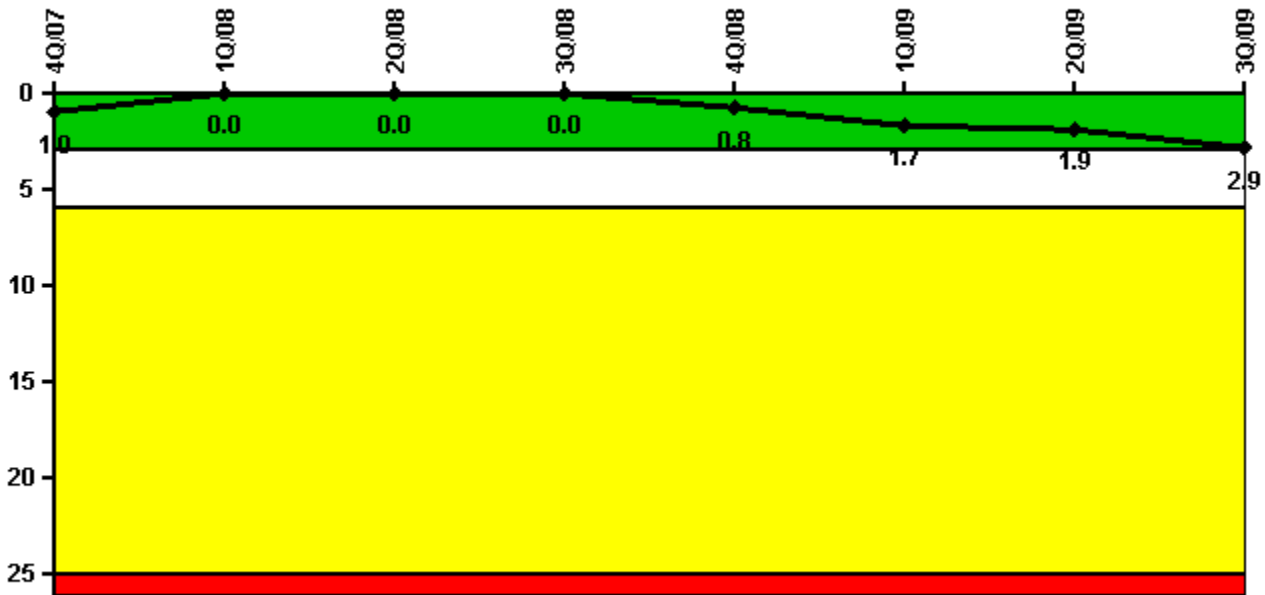


# Browns Ferry 2

## 3Q/2009 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



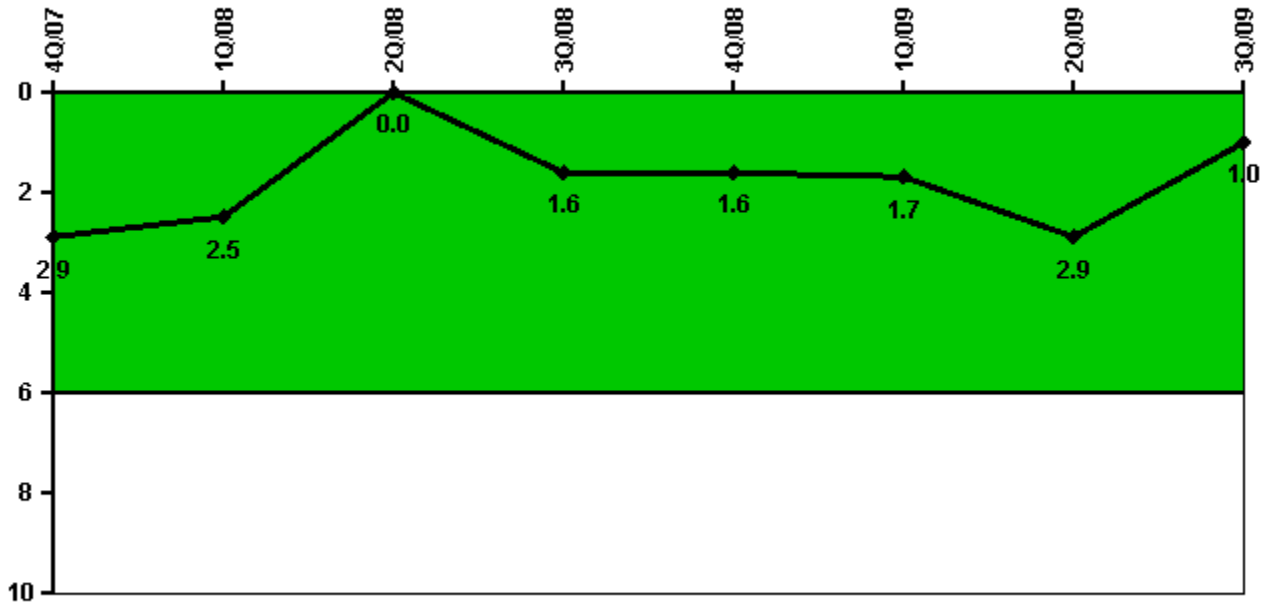
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned scrams	0	0	0	0	1.0	1.0	0	1.0
Critical hours	2209.0	2183.0	2184.0	2100.2	2137.4	2041.1	921.0	2183.4
Indicator value	1.0	0	0	0	0.8	1.7	1.9	2.9

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	0	0	0	2.0	0	0	1.0	0
Critical hours	2209.0	2183.0	2184.0	2100.2	2137.4	2041.1	921.0	2183.4
Indicator value	2.9	2.5	0	1.6	1.6	1.7	2.9	1.0

Licensee Comments: none

## Unplanned Scrams with Complications



Thresholds: White > 1.0

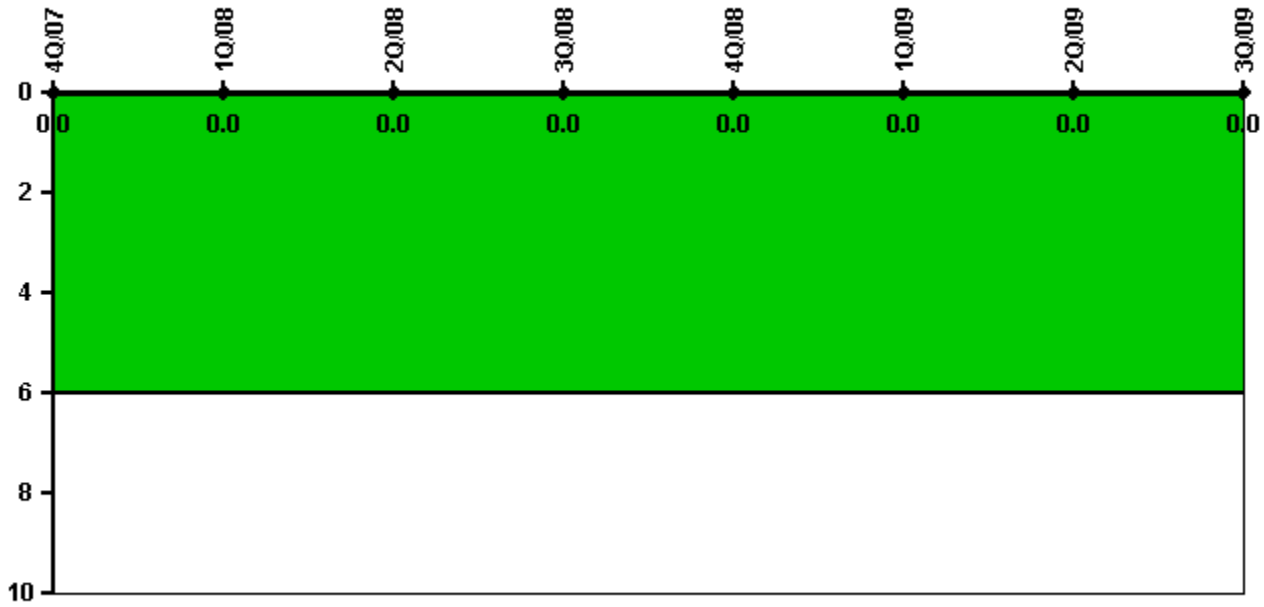
### Notes

Unplanned Scrams with Complications	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
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

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## Safety System Functional Failures (BWR)



Thresholds: White > 6.0

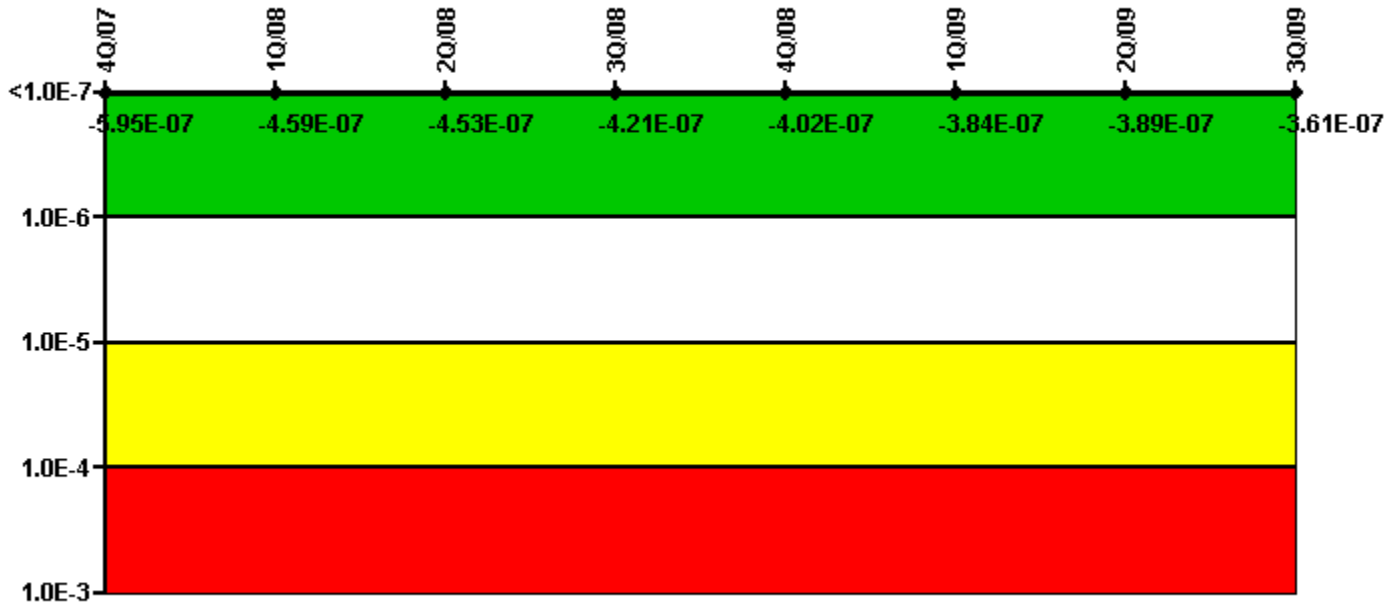
### Notes

Safety System Functional Failures (BWR)	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Safety System Functional Failures	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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# Mitigating Systems Performance Index, Emergency AC Power System



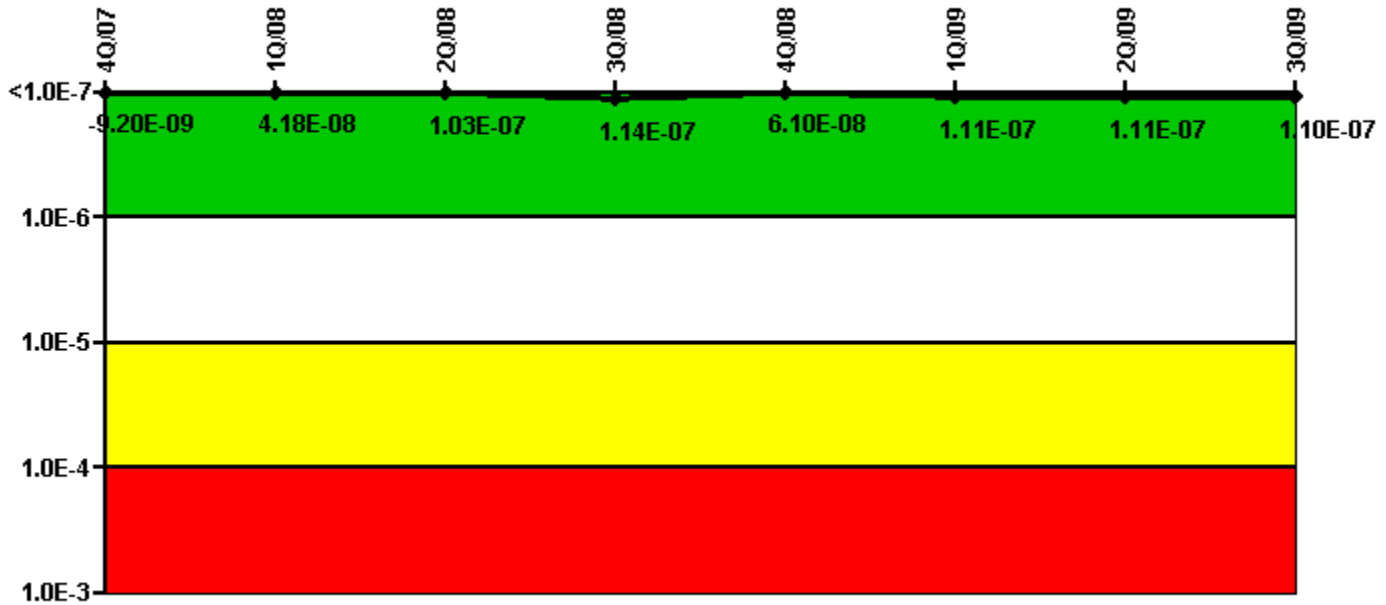
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	2.50E-08	1.10E-08	1.70E-08	4.90E-08	6.80E-08	7.60E-08	7.10E-08	9.90E-08
URI ( $\Delta$ CDF)	-6.20E-07	-4.70E-07	-4.70E-07	-4.70E-07	-4.70E-07	-4.60E-07	-4.60E-07	-4.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.95E-07	-4.59E-07	-4.53E-07	-4.21E-07	-4.02E-07	-3.84E-07	-3.89E-07	-3.61E-07

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



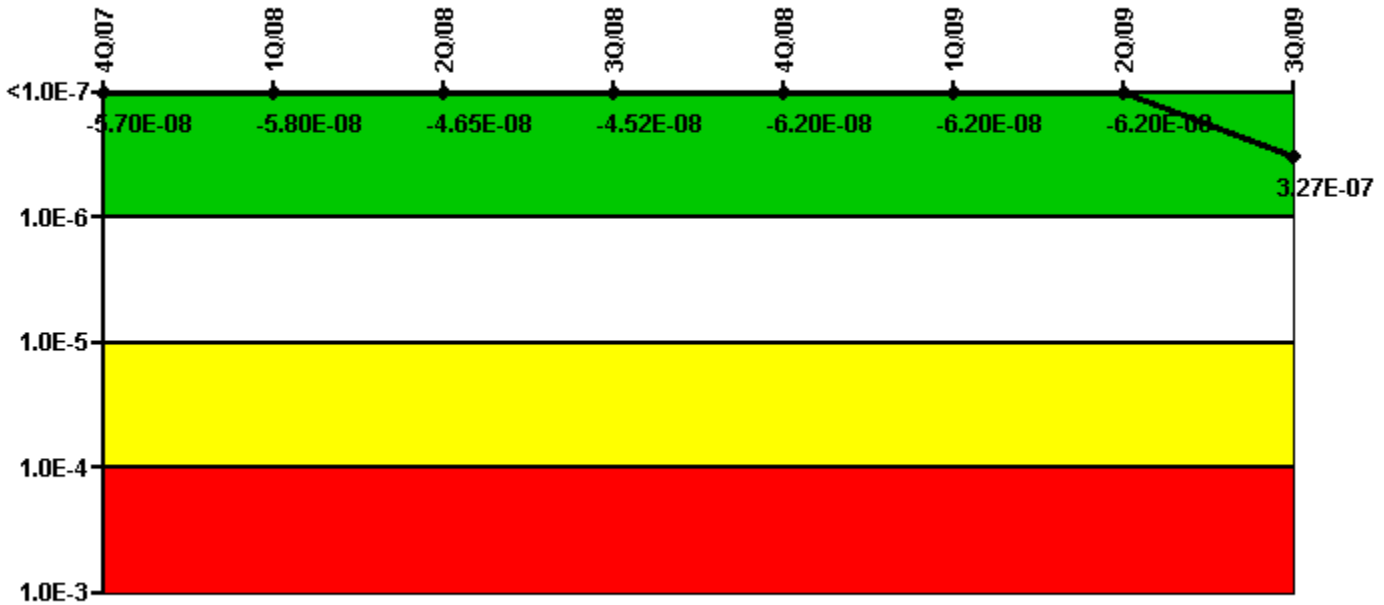
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	-1.20E-08	3.90E-08	1.00E-07	1.10E-07	1.00E-07	1.50E-07	1.50E-07	1.50E-07
URI ( $\Delta$ CDF)	2.80E-09	2.80E-09	2.80E-09	4.30E-09	-3.90E-08	-3.90E-08	-3.90E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.20E-09	4.18E-08	1.03E-07	1.14E-07	6.10E-08	1.11E-07	1.11E-07	1.10E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



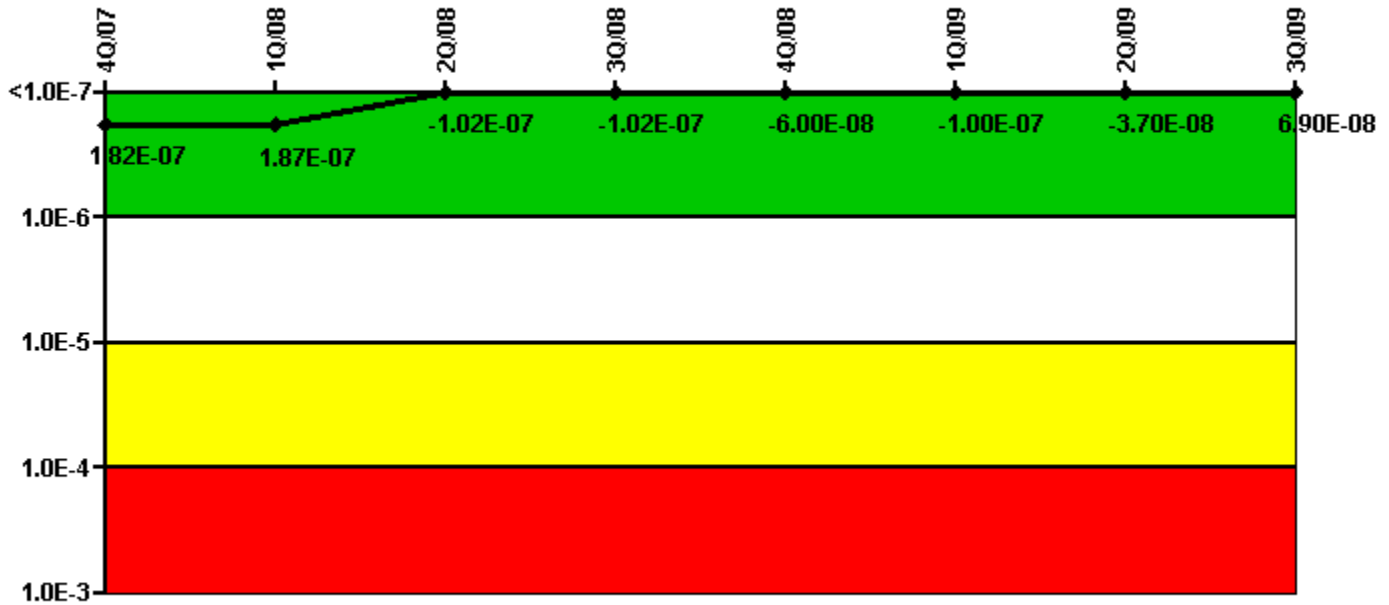
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	-1.30E-08	-1.40E-08	-2.50E-09	-2.20E-09	-1.90E-08	-1.90E-08	-1.90E-08	2.30E-07
URI ( $\Delta$ CDF)	-4.40E-08	-4.40E-08	-4.40E-08	-4.30E-08	-4.30E-08	-4.30E-08	-4.30E-08	9.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.70E-08	-5.80E-08	-4.65E-08	-4.52E-08	-6.20E-08	-6.20E-08	-6.20E-08	3.27E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



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

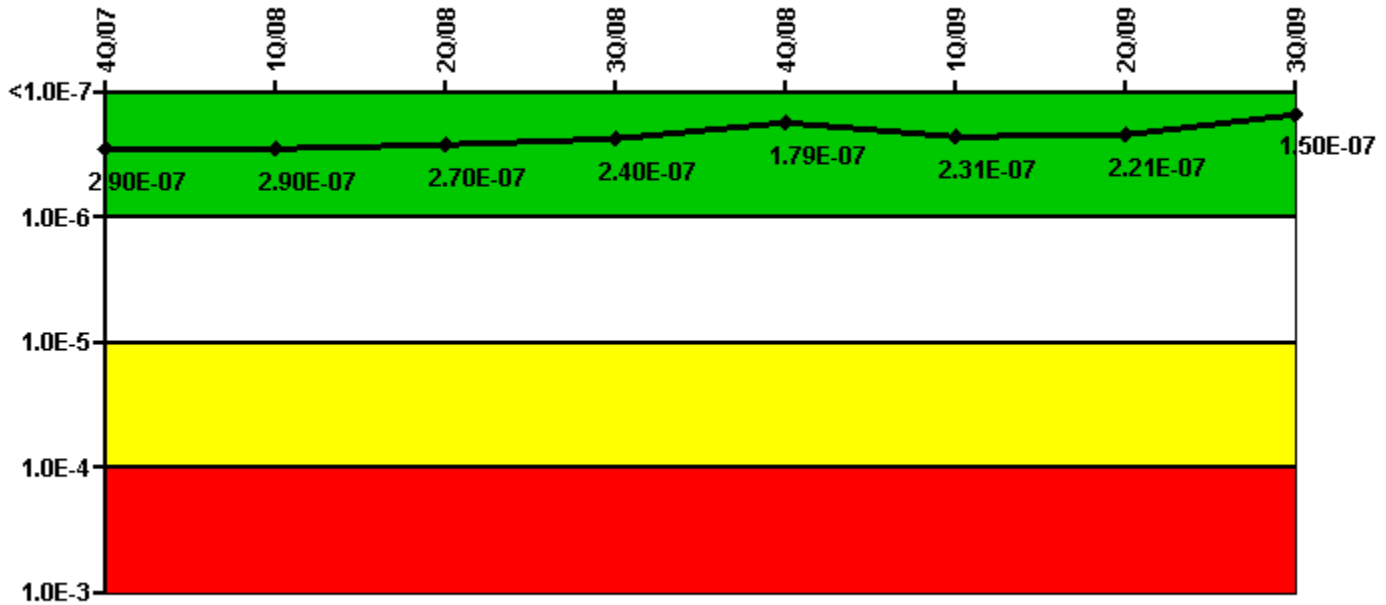
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	2.70E-07	2.70E-07	-2.50E-08	-2.40E-08	1.80E-08	-2.20E-08	5.10E-08	1.60E-07
URI ( $\Delta$ CDF)	-8.80E-08	-8.30E-08	-7.70E-08	-7.80E-08	-7.80E-08	-7.80E-08	-8.80E-08	-9.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.82E-07	1.87E-07	-1.02E-07	-1.02E-07	-6.00E-08	-1.00E-07	-3.70E-08	6.90E-08

Licensee Comments: none



# 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/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	1.60E-07	1.60E-07	1.30E-07	1.30E-07	1.00E-07	1.50E-07	1.40E-07	1.40E-07
URI (ΔCDF)	1.30E-07	1.30E-07	1.40E-07	1.10E-07	7.90E-08	8.10E-08	8.10E-08	1.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.90E-07	2.90E-07	2.70E-07	2.40E-07	1.79E-07	2.31E-07	2.21E-07	1.50E-07

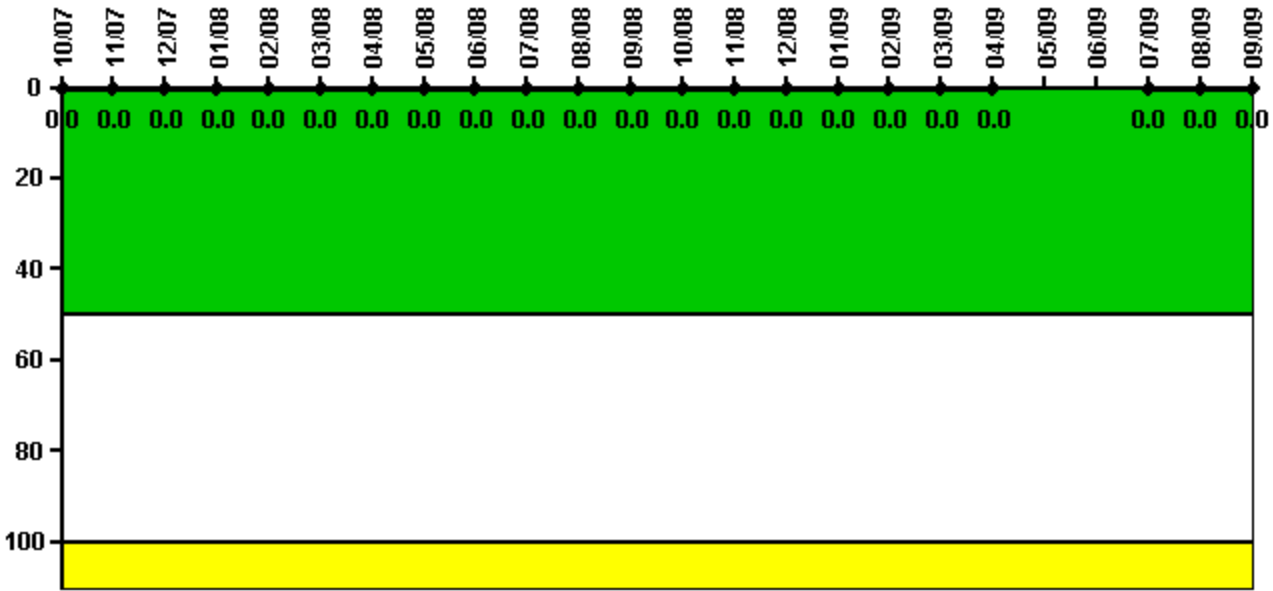
## Licensee Comments:

4Q/07: Unlocked to add U1 MSPI PRA numbers to A2 RHRSW Pump Device. Each failure on A2 was reassigned to another device, the U1 PRA parameters added to the A2 RHRSW Pump Device, and the failures reassigned. JAY 2/27/08 Unlocked to revise EPXI reports 186, 384, 327 based on PER 139177. These EPXI reports were misclassified as demand failures and were reclassified as run failures. JAY 3/29/08

3Q/07: Unlocked to add U1 MSPI PRA numbers to A2 RHRSW Pump Device. Each failure on A2 was reassigned to another device, the U1 PRA parameters added to the A2 RHRSW Pump Device, and the failures reassigned. JAY 2/27/08

2Q/07: A review of U2 and U3 MSPI baseline data entered in the CDE database identified several discrepancies with U2 and U3 MSPI Basis Documents. Unlocked to correct. Reference BFN PER 127680 Unlocked to add U1 MSPI PRA numbers to A2 RHRSW Pump Device. Each failure on A2 was reassigned to another device, the U1 PRA parameters added to the A2 RHRSW Pump Device, and the failures reassigned. JAY 2/27/08 Duplicate devices exist in the INPO CDE database for the RHRSW pumps. One device exists for U2 and one exists for U3. Both of these devices are tied to U1, U2 and U3 MSPI. Unlocked to delete duplicate device PER 141881. JAY 4/9/08 Unlocked to remove duplicate EECW pumps on U3 which results in duplicate demands, run times, and failures. See PER 200662. JAY 9/13/09

## Reactor Coolant System Activity



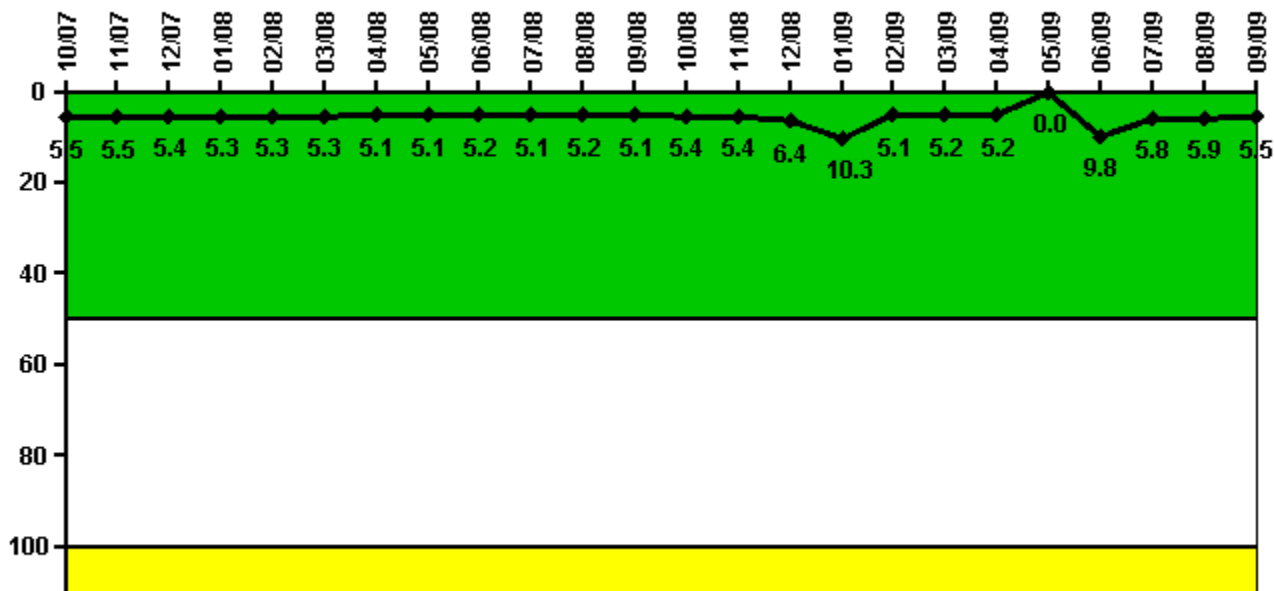
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Activity	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum activity	0.000034	0.000042	0.000036	0.000083	0.000038	0.000051	0.000066	0.000034	0.000047	0.000052	0.000062	0.000048
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
Reactor Coolant System Activity	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum activity	0.000073	0.000074	0.000068	0.000062	0.000062	0.000068	0.000071	N/A	N/A	0.000091	0.000066	0.000059
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	N/A	0	0	0

Licensee Comments: none

## Reactor Coolant System Leakage



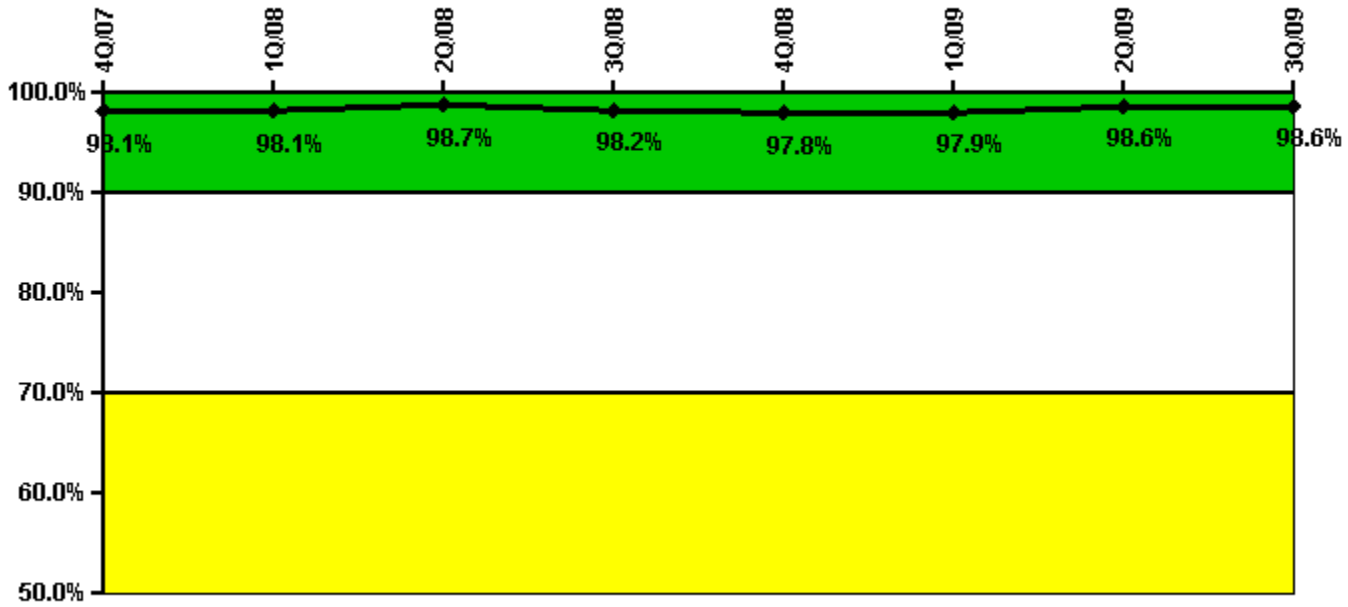
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum leakage	1.660	1.640	1.610	1.590	1.590	1.590	1.530	1.530	1.560	1.540	1.550	1.520
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	5.5	5.5	5.4	5.3	5.3	5.3	5.1	5.1	5.2	5.1	5.2	5.1
Reactor Coolant System Leakage	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum leakage	1.610	1.630	1.930	3.090	1.530	1.550	1.560	0	2.940	1.730	1.760	1.660
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	5.4	5.4	6.4	10.3	5.1	5.2	5.2	0	9.8	5.8	5.9	5.5

Licensee Comments: none

## Drill/Exercise Performance



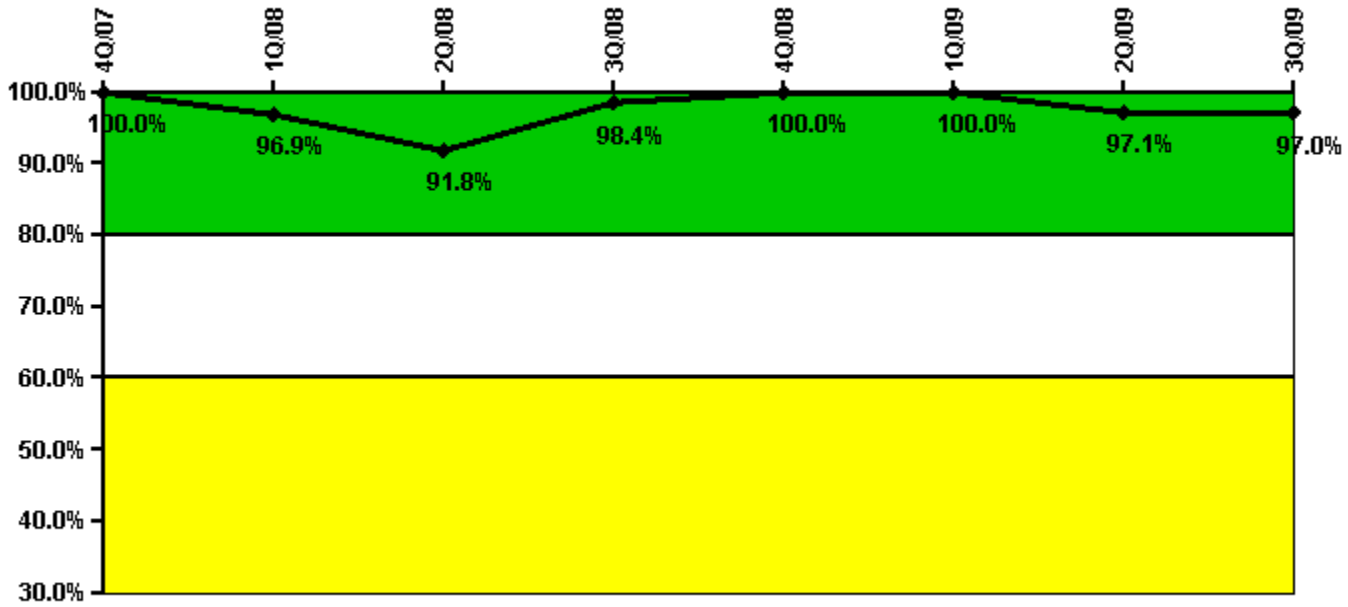
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	55.0	6.0	6.0	4.0	47.0	10.0	4.0	8.0
Total opportunities	56.0	6.0	6.0	4.0	48.0	10.0	4.0	8.0
Indicator value	98.1%	98.1%	98.7%	98.2%	97.8%	97.9%	98.6%	98.6%

Licensee Comments: none

## ERO Drill Participation



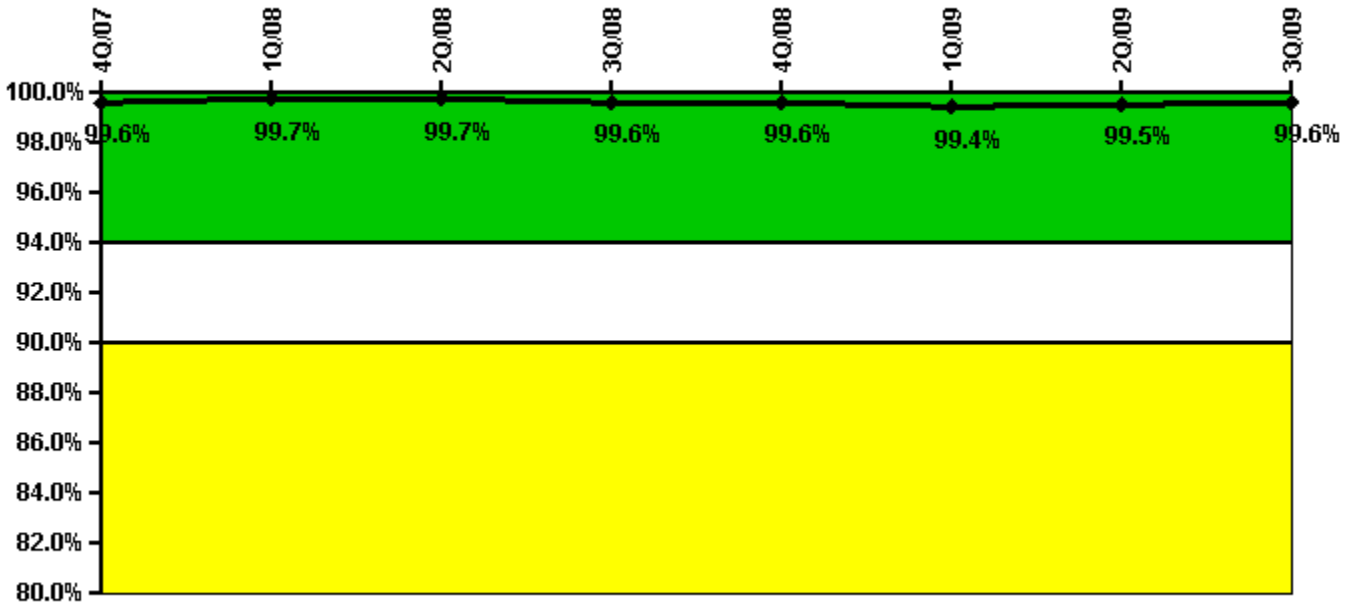
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Participating Key personnel	68.0	62.0	56.0	63.0	67.0	73.0	66.0	64.0
Total Key personnel	68.0	64.0	61.0	64.0	67.0	73.0	68.0	66.0
Indicator value	100.0%	96.9%	91.8%	98.4%	100.0%	100.0%	97.1%	97.0%

Licensee Comments: none

# Alert & Notification System



**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

Alert & Notification System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	698	999	596	994	597	994	600	897
Total sirens-tests	700	1000	600	1000	600	1000	600	900
Indicator value	99.6%	99.7%	99.7%	99.6%	99.6%	99.4%	99.5%	99.6%

## Licensee Comments:

1Q/09: BFN PER 175237 - PI data for the 3rd silent test of the Alert and Notification System (ANS) sirens conducted for BFN during March 2009 was not submitted by EP for inclusion in the ANS Performance Indicator data base. The silent test had been conducted with 100% results.

# Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
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
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

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# RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

## Notes

RETS/ODCM Radiological Effluent	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
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.