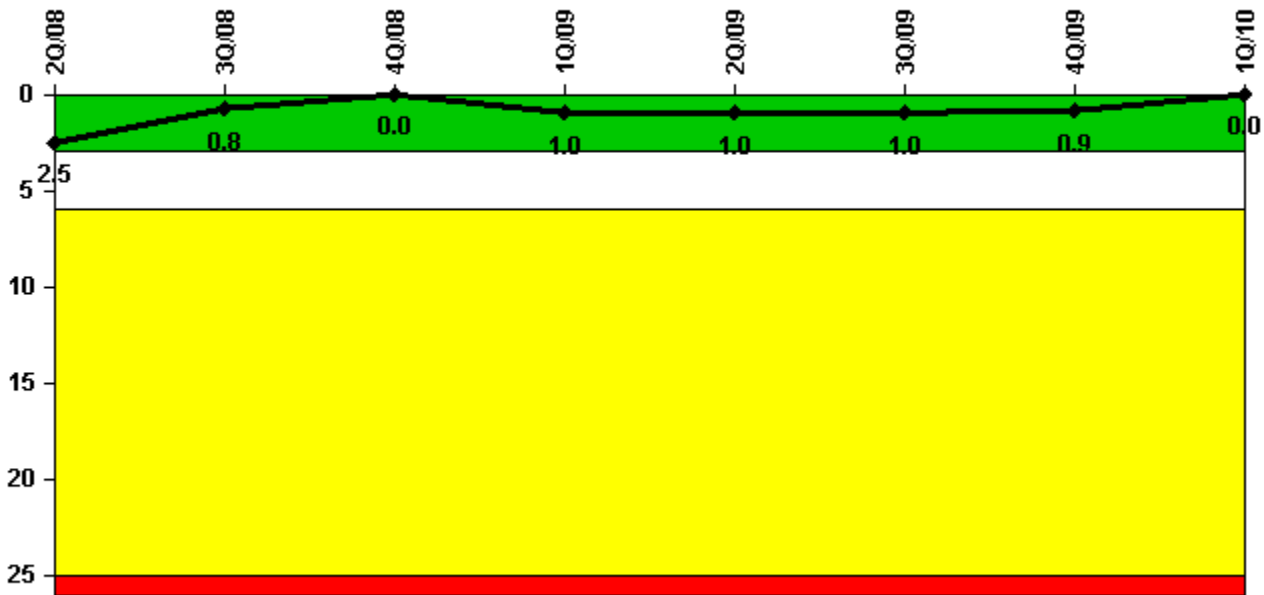


Browns Ferry 1

1Q/2010 Performance Indicators

Licensee's General Comments: Beginning in the 2nd quarter 2008, the data reported reflects a lack of historical operational data needed to maintain the adequate degree of accuracy required by this PI. Until further notice, MSPI performance threshold crossings will be assessed by the NRC Unit 1 augmented baseline inspection plan.

Unplanned Scrams per 7000 Critical Hrs



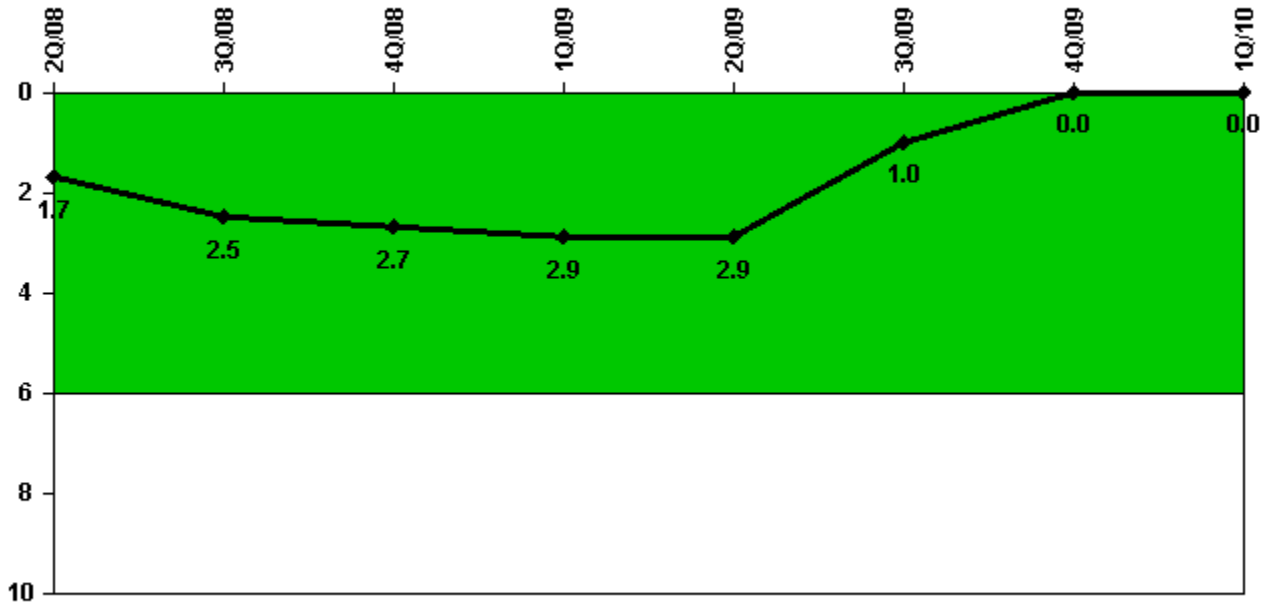
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	1.0	0	0	0	0
Critical hours	2184.0	2069.3	1322.9	1618.6	2184.0	2208.0	2209.0	2159.0
Indicator value	2.5	0.8	0	1.0	1.0	1.0	0.9	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	2.0	1.0	0	0	0	0	0
Critical hours	2184.0	2069.3	1322.9	1618.6	2184.0	2208.0	2209.0	2159.0
Indicator value	1.7	2.5	2.7	2.9	2.9	1.0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



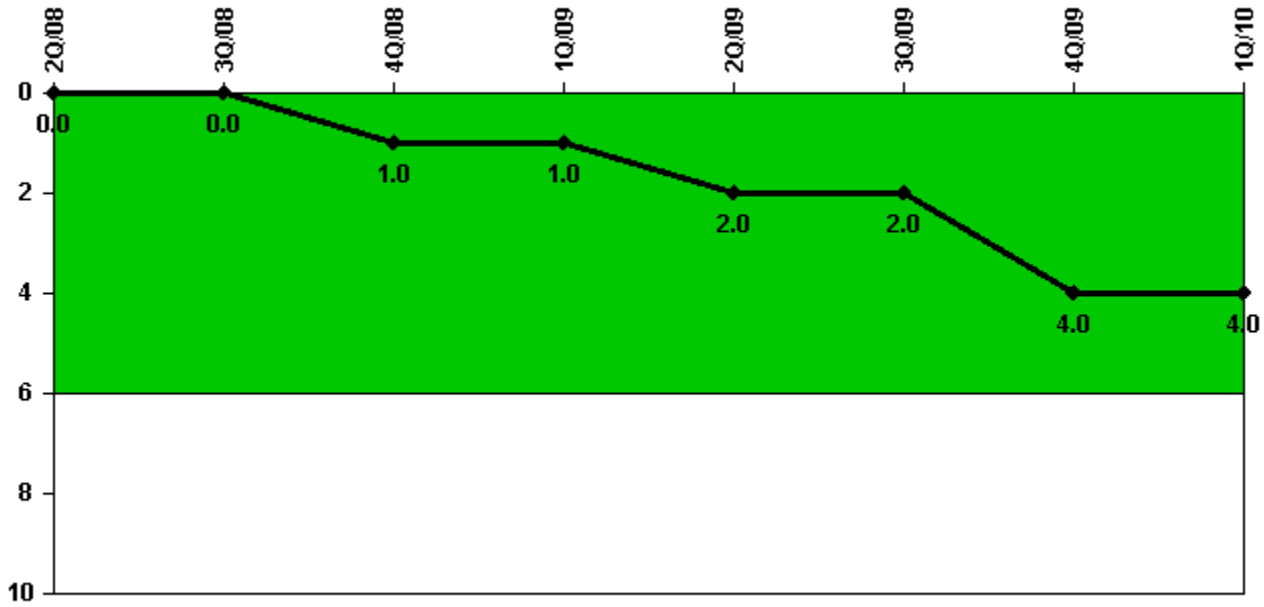
Thresholds: White > 1.0

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 (BWR)



Thresholds: White > 6.0

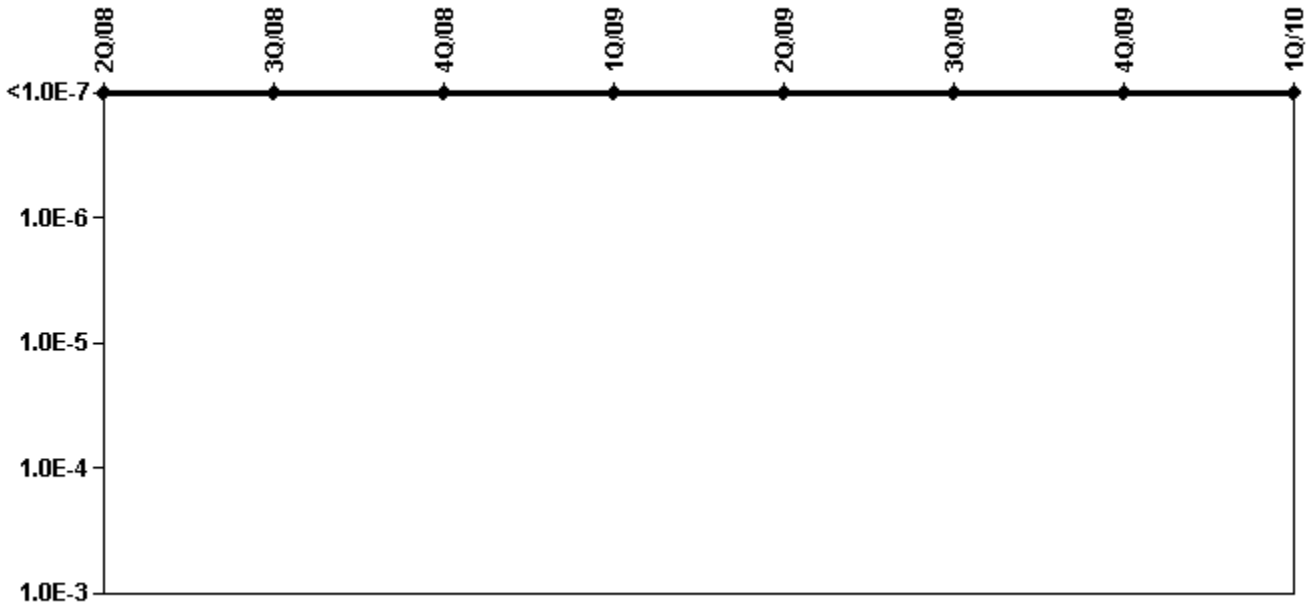
Notes

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

Licensee Comments:

4Q/09: LER 50-259/2009-004 (Unit 1) - HPCI Inoperable; LER 50-259/2009-005 (Units 1, 2, 3) - CAS - Appx R Event; LER 50-259/2009-006 (Unit 1) - HPCI Inoperable

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds:

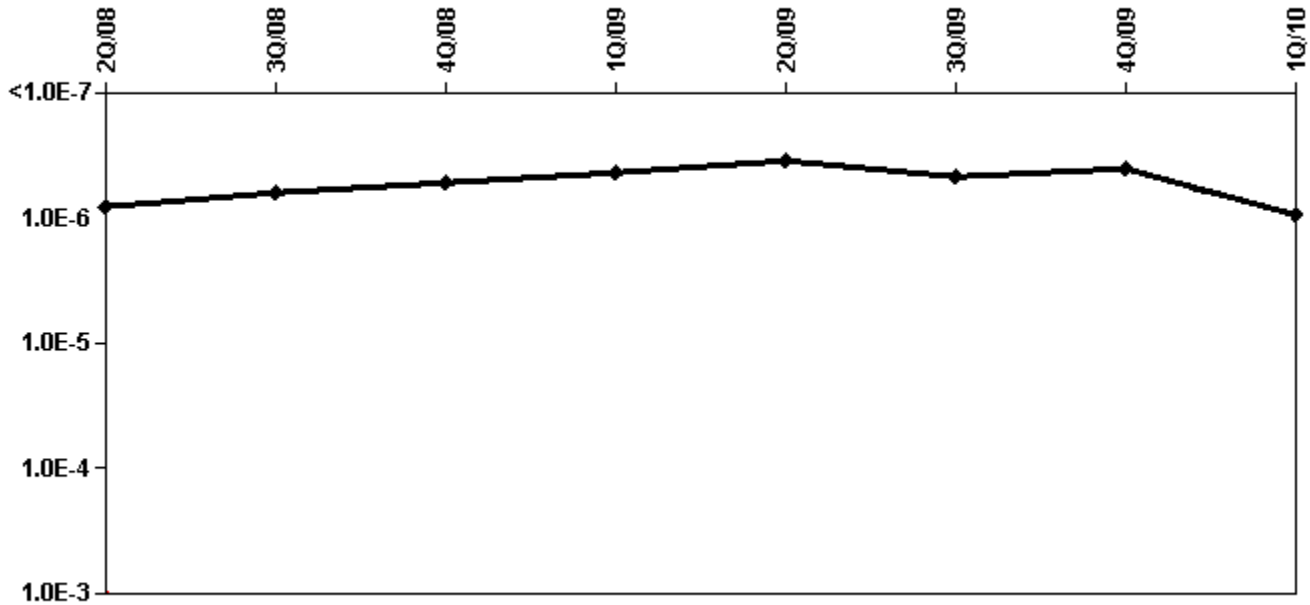
Notes

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)	4.50E-09	1.70E-09	1.50E-08	1.00E-08	1.40E-08	5.60E-09	1.10E-08	1.48E-07
URI (Δ CDF)	-8.50E-08	-8.50E-08	-8.50E-08	-8.50E-08	-8.50E-08	-8.50E-08	-8.40E-08	-4.07E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.05E-08	-8.33E-08	-7.00E-08	-7.50E-08	-7.10E-08	-7.94E-08	-7.30E-08	-2.60E-07

Licensee Comments:

1Q/10: Changed PRA Parameter(s). Changed PRA Parameters in accordance with December 2009 PRA Model Revision.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds:

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 (ΔCDF)	8.74E-07	6.88E-07	6.01E-07	5.17E-07	4.30E-07	3.94E-07	3.38E-07	7.97E-07
URI (ΔCDF)	-4.44E-08	-5.14E-08	-5.78E-08	-6.39E-08	-6.96E-08	7.97E-08	7.45E-08	1.64E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.30E-07	6.40E-07	5.40E-07	4.50E-07	3.60E-07	4.70E-07	4.10E-07	9.60E-07

Licensee Comments:

1Q/10: Changed PRA Parameter(s). Changed PRA Parameters and MSPI Component Scope in accordance with December 2009 PRA Model Revision.

4Q/09: Changed PRA Parameter(s). MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

3Q/09: Changed PRA Parameter(s). MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

2Q/09: Changed PRA Parameter(s). MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

1Q/09: Changed PRA Parameter(s). MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

4Q/08: Changed PRA Parameter(s). Beginning in the 2nd quarter 2008, the data reported reflects a lack of historical operational data needed to maintain the adequate degree of accuracy required by this PI. Until further notice, MSPI performance threshold crossings will be assessed by the NRC Unit 1 augmented baseline inspection plan. MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

3Q/08: Changed PRA Parameter(s). MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC

revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

2Q/08: Changed PRA Parameter(s). Beginning in the 2nd quarter 2008, the data reported reflects a lack of historical operational data needed to maintain the adequate degree of accuracy required by this PI. Until further notice, MSPI performance threshold crossings will be assessed by the NRC Unit 1 augmented baseline inspection plan. MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

1Q/08: Changed PRA Parameter(s). Browns Ferry Unit 1 quarterly data entry began with 3rd Quarter 2007. Unavailability and Unreliability Indices values will be calculated and reported when sufficient quarterly data has been entered to support valid calculations of time averaged indices. MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

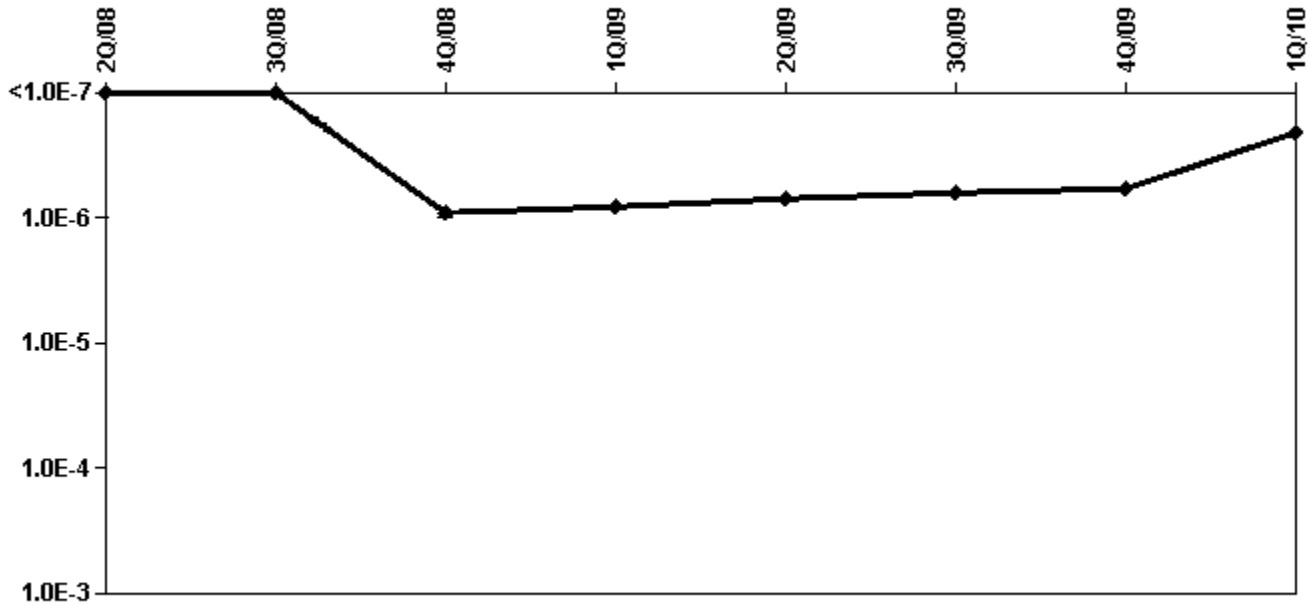
4Q/07: Changed PRA Parameter(s). Browns Ferry Unit 1 quarterly data entry began with 3rd Quarter 2007. Unavailability and Unreliability Indices values will be calculated and reported when sufficient quarterly data has been entered to support valid calculations of time averaged indices. MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

3Q/07: Changed PRA Parameter(s). Browns Ferry Unit 1 quarterly data entry began with 3rd Quarter 2007. Unavailability and Unreliability Indices values will be calculated and reported when sufficient quarterly data has been entered to support valid calculation of time-averaged indices. MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

2Q/07: Changed PRA Parameter(s). Unit 1 was restarted on 5/22/07. Per NRC's 5/16/07 letter to TVA on Unit 1 full transition to the Reactor Oversight Process (ADAMS accession ML0713603010), the PI data for the BF1 IE, MS, and BI cornerstones should be submitted, according to IMC 0608 and industry guidance, commencing with the third quarter of CY 2007. MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

1Q/07: Changed PRA Parameter(s). MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

Mitigating Systems Performance Index, Heat Removal System



Thresholds:

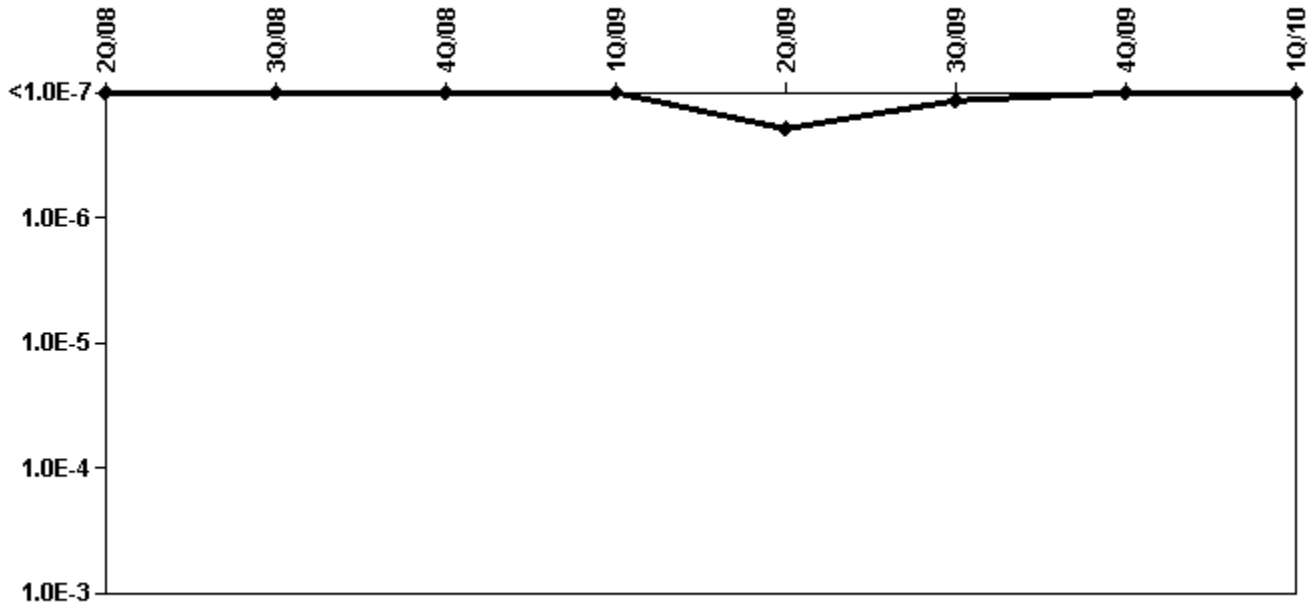
Notes

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)	$1.00E-07$	$3.80E-08$	$4.40E-07$	$3.60E-07$	$2.80E-07$	$2.20E-07$	$1.90E-07$	$6.79E-08$
URI (Δ CDF)	$-6.20E-08$	$-7.30E-08$	$5.00E-07$	$4.70E-07$	$4.40E-07$	$4.20E-07$	$4.00E-07$	$1.46E-07$
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	$3.80E-08$	$-3.50E-08$	$9.40E-07$	$8.30E-07$	$7.20E-07$	$6.40E-07$	$5.90E-07$	$2.10E-07$

Licensee Comments:

1Q/10: Changed PRA Parameter(s). Changed PRA Parameters and MSPI Component Scope in accordance with December 2009 PRA Model Revision

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds:

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)	-1.75E-08	1.54E-07	7.92E-08	2.44E-07	3.44E-07	2.68E-07	1.68E-07	6.63E-09
URI (Δ CDF)	-1.17E-07	-1.24E-07	-1.34E-07	-1.41E-07	-1.44E-07	-1.47E-07	-1.47E-07	-1.95E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-07	3.10E-08	-5.40E-08	1.00E-07	2.00E-07	1.20E-07	2.10E-08	-1.90E-07

Licensee Comments:

1Q/10: Changed PRA Parameter(s). Changed PRA Parameters in accordance with December 2009 PRA Model Revision.

4Q/09: Changed PRA Parameter(s). MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

3Q/09: Changed PRA Parameter(s). MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

2Q/09: Changed PRA Parameter(s). MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

1Q/09: Changed PRA Parameter(s). MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

4Q/08: Changed PRA Parameter(s). Beginning in the 2nd quarter 2008, the data reported reflects a lack of historical operational data needed to maintain the adequate degree of accuracy required by this PI. Until further notice, MSPI performance threshold crossings will be assessed by the NRC Unit 1 augmented baseline inspection plan. MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

3Q/08: Changed PRA Parameter(s). MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

2Q/08: Changed PRA Parameter(s). Beginning in the 2nd quarter 2008, the data reported reflects a lack of historical operational data needed to maintain the adequate degree of accuracy required by this PI. Until further notice, MSPI performance threshold crossings will be assessed by the NRC Unit 1 augmented baseline inspection plan. MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

1Q/08: Changed PRA Parameter(s). Browns Ferry Unit 1 quarterly data entry began with 3rd Quarter 2007. Unavailability and Unreliability Indices values will be calculated and reported when sufficient quarterly data has been entered to support valid calculations of time averaged indices. MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

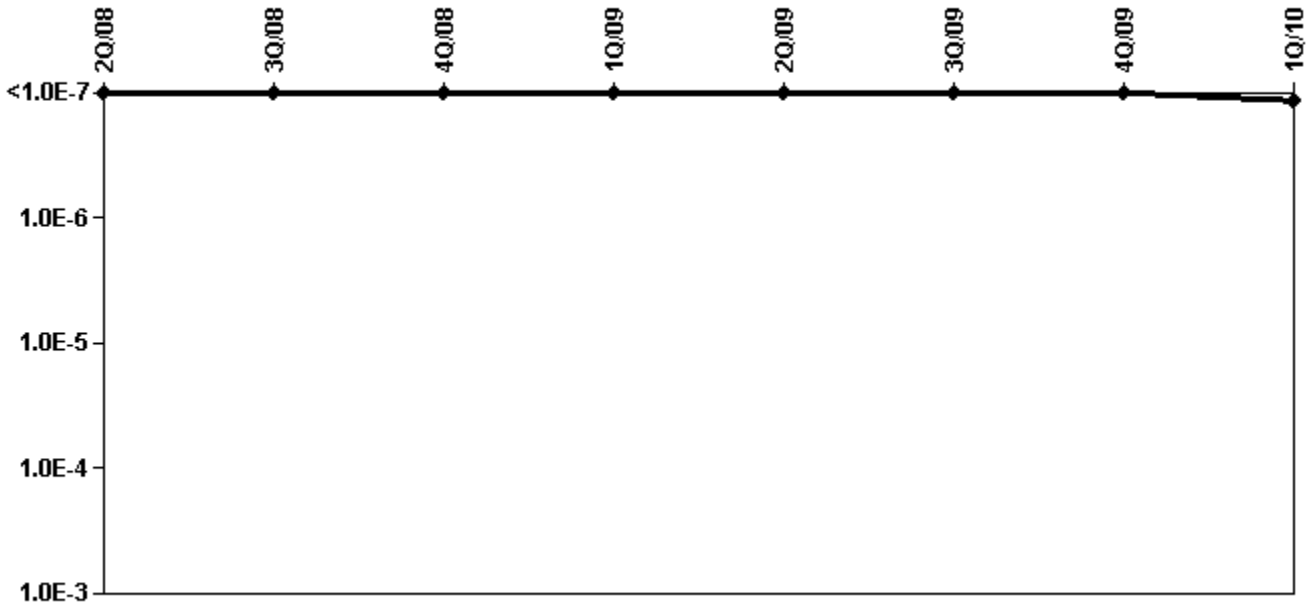
4Q/07: Changed PRA Parameter(s). Browns Ferry Unit 1 quarterly data entry began with 3rd Quarter 2007. Unavailability and Unreliability Indices values will be calculated and reported when sufficient quarterly data has been entered to support valid calculations of time averaged indices. MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

3Q/07: Changed PRA Parameter(s). Browns Ferry Unit 1 quarterly data entry began with 3rd Quarter 2007. Unavailability and Unreliability Indices will be calculated and reported when sufficient quarterly data has been entered to support valid calculation of time-averaged indices. MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

2Q/07: Changed PRA Parameter(s). Unit 1 was restarted on 5/22/07. Per NRC's 5/16/07 letter to TVA on Unit 1 full transition to the Reactor Oversight Process (ADAMS accession ML0713603010), the PI data for the BF1 IE, MS, and BI cornerstones should be submitted, according to IMC 0608 and industry guidance, commencing with the third quarter of CY 2007. MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

1Q/07: Changed PRA Parameter(s). MSPI PRA Parameters Basic Event Probability (URPC) and Basic Event FVURC revised in accordance with Unit 1 MSPI Basis Document Rev 4. Reference BFN PER 200662.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds:

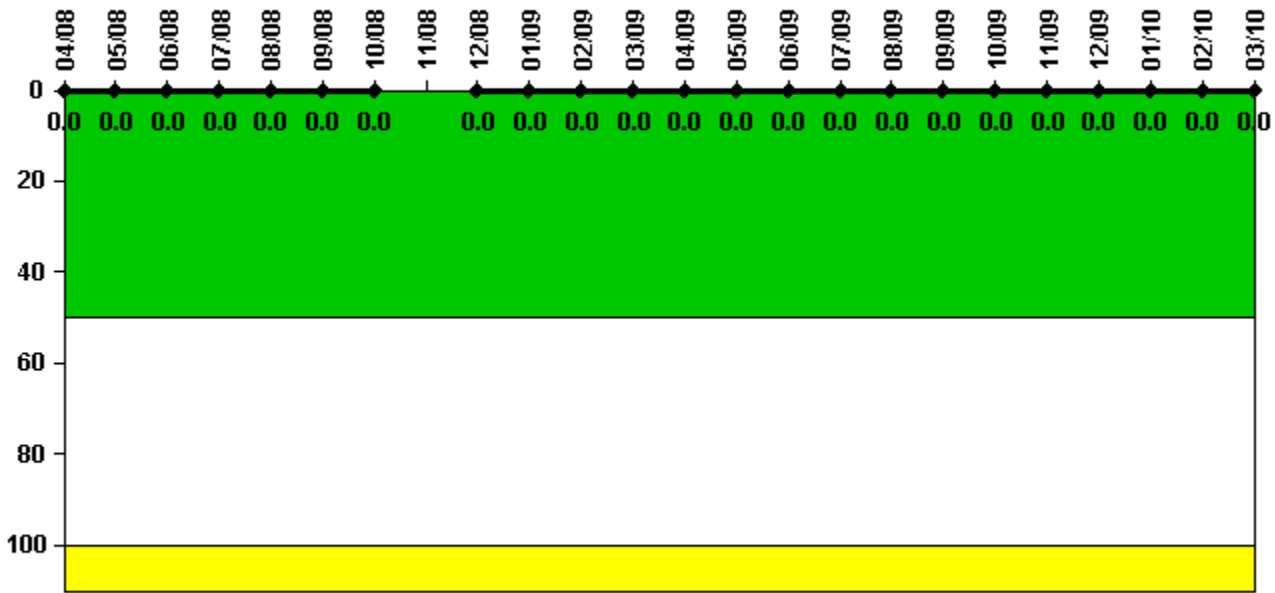
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	$3.00E-08$	$2.40E-08$	$1.90E-08$	$2.50E-08$	$2.30E-08$	$1.70E-08$	$1.20E-08$	$6.21E-08$
URI (Δ CDF)	$-1.40E-07$	$-1.30E-07$	$-1.30E-07$	$-1.30E-07$	$-1.30E-07$	$-1.30E-07$	$-1.30E-07$	$5.99E-08$
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	$-1.10E-07$	$-1.06E-07$	$-1.11E-07$	$-1.05E-07$	$-1.07E-07$	$-1.13E-07$	$-1.18E-07$	$1.20E-07$

Licensee Comments:

1Q/10: Changed PRA Parameter(s). Changed PRA Parameters in accordance with December 2009 PRA Model Revision.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

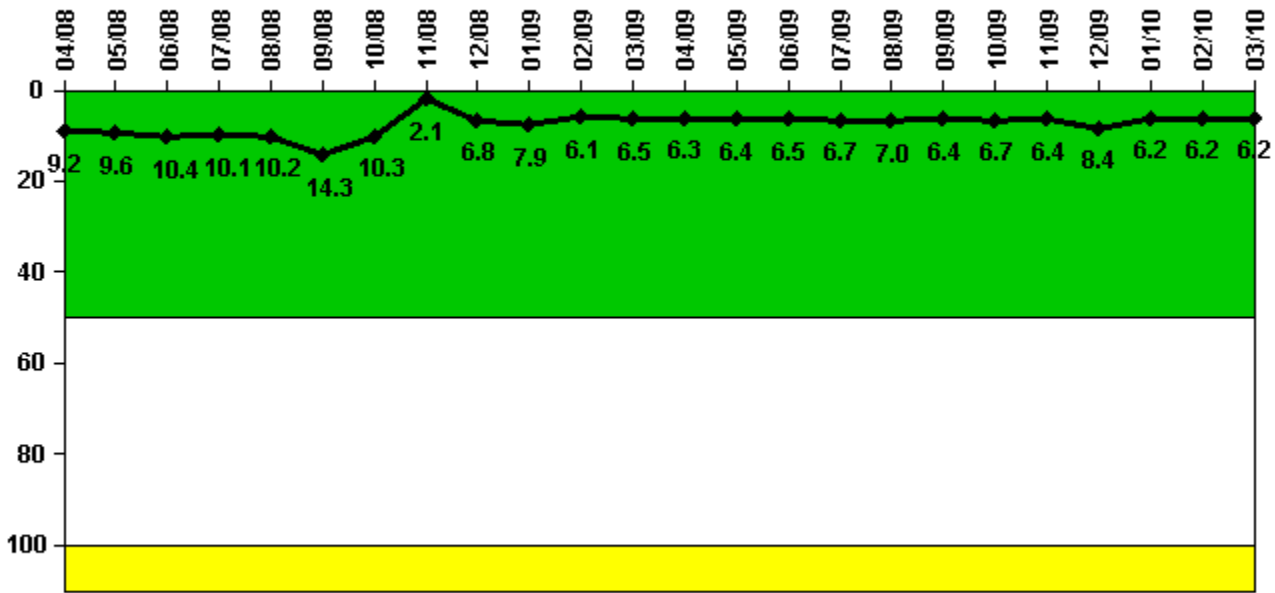
Notes

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	0.000085	0.000045	0.000049	0.000079	0.000098	0.000089	0.000064	N/A	0.000109	0.000062	0.000036	0.000091
Technical specification limit	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Indicator value	0	0	0	0	0	0	0	N/A	0	0	0	0

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	0.000063	0.000046	0.000051	0.000039	0.000035	0.000061	0.000046	0.000068	0.000078	0.000097	0.000086	0.000086
Technical specification limit	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



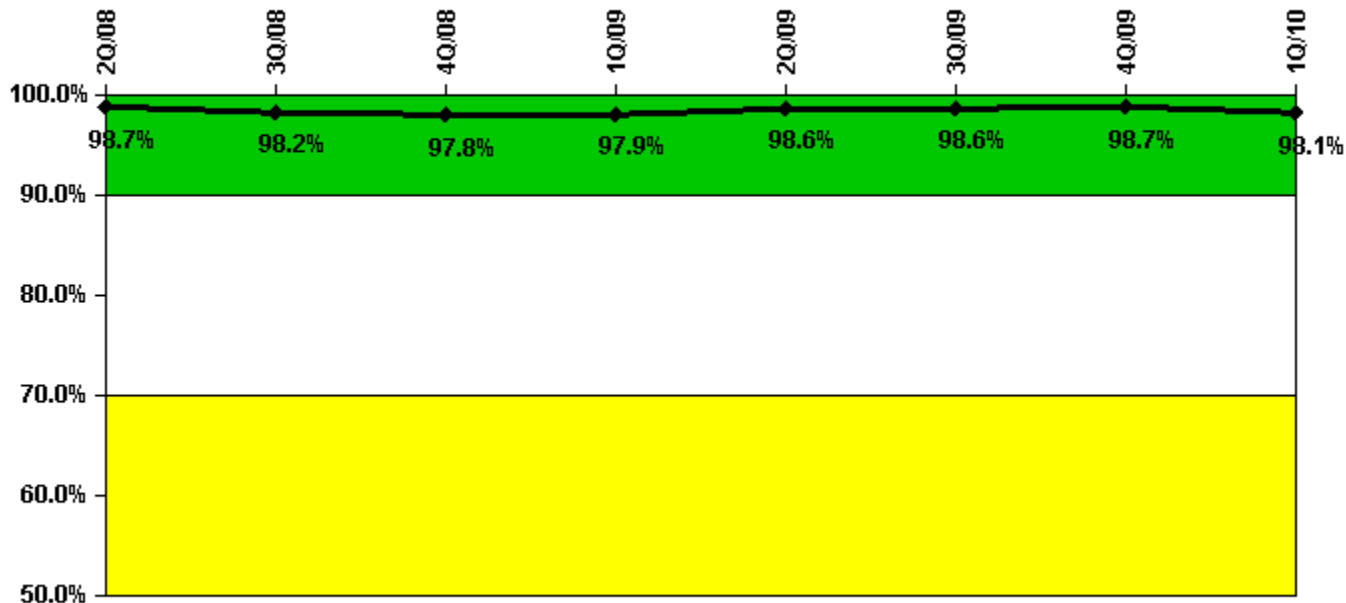
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	2.770	2.890	3.110	3.020	3.050	4.280	3.100	0.630	2.030	2.380	1.840	1.940
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	9.2	9.6	10.4	10.1	10.2	14.3	10.3	2.1	6.8	7.9	6.1	6.5
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	1.890	1.910	1.940	2.000	2.090	1.920	2.010	1.930	2.510	1.860	1.860	1.860
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	6.3	6.4	6.5	6.7	7.0	6.4	6.7	6.4	8.4	6.2	6.2	6.2

Licensee Comments: none

Drill/Exercise Performance



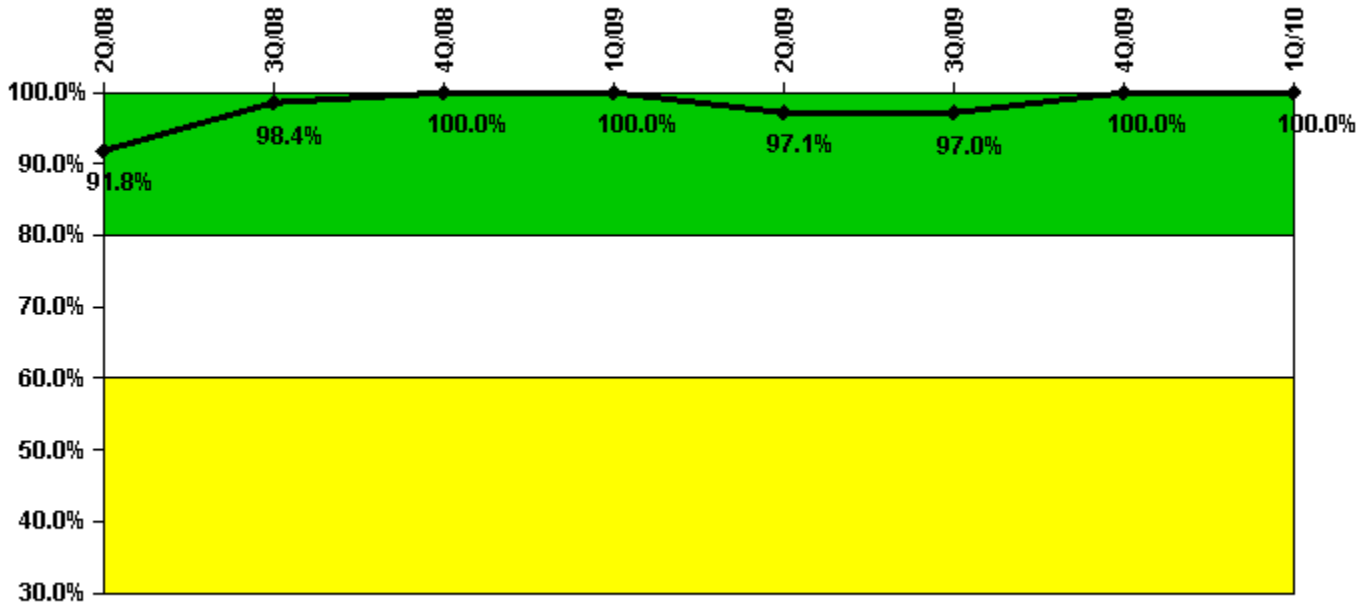
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	6.0	4.0	47.0	10.0	4.0	8.0	71.0	5.0
Total opportunities	6.0	4.0	48.0	10.0	4.0	8.0	72.0	6.0
Indicator value	98.7%	98.2%	97.8%	97.9%	98.6%	98.6%	98.7%	98.1%

Licensee Comments: none

ERO Drill Participation



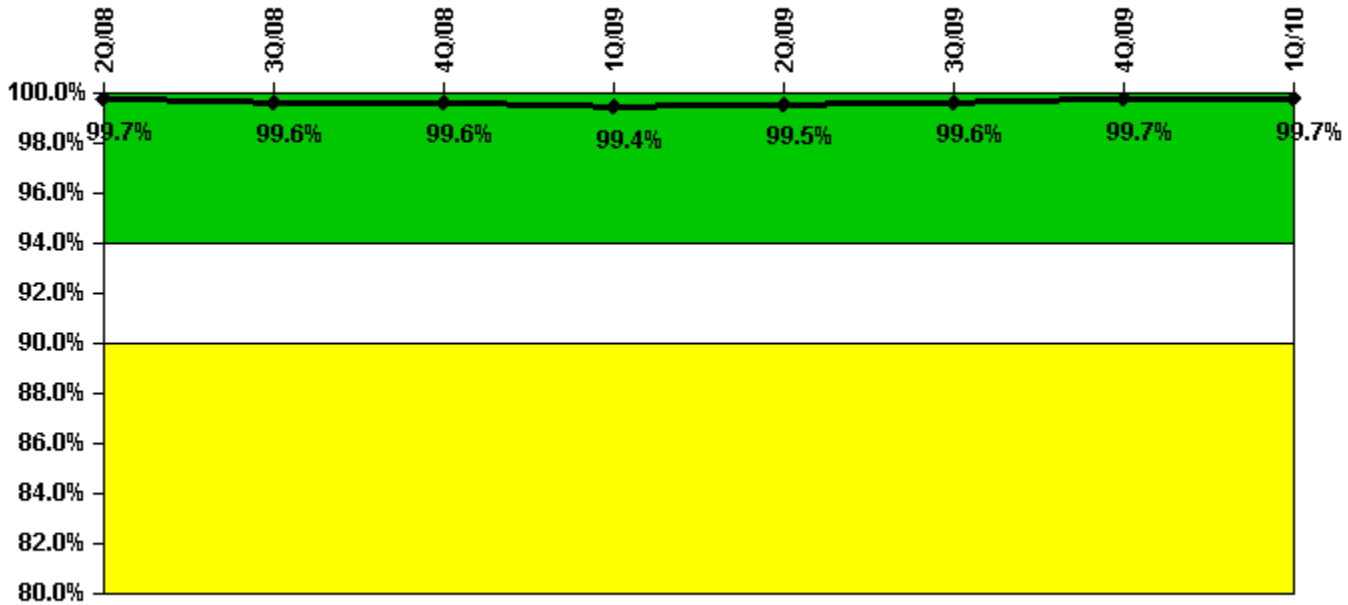
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	56.0	63.0	67.0	73.0	66.0	64.0	69.0	72.0
Total Key personnel	61.0	64.0	67.0	73.0	68.0	66.0	69.0	72.0
Indicator value	91.8%	98.4%	100.0%	100.0%	97.1%	97.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



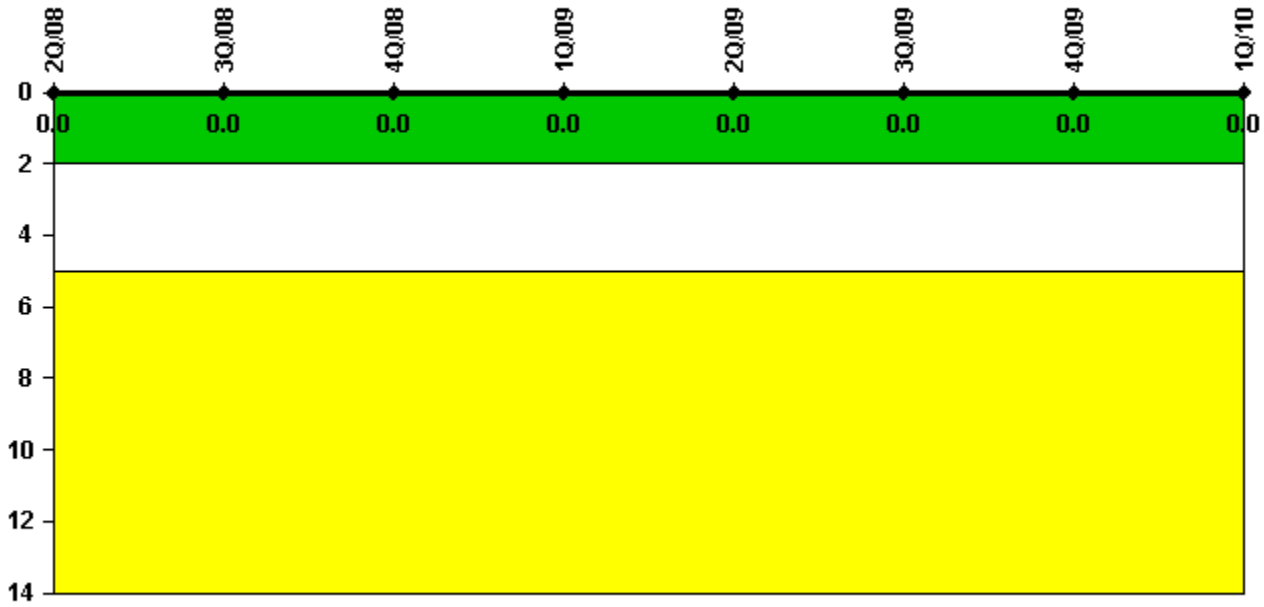
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	596	994	597	994	600	897	698	897
Total sirens-tests	600	1000	600	1000	600	900	700	900
Indicator value	99.7%	99.6%	99.6%	99.4%	99.5%	99.6%	99.7%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



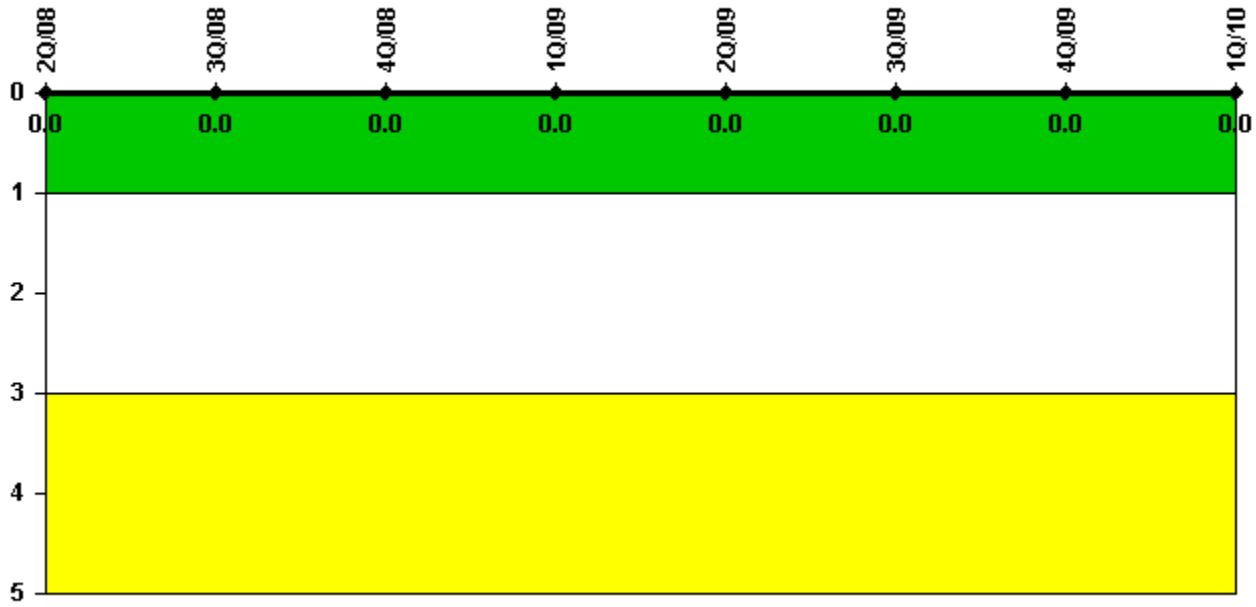
Thresholds: White > 2.0 Yellow > 5.0

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	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/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.