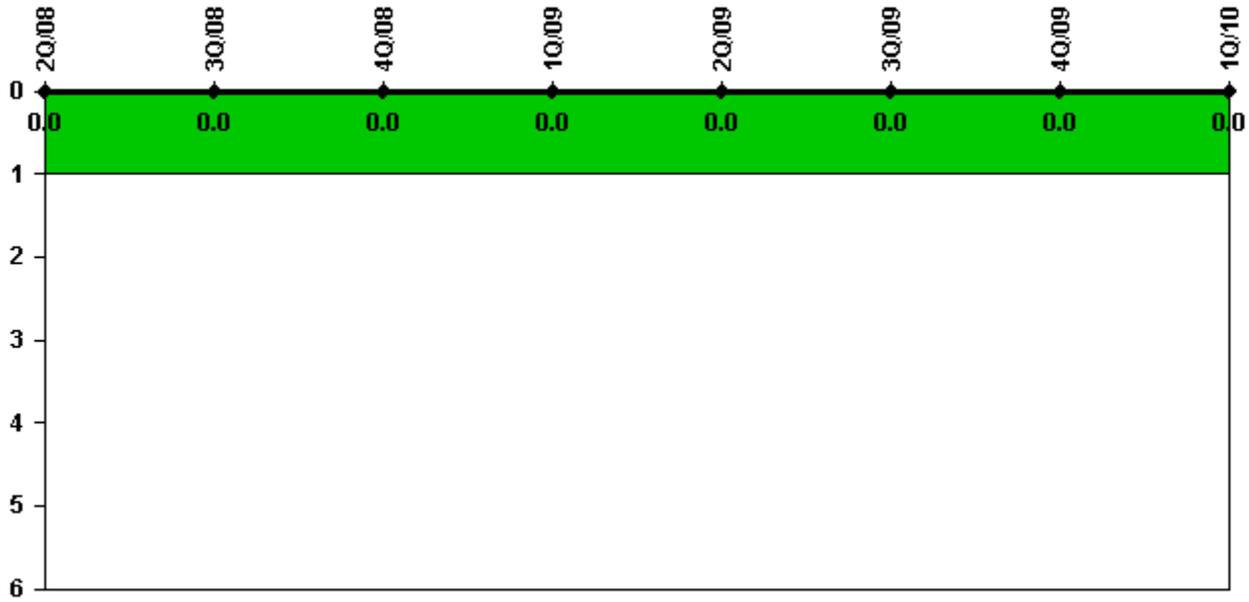
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	0	0	0	1.0	0	1.0	0	0
Critical hours	2112.2	2208.0	2209.0	2159.0	1018.6	1402.9	2209.0	2159.0
Indicator value	2.4	1.1	0.8	0.8	0.9	2.1	2.1	1.0

Licensee Comments: none

Unplanned Scrams with Complications



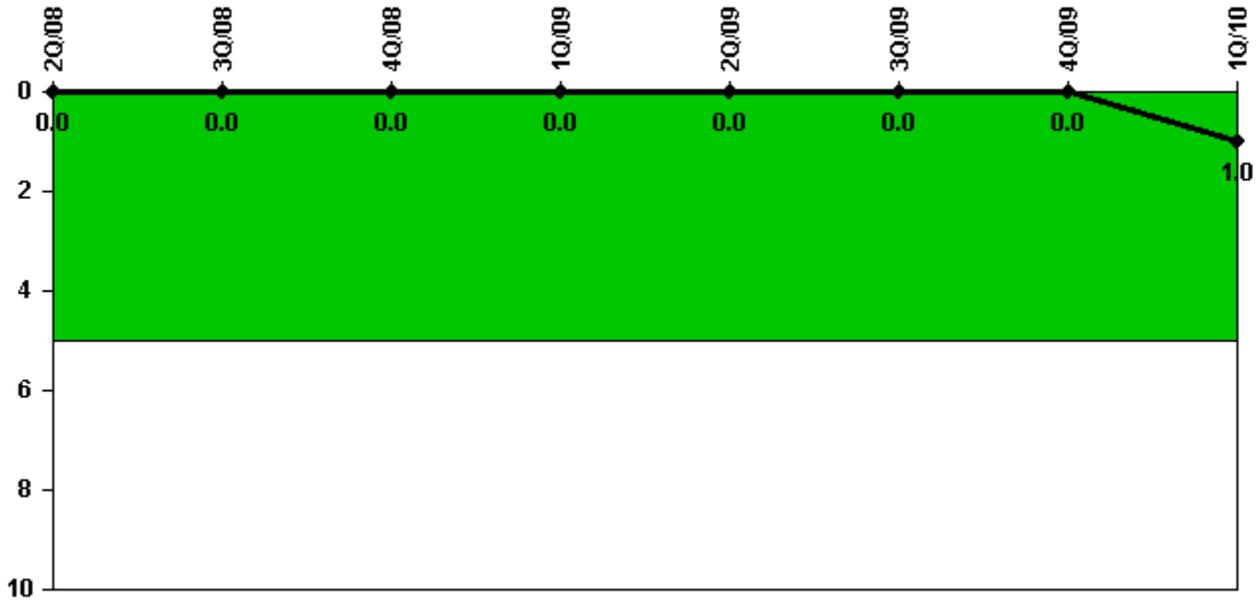
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
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

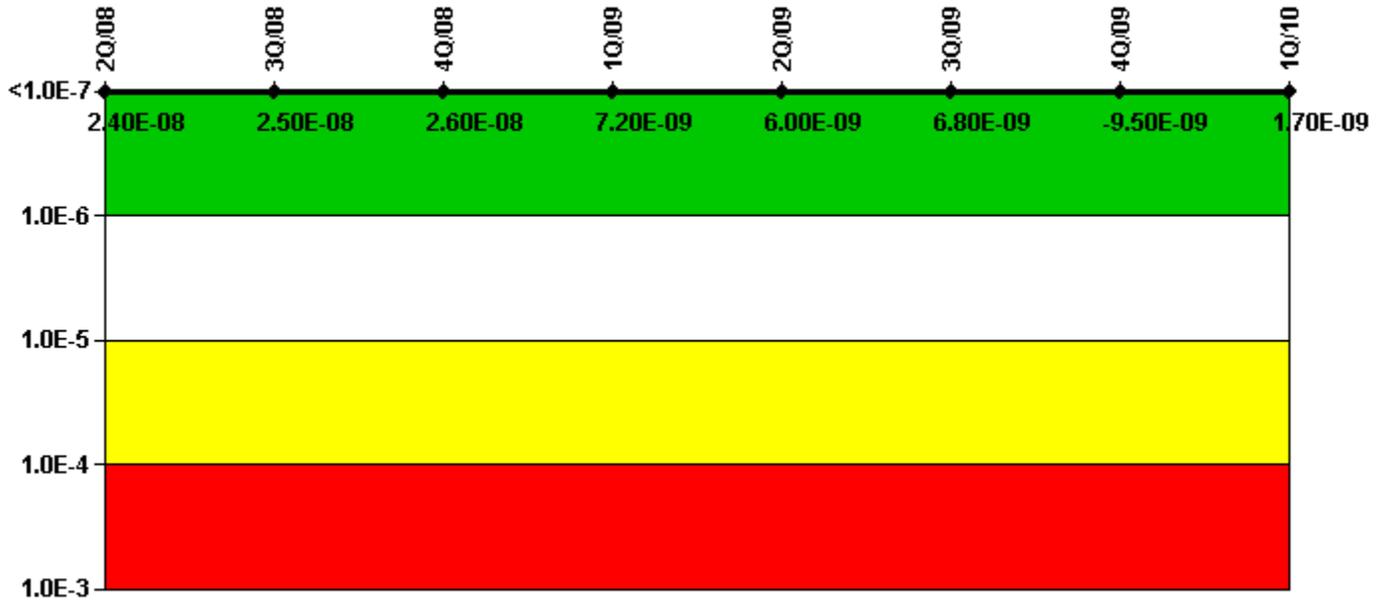
Notes

Safety System Functional Failures (PWR)	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Safety System Functional Failures	0	0	0	0	0	0	0	1
Indicator value	0	0	0	0	0	0	0	1

Licensee Comments:

1Q/10: Unit 2 March SSFF LER 50-389/2010-001

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

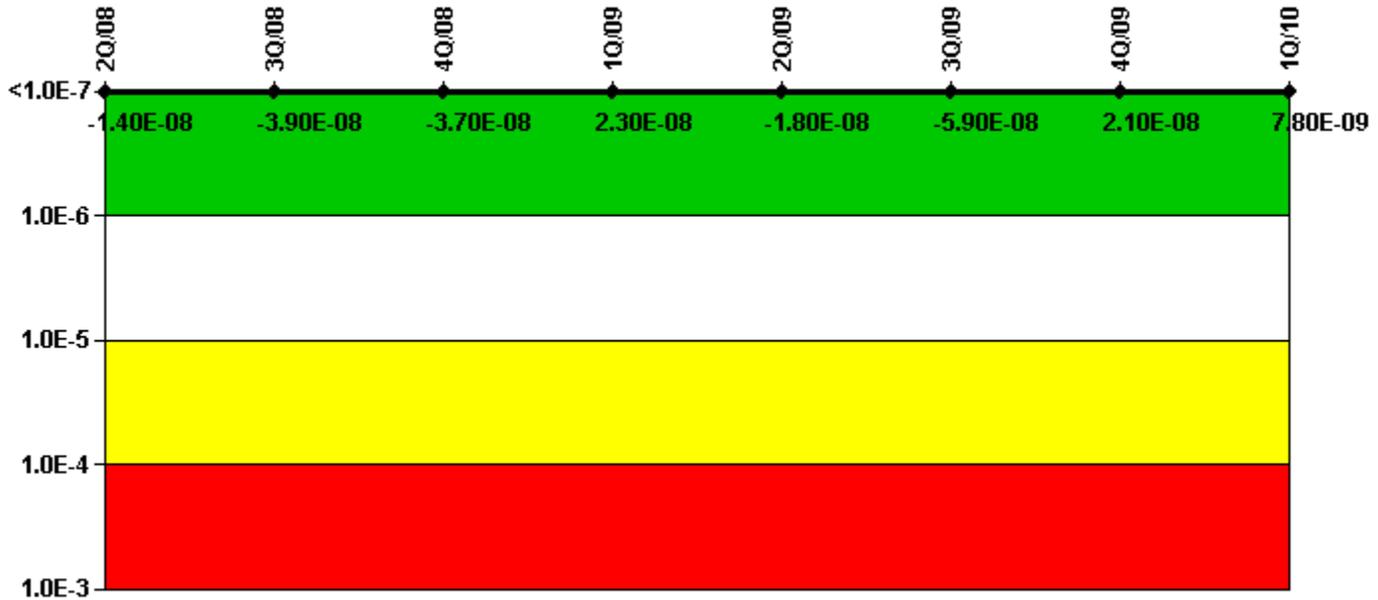
Mitigating Systems Performance Index, Emergency AC Power System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	5.51E-08	5.64E-08	5.72E-08	3.81E-08	3.69E-08	3.77E-08	7.39E-09	1.86E-08
URI (Δ CDF)	-3.09E-08	-3.09E-08	-3.09E-08	-3.09E-08	-3.09E-08	-3.09E-08	-1.69E-08	-1.69E-08
PLE	NO							
Indicator value	2.40E-08	2.50E-08	2.60E-08	7.20E-09	6.00E-09	6.80E-09	9.50E-09	1.70E-09

Licensee Comments:

1Q/10: Changes to PRA Parameter(s) were made in 4th quarter 2009 and were appropriately commented for that quarter's submittal.

4Q/09: CDE PRA values were revised to reflect the updated PRA models (for Unit 1 & 2 models) that were approved August 2009. The updated PRA models included the following PRA elements: revised simplified LERF model (Level 2), revised CCF analysis, revised unit 1 success criteria analysis, revised pre-initiating human reliability analysis, revised interfacing system LOCA analysis, and inclusion of containment isolation system fault tree.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

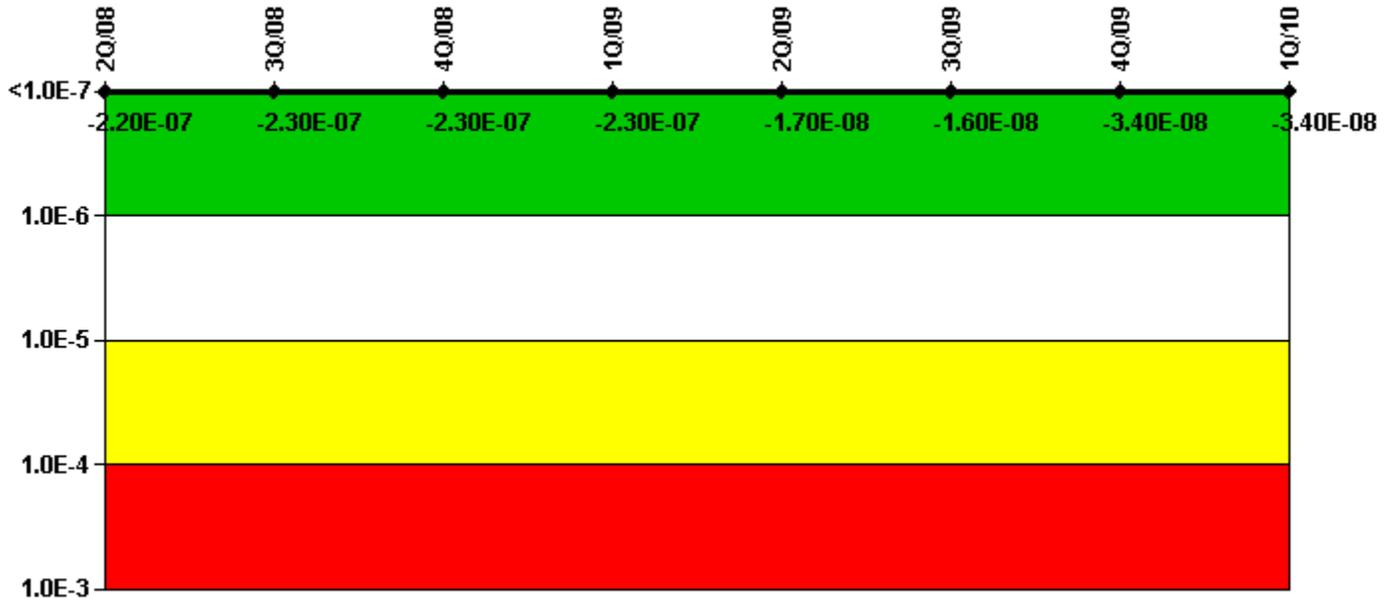
Mitigating Systems Performance Index, High Pressure Injection System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	1.19E-07	9.51E-08	9.70E-08	1.57E-07	1.15E-07	7.44E-08	1.93E-07	1.80E-07
URI (Δ CDF)	-1.34E-07	-1.34E-07	-1.34E-07	-1.34E-07	-1.34E-07	-1.34E-07	-1.72E-07	-1.72E-07
PLE	NO							
Indicator value	-1.40E-08	-3.90E-08	-3.70E-08	2.30E-08	-1.80E-08	-5.90E-08	2.10E-08	7.80E-09

Licensee Comments:

1Q/10: Changes to PRA Parameter(s) were made in 4th quarter 2009 and were appropriately commented for that quarter's submittal.

4Q/09: CDE PRA values were revised to reflect the updated PRA models (for Unit 1 & 2 models) that were approved August 2009. The updated PRA models included the following PRA elements: revised simplified LERF model (Level 2), revised CCF analysis, revised unit 1 success criteria analysis, revised pre-initiating human reliability analysis, revised interfacing system LOCA analysis, and inclusion of containment isolation system fault tree.

Mitigating Systems Performance Index, Heat Removal System



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

Notes

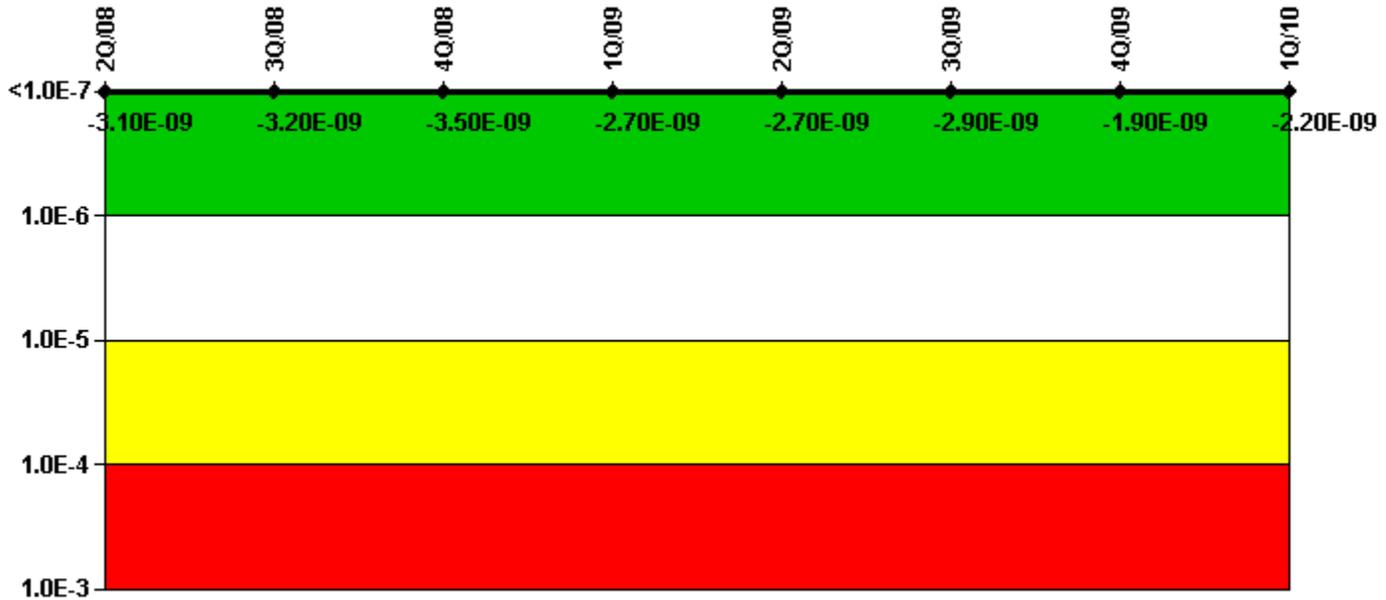
Mitigating Systems Performance Index, Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-4.21E-08	-5.63E-08	-5.63E-08	-5.63E-08	-2.11E-08	-1.98E-08	-1.54E-10	-1.54E-10
URI (Δ CDF)	-1.79E-07	-1.78E-07	-1.78E-07	-1.78E-07	4.23E-09	4.23E-09	-3.37E-08	-3.37E-08
PLE	NO							
Indicator value	-2.20E-07	-2.30E-07	-2.30E-07	-2.30E-07	-1.70E-08	-1.60E-08	-3.40E-08	-3.40E-08

Licensee Comments:

1Q/10: Changes to PRA Parameter(s) were made in 4th quarter 2009 and were appropriately commented for that quarter's submittal.

4Q/09: CDE PRA values were revised to reflect the updated PRA models (for Unit 1 & 2 models) that were approved August 2009. The updated PRA models included the following PRA elements: revised simplified LERF model (Level 2), revised CCF analysis, revised unit 1 success criteria analysis, revised pre-initiating human reliability analysis, revised interfacing system LOCA analysis, and inclusion of containment isolation system fault tree.

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

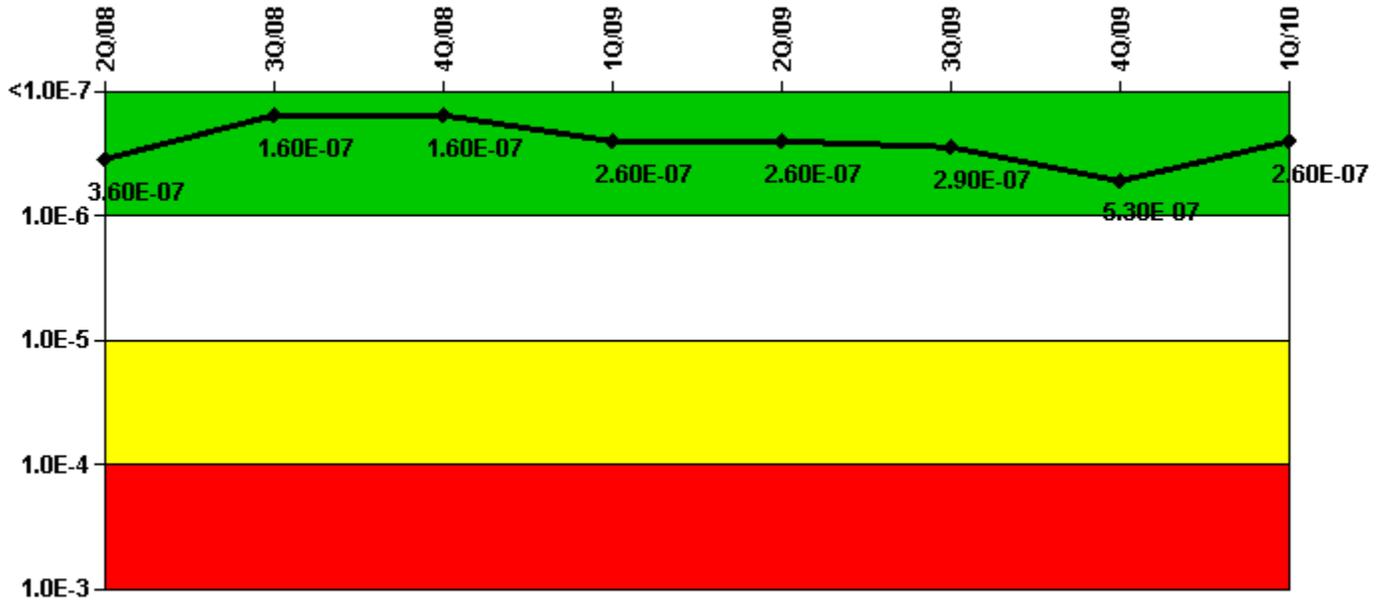
Mitigating Systems Performance Index, Residual Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	6.38E-11	4.83E-12	-3.22E-10	5.09E-10	4.55E-10	2.55E-10	2.17E-10	-6.03E-11
URI (Δ CDF)	-3.19E-09	-3.19E-09	-3.19E-09	-3.19E-09	-3.19E-09	-3.19E-09	-2.16E-09	-2.16E-09
PLE	NO							
Indicator value	-3.10E-09	-3.20E-09	-3.50E-09	-2.70E-09	-2.70E-09	-2.90E-09	-1.90E-09	-2.20E-09

Licensee Comments:

1Q/10: Changes to PRA Parameter(s) were made in 4th quarter 2009 and were appropriately commented for that quarter's submittal.

4Q/09: CDE PRA values were revised to reflect the updated PRA models (for Unit 1 & 2 models) that were approved August 2009. The updated PRA models included the following PRA elements: revised simplified LERF model (Level 2), revised CCF analysis, revised unit 1 success criteria analysis, revised pre-initiating human reliability analysis, revised interfacing system LOCA analysis, and inclusion of containment isolation system fault tree.

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

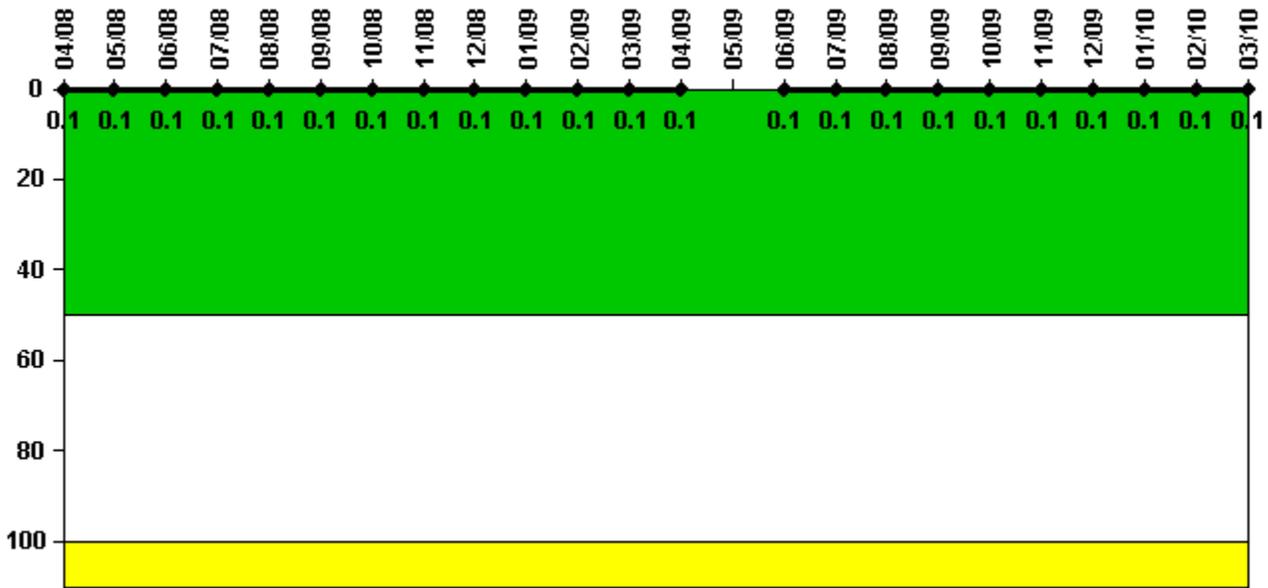
Mitigating Systems Performance Index, Cooling Water Systems	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	3.65E-07	1.73E-07	1.71E-07	2.71E-07	2.66E-07	2.96E-07	5.41E-07	2.70E-07
URI (ΔCDF)	-9.04E-09	-9.04E-09	-1.00E-08	-1.00E-08	-1.07E-08	-1.07E-08	-8.88E-09	-8.88E-09
PLE	NO							
Indicator value	3.60E-07	1.60E-07	1.60E-07	2.60E-07	2.60E-07	2.90E-07	5.30E-07	2.60E-07

Licensee Comments:

1Q/10: Changes to PRA Parameter(s) were made in 4th quarter 2009 and were appropriately commented for that quarter's submittal.

4Q/09: CDE PRA values were revised to reflect the updated PRA models (for Unit 1 & 2 models) that were approved August 2009. The updated PRA models included the following PRA elements: revised simplified LERF model (Level 2), revised CCF analysis, revised unit 1 success criteria analysis, revised pre-initiating human reliability analysis, revised interfacing system LOCA analysis, and inclusion of containment isolation system fault tree.

Reactor Coolant System Activity



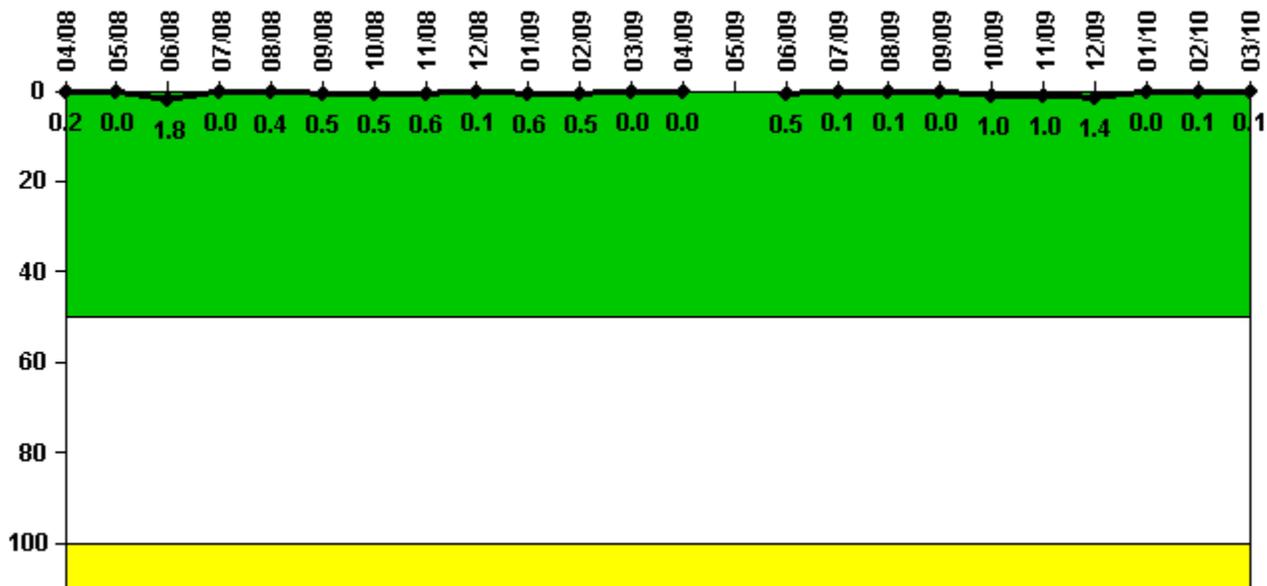
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	0.000550	0.000604	0.000605	0.000630	0.000668	0.000669	0.000660	0.000690	0.000690	0.000694	0.000733	0.000785
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	0.001330	N/A	0.000809	0.000847	0.000864	0.000892	0.000944	0.000897	0.000944	0.000951	0.001020	0.001060
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	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



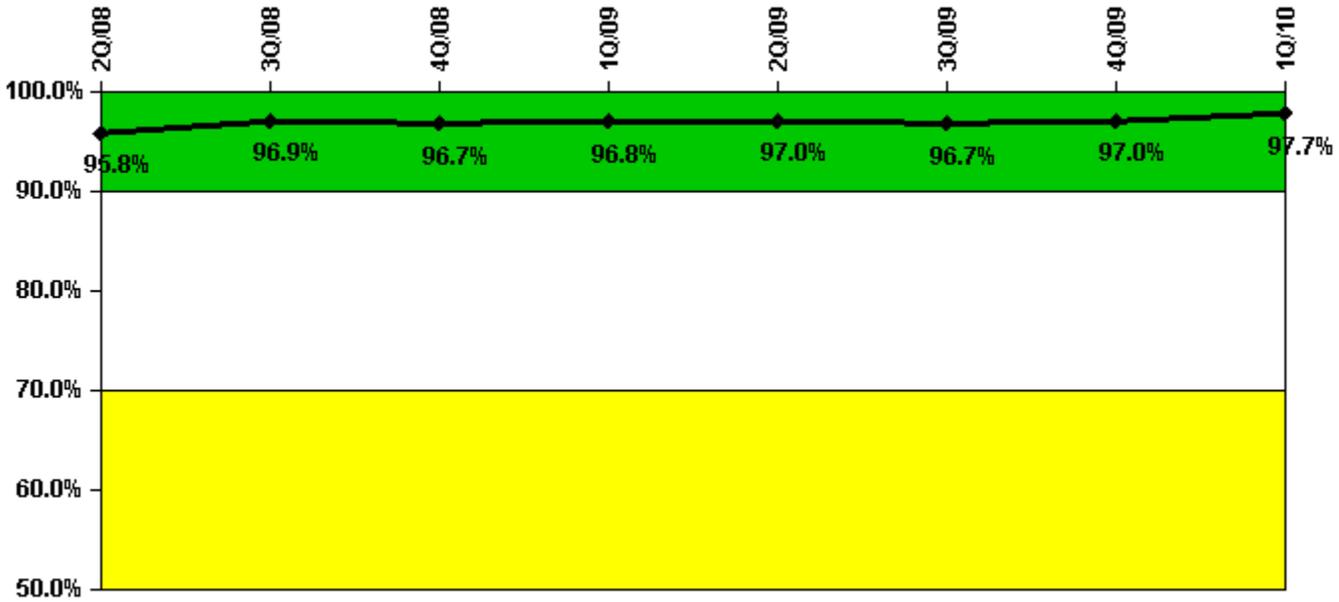
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	0.020	0.002	0.180	0.002	0.040	0.050	0.050	0.060	0.010	0.060	0.050	0
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	0.2	0	1.8	0	0.4	0.5	0.5	0.6	0.1	0.6	0.5	0
Reactor Coolant System Leakage	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum leakage	0	N/A	0.053	0.005	0.005	0	0.100	0.100	0.140	0.002	0.010	0.007
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	N/A	0.5	0.1	0.1	0	1.0	1.0	1.4	0	0.1	0.1

Licensee Comments: none

Drill/Exercise Performance



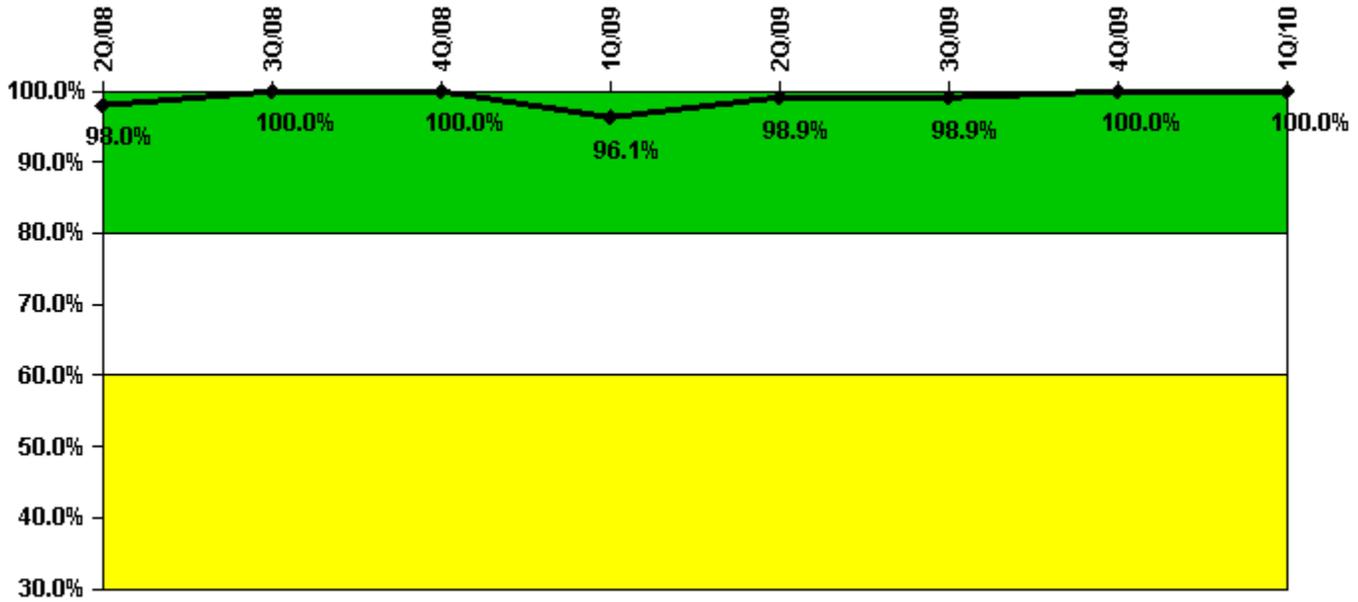
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	48.0	68.0	16.0	39.0	26.0	51.0	74.0	21.0
Total opportunities	51.0	69.0	17.0	39.0	26.0	53.0	75.0	21.0
Indicator value	95.8%	96.9%	96.7%	96.8%	97.0%	96.7%	97.0%	97.7%

Licensee Comments: none

ERO Drill Participation



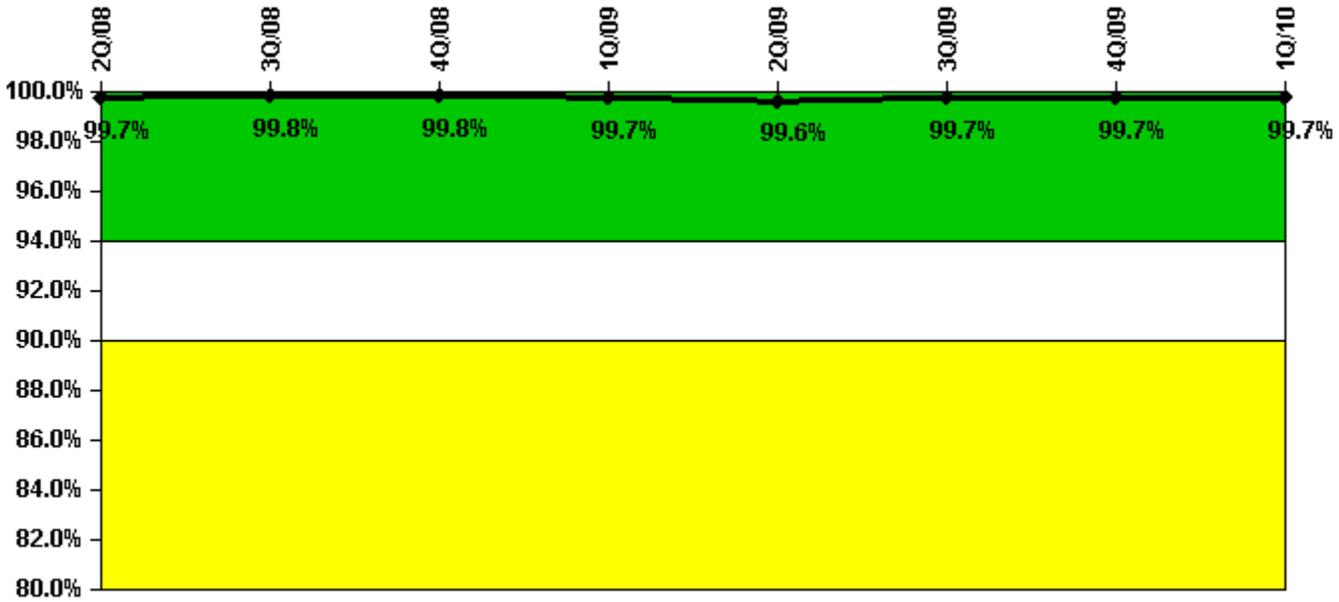
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	96.0	97.0	103.0	99.0	93.0	92.0	96.0	93.0
Total Key personnel	98.0	97.0	103.0	103.0	94.0	93.0	96.0	93.0
Indicator value	98.0%	100.0%	100.0%	96.1%	98.9%	98.9%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



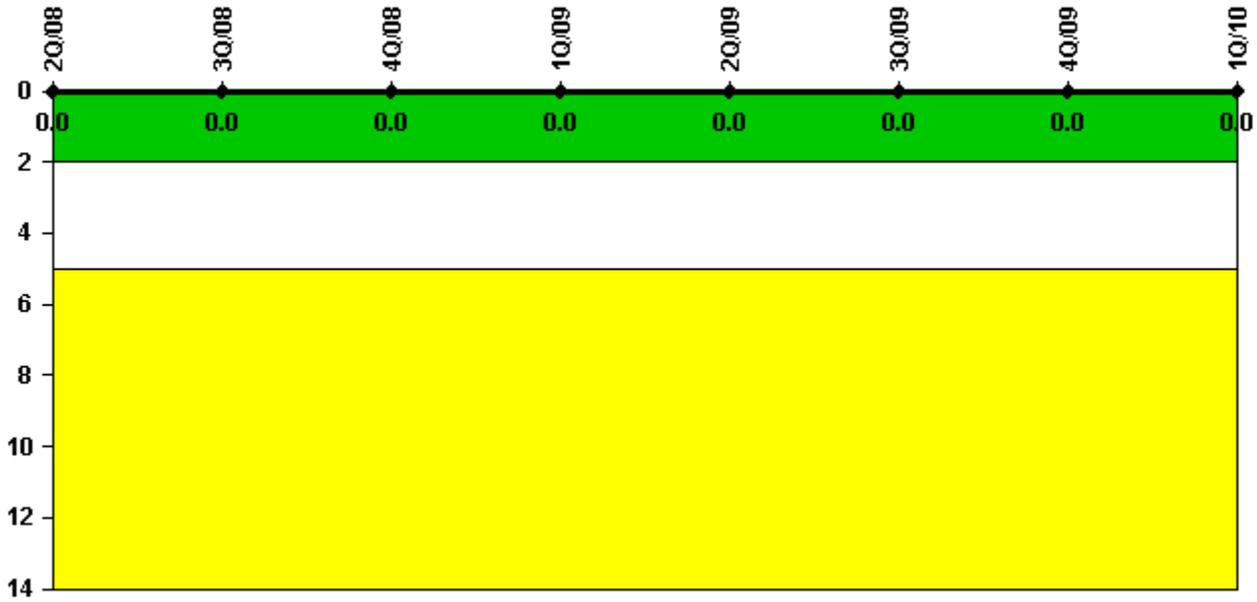
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	719	627	720	626	717	630	718	627
Total sirens-tests	720	630	720	630	720	630	720	630
Indicator value	99.7%	99.8%	99.8%	99.7%	99.6%	99.7%	99.7%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



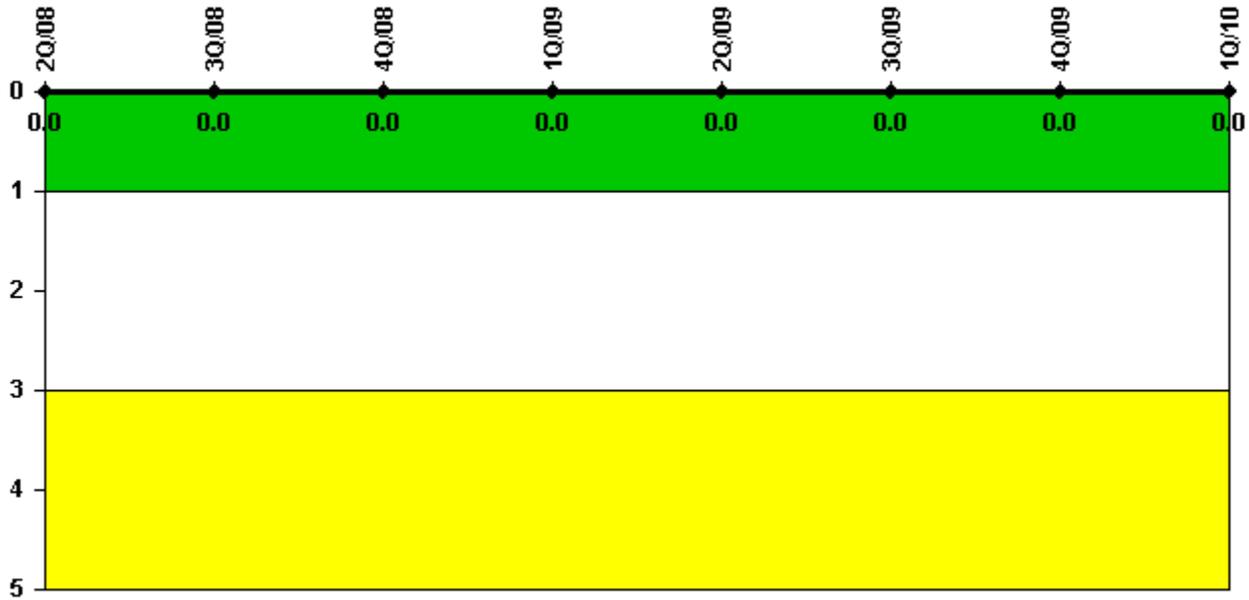
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
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	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
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.