Browns Ferry 2

1Q/2000 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned scrams	0	1.0	2.0	0	0
Critical hours	2160.0	1509.8	2155.9	2209.0	2184.0
Indicator value	**0.8**	**1.7**	**3.5**	**2.6**	**2.6**

Licensee Comments:

3Q/99: Revision on Sep-99 due to typographical error. The change does not affect the color of the indicator.

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Scrams	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

Licensee Comments:

1Q/00: Change made to 4/97, Inadvertantly omitted from the historical submittal. No color change.

2Q/97: Change made to 4/97, Inadvertantly omitted from the historical submittal. No color change.

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	0	2.0	2.0	0
Critical hours	2160.0	1509.8	2155.9	2209.0	2184.0
Indicator value	**0**	**0**	**1.7**	**3.5**	**3.5**

Licensee Comments:

1Q/00: Revision to May-98, Aug-98, and Sep-99 due to typographical error. The color did not change.

3Q/99: Revised Jul-99 unplanned power changes and Sep-99 critical hours. No color change.

3Q/99: Revision to Sep-99 due to typographical error. No color change.

3Q/98: Revision to Aug-98 due to typographical error. No color change.

2Q/98: Revision to May-98 due to typographical error. No color change.

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	2.90	9.60	21.40	9.00	2.50
Unplanned unavailable hours	0	0	19.80	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2135.00	2208.00	2209.00	2184.00
Train 2					
Planned unavailable hours	10.10	0.90	27.20	2.60	2.30
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2135.00	2208.00	2209.00	2184.00
Train 3					
Planned unavailable hours	2.20	5.00	24.70	9.90	2.40
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2135.00	2208.00	2209.00	2184.00
Train 4					
Planned unavailable hours	1.50	2.70	25.90	4.00	2.90
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2135.00	2208.00	2209.00	2184.00
Train 5					
Planned unavailable hours	2.40	32.70	1.50	6.50	2.70
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0

Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2135.00	2208.00	2209.00	2184.00
Train 6					
Planned unavailable hours	33.20	10.80	8.60	1.60	2.40
Unplanned unavailable hours	0	0	0	40.60	2.00
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2135.00	2208.00	2209.00	2184.00
Train 7					
Planned unavailable hours	30.80	1.50	51.80	1.00	2.30
Unplanned unavailable hours	0	0	9.50	54.20	65.40
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2135.00	2208.00	2209.00	2184.00
Train 8					
Planned unavailable hours	15.60	2.10	4.50	2.40	2.50
Unplanned unavailable hours	0	0	25.90	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2135.00	2208.00	2209.00	2184.00
Indicator value	**1.0%**	**1.0%**	**0.9%**	**0.7%**	**0.7%**

Licensee Comments:

1Q/00: Revised Jan-98, Feb-98, Mar-98, May-98, Jun-98 data to remove hours for on-line planned overhaul maintenance. The color did not change.

2Q/98: Revised May-98, data to remove hours for on-line planned overhaul maintenance. The color did not change.

1Q/98: Revision made to Mar-98 data to remove hours for on-line planned overhaul maintenance. The color did not change.

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	29.50	4.50	9.00	2.25	0
Unplanned unavailable hours	0	0.42	3.70	0.17	0
Fault exposure hours	0	0	65.30	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	1588.92	2208.00	2209.00	2184.00
Indicator value	**1.1%**	**1.0%**	**1.3%**	**1.3%**	**1.3%**

Licensee Comments:

1Q/00: On Apr-96, May-96, Oct-96, Nov-96, Apr-97, Sep-97, Oct-97, Apr-98, Oct-98, Apr-99, May-99, Oct-99 numbers slightly refined based on engineering re-evaluation. No color change.

4Q/99: On Oct-99 number slightly refined based on engineering re-evaluation. No color change.

3Q/99: Changed quarterly values to monthly values. No color change.

2Q/99: On Apr-99 and May-99, numbers slightly refined based on engineering re-evaluation. No color change.

1Q/99: Changed quarterly values to monthly values. No color change.

4Q/98: On Oct-98 number slightly refined based on engineering re-evaluation. No color change.

3Q/98: Changed quarterly values to monthly values. No color change.

2Q/98: On Apr-98, number slightly refined based on engineering re-evaluation. No color change.

1Q/98: Changed quarterly values to monthly values. No color change.

4Q/97: On Oct-97 number slightly refined based on engineering re-evaluation. No color change.

3Q/97: On Sep-97 number slightly refined based on engineering re-evaluation. No color change.

2Q/97: On Apr-97 number slightly refined based on engineering re-evaluation. No color change.

1Q/97: Changed quarterly values to monthly values. No color change.

4Q/96: On Oct-96 and Nov-96, number slightly refined based on engineering re-evaluation. No color change.

3Q/96: Changed quarterly values to monthly values. No color change.

2Q/96: On Apr-96 and May-96, number slightly refined based on engineering re-evaluation. No color change.

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0.24	0.17	0.10	26.77	0.08
Unplanned unavailable hours	69.00	0	56.00	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	1588.92	2208.00	2209.00	2184.00
Indicator value	**1.3%**	**1.3%**	**1.4%**	**1.4%**	**1.4%**

Licensee Comments:

1Q/00: Changes were made to Unit 2 RCIC unavailable hours on 7/23/97, 10/20/97, 1/7/98, 4/1/98, 6/26/98, 9/16/98, 12/10/98, 3/3/99,

3/7/99, 5/6/99, 8/18/99, 11/10/99, 2/2/00. The previous data was based on a conservative estimate. The revised data reflects actual out-of-service time. The changes do not affect the color of the indicator.

4Q/99: Changes were made to Unit 2 RCIC unavailable hours for 11/10/99. The previous data was based on a conservative estimate. The revised data reflects actual out-of-service time. The changes do not affect the color of the indicator.

3Q/99: Changes were made to Unit 2 RCIC unavailable hours for 8/18/99. The previous data was based on a conservative estimate. The revised data reflects actual out-of-service time. The changes do not affect the color of the indicator.

2Q/99: Changes were made to Unit 2 RCIC unavailable hours for 5/6/99. The previous data was based on a conservative estimate. The revised data reflects actual out-of-service time. The changes do not affect the color of the indicator.

1Q/99: Changes were made to Unit 2 RCIC unavailable hours for 3/3/99, 3/7/99. The previous data was based on a conservative estimate. The revised data reflects actual out-of-service time. The changes do not affect the color of the indicator.

4Q/98: Changes were made to Unit 2 RCIC unavailable hours for 12/10/98. The previous data was based on a conservative estimate. The revised data reflects actual out-of-service time. The changes do not affect the color of the indicator.

3Q/98: Changes were made to Unit 2 RCIC unavailable hours for 9/16/98. The previous data was based on a conservative estimate. The revised data reflects actual out-of-service time. The changes do not affect the color of the indicator.

2Q/98: Changes were made to Unit 2 RCIC unavailable hours for 4/1/98, 6/26/98. The previous data was based on a conservative estimate. The revised data reflects actual out-of-service time. The changes do not affect the color of the indicator.

1Q/98: Changes were made to Unit 2 RCIC unavailable hours for 1/7/98. The previous data was based on a conservative estimate. The revised data reflects actual out-of-service time. The changes do not affect the color of the indicator.

4Q/97: Changed Unit 2 RCIC required hours for Oct-97. The change did not affect the color of the indicator.

4Q/97: Changes were made to Unit 2 RCIC unavailable hours for 10/20/97. The previous data was based on a conservative estimate. The revised data reflects actual out-of-service time. The changes do not affect the color of the indicator.

3Q/97: Changed Unit 2 RCIC required hours for Jul-97. The change did not affect the color of the indicator.

3Q/97: Changes were made to Unit 2 RCIC unavailable hours for 7/23/97. The previous data was based on a conservative estimate. The revised data reflects actual out-of-service time. The changes do not affect the color of the indicator.

2Q/97: On Apr-97 number slightly refined based on engineering re-evaluation. No color change.

1Q/97: Changed quarterly values to monthly values. No color change.

4Q/96: On Oct-96 and Nov-96 numbers slightly refined based on engineering re-evaluation. No color change.

3Q/96: Changed quarterly values to monthly values. No color change.

2Q/96: On Sep-96 and May-96 number slightly refined based on engineering re-evaluation. No color change.

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	11.52	69.17	12.09	0.53	9.23
Unplanned unavailable hours	0	0	6.16	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	1920.00	2208.00	2209.00	2184.00
Train 2					
Planned unavailable hours	40.22	76.08	0.70	9.32	27.87
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	1876.00	2208.00	2209.00	2184.00
Train 3					
Planned unavailable hours	49.63	69.17	0.57	18.49	21.27
Unplanned unavailable hours	4.87	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	1920.00	2208.00	2209.00	2184.00
Train 4					
Planned unavailable hours	39.92	59.61	0.70	7.55	27.87
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	1876.00	2208.00	2209.00	2184.00
Indicator value	**0.9%**	**1.1%**	**1.0%**	**1.1%**	**1.1%**

Licensee Comments:

1Q/00: On July, September, December 1997, November 1998, March, April, and July 1999, numbers slightly refined based on engineering re-evaluation. No color change.

4Q/99: Changed quarterly values to monthly values. No color change.

3Q/99: On July 1999, number slightly refined based on engineering re-evaluation. No color change.

3Q/99: On July 1999, number slightly refined based on engineering re-evaluation. No color change.

2Q/99: On April 1999 corrected typographical error. No color change.

2Q/99: On April 1999, number slightly refined based on engineering re-evaluation. No color change.

1Q/99: On March 1999, number slightly refined based on engineering re-evaluation. No color change.

1Q/99: On January, February, March 1999 removed hours for planned on-line overhaul maintenance. No color change.

1Q/99: On January, February, March 1999 removed hours for planned on-line overhaul maintenance. No color change.

4Q/98: On November 1998, number slightly refined based on engineering re-evaluation. No color change.

3Q/98: Changed quarterly values to monthly values. No color change.

2Q/98: Changed quarterly values to monthly values. No color change.

2Q/98: Changed quarterly values to monthly values. No color change.

1Q/98: Changed quarterly values to monthly values. No color change.

1Q/98: Changed quarterly values to monthly values. No color change.

4Q/97: On December 1997, number slightly refined based on engineering re-evaluation. No color change.

4Q/97: On December 1997 removed hours for planned on-line overhaul maintenance. No color change.

3Q/97: On August and September 1997, removed hours for on-line planned overhaul maintenance. No color change.

3Q/97: On July and September 1997, number slightly refined based on engineering re-evaluation. No color change.

2Q/97: Changed quarterly values to monthly values; Apr-97 removed hours for on-line planned overhaul maintenance. No color change.

2Q/97: Changed quarterly values to monthly values. No color change.

1Q/97: Changed quarterly values to monthly values. No color change.

4Q/96: Changed quarterly values to monthly values. No color change.

4Q/96: Changed quarterly values to monthly values. No color change.

3Q/96: On July 1996, number slightly refined based on engineering re-evaluation. No color change.

2Q/96: Changed quarterly values to monthly values. No color change.

2Q/96: Changed quarterly values to monthly values. No color change.

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Safety System Functional Failures	0	0	1	2	0
Indicator value	**0**	**0**	**1**	**3**	**3**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum activity	0.000071	0.000057	0.000069	0.000074	0.000085	0.000059	0.000039	0.000039	0.000054	0.000029	0.000030	0.000047
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	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum leakage	2.050	2.700	2.620	2.570	2.630	2.800	2.970	2.870	2.860	2.700	2.900	3.340
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	**6.8**	**9.0**	**8.7**	**8.6**	**8.8**	**9.3**	**9.9**	**9.6**	**9.5**	**9.0**	**9.7**	**11.1**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful opportunities	8.0	9.0	8.0	52.0	0
Total opportunities	8.0	10.0	8.0	53.0	0
Indicator value				**98.3%**	**98.3%**

Licensee Comments:

1Q/00: The second quarter 1999 Drill/Exercise Performance PI, "Number of Successful Opportunities", was revised from 10 to 9. This was changed after clarification discussions with Region II NRC staff pertaining to a Protective Action Recommendation developed during an exercise conducted in May 1999. This change does not change the threshold for this PI (remains Green).

2Q/99: The second quarter 1999 Drill/Exercise Performance PI, "Number of Successful Opportunities", was revised from 10 to 9. This was changed after clarification discussions with Region II NRC staff pertaining to a Protective Action Recommendation developed during an exercise conducted in May 1999. This change does not change the threshold for this PI (remains Green).

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Participating Key personnel	33.0	33.0	37.0	36.0	36.0
Total Key personnel	37.0	37.0	37.0	37.0	37.0
Indicator value	**89.2%**	**89.2%**	**100.0%**	**97.3%**	**97.3%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful siren-tests	988	691	994	691	788
Total sirens-tests	1000	700	1000	700	800
Indicator value	**99.0%**	**98.8%**	**98.9%**	**98.9%**	**98.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
IDS compensatory hours	27.94	15.25	185.80	0	0
CCTV compensatory hours	2.9	17.0	119.5	0	37.7
IDS normalization factor	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7
Index Value	**0.007**	**0.006**	**0.014**	**0.011**	**0.012**

Licensee Comments:

1Q/00: The IDS and CCTV Normalization Factors were inadvertently transposed in the historical submittal of January 21,2000. These factors have been corrected. The color did not change.

4Q/99: The IDS and CCTV Normalization Factors were inadvertently transposed in the historical submittal of January 21,2000. These factors have been corrected. No color change.

3Q/99: The IDS and CCTV Normalization Factors were inadvertently transposed in the historical submittal of January 21,2000. These factors have been corrected. No color change.

2Q/99: The IDS and CCTV Normalization Factors were inadvertently transposed in the historical submittal of January 21,2000. These factors have been corrected. No color change.

1Q/99: The IDS and CCTV Normalization Factors were inadvertently transposed in the historical submittal of January 21,2000. These factors have been corrected. No color change.

4Q/98: The IDS and CCTV Normalization Factors were inadvertently transposed in the historical submittal of January 21,2000. These factors have been corrected. No color change.

3Q/98: The IDS and CCTV Normalization Factors were inadvertently transposed in the historical submittal of January 21,2000. These factors have been corrected. No color change.

2Q/98: The IDS and CCTV Normalization Factors were inadvertently transposed in the historical submittal of January 21,2000. These factors have been corrected. No color change.

1Q/98: The IDS and CCTV Normalization Factors were inadvertently transposed in the historical submittal of January 21,2000. These factors have been corrected. No color change.

4Q/97: The IDS and CCTV Normalization Factors were inadvertently transposed in the historical submittal of January 21,2000. These factors have been corrected. No color change.

3Q/97: The IDS and CCTV Normalization Factors were inadvertently transposed in the historical submittal of January 21,2000. These factors have been corrected. No color change.

2Q/97: The IDS and CCTV Normalization Factors were inadvertently transposed in the historical submittal of January 21,2000. These factors have been corrected. No color change.

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Program failures	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Program Failures	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: April 1, 2002

Browns Ferry 2

2Q/2000 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned scrams	1.0	2.0	0	0	0
Critical hours	1509.8	2155.9	2209.0	2184.0	2151.0
Indicator value	**1.7**	**3.5**	**2.6**	**2.6**	**1.6**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Scrams	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned power changes	0	2.0	2.0	0	0
Critical hours	1509.8	2155.9	2209.0	2184.0	2151.0
Indicator value	**0**	**1.7**	**3.5**	**3.5**	**3.2**

Licensee Comments:

2Q/00: Revised Jul-99 unplanned power change and Sep-99 critical hours. No color change.

3Q/99: Revised Jul-99 unplanned power changes and Sep-99 critical hours. No color change.

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	9.60	21.40	9.00	2.50	1.40
Unplanned unavailable hours	0	19.80	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2135.00	2208.00	2209.00	2184.00	2183.00
Train 2					
Planned unavailable hours	0.90	27.20	2.60	2.30	1.40
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2135.00	2208.00	2209.00	2184.00	2183.00
Train 3					
Planned unavailable hours	5.00	24.70	9.90	2.40	2.00
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2135.00	2208.00	2209.00	2184.00	2183.00
Train 4					
Planned unavailable hours	2.70	25.90	4.00	2.90	1.40
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2135.00	2208.00	2209.00	2184.00	2183.00
Train 5					
Planned unavailable hours	32.70	1.50	6.50	2.70	2.20
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0

Effective Reset hours	0	0	0	0	0
Required hours	2135.00	2208.00	2209.00	2184.00	2183.00
Train 6					
Planned unavailable hours	10.80	8.60	1.60	2.40	1.80
Unplanned unavailable hours	0	0	40.60	2.00	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2135.00	2208.00	2209.00	2184.00	2183.00
Train 7					
Planned unavailable hours	1.50	51.80	1.00	2.30	2.40
Unplanned unavailable hours	0	9.50	54.20	65.40	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2135.00	2208.00	2209.00	2184.00	2183.00
Train 8					
Planned unavailable hours	2.10	4.50	2.40	2.50	4.10
Unplanned unavailable hours	0	25.90	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2135.00	2208.00	2209.00	2184.00	2183.00
Indicator value	**1.0%**	**0.9%**	**0.7%**	**0.7%**	**0.6%**

Licensee Comments:

2Q/00: Revision to Oct-98 and Oct-99 to add one hour to the hours train required for service during the month for each train. Removed 0.3 hrs from Train 6 on Jul-99 to correct typographical error. No color change. Removed .3 hours unplanned unavailability and 11.6 hours fault exposure hours from Sep 99 due to a review of the design calc's which determined that there was sufficient air to start the diesel at 150 psig. No color change.

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	4.50	9.00	2.25	0	1.97
Unplanned unavailable hours	0.42	3.70	0.17	0	0
Fault exposure hours	0	65.30	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1588.92	2208.00	2209.00	2184.00	2183.00
Indicator value	**1.0%**	**1.3%**	**1.3%**	**1.3%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0.17	0.10	26.77	0.08	1.57
Unplanned unavailable hours	0	56.00	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1588.92	2208.00	2209.00	2184.00	2183.00
Indicator value	**1.3%**	**1.4%**	**1.4%**	**1.4%**	**1.1%**

Licensee Comments:

2Q/00: Revised Jul-97, Oct-97 hours required. Color did not change.

4Q/97: Changed Unit 2 RCIC required hours for Oct-97. The change did not affect the color of the indicator.

3Q/97: Changed Unit 2 RCIC required hours for Jul-97. The change did not affect the color of the indicator.

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	69.17	12.09	0.53	9.23	23.05
Unplanned unavailable hours	0	6.16	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1920.00	2208.00	2209.00	2184.00	2183.00
Train 2					
Planned unavailable hours	76.08	0.70	9.32	27.87	16.76
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1876.00	2208.00	2209.00	2184.00	2183.00
Train 3					
Planned unavailable hours	69.17	0.57	18.49	21.27	0.45
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1920.00	2208.00	2209.00	2184.00	2183.00
Train 4					
Planned unavailable hours	59.61	0.70	7.55	27.87	0.30
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1876.00	2208.00	2209.00	2184.00	2183.00
Indicator value	**1.1%**	**1.0%**	**1.1%**	**1.1%**	**1.1%**

Licensee Comments:

2Q/00: Revised Apr-96, May-96, Jun-96, Oct-96, Nov-96, Dec-96, Apr-97, May-97, Jun-97, Apr-98, May-98, Jun-98 to change quarterly values to monthly values. Revised Apr-97,Aug-97, Sep-97, Dec-97, Jan-99, Feb-99, Mar-99, to remove hours for on-line planned overhaul maintenance. Revised Apr-99 to correct typographical error. The color did not change.

2Q/00: Revised Apr-96, May-96, Jun-96, Oct-96, Nov-96, Dec-96, Apr-97, May-97, Jun-97, Apr-98, May-98, Jun-98 to change quarterly values to monthly values. Revised Apr-97,Aug-97, Sep-97, Dec-97, Jan-99, Feb-99, Mar-99, to remove hours for on-line planned overhaul maintenance. Revised Apr-99 to correct typographical error. The color did not change.

3Q/99: On July 1999, number slightly refined based on engineering re-evaluation. No color change.

2Q/99: On April 1999 corrected typographical error. No color change.

1Q/99: On January, February, March 1999 removed hours for planned on-line overhaul maintenance. No color change.

1Q/99: On January, February, March 1999 removed hours for planned on-line overhaul maintenance. No color change.

2Q/98: Changed quarterly values to monthly values. No color change.

1Q/98: Changed quarterly values to monthly values. No color change.

4Q/97: On December 1997 removed hours for planned on-line overhaul maintenance. No color change.

3Q/97: On August and September 1997, removed hours for on-line planned overhaul maintenance. No color change.

2Q/97: Changed quarterly values to monthly values; Apr-97 removed hours for on-line planned overhaul maintenance. No color change.

4Q/96: Changed quarterly values to monthly values. No color change.

2Q/96: Changed quarterly values to monthly values. No color change.

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Safety System Functional Failures	0	1	2	0	0
Indicator value	**0**	**1**	**3**	**3**	**3**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum activity	0.000074	0.000085	0.000059	0.000039	0.000039	0.000054	0.000029	0.000030	0.000047	0.000039	0.000025	0.000040
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	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum leakage	2.570	2.630	2.800	2.970	2.870	2.860	2.700	2.900	3.340	3.730	4.040	4.830
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	**8.6**	**8.8**	**9.3**	**9.9**	**9.6**	**9.5**	**9.0**	**9.7**	**11.1**	**12.4**	**13.5**	**16.1**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful opportunities	9.0	8.0	52.0	0	4.0
Total opportunities	10.0	8.0	53.0	0	4.0
Indicator value			**98.3%**	**98.3%**	**98.3%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Participating Key personnel	33.0	37.0	36.0	36.0	38.0
Total Key personnel	37.0	37.0	37.0	37.0	40.0
Indicator value	**89.2%**	**100.0%**	**97.3%**	**97.3%**	**95.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful siren-tests	691	994	691	788	693
Total sirens-tests	700	1000	700	800	700
Indicator value	**98.8%**	**98.9%**	**98.9%**	**98.9%**	**98.9%**

Licensee Comments:

2Q/00:

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**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/99	3Q/99	4Q/99	1Q/00	2Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
IDS compensatory hours	15.25	185.80	0	0	34.54
CCTV compensatory hours	17.0	119.5	0	37.7	2.9
IDS normalization factor	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7
Index Value	**0.006**	**0.014**	**0.011**	**0.012**	**0.012**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Program failures	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Program Failures	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: April 1, 2002

Browns Ferry 2

3Q/2000 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned scrams	2.0	0	0	0	0
Critical hours	2155.9	2209.0	2184.0	2151.0	2189.0
Indicator value	**3.5**	**2.6**	**2.6**	**1.6**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Scrams	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**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/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned power changes	2.0	2.0	0	0	0
Critical hours	2155.9	2209.0	2184.0	2151.0	2189.0
Indicator value	**1.7**	**3.5**	**3.5**	**3.2**	**1.6**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	21.40	9.00	2.50	1.40	5.00
Unplanned unavailable hours	19.80	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	27.20	2.60	2.30	1.40	12.20
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 3					
Planned unavailable hours	24.70	9.90	2.40	2.00	14.70
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 4					
Planned unavailable hours	25.90	4.00	2.90	1.40	7.30
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 5					
Planned unavailable hours	1.50	6.50	2.70	2.20	11.29
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0

Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 6					
Planned unavailable hours	8.60	1.60	2.40	1.80	4.65
Unplanned unavailable hours	0	40.60	2.00	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 7					
Planned unavailable hours	51.80	1.00	2.30	2.40	6.05
Unplanned unavailable hours	9.50	54.20	65.40	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 8					
Planned unavailable hours	4.50	2.40	2.50	4.10	1.90
Unplanned unavailable hours	25.90	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	**0.9%**	**0.7%**	**0.7%**	**0.6%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	9.00	2.25	0	1.97	21.38
Unplanned unavailable hours	3.70	0.17	0	0	0
Fault exposure hours	65.30	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	**1.3%**	**1.3%**	**1.3%**	**1.0%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0.10	26.77	0.08	1.57	24.33
Unplanned unavailable hours	56.00	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	**1.4%**	**1.4%**	**1.4%**	**1.1%**	**1.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	12.09	0.53	9.23	23.05	15.07
Unplanned unavailable hours	6.16	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	0.70	9.32	27.87	16.76	11.10
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 3					
Planned unavailable hours	0.57	18.49	21.27	0.45	16.70
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 4					
Planned unavailable hours	0.70	7.55	27.87	0.30	11.10
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0

Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	**1.0%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**

Licensee Comments:

3Q/00: Revised the following Unplanned Unavailability to add a decimal point for greater precision: Train 1 Jul-99 from 6.2 to 6.16; Train 3 Jan-99 from 4.9 to 4.87; Train 4 Mar-98 from 9.2 to 9.22. No color change.

2Q/00: Revised Apr-96, May-96, Jun-96, Oct-96, Nov-96, Dec-96, Apr-97, May-97, Jun-97, Apr-98, May-98, Jun-98 to change quarterly values to monthly values. Revised Apr-97,Aug-97, Sep-97, Dec-97, Jan-99, Feb-99, Mar-99, to remove hours for on-line planned overhaul maintenance. Revised Apr-99 to correct typographical error. The color did not change.

3Q/99: On July 1999, number slightly refined based on engineering re-evaluation. No color change.

1Q/99: On January, February, March 1999 removed hours for planned on-line overhaul maintenance. No color change.

1Q/98: Changed quarterly values to monthly values. No color change.

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**3Q/99**	**4Q/99**	**1Q/00**	**2Q/00**	**3Q/00**
Safety System Functional Failures	1	2	0	0	0
Indicator value	**1**	**3**	**3**	**3**	**2**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.000039	0.000039	0.000054	0.000029	0.000030	0.000047	0.000039	0.000025	0.000040	0.000034	0.000038	0.000029
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	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	2.970	2.870	2.860	2.700	2.900	3.340	3.730	4.040	4.830	3.120	2.960	3.100
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	**9.9**	**9.6**	**9.5**	**9.0**	**9.7**	**11.1**	**12.4**	**13.5**	**16.1**	**10.4**	**9.9**	**10.3**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful opportunities	8.0	52.0	0	4.0	17.0
Total opportunities	8.0	53.0	0	4.0	18.0
Indicator value		**98.3%**	**98.3%**	**98.3%**	**97.7%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Participating Key personnel	37.0	36.0	36.0	38.0	41.0
Total Key personnel	37.0	37.0	37.0	40.0	41.0
Indicator value	**100.0%**	**97.3%**	**97.3%**	**95.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful siren-tests	994	691	788	693	791
Total sirens-tests	1000	700	800	700	800
Indicator value	**98.9%**	**98.9%**	**98.9%**	**98.9%**	**98.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**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/99	4Q/99	1Q/00	2Q/00	3Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
IDS compensatory hours	185.80	0	0	34.54	65.80
CCTV compensatory hours	119.5	0	37.7	2.9	26.6
IDS normalization factor	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7
Index Value	**0.014**	**0.011**	**0.012**	**0.012**	**0.005**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Program failures	0	0	0	0	1
Indicator value	**0**	**0**	**0**	**0**	**1**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Program Failures	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: March 29, 2002

Browns Ferry 2

4Q/2000 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	2209.0	2184.0	2151.0	2189.0	2209.0
Indicator value	**2.6**	**2.6**	**1.6**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Scrams	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned power changes	2.0	0	0	0	0
Critical hours	2209.0	2184.0	2151.0	2189.0	2209.0
Indicator value	**3.5**	**3.5**	**3.2**	**1.6**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	9.00	2.50	1.40	5.00	0.90
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2					
Planned unavailable hours	2.60	2.30	1.40	12.20	1.30
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 3					
Planned unavailable hours	9.90	2.40	2.00	14.70	1.20
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 4					
Planned unavailable hours	4.00	2.90	1.40	7.30	0.90
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 5					
Planned unavailable hours	6.50	2.70	2.20	11.29	1.20
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0

Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 6					
Planned unavailable hours	1.60	2.40	1.80	4.65	2.49
Unplanned unavailable hours	40.60	2.00	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 7					
Planned unavailable hours	1.00	2.30	2.40	6.05	1.18
Unplanned unavailable hours	54.20	65.40	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 8					
Planned unavailable hours	2.40	2.50	4.10	1.90	0.85
Unplanned unavailable hours	0	0	0	0	3.85
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	**0.7%**	**0.7%**	**0.6%**	**0.6%**	**0.6%**

Licensee Comments:

4Q/00: For Q2 1999, subtracted one hour from Hours Train Required for Service to adjust for Daylight Savings Time Change. No color change.

4Q/00: For Q2 1999, subtracted one hour from Hours Train Required for Service to adjust for Daylight Savings Time Change. No color change.

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	2.25	0	1.97	21.38	0
Unplanned unavailable hours	0.17	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	**1.3%**	**1.3%**	**1.0%**	**1.0%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	26.77	0.08	1.57	24.33	0.30
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	**1.4%**	**1.4%**	**1.1%**	**1.2%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	0.53	9.23	23.05	15.07	0.57
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2					
Planned unavailable hours	9.32	27.87	16.76	11.10	0.38
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 3					
Planned unavailable hours	18.49	21.27	0.45	16.70	0.57
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 4					
Planned unavailable hours	7.55	27.87	0.30	11.10	0.38
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**

Licensee Comments:

4Q/00: For April 2000, subtracted 1 hour from Hours Trained Required for Service to adjust for Daylight Savings Time change. No color change.

2Q/00: Revised Apr-96, May-96, Jun-96, Oct-96, Nov-96, Dec-96, Apr-97, May-97, Jun-97, Apr-98, May-98, Jun-98 to change quarterly values to monthly values. Revised Apr-97,Aug-97, Sep-97, Dec-97, Jan-99, Feb-99, Mar-99, to remove hours for on-line planned overhaul maintenance. Revised Apr-99 to correct typographical error. The color did not change.

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Safety System Functional Failures	2	0	0	0	0
Indicator value	**3**	**3**	**3**	**2**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity	0.000029	0.000030	0.000047	0.000039	0.000025	0.000040	0.000034	0.000038	0.000029	0.000026	0.000039	0.000028
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	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	2.700	2.900	3.340	3.730	4.040	4.830	3.120	2.960	3.100	2.960	3.120	3.870
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	**9.0**	**9.7**	**11.1**	**12.4**	**13.5**	**16.1**	**10.4**	**9.9**	**10.3**	**9.9**	**10.4**	**12.9**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful opportunities	52.0	0	4.0	17.0	34.0
Total opportunities	53.0	0	4.0	18.0	34.0
Indicator value	**98.3%**	**98.3%**	**98.3%**	**97.7%**	**97.8%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Participating Key personnel	36.0	36.0	38.0	41.0	37.0
Total Key personnel	37.0	37.0	40.0	41.0	37.0
Indicator value	**97.3%**	**97.3%**	**95.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful siren-tests	691	788	693	791	891
Total sirens-tests	700	800	700	800	900
Indicator value	**98.9%**	**98.9%**	**98.9%**	**98.8%**	**98.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
IDS compensatory hours	0	0	34.54	65.80	39.02
CCTV compensatory hours	0	37.7	2.9	26.6	27.4
IDS normalization factor	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7
Index Value	**0.011**	**0.012**	**0.012**	**0.005**	**0.007**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Program failures	0	0	0	1	0
Indicator value	**0**	**0**	**0**	**1**	**1**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Program Failures	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Last Modified: March 28, 2002

Browns Ferry 2

1Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	0	0	0	0	0
Critical hours	2209.0	2184.0	2151.0	2189.0	2209.0	1833.0
Indicator value	**2.6**	**2.6**	**1.6**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Scrams	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned power changes	2.0	0	0	0	0	0
Critical hours	2209.0	2184.0	2151.0	2189.0	2209.0	1833.0
Indicator value	**3.5**	**3.5**	**3.2**	**1.6**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	9.00	2.50	1.40	5.00	0.90	1.08
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	2.60	2.30	1.40	12.20	1.30	0.81
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 3						
Planned unavailable hours	9.90	2.40	2.00	14.70	1.20	1.78
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 4						
Planned unavailable hours	4.00	2.90	1.40	7.30	0.90	0.73
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 5						
Planned unavailable hours	6.50	2.70	2.20	11.29	1.20	1.01
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0

Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 6						
Planned unavailable hours	1.60	2.40	1.80	4.65	2.49	0.92
Unplanned unavailable hours	40.60	2.00	0	0	0	8.91
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 7						
Planned unavailable hours	1.00	2.30	2.40	6.05	1.18	0.95
Unplanned unavailable hours	54.20	65.40	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 8						
Planned unavailable hours	2.40	2.50	4.10	1.90	0.85	0.99
Unplanned unavailable hours	0	0	0	0	3.85	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.7%**	**0.7%**	**0.6%**	**0.6%**	**0.6%**	**0.5%**

Licensee Comments:

4Q/00: For Q2 1999, subtracted one hour from Hours Train Required for Service to adjust for Daylight Savings Time Change. No color change.

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	2.25	0	1.97	21.38	0	63.93
Unplanned unavailable hours	0.17	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1837.40
Indicator value	**1.3%**	**1.3%**	**1.0%**	**1.0%**	**0.8%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	26.77	0.08	1.57	24.33	0.30	23.88
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1837.40
Indicator value	**1.4%**	**1.4%**	**1.1%**	**1.2%**	**1.0%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0.53	9.23	23.05	15.07	0.57	7.48
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1935.00
Train 2						
Planned unavailable hours	9.32	27.87	16.76	11.10	0.38	14.93
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1935.00
Train 3						
Planned unavailable hours	18.49	21.27	0.45	16.70	0.57	7.48
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1935.00
Train 4						
Planned unavailable hours	7.55	27.87	0.30	11.10	0.38	10.40
Unplanned unavailable hours	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1935.00
Indicator value	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**0.9%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**4Q/99**	**1Q/00**	**2Q/00**	**3Q/00**	**4Q/00**	**1Q/01**
Safety System Functional Failures	2	0	0	0	0	0
Indicator value	**3**	**3**	**3**	**2**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.000039	0.000039	0.000054	0.000029	0.000030	0.000047	0.000039	0.000025	0.000040	0.000034	0.000038	0.000029
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	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.000026	0.000039	0.000028	0.000033	0.000028	0.000037
Technical specification limit	3.2	3.2	3.2	3.2	3.2	3.2
Indicator value	**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	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	2.970	2.870	2.860	2.700	2.900	3.340	3.730	4.040	4.830	3.120	2.960	3.100
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	**9.9**	**9.6**	**9.5**	**9.0**	**9.7**	**11.1**	**12.4**	**13.5**	**16.1**	**10.4**	**9.9**	**10.3**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	2.960	3.120	3.870	3.750	3.620	3.430
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	**9.9**	**10.4**	**12.9**	**12.5**	**12.1**	**11.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful opportunities	52.0	0	4.0	17.0	34.0	2.0
Total opportunities	53.0	0	4.0	18.0	34.0	2.0
Indicator value	**98.3%**	**98.3%**	**98.3%**	**97.7%**	**97.8%**	**97.7%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Participating Key personnel	36.0	36.0	38.0	41.0	37.0	38.0
Total Key personnel	37.0	37.0	40.0	41.0	37.0	38.0
Indicator value	**97.3%**	**97.3%**	**95.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful siren-tests	691	788	693	791	891	794
Total sirens-tests	700	800	700	800	900	800
Indicator value	**98.9%**	**98.9%**	**98.9%**	**98.8%**	**98.8%**	**99.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
High radiation area occurrences	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0
Indicator value	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
RETS/ODCM occurrences	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
IDS compensatory hours	0	0	34.54	65.80	39.02	84.11
CCTV compensatory hours	0	37.7	2.9	26.6	27.4	0
IDS normalization factor	1.95	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7	1.7
Index Value	**0.011**	**0.012**	**0.012**	**0.005**	**0.007**	**0.008**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Program failures	0	0	0	1	0	0
Indicator value	**0**	**0**	**0**	**1**	**1**	**1**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Program Failures	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Action Matrix Summary | Reactor Oversight Process

Last Modified: March 28, 2002

Browns Ferry 2

2Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned scrams	0	0	0	0	0	0	0
Critical hours	2209.0	2184.0	2151.0	2189.0	2209.0	1833.0	1665.8
Indicator value	**2.6**	**2.6**	**1.6**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Scrams	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned power changes	2.0	0	0	0	0	0	0
Critical hours	2209.0	2184.0	2151.0	2189.0	2209.0	1833.0	1665.8
Indicator value	**3.5**	**3.5**	**3.2**	**1.6**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	9.00	2.50	1.40	5.00	0.90	1.08	0.81
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	2.60	2.30	1.40	12.20	1.30	0.81	1.11
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 3							
Planned unavailable hours	9.90	2.40	2.00	14.70	1.20	1.78	0.75
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 4							
Planned unavailable hours	4.00	2.90	1.40	7.30	0.90	0.73	1.27
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 5							
Planned unavailable hours	6.50	2.70	2.20	11.29	1.20	1.01	0.83
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0

Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 6							
Planned unavailable hours	1.60	2.40	1.80	4.65	2.49	0.92	0.72
Unplanned unavailable hours	40.60	2.00	0	0	0	8.91	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 7							
Planned unavailable hours	1.00	2.30	2.40	6.05	1.18	0.95	1.64
Unplanned unavailable hours	54.20	65.40	0	0	0	0	13.32
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 8							
Planned unavailable hours	2.40	2.50	4.10	1.90	0.85	0.99	1.02
Unplanned unavailable hours	0	0	0	0	3.85	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.7%**	**0.7%**	**0.6%**	**0.6%**	**0.6%**	**0.5%**	**0.5%**

Licensee Comments:

2Q/01: Revised to increase precision to two decimals; Sep-00 3B&3C; Oct-00 3A&3C; Nov-00 3B&3C; Dec-00 3A&3B&3C. No color change.

4Q/00: For Q2 1999, subtracted one hour from Hours Train Required for Service to adjust for Daylight Savings Time Change. No color change.

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	2.25	0	1.97	21.38	0	63.93	2.65
Unplanned unavailable hours	0.17	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1837.40	1657.97
Indicator value	**1.3%**	**1.3%**	**1.0%**	**1.0%**	**0.8%**	**0.8%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	26.77	0.08	1.57	24.33	0.30	23.88	0.28
Unplanned unavailable hours	0	0	0	0	0	0	12.23
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1837.40	1657.97
Indicator value	**1.4%**	**1.4%**	**1.1%**	**1.2%**	**1.0%**	**1.1%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0.53	9.23	23.05	15.07	0.57	7.48	3.10
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1935.00	1932.00
Train 2							
Planned unavailable hours	9.32	27.87	16.76	11.10	0.38	14.93	71.94
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1935.00	1670.00
Train 3							
Planned unavailable hours	18.49	21.27	0.45	16.70	0.57	7.48	3.10
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1935.00	1932.00
Train 4							
Planned unavailable hours	7.55	27.87	0.30	11.10	0.38	10.40	3.45
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1935.00	1670.00
Indicator value	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**0.9%**	**0.9%**

Licensee Comments:

2Q/01: March 2001 Hours Required for Service changed form 543 to 519 due to Engineering re-evaluation. No color change.

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Safety System Functional Failures	2	0	0	0	0	0	0
Indicator value	**3**	**3**	**3**	**2**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.000039	0.000039	0.000054	0.000029	0.000030	0.000047	0.000039	0.000025	0.000040	0.000034	0.000038	0.000029
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	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.000026	0.000039	0.000028	0.000033	0.000028	0.000037	0	0.000024	0.000021
Technical specification limit	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**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	2.970	2.870	2.860	2.700	2.900	3.340	3.730	4.040	4.830	3.120	2.960	3.100
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	**9.9**	**9.6**	**9.5**	**9.0**	**9.7**	**11.1**	**12.4**	**13.5**	**16.1**	**10.4**	**9.9**	**10.3**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	2.960	3.120	3.870	3.750	3.620	3.430	3.160	3.260	3.380
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	**9.9**	**10.4**	**12.9**	**12.5**	**12.1**	**11.4**	**10.5**	**10.9**	**11.3**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful opportunities	52.0	0	4.0	17.0	34.0	2.0	16.0
Total opportunities	53.0	0	4.0	18.0	34.0	2.0	16.0
Indicator value	**98.3%**	**98.3%**	**98.3%**	**97.7%**	**97.8%**	**97.7%**	**98.5%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Participating Key personnel	36.0	36.0	38.0	41.0	37.0	38.0	38.0
Total Key personnel	37.0	37.0	40.0	41.0	37.0	38.0	38.0
Indicator value	**97.3%**	**97.3%**	**95.0%**	**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/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful siren-tests	691	788	693	791	891	794	796
Total sirens-tests	700	800	700	800	900	800	800
Indicator value	**98.9%**	**98.9%**	**98.9%**	**98.8%**	**98.8%**	**99.0%**	**99.2%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
High radiation area occurrences	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0
Indicator value	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
RETS/ODCM occurrences	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
IDS compensatory hours	0	0	34.54	65.80	39.02	84.11	84.04
CCTV compensatory hours	0	37.7	2.9	26.6	27.4	0	0
IDS normalization factor	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Index Value	**0.011**	**0.012**	**0.012**	**0.005**	**0.007**	**0.008**	**0.010**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Program failures	0	0	0	1	0	0	0
Indicator value	**0**	**0**	**0**	**1**	**1**	**1**	**1**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Program Failures	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Action Matrix Summary | Reactor Oversight Process

Last Modified: March 27, 2002

Browns Ferry 2

3Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2209.0	2184.0	2151.0	2189.0	2209.0	1833.0	1665.8	2175.9
Indicator value	**2.6**	**2.6**	**1.6**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Scrams	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned power changes	2.0	0	0	0	0	0	0	0
Critical hours	2209.0	2184.0	2151.0	2189.0	2209.0	1833.0	1665.8	2175.9
Indicator value	**3.5**	**3.5**	**3.2**	**1.6**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	9.00	2.50	1.40	5.00	0.90	1.08	0.81	1.12
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	2.60	2.30	1.40	12.20	1.30	0.81	1.11	0.72
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	9.90	2.40	2.00	14.70	1.20	1.78	0.75	1.07
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	37.17
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 4								
Planned unavailable hours	4.00	2.90	1.40	7.30	0.90	0.73	1.27	1.15
Unplanned unavailable hours	0	0	0	0	0	0	0	12.38
Fault exposure hours	0	0	0	0	0	0	0	37.17
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 5								
Planned unavailable hours	6.50	2.70	2.20	11.29	1.20	1.01	0.83	7.51
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0

Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 6								
Planned unavailable hours	1.60	2.40	1.80	4.65	2.49	0.92	0.72	1.34
Unplanned unavailable hours	40.60	2.00	0	0	0	8.91	0	8.42
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 7								
Planned unavailable hours	1.00	2.30	2.40	6.05	1.18	0.95	1.64	0.94
Unplanned unavailable hours	54.20	65.40	0	0	0	0	13.32	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 8								
Planned unavailable hours	2.40	2.50	4.10	1.90	0.85	0.99	1.02	1.29
Unplanned unavailable hours	0	0	0	0	3.85	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.7%**	**0.7%**	**0.6%**	**0.6%**	**0.6%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	2.25	0	1.97	21.38	0	63.93	2.65	0
Unplanned unavailable hours	0.17	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1837.40	1657.97	2208.00
Indicator value	**1.3%**	**1.3%**	**1.0%**	**1.0%**	**0.8%**	**0.8%**	**0.9%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	26.77	0.08	1.57	24.33	0.30	23.88	0.28	0.23
Unplanned unavailable hours	0	0	0	0	0	0	12.23	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1837.40	1657.97	2208.00
Indicator value	**1.4%**	**1.4%**	**1.1%**	**1.2%**	**1.0%**	**1.1%**	**1.1%**	**1.1%**

Licensee Comments:

3Q/01: Revised June 2001 from 0 to 0.15 due to engineering re-evaluation. No color change.

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	0.53	9.23	23.05	15.07	0.57	7.48	3.10	0.70
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1935.00	1932.00	2208.00
Train 2								
Planned unavailable hours	9.32	27.87	16.76	11.10	0.38	14.93	71.94	0.37
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1935.00	1670.00	2208.00
Train 3								
Planned unavailable hours	18.49	21.27	0.45	16.70	0.57	7.48	3.10	0.70
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1935.00	1932.00	2208.00
Train 4								
Planned unavailable hours	7.55	27.87	0.30	11.10	0.38	10.40	3.45	0.37

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1935.00	1670.00	2208.00
Indicator value	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**0.9%**	**0.9%**	**0.8%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**4Q/99**	**1Q/00**	**2Q/00**	**3Q/00**	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**
Safety System Functional Failures	2	0	0	0	0	0	0	0
Indicator value	**3**	**3**	**3**	**2**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.000039	0.000039	0.000054	0.000029	0.000030	0.000047	0.000039	0.000025	0.000040	0.000034	0.000038	0.000029
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	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	0.000026	0.000039	0.000028	0.000033	0.000028	0.000037	0	0.000024	0.000021	0.000011	0.000014	0.000010
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	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	2.970	2.870	2.860	2.700	2.900	3.340	3.730	4.040	4.830	3.120	2.960	3.100
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	**9.9**	**9.6**	**9.5**	**9.0**	**9.7**	**11.1**	**12.4**	**13.5**	**16.1**	**10.4**	**9.9**	**10.3**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	2.960	3.120	3.870	3.750	3.620	3.430	3.160	3.260	3.380	3.740	4.460	4.740
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	**9.9**	**10.4**	**12.9**	**12.5**	**12.1**	**11.4**	**10.5**	**10.9**	**11.3**	**12.5**	**14.9**	**15.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful opportunities	52.0	0	4.0	17.0	34.0	2.0	16.0	8.0
Total opportunities	53.0	0	4.0	18.0	34.0	2.0	16.0	8.0
Indicator value	**98.3%**	**98.3%**	**98.3%**	**97.7%**	**97.8%**	**97.7%**	**98.5%**	**98.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Participating Key personnel	36.0	36.0	38.0	41.0	37.0	38.0	38.0	39.0
Total Key personnel	37.0	37.0	40.0	41.0	37.0	38.0	38.0	39.0
Indicator value	**97.3%**	**97.3%**	**95.0%**	**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/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful siren-tests	691	788	693	791	891	794	796	790
Total sirens-tests	700	800	700	800	900	800	800	800
Indicator value	**98.9%**	**98.9%**	**98.9%**	**98.8%**	**98.8%**	**99.0%**	**99.2%**	**99.1%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
IDS compensatory hours	0	0	34.54	65.80	39.02	84.11	84.04	15.18
CCTV compensatory hours	0	37.7	2.9	26.6	27.4	0	0	29.9
IDS normalization factor	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Index Value	**0.011**	**0.012**	**0.012**	**0.005**	**0.007**	**0.008**	**0.010**	**0.008**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Program failures	0	0	0	1	0	0	0	0
Indicator value	**0**	**0**	**0**	**1**	**1**	**1**	**1**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Action Matrix Summary | Reactor Oversight Process

Last Modified: March 26, 2002

Browns Ferry 2

4Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2184.0	2151.0	2189.0	2209.0	1833.0	1665.8	2175.9	2124.7
Indicator value	**2.6**	**1.6**	**0**	**0**	**0**	**0**	**0.9**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Scrams	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**0**	**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	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	2151.0	2189.0	2209.0	1833.0	1665.8	2175.9	2124.7
Indicator value	**3.5**	**3.2**	**1.6**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	2.50	1.40	5.00	0.90	1.08	0.81	1.12	0.77
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	2.30	1.40	12.20	1.30	0.81	1.11	0.72	4.80
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	2.40	2.00	14.70	1.20	1.78	0.75	1.07	0.83
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	37.17	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	2.90	1.40	7.30	0.90	0.73	1.27	1.15	0.67
Unplanned unavailable hours	0	0	0	0	0	0	12.38	0
Fault exposure hours	0	0	0	0	0	0	37.17	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 5								
Planned unavailable hours	2.70	2.20	11.29	1.20	1.01	0.83	7.51	1.54
Unplanned unavailable hours	0	0	0	0	0	0	0	4.90
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 6								
Planned unavailable hours	2.40	1.80	4.65	2.49	0.92	0.72	1.34	1.34
Unplanned unavailable hours	2.00	0	0	0	8.91	0	8.42	0
Fault exposure hours	0	0	0	0	0	0	0	0

Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 7								
Planned unavailable hours	2.30	2.40	6.05	1.18	0.95	1.64	0.94	1.15
Unplanned unavailable hours	65.40	0	0	0	0	13.32	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 8								
Planned unavailable hours	2.50	4.10	1.90	0.85	0.99	1.02	1.29	14.32
Unplanned unavailable hours	0	0	0	3.85	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.7%**	**0.6%**	**0.6%**	**0.6%**	**0.5%**	**0.5%**	**0.5%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	0	1.97	21.38	0	63.93	2.65	0	35.20
Unplanned unavailable hours	0	0	0	0	0	0	0	12.27
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	1837.40	1657.97	2208.00	2133.80
Indicator value	**1.3%**	**1.0%**	**1.0%**	**0.8%**	**0.8%**	**0.9%**	**0.8%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	0.08	1.57	24.33	0.30	23.88	0.28	0.23	0.22
Unplanned unavailable hours	0	0	0	0	0	12.23	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	1837.40	1657.97	2208.00	2133.80
Indicator value	**1.4%**	**1.1%**	**1.2%**	**1.0%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	9.23	23.05	15.07	0.57	7.48	3.10	0.70	0.35
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	1935.00	1932.00	2208.00	2209.00
Train 2								
Planned unavailable hours	27.87	16.76	11.10	0.38	14.93	71.94	0.37	0.48
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	1935.00	1670.00	2208.00	2209.00
Train 3								
Planned unavailable hours	21.27	0.45	16.70	0.57	7.48	3.10	0.70	0.35
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	1935.00	1932.00	2208.00	2209.00
Train 4								
Planned unavailable hours	27.87	0.30	11.10	0.38	10.40	3.45	0.37	0.48
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	1935.00	1670.00	2208.00	2209.00
Indicator value	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**0.9%**	**0.9%**	**0.8%**	**0.8%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**3**	**3**	**2**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity	0.000029	0.000030	0.000047	0.000039	0.000025	0.000040	0.000034	0.000038	0.000029	0.000026	0.000039	0.000028
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	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.000033	0.000028	0.000037	0	0.000024	0.000021	0.000011	0.000014	0.000010	0.000010	0.000020	0.000010
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	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	2.700	2.900	3.340	3.730	4.040	4.830	3.120	2.960	3.100	2.960	3.120	3.870
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	**9.0**	**9.7**	**11.1**	**12.4**	**13.5**	**16.1**	**10.4**	**9.9**	**10.3**	**9.9**	**10.4**	**12.9**

Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	3.750	3.620	3.430	3.160	3.260	3.380	3.740	4.460	4.740	5.260	6.350	6.410
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	**12.5**	**12.1**	**11.4**	**10.5**	**10.9**	**11.3**	**12.5**	**14.9**	**15.8**	**17.5**	**21.2**	**21.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful opportunities	0	4.0	17.0	34.0	2.0	16.0	8.0	75.0
Total opportunities	0	4.0	18.0	34.0	2.0	16.0	8.0	76.0
Indicator value	**98.3%**	**98.3%**	**97.7%**	**97.8%**	**97.7%**	**98.5%**	**98.5%**	**98.7%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Participating Key personnel	36.0	38.0	41.0	37.0	38.0	38.0	39.0	48.0
Total Key personnel	37.0	40.0	41.0	37.0	38.0	38.0	39.0	49.0
Indicator value	**97.3%**	**95.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful siren-tests	788	693	791	891	794	796	790	996
Total sirens-tests	800	700	800	900	800	800	800	1000
Indicator value	**98.9%**	**98.9%**	**98.8%**	**98.8%**	**99.0%**	**99.2%**	**99.1%**	**99.3%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
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	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
IDS compensatory hours	0	34.54	65.80	39.02	84.11	84.04	15.18	56.71
CCTV compensatory hours	37.7	2.9	26.6	27.4	0	0	29.9	0.4
IDS normalization factor	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Index Value	**0.012**	**0.012**	**0.005**	**0.007**	**0.008**	**0.010**	**0.008**	**0.008**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Program failures	0	0	1	0	0	0	0	0
Indicator value	**0**	**0**	**1**	**1**	**1**	**1**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Action Matrix Summary | Reactor Oversight Process

Last Modified: March 15, 2002

Browns Ferry 2

1Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2151.0	2189.0	2209.0	1833.0	1665.8	2175.9	2124.7	2160.0
Indicator value	**1.6**	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**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	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2151.0	2189.0	2209.0	1833.0	1665.8	2175.9	2124.7	2160.0
Indicator value	**3.2**	**1.6**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	1.40	5.00	0.90	1.08	0.81	1.12	0.77	2.42
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	1.40	12.20	1.30	0.81	1.11	0.72	4.80	2.26
Unplanned unavailable hours	0	0	0	0	0	0	0	0.05
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	2.00	14.70	1.20	1.78	0.75	1.07	0.83	2.08
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	37.17	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 4								
Planned unavailable hours	1.40	7.30	0.90	0.73	1.27	1.15	0.67	2.41
Unplanned unavailable hours	0	0	0	0	0	12.38	0	0
Fault exposure hours	0	0	0	0	0	37.17	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 5								
Planned unavailable hours	2.20	11.29	1.20	1.01	0.83	7.51	1.54	1.82
Unplanned unavailable hours	0	0	0	0	0	0	4.90	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 6								

Planned unavailable hours	1.80	4.65	2.49	0.92	0.72	1.34	1.34	1.92
Unplanned unavailable hours	0	0	0	8.91	0	8.42	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 7								
Planned unavailable hours	2.40	6.05	1.18	0.95	1.64	0.94	1.15	10.07
Unplanned unavailable hours	0	0	0	0	13.32	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 8								
Planned unavailable hours	4.10	1.90	0.85	0.99	1.02	1.29	14.32	2.45
Unplanned unavailable hours	0	0	3.85	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.6%**	**0.6%**	**0.6%**	**0.5%**	**0.5%**	**0.5%**	**0.4%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	1.97	21.38	0	63.93	2.65	0	35.20	0
Unplanned unavailable hours	0	0	0	0	0	0	12.27	0
Fault exposure hours	0	0	0	0	0	0	0	0

Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1837.40	1657.97	2208.00	2133.80	2160.00
Indicator value	**1.0%**	**1.0%**	**0.8%**	**0.8%**	**0.9%**	**0.8%**	**1.0%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	**2Q/00**	**3Q/00**	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**
Train 1								
Planned unavailable hours	1.57	24.33	0.30	23.88	0.28	0.23	0.22	0.32
Unplanned unavailable hours	0	0	0	0	12.23	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1837.40	1657.97	2208.00	2133.80	2160.00
Indicator value	**1.1%**	**1.2%**	**1.0%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	23.05	15.07	0.57	7.48	3.10	0.70	0.35	0.97
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1935.00	1932.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	16.76	11.10	0.38	14.93	71.94	0.37	0.48	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1935.00	1670.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	0.45	16.70	0.57	7.48	3.10	0.70	0.35	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1935.00	1932.00	2208.00	2209.00	2160.00
Train 4								
Planned unavailable hours	0.30	11.10	0.38	10.40	3.45	0.37	0.48	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1935.00	1670.00	2208.00	2209.00	2160.00
Indicator value	**1.1%**	**1.1%**	**0.9%**	**0.9%**	**0.9%**	**0.8%**	**0.8%**	**0.6%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**3**	**2**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.000039	0.000025	0.000040	0.000034	0.000038	0.000029	0.000026	0.000039	0.000028	0.000033	0.000028	0.000037
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	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0	0.000024	0.000021	0.000011	0.000014	0.000010	0.000010	0.000020	0.000010	0.000009	0.000012	0.000022
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	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	3.730	4.040	4.830	3.120	2.960	3.100	2.960	3.120	3.870	3.750	3.620	3.430
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	**12.4**	**13.5**	**16.1**	**10.4**	**9.9**	**10.3**	**9.9**	**10.4**	**12.9**	**12.5**	**12.1**	**11.4**

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	3.160	3.260	3.380	3.740	4.460	4.740	5.260	6.350	6.410	1.990	1.940	1.950
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	**10.5**	**10.9**	**11.3**	**12.5**	**14.9**	**15.8**	**17.5**	**21.2**	**21.4**	**6.6**	**6.5**	**6.5**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful opportunities	4.0	17.0	34.0	2.0	16.0	8.0	75.0	2.0
Total opportunities	4.0	18.0	34.0	2.0	16.0	8.0	76.0	2.0
Indicator value	**98.3%**	**97.7%**	**97.8%**	**97.7%**	**98.5%**	**98.5%**	**98.7%**	**98.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	38.0	41.0	37.0	38.0	38.0	39.0	48.0	48.0
Total Key personnel	40.0	41.0	37.0	38.0	38.0	39.0	49.0	48.0
Indicator value	**95.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful siren-tests	693	791	891	794	796	790	996	595
Total sirens-tests	700	800	900	800	800	800	1000	600
Indicator value	**98.9%**	**98.8%**	**98.8%**	**99.0%**	**99.2%**	**99.1%**	**99.3%**	**99.3%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
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/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
IDS compensatory hours	34.54	65.80	39.02	84.11	84.04	15.18	56.71	2.25
CCTV compensatory hours	2.9	26.6	27.4	0	0	29.9	0.4	0
IDS normalization factor	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Index Value	**0.012**	**0.005**	**0.007**	**0.008**	**0.010**	**0.008**	**0.008**	**0.006**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Program failures	0	1	0	0	0	0	0	0
Indicator value	**0**	**1**	**1**	**1**	**1**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: May 1, 2002

Browns Ferry 2

2Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2189.0	2209.0	1833.0	1665.8	2175.9	2124.7	2160.0	2001.7
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2189.0	2209.0	1833.0	1665.8	2175.9	2124.7	2160.0	2001.7
Indicator value	**1.6**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	5.00	0.90	1.08	0.81	1.12	0.77	2.42	0.85
Unplanned unavailable hours	0	0	0	0	0	0	0	43.40
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	12.20	1.30	0.81	1.11	0.72	4.80	2.26	0.74
Unplanned unavailable hours	0	0	0	0	0	0	0.05	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 3								
Planned unavailable hours	14.70	1.20	1.78	0.75	1.07	0.83	2.08	1.37
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	37.17	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 4								
Planned unavailable hours	7.30	0.90	0.73	1.27	1.15	0.67	2.41	1.51
Unplanned unavailable hours	0	0	0	0	12.38	0	0	40.22
Fault exposure hours	0	0	0	0	37.17	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00

Train 5								
Planned unavailable hours	11.29	1.20	1.01	0.83	7.51	1.54	1.82	15.76
Unplanned unavailable hours	0	0	0	0	0	4.90	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 6								
Planned unavailable hours	4.65	2.49	0.92	0.72	1.34	1.34	1.92	1.46
Unplanned unavailable hours	0	0	8.91	0	8.42	0	0	1.25
Fault exposure hours	0	0	0	0	0	0	0	334.42
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 7								
Planned unavailable hours	6.05	1.18	0.95	1.64	0.94	1.15	10.07	41.16
Unplanned unavailable hours	0	0	0	13.32	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 8								
Planned unavailable hours	1.90	0.85	0.99	1.02	1.29	14.32	2.45	1.57
Unplanned unavailable hours	0	3.85	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.6%**	**0.6%**	**0.5%**	**0.5%**	**0.5%**	**0.4%**	**0.4%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	21.38	0	63.93	2.65	0	35.20	0	0
Unplanned unavailable hours	0	0	0	0	0	12.27	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1837.40	1657.97	2208.00	2133.80	2160.00	1997.50
Indicator value	**1.0%**	**0.8%**	**0.8%**	**0.9%**	**0.8%**	**1.0%**	**0.9%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	24.33	0.30	23.88	0.28	0.23	0.22	0.32	12.09
Unplanned unavailable hours	0	0	0	12.23	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1837.40	1657.97	2208.00	2133.80	2160.00	1997.50
Indicator value	**1.2%**	**1.0%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**0.6%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	15.07	0.57	7.48	3.10	0.70	0.35	0.97	0
Unplanned unavailable hours	0	0	0	0	0	0	0	36.32
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1935.00	1932.00	2208.00	2209.00	2160.00	2117.30
Train 2								
Planned unavailable hours	11.10	0.38	14.93	71.94	0.37	0.48	0	13.48
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1935.00	1670.00	2208.00	2209.00	2160.00	2117.30
Train 3								
Planned unavailable hours	16.70	0.57	7.48	3.10	0.70	0.35	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1935.00	1932.00	2208.00	2209.00	2160.00	2117.30
Train 4								
Planned unavailable hours	11.10	0.38	10.40	3.45	0.37	0.48	0	13.48
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1935.00	1670.00	2208.00	2209.00	2160.00	2117.30

Indicator value	**1.1%**	**0.9%**	**0.9%**	**0.9%**	**0.8%**	**0.8%**	**0.6%**	**0.4%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**3Q/00**	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.000034	0.000038	0.000029	0.000026	0.000039	0.000028	0.000033	0.000028	0.000037	0	0.000024	0.000021
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	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum activity	0.000011	0.000014	0.000010	0.000010	0.000020	0.000010	0.000009	0.000012	0.000022	0.000527	0.000017	0.000014
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	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	3.120	2.960	3.100	2.960	3.120	3.870	3.750	3.620	3.430	3.160	3.260	3.380
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	**10.4**	**9.9**	**10.3**	**9.9**	**10.4**	**12.9**	**12.5**	**12.1**	**11.4**	**10.5**	**10.9**	**11.3**

Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	3.740	4.460	4.740	5.260	6.350	6.410	1.990	1.940	1.950	1.970	2.410	2.140
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	**12.5**	**14.9**	**15.8**	**17.5**	**21.2**	**21.4**	**6.6**	**6.5**	**6.5**	**6.6**	**8.0**	**7.1**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful opportunities	17.0	34.0	2.0	16.0	8.0	75.0	2.0	6.0
Total opportunities	18.0	34.0	2.0	16.0	8.0	76.0	2.0	6.0
Indicator value	**97.7%**	**97.8%**	**97.7%**	**98.5%**	**98.5%**	**98.7%**	**98.8%**	**98.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Participating Key personnel	41.0	37.0	38.0	38.0	39.0	48.0	48.0	48.0
Total Key personnel	41.0	37.0	38.0	38.0	39.0	49.0	48.0	48.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful siren-tests	791	891	794	796	790	996	595	794
Total sirens-tests	800	900	800	800	800	1000	600	800
Indicator value	**98.8%**	**98.8%**	**99.0%**	**99.2%**	**99.1%**	**99.3%**	**99.3%**	**99.2%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
IDS compensatory hours	65.80	39.02	84.11	84.04	15.18	56.71	2.25	18.60
CCTV compensatory hours	26.6	27.4	0	0	29.9	0.4	0	8.6
IDS normalization factor	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Index Value	**0.005**	**0.007**	**0.008**	**0.010**	**0.008**	**0.008**	**0.006**	**0.004**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Program failures	1	0	0	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: July 31, 2002

Browns Ferry 2

3Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned scrams	0	0	0	1.0	0	0	0	1.0
Critical hours	2209.0	1833.0	1665.8	2175.9	2124.7	2160.0	2001.7	2155.2
Indicator value	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**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	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	1833.0	1665.8	2175.9	2124.7	2160.0	2001.7	2155.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0.90	1.08	0.81	1.12	0.77	2.42	0.85	1.78
Unplanned unavailable hours	0	0	0	0	0	0	43.40	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	1.30	0.81	1.11	0.72	4.80	2.26	0.74	2.14
Unplanned unavailable hours	0	0	0	0	0	0.05	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	1.20	1.78	0.75	1.07	0.83	2.08	1.37	0.53
Unplanned unavailable hours	0	0	0	0	0	0	0	1.65
Fault exposure hours	0	0	0	37.17	0	0	0	349.15
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 4								
Planned unavailable hours	0.90	0.73	1.27	1.15	0.67	2.41	1.51	0.83
Unplanned unavailable hours	0	0	0	12.38	0	0	40.22	5.98
Fault exposure hours	0	0	0	37.17	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 5								
Planned unavailable hours	1.20	1.01	0.83	7.51	1.54	1.82	15.76	1.23
Unplanned unavailable hours	0	0	0	0	4.90	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0

Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 6								
Planned unavailable hours	2.49	0.92	0.72	1.34	1.34	1.92	1.46	1.33
Unplanned unavailable hours	0	8.91	0	8.42	0	0	1.25	0
Fault exposure hours	0	0	0	0	0	0	334.42	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 7								
Planned unavailable hours	1.18	0.95	1.64	0.94	1.15	10.07	41.16	1.27
Unplanned unavailable hours	0	0	13.32	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 8								
Planned unavailable hours	0.85	0.99	1.02	1.29	14.32	2.45	1.57	1.13
Unplanned unavailable hours	3.85	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.6%**	**0.5%**	**0.5%**	**0.5%**	**0.4%**	**0.4%**	**0.6%**	**0.7%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	63.93	2.65	0	35.20	0	0	0
Unplanned unavailable hours	0	0	0	0	12.27	0	0	7.90
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1837.40	1657.97	2208.00	2133.80	2160.00	1997.50	2208.00
Indicator value	**0.8%**	**0.8%**	**0.9%**	**0.8%**	**1.0%**	**0.9%**	**0.9%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0.30	23.88	0.28	0.23	0.22	0.32	12.09	0.30
Unplanned unavailable hours	0	0	12.23	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1837.40	1657.97	2208.00	2133.80	2160.00	1997.50	2208.00
Indicator value	**1.0%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**0.6%**	**0.6%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0.57	7.48	3.10	0.70	0.35	0.97	0	50.40
Unplanned unavailable hours	0	0	0	0	0	0	36.32	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1935.00	1932.00	2208.00	2209.00	2160.00	2117.30	2208.00
Train 2								
Planned unavailable hours	0.38	14.93	71.94	0.37	0.48	0	13.48	8.98
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1935.00	1670.00	2208.00	2209.00	2160.00	2117.30	2208.00
Train 3								
Planned unavailable hours	0.57	7.48	3.10	0.70	0.35	0	0	26.86
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1935.00	1932.00	2208.00	2209.00	2160.00	2117.30	2208.00
Train 4								
Planned unavailable hours	0.38	10.40	3.45	0.37	0.48	0	13.48	8.98
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2209.00	1935.00	1670.00	2208.00	2209.00	2160.00	2117.30	2208.00
Indicator value	**0.9%**	**0.9%**	**0.9%**	**0.8%**	**0.8%**	**0.6%**	**0.4%**	**0.5%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**
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

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	0.000026	0.000039	0.000028	0.000033	0.000028	0.000037	0	0.000024	0.000021	0.000011	0.000014	0.000010
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	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum activity	0.000010	0.000020	0.000010	0.000009	0.000012	0.000022	0.000527	0.000017	0.000014	0.000085	0.000034	0.000020
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	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	2.960	3.120	3.870	3.750	3.620	3.430	3.160	3.260	3.380	3.740	4.460	4.740
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	**9.9**	**10.4**	**12.9**	**12.5**	**12.1**	**11.4**	**10.5**	**10.9**	**11.3**	**12.5**	**14.9**	**15.8**

Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	5.260	6.350	6.410	1.990	1.940	1.950	1.970	2.410	2.140	2.100	2.290	2.060
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	**17.5**	**21.2**	**21.4**	**6.6**	**6.5**	**6.5**	**6.6**	**8.0**	**7.1**	**7.0**	**7.6**	**6.9**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful opportunities	34.0	2.0	16.0	8.0	75.0	2.0	6.0	10.0
Total opportunities	34.0	2.0	16.0	8.0	76.0	2.0	6.0	10.0
Indicator value	**97.8%**	**97.7%**	**98.5%**	**98.5%**	**98.7%**	**98.8%**	**98.8%**	**99.4%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Participating Key personnel	37.0	38.0	38.0	39.0	48.0	48.0	48.0	49.0
Total Key personnel	37.0	38.0	38.0	39.0	49.0	48.0	48.0	49.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful siren-tests	891	794	796	790	996	595	794	793
Total sirens-tests	900	800	800	800	1000	600	800	800
Indicator value	**98.8%**	**99.0%**	**99.2%**	**99.1%**	**99.3%**	**99.3%**	**99.2%**	**99.3%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
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	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
IDS compensatory hours	39.02	84.11	84.04	15.18	56.71	2.25	18.60	7.02
CCTV compensatory hours	27.4	0	0	29.9	0.4	0	8.6	6.9
IDS normalization factor	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Index Value	**0.007**	**0.008**	**0.010**	**0.008**	**0.008**	**0.006**	**0.004**	**0.003**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Program failures	0	0	0	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: October 22, 2002

Browns Ferry 2

4Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned scrams	0	0	1.0	0	0	0	1.0	0
Critical hours	1833.0	1665.8	2175.9	2124.7	2160.0	2001.7	2155.2	1981.0
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0.8**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned power changes	0	0	0	0	0	0	0	2.0
Critical hours	1833.0	1665.8	2175.9	2124.7	2160.0	2001.7	2155.2	1981.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1.7**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	1.08	0.81	1.12	0.77	2.42	0.85	1.78	0.95
Unplanned unavailable hours	0	0	0	0	0	43.40	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.81	1.11	0.72	4.80	2.26	0.74	2.14	0.71
Unplanned unavailable hours	0	0	0	0	0.05	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	1.78	0.75	1.07	0.83	2.08	1.37	0.53	1.20
Unplanned unavailable hours	0	0	0	0	0	0	1.65	0
Fault exposure hours	0	0	37.17	0	0	0	349.15	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	0.73	1.27	1.15	0.67	2.41	1.51	0.83	1.02
Unplanned unavailable hours	0	0	12.38	0	0	40.22	5.98	0
Fault exposure hours	0	0	37.17	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 5								
Planned unavailable hours	1.01	0.83	7.51	1.54	1.82	15.76	1.23	1.73
Unplanned unavailable hours	0	0	0	4.90	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 6								
Planned unavailable hours	0.92	0.72	1.34	1.34	1.92	1.46	1.33	1.95
Unplanned unavailable hours	8.91	0	8.42	0	0	1.25	0	0
Fault exposure hours	0	0	0	0	0	334.42	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 7								
Planned unavailable hours	0.95	1.64	0.94	1.15	10.07	41.16	1.27	8.05
Unplanned unavailable hours	0	13.32	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 8								
Planned unavailable hours	0.99	1.02	1.29	14.32	2.45	1.57	1.13	0.98
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.4%**	**0.4%**	**0.6%**	**0.7%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02

Train 1								
Planned unavailable hours	63.93	2.65	0	35.20	0	0	0	0
Unplanned unavailable hours	0	0	0	12.27	0	0	7.90	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1837.40	1657.97	2208.00	2133.80	2160.00	1997.50	2208.00	1981.60
Indicator value	**0.8%**	**0.9%**	**0.8%**	**1.0%**	**0.9%**	**0.9%**	**0.6%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**
Train 1								
Planned unavailable hours	23.88	0.28	0.23	0.22	0.32	12.09	0.30	144.65
Unplanned unavailable hours	0	12.23	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1837.40	1657.97	2208.00	2133.80	2160.00	1997.50	2208.00	1981.60
Indicator value	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**0.6%**	**0.6%**	**0.4%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	7.48	3.10	0.70	0.35	0.97	0	50.40	0.83
Unplanned unavailable hours	0	0	0	0	0	36.32	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1935.00	1932.00	2208.00	2209.00	2160.00	2117.30	2208.00	2016.80
Train 2								
Planned unavailable hours	14.93	71.94	0.37	0.48	0	13.48	8.98	0.37
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1935.00	1670.00	2208.00	2209.00	2160.00	2117.30	2208.00	2209.00
Train 3								
Planned unavailable hours	7.48	3.10	0.70	0.35	0	0	26.86	3.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1935.00	1932.00	2208.00	2209.00	2160.00	2117.30	2208.00	2016.80
Train 4								
Planned unavailable hours	10.40	3.45	0.37	0.48	0	13.48	8.98	41.95
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1935.00	1670.00	2208.00	2209.00	2160.00	2117.30	2208.00	2209.00
Indicator value	**0.9%**	**0.9%**	**0.8%**	**0.8%**	**0.6%**	**0.4%**	**0.5%**	**0.5%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
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

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.000033	0.000028	0.000037	0	0.000024	0.000021	0.000011	0.000014	0.000010	0.000010	0.000020	0.000010
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	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum activity	0.000009	0.000012	0.000022	0.000527	0.000017	0.000014	0.000085	0.000034	0.000020	0.000045	0.001870	0.001015
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**	**0.1**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	3.750	3.620	3.430	3.160	3.260	3.380	3.740	4.460	4.740	5.260	6.350	6.410
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	**12.5**	**12.1**	**11.4**	**10.5**	**10.9**	**11.3**	**12.5**	**14.9**	**15.8**	**17.5**	**21.2**	**21.4**

Reactor Coolant System Leakage	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	1.990	1.940	1.950	1.970	2.410	2.140	2.100	2.290	2.060	2.080	1.870	2.970
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	**6.6**	**6.5**	**6.5**	**6.6**	**8.0**	**7.1**	**7.0**	**7.6**	**6.9**	**6.9**	**6.2**	**9.9**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful opportunities	2.0	16.0	8.0	75.0	2.0	6.0	10.0	62.0
Total opportunities	2.0	16.0	8.0	76.0	2.0	6.0	10.0	63.0
Indicator value	**97.7%**	**98.5%**	**98.5%**	**98.7%**	**98.8%**	**98.8%**	**99.4%**	**98.9%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Participating Key personnel	38.0	38.0	39.0	48.0	48.0	48.0	49.0	47.0
Total Key personnel	38.0	38.0	39.0	49.0	48.0	48.0	49.0	48.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**98.0%**	**100.0%**	**100.0%**	**100.0%**	**97.9%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful siren-tests	794	796	790	996	595	794	793	1083
Total sirens-tests	800	800	800	1000	600	800	800	1100
Indicator value	**99.0%**	**99.2%**	**99.1%**	**99.3%**	**99.3%**	**99.2%**	**99.3%**	**98.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
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	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
IDS compensatory hours	84.11	84.04	15.18	56.71	2.25	18.60	7.02	180.60
CCTV compensatory hours	0	0	29.9	0.4	0	8.6	6.9	0
IDS normalization factor	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Index Value	**0.008**	**0.010**	**0.008**	**0.008**	**0.006**	**0.004**	**0.003**	**0.007**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Program failures	0	0	0	0	0	0	0	0
Indicator value	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: January 30, 2003

Browns Ferry 2

1Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned scrams	0	1.0	0	0	0	1.0	0	1.0
Critical hours	1665.8	2175.9	2124.7	2160.0	2001.7	2155.2	1981.0	1703.3
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0.8**	**0.8**	**1.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned power changes	0	0	0	0	0	0	2.0	1.0
Critical hours	1665.8	2175.9	2124.7	2160.0	2001.7	2155.2	1981.0	1703.3
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1.7**	**2.7**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0.81	1.12	0.77	2.42	0.85	1.78	0.95	1.52
Unplanned unavailable hours	0	0	0	0	43.40	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	1.11	0.72	4.80	2.26	0.74	2.14	0.71	5.29
Unplanned unavailable hours	0	0	0	0.05	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	0.75	1.07	0.83	2.08	1.37	0.53	1.20	82.33
Unplanned unavailable hours	0	0	0	0	0	1.65	0	0
Fault exposure hours	0	37.17	0	0	0	349.15	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 4								
Planned unavailable hours	1.27	1.15	0.67	2.41	1.51	6.81	1.02	14.89
Unplanned unavailable hours	0	12.38	0	0	40.22	0	0	0
Fault exposure hours	0	37.17	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00

Train 5								
Planned unavailable hours	0.83	7.51	1.54	1.82	15.76	1.23	1.73	6.16
Unplanned unavailable hours	0	0	4.90	0	0	0	0	27.68
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 6								
Planned unavailable hours	0.72	1.34	1.34	1.92	1.46	1.33	1.95	4.89
Unplanned unavailable hours	0	8.42	0	0	1.25	0	0	0
Fault exposure hours	0	0	0	0	334.42	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 7								
Planned unavailable hours	1.64	0.94	1.15	10.07	41.16	1.27	8.05	1.55
Unplanned unavailable hours	13.32	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 8								
Planned unavailable hours	1.02	1.29	14.32	2.45	1.57	1.13	0.98	14.01
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.5%**	**0.5%**	**0.4%**	**0.4%**	**0.6%**	**0.7%**	**0.6%**	**0.6%**

Licensee Comments:

1Q/03: Sys Engr changed 5.98 hours of unplanned unavailability on the "D" diesel generator in Sept 02 to planned. This work was on the lube oil pump coupling. The total for planned for Sept 02 will be 0.25 + 5.98 = 6.23.

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**
Train 1								
Planned unavailable hours	2.65	0	35.20	0	0	0	0	184.85
Unplanned unavailable hours	0	0	12.27	0	0	7.90	0	19.13
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1657.97	2208.00	2133.80	2160.00	1997.50	2208.00	1981.60	1580.52
Indicator value	**0.9%**	**0.8%**	**1.0%**	**0.9%**	**0.9%**	**0.6%**	**0.6%**	**1.4%**

Licensee Comments:

1Q/03: T/2 Fault Exposure is 411.2 hours due to failure of the U2 HPCI speed sensor pin connector.

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0.28	0.23	0.22	0.32	12.09	0.30	144.65	0.62
Unplanned unavailable hours	12.23	0	0	0	0	0	0	28.97
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1657.97	2208.00	2133.80	2160.00	1997.50	2208.00	1981.60	1580.52
Indicator value	**1.1%**	**1.1%**	**0.9%**	**0.6%**	**0.6%**	**0.4%**	**0.9%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	3.10	0.70	0.35	0.97	0	50.40	0.83	4.60
Unplanned unavailable hours	0	0	0	0	36.32	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1932.00	2208.00	2209.00	2160.00	2117.30	2208.00	2016.80	1816.30
Train 2								
Planned unavailable hours	71.94	0.37	0.48	0	13.48	8.98	0.37	74.32
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1670.00	2208.00	2209.00	2160.00	2117.30	2208.00	2209.00	1673.40
Train 3								
Planned unavailable hours	3.10	0.70	0.35	0	0	26.86	3.30	4.60
Unplanned unavailable hours	0	0	0	0	0	0	0	31.97
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1932.00	2208.00	2209.00	2160.00	2117.30	2208.00	2016.80	1816.30
Train 4								
Planned unavailable hours	3.45	0.37	0.48	0	13.48	8.98	41.95	7.49
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1670.00	2208.00	2209.00	2160.00	2117.30	2208.00	2209.00	1673.40

Indicator value	**0.9%**	**0.8%**	**0.8%**	**0.6%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**
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

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0	0.000024	0.000021	0.000011	0.000014	0.000010	0.000010	0.000020	0.000010	0.000009	0.000012	0.000022
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	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum activity	0.000527	0.000017	0.000014	0.000085	0.000034	0.000020	0.000045	0.001870	0.001015	0.001060	0.000990	N/A
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**	**0.1**	**0**	**0**	**0**	**N/A**

Licensee Comments:

3/03: Mar-03 = NA due to U2C12 Refueling Outage.

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	3.160	3.260	3.380	3.740	4.460	4.740	5.260	6.350	6.410	1.990	1.940	1.950
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	**10.5**	**10.9**	**11.3**	**12.5**	**14.9**	**15.8**	**17.5**	**21.2**	**21.4**	**6.6**	**6.5**	**6.5**

Reactor Coolant System Leakage	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	1.970	2.410	2.140	2.100	2.290	2.060	2.080	1.870	2.970	1.870	2.050	2.100
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	**6.6**	**8.0**	**7.1**	**7.0**	**7.6**	**6.9**	**6.9**	**6.2**	**9.9**	**6.2**	**6.8**	**7.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful opportunities	16.0	8.0	75.0	2.0	6.0	10.0	62.0	12.0
Total opportunities	16.0	8.0	76.0	2.0	6.0	10.0	63.0	12.0
Indicator value	**98.5%**	**98.5%**	**98.7%**	**98.8%**	**98.8%**	**99.4%**	**98.9%**	**99.0%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Participating Key personnel	38.0	39.0	48.0	48.0	48.0	49.0	47.0	46.0
Total Key personnel	38.0	39.0	49.0	48.0	48.0	49.0	48.0	47.0
Indicator value	**100.0%**	**100.0%**	**98.0%**	**100.0%**	**100.0%**	**100.0%**	**97.9%**	**97.9%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful siren-tests	796	790	996	595	794	793	1083	593
Total sirens-tests	800	800	1000	600	800	800	1100	600
Indicator value	**99.2%**	**99.1%**	**99.3%**	**99.3%**	**99.2%**	**99.3%**	**98.9%**	**98.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
IDS compensatory hours	84.04	15.18	56.71	2.25	18.60	7.02	180.60	20.08
CCTV compensatory hours	0	29.9	0.4	0	8.6	6.9	0	14.9
IDS normalization factor	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Index Value	**0.010**	**0.008**	**0.008**	**0.006**	**0.004**	**0.003**	**0.007**	**0.008**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Program failures	0	0	0	0	0	0	0	0
Indicator value	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: April 22, 2003

Browns Ferry 2

2Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned scrams	1.0	0	0	0	1.0	0	1.0	0
Critical hours	2175.9	2124.7	2160.0	2001.7	2155.2	1981.0	1703.3	2183.0
Indicator value	**0.9**	**0.9**	**0.9**	**0.8**	**0.8**	**0.8**	**1.8**	**1.7**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned power changes	0	0	0	0	0	2.0	1.0	0
Critical hours	2175.9	2124.7	2160.0	2001.7	2155.2	1981.0	1703.3	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**1.7**	**2.7**	**2.6**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	1.12	0.77	2.42	0.85	1.78	0.95	1.52	47.44
Unplanned unavailable hours	0	0	0	43.40	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	0.72	4.80	2.26	0.74	2.14	0.71	5.29	12.80
Unplanned unavailable hours	0	0	0.05	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 3								
Planned unavailable hours	1.07	0.83	2.08	1.37	0.53	1.20	82.33	7.52
Unplanned unavailable hours	0	0	0	0	1.65	0	0	0
Fault exposure hours	37.17	0	0	0	349.15	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 4								
Planned unavailable hours	1.15	0.67	2.41	1.51	6.81	1.02	14.89	59.27
Unplanned unavailable hours	12.38	0	0	40.22	0	0	0	0
Fault exposure hours	37.17	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00

Train 5								
Planned unavailable hours	7.51	1.54	1.82	15.76	1.23	1.73	6.16	9.28
Unplanned unavailable hours	0	4.90	0	0	0	0	27.68	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 6								
Planned unavailable hours	1.34	1.34	1.92	1.46	1.33	1.95	4.89	1.56
Unplanned unavailable hours	8.42	0	0	1.25	0	0	0	0
Fault exposure hours	0	0	0	334.42	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 7								
Planned unavailable hours	0.94	1.15	10.07	41.16	1.27	8.05	1.55	37.81
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 8								
Planned unavailable hours	1.29	14.32	2.45	1.57	1.13	0.98	14.01	10.89
Unplanned unavailable hours	0	0	0	0	0	0	0	34.08
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.5%**	**0.4%**	**0.4%**	**0.6%**	**0.7%**	**0.6%**	**0.6%**	**0.7%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**
Train 1								
Planned unavailable hours	0	35.20	0	0	0	0	184.85	3.90
Unplanned unavailable hours	0	12.27	0	0	7.90	0	19.13	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2133.80	2160.00	1997.50	2208.00	1981.60	1580.52	2183.00
Indicator value	**0.8%**	**1.0%**	**0.9%**	**0.9%**	**0.6%**	**0.6%**	**1.4%**	**1.4%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0.23	0.22	0.32	12.09	0.30	144.65	0.62	4.34
Unplanned unavailable hours	0	0	0	0	0	0	28.97	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2133.80	2160.00	1997.50	2208.00	1981.60	1580.52	2183.00
Indicator value	**1.1%**	**0.9%**	**0.6%**	**0.6%**	**0.4%**	**0.9%**	**1.0%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0.70	0.35	0.97	0	50.40	0.83	4.60	11.34
Unplanned unavailable hours	0	0	0	36.32	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2117.30	2208.00	2016.80	1816.30	2183.00
Train 2								
Planned unavailable hours	0.37	0.48	0	13.48	8.98	0.37	74.32	2.75
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2117.30	2208.00	2209.00	1673.40	2183.00
Train 3								
Planned unavailable hours	0.70	0.35	0	0	26.86	3.30	4.60	1.12
Unplanned unavailable hours	0	0	0	0	0	0	31.97	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2117.30	2208.00	2016.80	1816.30	2183.00
Train 4								
Planned unavailable hours	0.37	0.48	0	13.48	8.98	41.95	7.49	2.75
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2117.30	2208.00	2209.00	1673.40	2183.00

Indicator value	**0.8%**	**0.8%**	**0.6%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**
Safety System Functional Failures	0	0	0	0	0	0	0	1
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum activity	0.000011	0.000014	0.000010	0.000010	0.000020	0.000010	0.000009	0.000012	0.000022	0.000527	0.000017	0.000014
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	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum activity	0.000085	0.000034	0.000020	0.000045	0.001870	0.001015	0.001060	0.000990	N/A	0.000622	0.000153	0.000109
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**	**0.1**	**0**	**0**	**0**	**N/A**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	3.740	4.460	4.740	5.260	6.350	6.410	1.990	1.940	1.950	1.970	2.410	2.140
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	**12.5**	**14.9**	**15.8**	**17.5**	**21.2**	**21.4**	**6.6**	**6.5**	**6.5**	**6.6**	**8.0**	**7.1**

Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	2.100	2.290	2.060	2.080	1.870	2.970	1.870	2.050	2.100	2.200	3.090	3.110
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	**7.0**	**7.6**	**6.9**	**6.9**	**6.2**	**9.9**	**6.2**	**6.8**	**7.0**	**7.3**	**10.3**	**10.4**

Licensee Comments: none

Notes

Drill/Exercise Performance	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful opportunities	8.0	75.0	2.0	6.0	10.0	62.0	12.0	12.0
Total opportunities	8.0	76.0	2.0	6.0	10.0	63.0	12.0	12.0
Indicator value	**98.5%**	**98.7%**	**98.8%**	**98.8%**	**99.4%**	**98.9%**	**99.0%**	**98.9%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Participating Key personnel	39.0	48.0	48.0	48.0	49.0	47.0	46.0	47.0
Total Key personnel	39.0	49.0	48.0	48.0	49.0	48.0	47.0	48.0
Indicator value	**100.0%**	**98.0%**	**100.0%**	**100.0%**	**100.0%**	**97.9%**	**97.9%**	**97.9%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful siren-tests	790	996	595	794	793	1083	593	995
Total sirens-tests	800	1000	600	800	800	1100	600	1000
Indicator value	**99.1%**	**99.3%**	**99.3%**	**99.2%**	**99.3%**	**98.9%**	**98.9%**	**99.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
IDS compensatory hours	15.18	56.71	2.25	18.60	7.02	180.60	20.08	5.36
CCTV compensatory hours	29.9	0.4	0	8.6	6.9	0	14.9	0.2
IDS normalization factor	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Index Value	**0.008**	**0.008**	**0.006**	**0.004**	**0.003**	**0.007**	**0.008**	**0.007**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: July 22, 2003

Browns Ferry 2

3Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned scrams	0	0	0	1.0	0	1.0	0	0
Critical hours	2124.7	2160.0	2001.7	2155.2	1981.0	1703.3	2183.0	2208.0
Indicator value	**0.9**	**0.9**	**0.8**	**0.8**	**0.8**	**1.8**	**1.7**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned power changes	0	0	0	0	2.0	1.0	0	2.0
Critical hours	2124.7	2160.0	2001.7	2155.2	1981.0	1703.3	2183.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**1.7**	**2.7**	**2.6**	**4.3**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0.77	2.42	0.85	1.78	0.95	1.52	47.44	38.97
Unplanned unavailable hours	0	0	43.40	0	0	0	0	35.57
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	4.80	2.26	0.74	2.14	0.71	5.29	12.80	39.40
Unplanned unavailable hours	0	0.05	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0.83	2.08	1.37	0.53	1.20	82.33	7.52	11.02
Unplanned unavailable hours	0	0	0	1.65	0	0	0	0
Fault exposure hours	0	0	0	349.15	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 4								
Planned unavailable hours	0.67	2.41	1.51	6.81	1.02	14.89	59.27	6.19
Unplanned unavailable hours	0	0	40.22	0	0	0	0	57.42
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00

Train 5								
Planned unavailable hours	1.54	1.82	15.76	1.23	1.73	6.16	9.28	1.07
Unplanned unavailable hours	4.90	0	0	0	0	27.68	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 6								
Planned unavailable hours	1.34	1.92	1.46	1.33	1.95	4.89	1.56	6.30
Unplanned unavailable hours	0	0	1.25	0	0	0	0	0
Fault exposure hours	0	0	334.42	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 7								
Planned unavailable hours	1.15	10.07	41.16	1.27	8.05	1.55	37.81	4.44
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 8								
Planned unavailable hours	14.32	2.45	1.57	1.13	0.98	14.01	10.89	3.86
Unplanned unavailable hours	0	0	0	0	0	0	34.08	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.4%**	**0.4%**	**0.6%**	**0.7%**	**0.6%**	**0.6%**	**0.7%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**
Train 1								
Planned unavailable hours	35.20	0	0	0	0	184.85	3.90	0
Unplanned unavailable hours	12.27	0	0	7.90	0	19.13	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2133.80	2160.00	1997.50	2208.00	1981.60	1580.52	2183.00	2208.00
Indicator value	**1.0%**	**0.9%**	**0.9%**	**0.6%**	**0.6%**	**1.4%**	**1.4%**	**1.4%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0.22	0.32	12.09	0.30	144.65	0.62	4.34	1.00
Unplanned unavailable hours	0	0	0	0	0	28.97	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2133.80	2160.00	1997.50	2208.00	1981.60	1580.52	2183.00	2208.00
Indicator value	**0.9%**	**0.6%**	**0.6%**	**0.4%**	**0.9%**	**1.0%**	**1.0%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0.35	0.97	0	50.40	0.83	4.60	11.34	0
Unplanned unavailable hours	0	0	36.32	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2117.30	2208.00	2016.80	1816.30	2183.00	2208.00
Train 2								
Planned unavailable hours	0.48	0	13.48	8.98	0.37	74.32	2.75	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2117.30	2208.00	2209.00	1673.40	2183.00	2208.00
Train 3								
Planned unavailable hours	0.35	0	0	26.86	3.30	4.60	1.12	0
Unplanned unavailable hours	0	0	0	0	0	31.97	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2117.30	2208.00	2016.80	1816.30	2183.00	2208.00
Train 4								
Planned unavailable hours	0.48	0	13.48	8.98	41.95	7.49	2.75	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2117.30	2208.00	2209.00	1673.40	2183.00	2208.00

Indicator value	**0.8%**	**0.6%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**
Safety System Functional Failures	0	0	0	0	0	0	1	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum activity	0.000010	0.000020	0.000010	0.000009	0.000012	0.000022	0.000527	0.000017	0.000014	0.000085	0.000034	0.000020
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	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum activity	0.000045	0.001870	0.001015	0.001060	0.000990	N/A	0.000622	0.000153	0.000109	0.000107	0.000109	0.000098
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**	**0.1**	**0**	**0**	**0**	**N/A**	**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	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	5.260	6.350	6.410	1.990	1.940	1.950	1.970	2.410	2.140	2.100	2.290	2.060
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	**17.5**	**21.2**	**21.4**	**6.6**	**6.5**	**6.5**	**6.6**	**8.0**	**7.1**	**7.0**	**7.6**	**6.9**

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	2.080	1.870	2.970	1.870	2.050	2.100	2.200	3.090	3.110	3.380	3.320	3.360
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	**6.9**	**6.2**	**9.9**	**6.2**	**6.8**	**7.0**	**7.3**	**10.3**	**10.4**	**11.3**	**11.1**	**11.2**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful opportunities	75.0	2.0	6.0	10.0	62.0	12.0	12.0	19.0
Total opportunities	76.0	2.0	6.0	10.0	63.0	12.0	12.0	20.0
Indicator value	**98.7%**	**98.8%**	**98.8%**	**99.4%**	**98.9%**	**99.0%**	**98.9%**	**98.5%**

Licensee Comments: none

Notes

ERO Drill Participation	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Participating Key personnel	48.0	48.0	48.0	49.0	47.0	46.0	47.0	49.0
Total Key personnel	49.0	48.0	48.0	49.0	48.0	47.0	48.0	49.0
Indicator value	**98.0%**	**100.0%**	**100.0%**	**100.0%**	**97.9%**	**97.9%**	**97.9%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful siren-tests	996	595	794	793	1083	593	995	594
Total sirens-tests	1000	600	800	800	1100	600	1000	600
Indicator value	**99.3%**	**99.3%**	**99.2%**	**99.3%**	**98.9%**	**98.9%**	**99.0%**	**98.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
IDS compensatory hours	56.71	2.25	18.60	7.02	180.60	20.08	5.36	57.39
CCTV compensatory hours	0.4	0	8.6	6.9	0	14.9	0.2	0.6
IDS normalization factor	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Index Value	**0.008**	**0.006**	**0.004**	**0.003**	**0.007**	**0.008**	**0.007**	**0.008**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: October 22, 2003

Browns Ferry 2

4Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned scrams	0	0	1.0	0	1.0	0	0	0
Critical hours	2160.0	2001.7	2155.2	1981.0	1703.3	2183.0	2208.0	1962.0
Indicator value	**0.9**	**0.8**	**0.8**	**0.8**	**1.8**	**1.7**	**0.9**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned power changes	0	0	0	2.0	1.0	0	2.0	0
Critical hours	2160.0	2001.7	2155.2	1981.0	1703.3	2183.0	2208.0	1962.0
Indicator value	**0**	**0**	**0**	**1.7**	**2.7**	**2.6**	**4.3**	**2.6**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	2.42	0.85	1.78	0.95	1.52	47.44	38.97	3.83
Unplanned unavailable hours	0	43.40	0	0	0	0	35.57	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	2.26	0.74	2.14	0.71	5.29	12.80	39.40	37.85
Unplanned unavailable hours	0.05	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	2.08	1.37	0.53	1.20	82.33	7.52	11.02	1.02
Unplanned unavailable hours	0	0	1.65	0	0	0	0	0
Fault exposure hours	0	0	349.15	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	2.41	1.51	6.81	1.02	14.89	59.27	6.19	22.61
Unplanned unavailable hours	0	40.22	0	0	0	0	57.42	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00

Train 5								
Planned unavailable hours	1.82	15.76	1.23	1.73	6.16	9.28	1.07	67.80
Unplanned unavailable hours	0	0	0	0	27.68	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 6								
Planned unavailable hours	1.92	1.46	1.33	1.95	4.89	1.56	6.30	2.09
Unplanned unavailable hours	0	1.25	0	0	0	0	0	0
Fault exposure hours	0	334.42	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 7								
Planned unavailable hours	10.07	41.16	1.27	8.05	1.55	37.81	4.44	2.02
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 8								
Planned unavailable hours	2.45	1.57	1.13	0.98	14.01	10.89	3.86	1.29
Unplanned unavailable hours	0	0	0	0	0	34.08	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.4%**	**0.6%**	**0.7%**	**0.6%**	**0.6%**	**0.7%**	**0.8%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**	**4Q/03**
Train 1								
Planned unavailable hours	0	0	0	0	184.85	3.90	0	0
Unplanned unavailable hours	0	0	7.90	0	19.13	0	0	11.69
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1997.50	2208.00	1981.60	1580.52	2183.00	2208.00	1942.05
Indicator value	**0.9%**	**0.9%**	**0.6%**	**0.6%**	**1.4%**	**1.4%**	**1.4%**	**1.4%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	0.32	12.09	0.30	144.65	0.62	4.34	1.00	8.35
Unplanned unavailable hours	0	0	0	0	28.97	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1997.50	2208.00	1981.60	1580.52	2183.00	2208.00	1942.05
Indicator value	**0.6%**	**0.6%**	**0.4%**	**0.9%**	**1.0%**	**1.0%**	**0.9%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	0.97	0	50.40	0.83	4.60	11.34	0	0
Unplanned unavailable hours	0	36.32	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2117.30	2208.00	2016.80	1816.30	2183.00	2208.00	1977.30
Train 2								
Planned unavailable hours	0	13.48	8.98	0.37	74.32	2.75	0	12.30
Unplanned unavailable hours	0	0	0	0	0	0	0	175.80
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2117.30	2208.00	2209.00	1673.40	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	26.86	3.30	4.60	1.12	0	9.15
Unplanned unavailable hours	0	0	0	0	31.97	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2117.30	2208.00	2016.80	1816.30	2183.00	2208.00	1977.30
Train 4								
Planned unavailable hours	0	13.48	8.98	41.95	7.49	2.75	0	71.25
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2117.30	2208.00	2209.00	1673.40	2183.00	2208.00	2209.00

Indicator value	**0.6%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.7%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**	**4Q/03**
Safety System Functional Failures	0	0	0	0	0	1	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**1**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/02**	**2/02**	**3/02**	**4/02**	**5/02**	**6/02**	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**
Maximum activity	0.000009	0.000012	0.000022	0.000527	0.000017	0.000014	0.000085	0.000034	0.000020	0.000045	0.001870	0.001015
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**	**0.1**	**0**

Reactor Coolant System Activity	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**
Maximum activity	0.001060	0.000990	N/A	0.000622	0.000153	0.000109	0.000107	0.000109	0.000098	0.000119	0.000134	0.000184
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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	1.990	1.940	1.950	1.970	2.410	2.140	2.100	2.290	2.060	2.080	1.870	2.970
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	**6.6**	**6.5**	**6.5**	**6.6**	**8.0**	**7.1**	**7.0**	**7.6**	**6.9**	**6.9**	**6.2**	**9.9**

Reactor Coolant System Leakage	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum leakage	1.870	2.050	2.100	2.200	3.090	3.110	3.380	3.320	3.360	3.340	1.780	1.750
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	**6.2**	**6.8**	**7.0**	**7.3**	**10.3**	**10.4**	**11.3**	**11.1**	**11.2**	**11.1**	**5.9**	**5.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful opportunities	2.0	6.0	10.0	62.0	12.0	12.0	19.0	51.0
Total opportunities	2.0	6.0	10.0	63.0	12.0	12.0	20.0	52.0
Indicator value	**98.8%**	**98.8%**	**99.4%**	**98.9%**	**99.0%**	**98.9%**	**98.5%**	**98.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Participating Key personnel	48.0	48.0	49.0	47.0	46.0	47.0	49.0	50.0
Total Key personnel	48.0	48.0	49.0	48.0	47.0	48.0	49.0	50.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**97.9%**	**97.9%**	**97.9%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful siren-tests	595	794	793	1083	593	995	594	1098
Total sirens-tests	600	800	800	1100	600	1000	600	1100
Indicator value	**99.3%**	**99.2%**	**99.3%**	**98.9%**	**98.9%**	**99.0%**	**98.9%**	**99.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
IDS compensatory hours	2.25	18.60	7.02	180.60	20.08	5.36	57.39	8.54
CCTV compensatory hours	0	8.6	6.9	0	14.9	0.2	0.6	0
IDS normalization factor	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Index Value	**0.006**	**0.004**	**0.003**	**0.007**	**0.008**	**0.007**	**0.008**	**0.003**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: January 23, 2004

Browns Ferry 2

1Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned scrams	0	1.0	0	1.0	0	0	0	0
Critical hours	2001.7	2155.2	1981.0	1703.3	2183.0	2208.0	1962.0	2184.0
Indicator value	**0.8**	**0.8**	**0.8**	**1.8**	**1.7**	**0.9**	**0.9**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**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	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned power changes	0	0	2.0	1.0	0	2.0	0	0
Critical hours	2001.7	2155.2	1981.0	1703.3	2183.0	2208.0	1962.0	2184.0
Indicator value	**0**	**0**	**1.7**	**2.7**	**2.6**	**4.3**	**2.6**	**1.6**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0.85	1.78	0.95	1.52	47.44	38.97	3.83	1.08
Unplanned unavailable hours	43.40	0	0	0	0	35.57	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	0.74	2.14	0.71	5.29	12.80	39.40	37.85	1.02
Unplanned unavailable hours	0	0	0	0	0	0	0	15.52
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Train 3								
Planned unavailable hours	1.37	0.53	1.20	82.33	7.52	11.02	1.02	0.99
Unplanned unavailable hours	0	1.65	0	0	0	0	0	0
Fault exposure hours	0	349.15	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Train 4								
Planned unavailable hours	1.51	6.81	1.02	14.89	59.27	6.19	22.61	50.82
Unplanned unavailable hours	40.22	0	0	0	0	57.42	0	4.55
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Train 5								
Planned unavailable hours	15.76	1.23	1.73	6.16	9.28	1.07	67.80	1.50
Unplanned unavailable hours	0	0	0	27.68	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00

Train 6								
Planned unavailable hours	1.46	1.33	1.95	4.89	1.56	6.30	2.09	58.30
Unplanned unavailable hours	1.25	0	0	0	0	0	0	0
Fault exposure hours	334.42	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Train 7								
Planned unavailable hours	41.16	1.27	8.05	1.55	37.81	4.44	2.02	1.85
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Train 8								
Planned unavailable hours	1.57	1.13	0.98	14.01	10.89	3.86	1.29	1.18
Unplanned unavailable hours	0	0	0	0	34.08	0	0	89.95
Fault exposure hours	0	0	0	0	0	0	0	378.67
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value	**0.6%**	**0.7%**	**0.6%**	**0.6%**	**0.7%**	**0.8%**	**0.9%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	0	0	184.85	3.90	0	0	0

Unplanned unavailable hours	0	7.90	0	19.13	0	0	11.69	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1997.50	2208.00	1981.60	1580.52	2183.00	2208.00	1942.05	2184.00
Indicator value	**0.9%**	**0.6%**	**0.6%**	**1.4%**	**1.4%**	**1.4%**	**1.4%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**	**4Q/03**	**1Q/04**
Train 1								
Planned unavailable hours	12.09	0.30	144.65	0.62	4.34	1.00	8.35	0
Unplanned unavailable hours	0	0	0	28.97	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1997.50	2208.00	1981.60	1580.52	2183.00	2208.00	1942.05	2184.00
Indicator value	**0.6%**	**0.4%**	**0.9%**	**1.0%**	**1.0%**	**0.9%**	**1.0%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	50.40	0.83	4.60	11.34	0	0	19.95
Unplanned unavailable hours	36.32	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2117.30	2208.00	2016.80	1816.30	2183.00	2208.00	1977.30	2184.00
Train 2								
Planned unavailable hours	13.48	8.98	0.37	74.32	2.75	0	12.30	39.10
Unplanned unavailable hours	0	0	0	0	0	0	175.80	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2117.30	2208.00	2209.00	1673.40	2183.00	2208.00	2209.00	2184.00
Train 3								
Planned unavailable hours	0	26.86	3.30	4.60	1.12	0	9.15	0
Unplanned unavailable hours	0	0	0	31.97	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2117.30	2208.00	2016.80	1816.30	2183.00	2208.00	1977.30	2184.00
Train 4								
Planned unavailable hours	13.48	8.98	41.95	7.49	2.75	0	71.25	10.63
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2117.30	2208.00	2209.00	1673.40	2183.00	2208.00	2209.00	2184.00
Indicator value	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.7%**	**0.8%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Safety System Functional Failures	0	0	0	0	1	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**1**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum activity	0.000527	0.000017	0.000014	0.000085	0.000034	0.000020	0.000045	0.001870	0.001015	0.001060	0.000990	N/A
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**	**0.1**	**0**	**0**	**0**	**N/A**

Reactor Coolant System Activity	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum activity	0.000622	0.000153	0.000109	0.000107	0.000109	0.000098	0.000119	0.000134	0.000184	0.000092	0.000200	0.000092
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	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	1.970	2.410	2.140	2.100	2.290	2.060	2.080	1.870	2.970	1.870	2.050	2.100
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	**6.6**	**8.0**	**7.1**	**7.0**	**7.6**	**6.9**	**6.9**	**6.2**	**9.9**	**6.2**	**6.8**	**7.0**

Reactor Coolant System Leakage	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum leakage	2.200	3.090	3.110	3.380	3.320	3.360	3.340	1.780	1.750	1.710	1.720	1.810
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	**7.3**	**10.3**	**10.4**	**11.3**	**11.1**	**11.2**	**11.1**	**5.9**	**5.8**	**5.7**	**5.7**	**6.0**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful opportunities	6.0	10.0	62.0	12.0	12.0	19.0	51.0	6.0
Total opportunities	6.0	10.0	63.0	12.0	12.0	20.0	52.0	6.0
Indicator value	**98.8%**	**99.4%**	**98.9%**	**99.0%**	**98.9%**	**98.5%**	**98.3%**	**98.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Participating Key personnel	48.0	49.0	47.0	46.0	47.0	49.0	50.0	47.0
Total Key personnel	48.0	49.0	48.0	47.0	48.0	49.0	50.0	48.0
Indicator value	**100.0%**	**100.0%**	**97.9%**	**97.9%**	**97.9%**	**100.0%**	**100.0%**	**97.9%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful siren-tests	794	793	1083	593	995	594	1098	596
Total sirens-tests	800	800	1100	600	1000	600	1100	600
Indicator value	**99.2%**	**99.3%**	**98.9%**	**98.9%**	**99.0%**	**98.9%**	**99.4%**	**99.5%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
High radiation area occurrences	0	0	0	0	0	0	0	1
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**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
IDS compensatory hours	18.60	7.02	180.60	20.08	5.36	57.39	8.54	17.02
CCTV compensatory hours	8.6	6.9	0	14.9	0.2	0.6	0	15.5
IDS normalization factor	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CCTV normalization factor	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Index Value	**0.004**	**0.003**	**0.007**	**0.008**	**0.007**	**0.008**	**0.003**	**0.003**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: April 22, 2004

Browns Ferry 2

2Q/2004 Performance Indicators

Licensee's General Comments: change made to March 2004 RHR 2B planned unavailibility

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned scrams	1.0	0	1.0	0	0	0	0	0
Critical hours	2155.2	1981.0	1703.3	2183.0	2208.0	1962.0	2184.0	2183.0
Indicator value	**0.8**	**0.8**	**1.8**	**1.7**	**0.9**	**0.9**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned power changes	0	2.0	1.0	0	2.0	0	0	0
Critical hours	2155.2	1981.0	1703.3	2183.0	2208.0	1962.0	2184.0	2183.0
Indicator value	**0**	**1.7**	**2.7**	**2.6**	**4.3**	**2.6**	**1.6**	**1.6**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	1.78	0.95	1.52	47.44	38.97	3.83	1.08	1.46
Unplanned unavailable hours	0	0	0	0	35.57	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00
Train 2								
Planned unavailable hours	2.14	0.71	5.29	12.80	39.40	37.85	1.02	0.81
Unplanned unavailable hours	0	0	0	0	0	0	15.52	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00
Train 3								
Planned unavailable hours	0.53	1.20	82.33	7.52	11.02	1.02	0.99	0.53
Unplanned unavailable hours	1.65	0	0	0	0	0	0	7.03
Fault exposure hours	349.15	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00
Train 4								
Planned unavailable hours	6.81	1.02	14.89	59.27	6.19	22.61	50.82	1.01
Unplanned unavailable hours	0	0	0	0	57.42	0	4.55	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00
Train 5								
Planned unavailable hours	1.23	1.73	6.16	9.28	1.07	67.80	1.50	0.93
Unplanned unavailable hours	0	0	27.68	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0

Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00
Train 6								
Planned unavailable hours	1.33	1.95	4.89	1.56	6.30	2.09	58.30	0.76
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00
Train 7								
Planned unavailable hours	1.27	8.05	1.55	37.81	4.44	2.02	1.85	2.32
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00
Train 8								
Planned unavailable hours	1.13	0.98	14.01	10.89	3.86	1.29	1.18	1.39
Unplanned unavailable hours	0	0	0	34.08	0	0	89.95	0
Fault exposure hours	0	0	0	0	0	0	378.67	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00
Indicator value	**0.7%**	**0.6%**	**0.6%**	**0.7%**	**0.8%**	**0.9%**	**1.1%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0	0	184.85	3.90	0	0	0	0
Unplanned unavailable hours	7.90	0	19.13	0	0	11.69	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1981.60	1580.52	2183.00	2208.00	1942.05	2184.00	2184.00
Indicator value	**0.6%**	**0.6%**	**1.4%**	**1.4%**	**1.4%**	**1.4%**	**1.1%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0.30	144.65	0.62	4.34	1.00	8.35	0	8.58
Unplanned unavailable hours	0	0	28.97	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1981.60	1580.52	2183.00	2208.00	1942.05	2184.00	2184.00
Indicator value	**0.4%**	**0.9%**	**1.0%**	**1.0%**	**0.9%**	**1.0%**	**0.9%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	50.40	0.83	4.60	11.34	0	0	19.95	8.39
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2016.80	1816.30	2183.00	2208.00	1977.30	2184.00	2183.00
Train 2								
Planned unavailable hours	8.98	0.37	74.32	2.75	0	12.30	97.10	16.43
Unplanned unavailable hours	0	0	0	0	0	175.80	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1673.40	2183.00	2208.00	2209.00	2184.00	2183.00
Train 3								
Planned unavailable hours	26.86	3.30	4.60	1.12	0	9.15	0	6.08
Unplanned unavailable hours	0	0	31.97	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2016.80	1816.30	2183.00	2208.00	1977.30	2184.00	2183.00
Train 4								
Planned unavailable hours	8.98	41.95	7.49	2.75	0	71.25	10.63	16.43
Unplanned unavailable hours	0	0	0	0	0	0	0	12.10
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1673.40	2183.00	2208.00	2209.00	2184.00	2183.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.7%**	**0.8%**	**0.8%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Safety System Functional Failures	0	0	0	1	0	0	0	0
Indicator value	**0**	**0**	**0**	**1**	**1**	**1**	**1**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum activity	0.000085	0.000034	0.000020	0.000045	0.001870	0.001015	0.001060	0.000990	N/A	0.000622	0.000153	0.000109
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**	**0.1**	**0**	**0**	**0**	**N/A**	**0**	**0**	**0**

Reactor Coolant System Activity	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum activity	0.000107	0.000109	0.000098	0.000119	0.000134	0.000184	0.000092	0.000200	0.000092	0.000114	0.000087	0.000114
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	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	2.100	2.290	2.060	2.080	1.870	2.970	1.870	2.050	2.100	2.200	3.090	3.110
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	**7.0**	**7.6**	**6.9**	**6.9**	**6.2**	**9.9**	**6.2**	**6.8**	**7.0**	**7.3**	**10.3**	**10.4**
Reactor Coolant System Leakage	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**
Maximum leakage	3.380	3.320	3.360	3.340	1.780	1.750	1.710	1.720	1.810	2.040	1.880	1.800
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	**11.3**	**11.1**	**11.2**	**11.1**	**5.9**	**5.8**	**5.7**	**5.7**	**6.0**	**6.8**	**6.3**	**6.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful opportunities	10.0	62.0	12.0	12.0	19.0	51.0	6.0	6.0
Total opportunities	10.0	63.0	12.0	12.0	20.0	52.0	6.0	6.0
Indicator value	**99.4%**	**98.9%**	**99.0%**	**98.9%**	**98.5%**	**98.3%**	**98.3%**	**98.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Participating Key personnel	49.0	47.0	46.0	47.0	49.0	50.0	47.0	51.0
Total Key personnel	49.0	48.0	47.0	48.0	49.0	50.0	48.0	53.0
Indicator value	**100.0%**	**97.9%**	**97.9%**	**97.9%**	**100.0%**	**100.0%**	**97.9%**	**96.2%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful siren-tests	793	1083	593	995	594	1098	596	883
Total sirens-tests	800	1100	600	1000	600	1100	600	900
Indicator value	**99.3%**	**98.9%**	**98.9%**	**99.0%**	**98.9%**	**99.4%**	**99.5%**	**99.1%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
High radiation area occurrences	0	0	0	0	0	0	1	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**	**1**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Browns Ferry 2

3Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned scrams	0	1.0	0	0	0	0	0	2.0
Critical hours	1981.0	1703.3	2183.0	2208.0	1962.0	2184.0	2183.0	2143.7
Indicator value	**0.8**	**1.8**	**1.7**	**0.9**	**0.9**	**0**	**0**	**1.7**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned power changes	2.0	1.0	0	2.0	0	0	0	0
Critical hours	1981.0	1703.3	2183.0	2208.0	1962.0	2184.0	2183.0	2143.7
Indicator value	**1.7**	**2.7**	**2.6**	**4.3**	**2.6**	**1.6**	**1.6**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	0.95	1.52	47.44	38.97	3.83	1.08	1.46	1.57
Unplanned unavailable hours	0	0	0	35.57	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
Train 2								
Planned unavailable hours	0.71	5.29	12.80	39.40	37.85	1.02	0.81	1.21
Unplanned unavailable hours	0	0	0	0	0	15.52	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
Train 3								
Planned unavailable hours	1.20	82.33	7.52	11.02	1.02	0.99	0.53	1.25
Unplanned unavailable hours	0	0	0	0	0	0	7.03	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
Train 4								
Planned unavailable hours	1.02	14.89	59.27	6.19	22.61	50.82	1.01	0.50
Unplanned unavailable hours	0	0	0	57.42	0	4.55	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
Train 5								
Planned unavailable hours	1.73	6.16	9.28	1.07	67.80	1.50	0.93	1.11
Unplanned unavailable hours	0	27.68	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
Train 6								
Planned unavailable hours	1.95	4.89	1.56	6.30	2.09	58.30	0.76	2.68
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
Train 7								
Planned unavailable hours	8.05	1.55	37.81	4.44	2.02	1.85	2.32	3.59
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
Train 8								
Planned unavailable hours	0.98	14.01	10.89	3.86	1.29	1.18	1.39	1.05
Unplanned unavailable hours	0	0	34.08	0	0	89.95	0	0
Fault exposure hours	0	0	0	0	0	378.67	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00
Indicator value	**0.6%**	**0.6%**	**0.7%**	**0.8%**	**0.9%**	**1.1%**	**1.1%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	0	184.85	3.90	0	0	0	0	0
Unplanned unavailable hours	0	19.13	0	0	11.69	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1981.60	1580.52	2183.00	2208.00	1942.05	2184.00	2184.00	2208.00
Indicator value	**0.6%**	**1.4%**	**1.4%**	**1.4%**	**1.4%**	**1.1%**	**1.1%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	144.65	0.62	4.34	1.00	8.35	0	8.58	0.33
Unplanned unavailable hours	0	28.97	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1981.60	1580.52	2183.00	2208.00	1942.05	2184.00	2184.00	2208.00
Indicator value	**0.9%**	**1.0%**	**1.0%**	**0.9%**	**1.0%**	**0.9%**	**0.8%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	0.83	4.60	11.34	0	0	19.95	8.39	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2016.80	1816.30	2183.00	2208.00	1977.30	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0.37	74.32	2.75	0	12.30	97.10	16.43	2.83
Unplanned unavailable hours	0	0	0	0	175.80	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1673.40	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Train 3								
Planned unavailable hours	3.30	4.60	1.12	0	9.15	0	6.08	0
Unplanned unavailable hours	0	31.97	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2016.80	1816.30	2183.00	2208.00	1977.30	2184.00	2183.00	2208.00
Train 4								
Planned unavailable hours	41.95	7.49	2.75	0	71.25	10.63	16.43	2.83
Unplanned unavailable hours	0	0	0	0	0	0	12.10	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2209.00	1673.40	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.7%**	**0.8%**	**0.8%**	**0.8%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**	**4Q/03**	**1Q/04**	**2Q/04**	**3Q/04**
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

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**
Maximum activity	0.000045	0.001870	0.001015	0.001060	0.000990	N/A	0.000622	0.000153	0.000109	0.000107	0.000109	0.000098
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**	**0.1**	**0**	**0**	**0**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**
Maximum activity	0.000119	0.000134	0.000184	0.000092	0.000200	0.000092	0.000114	0.000087	0.000114	0.000128	0.000081	0.000110
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	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**
Maximum leakage	2.080	1.870	2.970	1.870	2.050	2.100	2.200	3.090	3.110	3.380	3.320	3.360
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	**6.9**	**6.2**	**9.9**	**6.2**	**6.8**	**7.0**	**7.3**	**10.3**	**10.4**	**11.3**	**11.1**	**11.2**
Reactor Coolant System Leakage	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**
Maximum leakage	3.340	1.780	1.750	1.710	1.720	1.810	2.040	1.880	1.800	1.860	1.870	1.910
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	**11.1**	**5.9**	**5.8**	**5.7**	**5.7**	**6.0**	**6.8**	**6.3**	**6.0**	**6.2**	**6.2**	**6.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful opportunities	62.0	12.0	12.0	19.0	51.0	6.0	6.0	7.0
Total opportunities	63.0	12.0	12.0	20.0	52.0	6.0	6.0	7.0
Indicator value	**98.9%**	**99.0%**	**98.9%**	**98.5%**	**98.3%**	**98.3%**	**98.3%**	**98.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Participating Key personnel	47.0	46.0	47.0	49.0	50.0	47.0	51.0	48.0
Total Key personnel	48.0	47.0	48.0	49.0	50.0	48.0	53.0	50.0
Indicator value	**97.9%**	**97.9%**	**97.9%**	**100.0%**	**100.0%**	**97.9%**	**96.2%**	**96.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful siren-tests	1083	593	995	594	1098	596	883	694
Total sirens-tests	1100	600	1000	600	1100	600	900	700
Indicator value	**98.9%**	**98.9%**	**99.0%**	**98.9%**	**99.4%**	**99.5%**	**99.1%**	**99.1%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
High radiation area occurrences	0	0	0	0	0	1	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**	**1**	**1**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: October 25, 2004

Browns Ferry 2

4Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned scrams	1.0	0	0	0	0	0	2.0	0
Critical hours	1703.3	2183.0	2208.0	1962.0	2184.0	2183.0	2143.7	2209.0
Indicator value	**1.8**	**1.7**	**0.9**	**0.9**	**0**	**0**	**1.7**	**1.6**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned power changes	1.0	0	2.0	0	0	0	0	1.0
Critical hours	1703.3	2183.0	2208.0	1962.0	2184.0	2183.0	2143.7	2209.0
Indicator value	**2.7**	**2.6**	**4.3**	**2.6**	**1.6**	**1.6**	**0**	**0.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	1.52	47.44	38.97	3.83	1.08	1.46	1.57	13.01
Unplanned unavailable hours	0	0	35.57	0	0	0	0	6.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00
Train 2								
Planned unavailable hours	5.29	12.80	39.40	37.85	1.02	0.81	1.21	0.86
Unplanned unavailable hours	0	0	0	0	15.52	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00
Train 3								
Planned unavailable hours	82.33	7.52	11.02	1.02	0.99	0.53	1.25	1.23
Unplanned unavailable hours	0	0	0	0	0	7.03	0	13.33
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00
Train 4								
Planned unavailable hours	14.89	59.27	6.19	22.61	50.82	1.01	0.50	1.10
Unplanned unavailable hours	0	0	57.42	0	4.55	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00
Train 5								
Planned unavailable hours	6.16	9.28	1.07	67.80	1.50	0.93	1.11	1.87
Unplanned unavailable hours	27.68	0	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00
Train 6								
Planned unavailable hours	4.89	1.56	6.30	2.09	58.30	0.76	2.68	1.55
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00
Train 7								
Planned unavailable hours	1.55	37.81	4.44	2.02	1.85	2.32	3.59	10.61
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00
Train 8								
Planned unavailable hours	14.01	10.89	3.86	1.29	1.18	1.39	1.05	2.33
Unplanned unavailable hours	0	34.08	0	0	89.95	0	0	0
Fault exposure hours	0	0	0	0	378.67	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00
Indicator value	**0.6%**	**0.7%**	**0.8%**	**0.9%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	184.85	3.90	0	0	0	0	0	0
Unplanned unavailable hours	19.13	0	0	11.69	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1580.52	2183.00	2208.00	1942.05	2184.00	2184.00	2208.00	2208.00
Indicator value	**1.4%**	**1.4%**	**1.4%**	**1.4%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0.62	4.34	1.00	8.35	0	8.58	0.33	22.80
Unplanned unavailable hours	28.97	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1580.52	2183.00	2208.00	1942.05	2184.00	2184.00	2208.00	2208.00
Indicator value	**1.0%**	**1.0%**	**0.9%**	**1.0%**	**0.9%**	**0.8%**	**0.8%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	4.60	11.34	0	0	19.95	8.39	0	20.00
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1816.30	2183.00	2208.00	1977.30	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	74.32	2.75	0	12.30	97.10	16.43	2.83	7.57
Unplanned unavailable hours	0	0	0	175.80	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1673.40	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	4.60	1.12	0	9.15	0	6.08	0	53.35
Unplanned unavailable hours	31.97	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1816.30	2183.00	2208.00	1977.30	2184.00	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	7.49	2.75	0	71.25	10.63	16.43	2.83	15.97
Unplanned unavailable hours	0	0	0	0	0	12.10	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	1673.40	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.7%**	**0.8%**	**0.8%**	**0.8%**	**0.9%**

Licensee Comments:

4Q/04: Pending resolution of FAQ 40.7, 30.82 hours planned unavailability in October and 8.13 hours planned unavailability in November are included for Train 3 (2C)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**1Q/03**	**2Q/03**	**3Q/03**	**4Q/03**	**1Q/04**	**2Q/04**	**3Q/04**	**4Q/04**
Safety System Functional Failures	0	1	0	0	0	0	0	0
Indicator value	**0**	**1**	**1**	**1**	**1**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**
Maximum activity	0.001060	0.000990	N/A	0.000622	0.000153	0.000109	0.000107	0.000109	0.000098	0.000119	0.000134	0.000184
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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**
Maximum activity	0.000092	0.000200	0.000092	0.000114	0.000087	0.000114	0.000128	0.000081	0.000110	0.000095	0.000102	0.000037
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	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum leakage	1.870	2.050	2.100	2.200	3.090	3.110	3.380	3.320	3.360	3.340	1.780	1.750
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	**6.2**	**6.8**	**7.0**	**7.3**	**10.3**	**10.4**	**11.3**	**11.1**	**11.2**	**11.1**	**5.9**	**5.8**

Reactor Coolant System Leakage	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum leakage	1.710	1.720	1.810	2.040	1.880	1.800	1.860	1.870	1.910	1.870	1.820	1.700
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	**5.7**	**5.7**	**6.0**	**6.8**	**6.3**	**6.0**	**6.2**	**6.2**	**6.4**	**6.2**	**6.1**	**5.7**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	12.0	12.0	19.0	51.0	6.0	6.0	7.0	67.0
Total opportunities	12.0	12.0	20.0	52.0	6.0	6.0	7.0	70.0
Indicator value	**99.0%**	**98.9%**	**98.5%**	**98.3%**	**98.3%**	**98.3%**	**98.3%**	**97.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	46.0	47.0	49.0	50.0	47.0	51.0	48.0	49.0
Total Key personnel	47.0	48.0	49.0	50.0	48.0	53.0	50.0	50.0
Indicator value	**97.9%**	**97.9%**	**100.0%**	**100.0%**	**97.9%**	**96.2%**	**96.0%**	**98.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful siren-tests	593	995	594	1098	596	883	694	994
Total sirens-tests	600	1000	600	1100	600	900	700	1000
Indicator value	**98.9%**	**99.0%**	**98.9%**	**99.4%**	**99.5%**	**99.1%**	**99.1%**	**99.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
High radiation area occurrences	0	0	0	0	1	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**	**1**	**1**	**1**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: March 9, 2005

Browns Ferry 2

1Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned scrams	0	0	0	0	0	2.0	0	0
Critical hours	2183.0	2208.0	1962.0	2184.0	2183.0	2143.7	2209.0	1905.0
Indicator value	**1.7**	**0.9**	**0.9**	**0**	**0**	**1.7**	**1.6**	**1.7**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned power changes	0	2.0	0	0	0	0	1.0	0
Critical hours	2183.0	2208.0	1962.0	2184.0	2183.0	2143.7	2209.0	1905.0
Indicator value	**2.6**	**4.3**	**2.6**	**1.6**	**1.6**	**0**	**0.8**	**0.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	47.44	38.97	3.83	1.08	1.46	1.57	13.01	1.05
Unplanned unavailable hours	0	35.57	0	0	0	0	6.00	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00
Train 2								
Planned unavailable hours	12.80	39.40	37.85	1.02	0.81	1.21	0.86	1.08
Unplanned unavailable hours	0	0	0	15.52	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00
Train 3								
Planned unavailable hours	7.52	11.02	1.02	0.99	0.53	1.25	1.23	5.80
Unplanned unavailable hours	0	0	0	0	7.03	0	13.33	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00
Train 4								
Planned unavailable hours	59.27	6.19	22.61	50.82	1.01	0.50	1.10	5.22
Unplanned unavailable hours	0	57.42	0	4.55	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00
Train 5								
Planned unavailable hours	9.28	1.07	67.80	1.50	0.93	1.11	1.87	1.45
Unplanned unavailable hours	0	0	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00
Train 6								
Planned unavailable hours	1.56	6.30	2.09	58.30	0.76	2.68	1.55	1.21
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00
Train 7								
Planned unavailable hours	37.81	4.44	2.02	1.85	2.32	3.59	10.61	1.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00
Train 8								
Planned unavailable hours	10.89	3.86	1.29	1.18	1.39	1.05	2.33	5.73
Unplanned unavailable hours	34.08	0	0	89.95	0	0	0	0
Fault exposure hours	0	0	0	378.67	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00
Indicator value	**0.7%**	**0.8%**	**0.9%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	3.90	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	11.69	0	0	0	0	9.72
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1942.05	2184.00	2184.00	2208.00	2208.00	1910.10
Indicator value	**1.4%**	**1.4%**	**1.4%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	4.34	1.00	8.35	0	8.58	0.33	22.80	0.58
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1942.05	2184.00	2184.00	2208.00	2208.00	1910.10
Indicator value	**1.0%**	**0.9%**	**1.0%**	**0.9%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	11.34	0	0	19.95	8.39	0	20.00	9.48
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1977.30	2184.00	2183.00	2208.00	2209.00	1979.40
Train 2								
Planned unavailable hours	2.75	0	12.30	97.10	16.43	2.83	7.57	0
Unplanned unavailable hours	0	0	175.80	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	1913.20
Train 3								
Planned unavailable hours	1.12	0	9.15	0	6.08	0	14.40	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1977.30	2184.00	2183.00	2208.00	2209.00	1973.70
Train 4								
Planned unavailable hours	2.75	0	71.25	10.63	16.43	2.83	15.97	22.70
Unplanned unavailable hours	0	0	0	0	12.10	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	1913.20
Indicator value	**0.5%**	**0.5%**	**0.7%**	**0.8%**	**0.8%**	**0.8%**	**0.8%**	**0.9%**

Licensee Comments:

4Q/04: In accordance with approved FAQ 40.7, 30.82 hours of planned unavailability in October and 8.13 hours planned unavailability in November were excluded for Train 3 (2C).

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**2Q/03**	**3Q/03**	**4Q/03**	**1Q/04**	**2Q/04**	**3Q/04**	**4Q/04**	**1Q/05**
Safety System Functional Failures	1	0	0	0	0	0	0	1
Indicator value	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**1**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**
Maximum activity	0.000622	0.000153	0.000109	0.000107	0.000109	0.000098	0.000119	0.000134	0.000184	0.000092	0.000200	0.000092
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	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum activity	0.000114	0.000087	0.000114	0.000128	0.000081	0.000110	0.000095	0.000102	0.000037	0.000046	0.000040	0.000036
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	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**
Maximum leakage	2.200	3.090	3.110	3.380	3.320	3.360	3.340	1.780	1.750	1.710	1.720	1.810
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	**7.3**	**10.3**	**10.4**	**11.3**	**11.1**	**11.2**	**11.1**	**5.9**	**5.8**	**5.7**	**5.7**	**6.0**
Reactor Coolant System Leakage	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum leakage	2.040	1.880	1.800	1.860	1.870	1.910	1.870	1.820	1.700	1.830	1.730	1.880
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	**6.8**	**6.3**	**6.0**	**6.2**	**6.2**	**6.4**	**6.2**	**6.1**	**5.7**	**6.1**	**5.8**	**6.3**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful opportunities	12.0	19.0	51.0	6.0	6.0	7.0	67.0	0
Total opportunities	12.0	20.0	52.0	6.0	6.0	7.0	70.0	0
Indicator value	**98.9%**	**98.5%**	**98.3%**	**98.3%**	**98.3%**	**98.3%**	**97.3%**	**97.1%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Participating Key personnel	47.0	49.0	50.0	47.0	51.0	48.0	49.0	71.0
Total Key personnel	48.0	49.0	50.0	48.0	53.0	50.0	50.0	72.0
Indicator value	**97.9%**	**100.0%**	**100.0%**	**97.9%**	**96.2%**	**96.0%**	**98.0%**	**98.6%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful siren-tests	995	594	1098	596	883	694	994	794
Total sirens-tests	1000	600	1100	600	900	700	1000	800
Indicator value	**99.0%**	**98.9%**	**99.4%**	**99.5%**	**99.1%**	**99.1%**	**99.0%**	**99.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
High radiation area occurrences	0	0	0	1	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**	**1**	**1**	**1**	**1**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: June 17, 2005

Browns Ferry 2

2Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned scrams	0	0	0	0	2.0	0	0	0
Critical hours	2208.0	1962.0	2184.0	2183.0	2143.7	2209.0	1905.0	1812.5
Indicator value	**0.9**	**0.9**	**0**	**0**	**1.7**	**1.6**	**1.7**	**1.7**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned power changes	2.0	0	0	0	0	1.0	0	1.0
Critical hours	2208.0	1962.0	2184.0	2183.0	2143.7	2209.0	1905.0	1812.5
Indicator value	**4.3**	**2.6**	**1.6**	**1.6**	**0**	**0.8**	**0.8**	**1.7**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	38.97	3.83	1.08	1.46	1.57	13.01	1.05	3.32
Unplanned unavailable hours	35.57	0	0	0	0	6.00	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00
Train 2								
Planned unavailable hours	39.40	37.85	1.02	0.81	1.21	0.86	1.08	1.10
Unplanned unavailable hours	0	0	15.52	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00
Train 3								
Planned unavailable hours	11.02	1.02	0.99	0.53	1.25	1.23	5.80	9.68
Unplanned unavailable hours	0	0	0	7.03	0	13.33	0	11.70
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00
Train 4								
Planned unavailable hours	6.19	22.61	50.82	1.01	0.50	1.10	5.22	14.09
Unplanned unavailable hours	57.42	0	4.55	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00
Train 5								
Planned unavailable hours	1.07	67.80	1.50	0.93	1.11	1.87	1.45	9.28
Unplanned unavailable hours	0	0	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00
Train 6								
Planned unavailable hours	6.30	2.09	58.30	0.76	2.68	1.55	1.21	8.89
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00
Train 7								
Planned unavailable hours	4.44	2.02	1.85	2.32	3.59	10.61	1.30	8.14
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00
Train 8								
Planned unavailable hours	3.86	1.29	1.18	1.39	1.05	2.33	5.73	1.28
Unplanned unavailable hours	0	0	89.95	0	0	0	0	0
Fault exposure hours	0	0	378.67	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00
Indicator value	**0.8%**	**0.9%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**

Licensee Comments: none

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	0	0	0	0	0	0	4.60	0
Unplanned unavailable hours	0	11.69	0	0	0	0	5.12	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1942.05	2184.00	2184.00	2208.00	2208.00	1910.10	1803.75
Indicator value	**1.4%**	**1.4%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**1.0%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	1.00	8.35	0	8.58	0.33	22.80	0.58	0.43
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1942.05	2184.00	2184.00	2208.00	2208.00	1910.10	1803.75
Indicator value	**0.9%**	**1.0%**	**0.9%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	0	0	19.95	8.39	0	20.00	9.48	565.42
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1977.30	2184.00	2183.00	2208.00	2209.00	1979.40	1820.20
Train 2								
Planned unavailable hours	0	12.30	97.10	16.43	2.83	7.57	0	0
Unplanned unavailable hours	0	175.80	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	1913.20	2014.60
Train 3								
Planned unavailable hours	0	9.15	0	6.08	0	14.40	0	72.92
Unplanned unavailable hours	0	0	0	0	0	0	0	36.02
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1977.30	2184.00	2183.00	2208.00	2209.00	1973.70	1820.20
Train 4								
Planned unavailable hours	0	71.25	10.63	16.43	2.83	15.97	22.70	0
Unplanned unavailable hours	0	0	0	12.10	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	1913.20	2014.60
Indicator value	**0.5%**	**0.7%**	**0.8%**	**0.8%**	**0.8%**	**0.8%**	**0.9%**	**1.5%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**3Q/03**	**4Q/03**	**1Q/04**	**2Q/04**	**3Q/04**	**4Q/04**	**1Q/05**	**2Q/05**
Safety System Functional Failures	0	0	0	0	0	0	1	1
Indicator value	**1**	**1**	**1**	**0**	**0**	**0**	**1**	**2**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**
Maximum activity	0.000107	0.000109	0.000098	0.000119	0.000134	0.000184	0.000092	0.000200	0.000092	0.000114	0.000087	0.000114
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	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**
Maximum activity	0.000128	0.000081	0.000110	0.000095	0.000102	0.000037	0.000046	0.000040	0.000036	0.000033	0.000046	0.000038
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	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	3.380	3.320	3.360	3.340	1.780	1.750	1.710	1.720	1.810	2.040	1.880	1.800
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	**11.3**	**11.1**	**11.2**	**11.1**	**5.9**	**5.8**	**5.7**	**5.7**	**6.0**	**6.8**	**6.3**	**6.0**

Reactor Coolant System Leakage	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum leakage	1.860	1.870	1.910	1.870	1.820	1.700	1.830	1.730	1.880	2.160	2.060	2.020
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	**6.2**	**6.2**	**6.4**	**6.2**	**6.1**	**5.7**	**6.1**	**5.8**	**6.3**	**7.2**	**6.9**	**6.7**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful opportunities	19.0	51.0	6.0	6.0	7.0	67.0	0	16.0
Total opportunities	20.0	52.0	6.0	6.0	7.0	70.0	0	16.0
Indicator value	**98.5%**	**98.3%**	**98.3%**	**98.3%**	**98.3%**	**97.3%**	**97.1%**	**97.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Participating Key personnel	49.0	50.0	47.0	51.0	48.0	49.0	71.0	71.0
Total Key personnel	49.0	50.0	48.0	53.0	50.0	50.0	72.0	71.0
Indicator value	**100.0%**	**100.0%**	**97.9%**	**96.2%**	**96.0%**	**98.0%**	**98.6%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful siren-tests	594	1098	596	883	694	994	794	896
Total sirens-tests	600	1100	600	900	700	1000	800	900
Indicator value	**98.9%**	**99.4%**	**99.5%**	**99.1%**	**99.1%**	**99.0%**	**99.0%**	**99.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
High radiation area occurrences	0	0	1	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**	**1**	**1**	**1**	**1**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: August 3, 2005

Browns Ferry 2

3Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned scrams	0	0	0	2.0	0	0	0	1.0
Critical hours	1962.0	2184.0	2183.0	2143.7	2209.0	1905.0	1812.5	2176.4
Indicator value	**0.9**	**0**	**0**	**1.7**	**1.6**	**1.7**	**1.7**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**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	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned power changes	0	0	0	0	1.0	0	1.0	0
Critical hours	1962.0	2184.0	2183.0	2143.7	2209.0	1905.0	1812.5	2176.4
Indicator value	**2.6**	**1.6**	**1.6**	**0**	**0.8**	**0.8**	**1.7**	**1.7**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	3.83	1.08	1.46	1.57	19.01	1.05	3.32	81.18
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00
Train 2								
Planned unavailable hours	37.85	16.52	0.81	1.21	0.86	1.08	1.10	1.31
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00
Train 3								
Planned unavailable hours	1.02	0.99	0.53	1.25	1.23	5.80	21.38	1.30
Unplanned unavailable hours	0	0	7.03	0	13.33	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00
Train 4								
Planned unavailable hours	22.61	55.37	1.01	0.50	1.10	5.22	14.09	35.99
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00
Train 5								
Planned unavailable hours	67.80	1.50	0.93	1.11	1.87	1.45	9.28	0.81
Unplanned unavailable hours	0	0	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00
Train 6								
Planned unavailable hours	2.09	58.30	0.76	2.68	1.55	1.21	8.89	0.87
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00
Train 7								
Planned unavailable hours	2.02	1.85	2.32	3.59	10.61	1.30	8.14	32.95
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00
Train 8								
Planned unavailable hours	1.29	1.18	1.39	1.05	2.33	5.73	1.28	9.58
Unplanned unavailable hours	0	89.95	0	0	0	0	0	0
Fault exposure hours	0	378.67	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00
Indicator value	**0.9%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	0	0	0	0	0	4.60	0	0
Unplanned unavailable hours	11.69	0	0	0	0	5.12	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1942.05	2184.00	2184.00	2208.00	2208.00	1910.10	1803.75	2208.00
Indicator value	**1.4%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**1.0%**	**1.0%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	8.35	0	8.58	0.33	22.80	0.58	0.43	0.28
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1942.05	2184.00	2184.00	2208.00	2208.00	1910.10	1803.75	2208.00
Indicator value	**1.0%**	**0.9%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**0.9%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	0	19.95	8.39	0	20.00	9.48	402.03	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1977.30	2184.00	2183.00	2208.00	2209.00	1979.40	1820.20	2208.00
Train 2								
Planned unavailable hours	12.30	117.07	16.43	2.83	7.57	0	0	0
Unplanned unavailable hours	175.80	0	0	0	0	0	0	60.40
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1913.20	2014.60	2208.00
Train 3								
Planned unavailable hours	9.15	0	6.08	0	14.40	0	72.92	0
Unplanned unavailable hours	0	0	0	0	0	0	36.02	5.38
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1977.30	2184.00	2183.00	2208.00	2209.00	1973.70	1820.20	2208.00
Train 4								
Planned unavailable hours	71.25	10.63	16.43	2.83	15.97	22.70	0	0
Unplanned unavailable hours	0	0	12.10	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1913.20	2014.60	2208.00
Indicator value	**0.8%**	**0.9%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**1.4%**	**1.3%**

Licensee Comments:

3Q/05: Values entered for RHR 2A for April 2005 were overly conservative and not consistent with the normal expectation for unavailability accounting. Discussion with the NRC resident concluded that the reported unavailability hours were reflective of containment issues and the heat exchanger would have been available for heat removal. Revised numbers are being provided via change report with the 3Q/2005 submittal.

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**4Q/03**	**1Q/04**	**2Q/04**	**3Q/04**	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**
Safety System Functional Failures	0	0	0	0	0	1	1	1
Indicator value	**1**	**1**	**0**	**0**	**0**	**1**	**2**	**3**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**
Maximum activity	0.000119	0.000134	0.000184	0.000092	0.000200	0.000092	0.000114	0.000087	0.000114	0.000128	0.000081	0.000110
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	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**
Maximum activity	0.000095	0.000102	0.000037	0.000046	0.000040	0.000036	0.000033	0.000046	0.000038	0.000036	0.000037	0.000035
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	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	3.340	1.780	1.750	1.710	1.720	1.810	2.040	1.880	1.800	1.860	1.870	1.910
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	**11.1**	**5.9**	**5.8**	**5.7**	**5.7**	**6.0**	**6.8**	**6.3**	**6.0**	**6.2**	**6.2**	**6.4**
Reactor Coolant System Leakage	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**
Maximum leakage	1.870	1.820	1.700	1.830	1.730	1.880	2.160	2.060	2.020	2.090	2.140	2.160
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	**6.2**	**6.1**	**5.7**	**6.1**	**5.8**	**6.3**	**7.2**	**6.9**	**6.7**	**7.0**	**7.1**	**7.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful opportunities	51.0	6.0	6.0	7.0	67.0	0	16.0	4.0
Total opportunities	52.0	6.0	6.0	7.0	70.0	0	16.0	4.0
Indicator value	**98.3%**	**98.3%**	**98.3%**	**98.3%**	**97.3%**	**97.1%**	**97.2%**	**97.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Participating Key personnel	50.0	47.0	51.0	48.0	49.0	71.0	71.0	72.0
Total Key personnel	50.0	48.0	53.0	50.0	50.0	72.0	71.0	73.0
Indicator value	**100.0%**	**97.9%**	**96.2%**	**96.0%**	**98.0%**	**98.6%**	**100.0%**	**98.6%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful siren-tests	1098	596	883	694	994	794	896	698
Total sirens-tests	1100	600	900	700	1000	800	900	700
Indicator value	**99.4%**	**99.5%**	**99.1%**	**99.1%**	**99.0%**	**99.0%**	**99.4%**	**99.5%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
High radiation area occurrences	0	1	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**	**1**	**1**	**1**	**1**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: November 3, 2005

Browns Ferry 2

4Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned scrams	0	0	2.0	0	0	0	1.0	0
Critical hours	2184.0	2183.0	2143.7	2209.0	1905.0	1812.5	2176.4	2209.0
Indicator value	**0**	**0**	**1.7**	**1.6**	**1.7**	**1.7**	**0.9**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned power changes	0	0	0	1.0	0	1.0	0	0
Critical hours	2184.0	2183.0	2143.7	2209.0	1905.0	1812.5	2176.4	2209.0
Indicator value	**1.6**	**1.6**	**0**	**0.8**	**0.8**	**1.7**	**1.7**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	1.08	1.46	1.57	19.01	1.05	3.32	81.18	1.07
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00
Train 2								
Planned unavailable hours	16.52	0.81	1.21	0.86	1.08	1.10	1.31	1.63
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00
Train 3								
Planned unavailable hours	0.99	0.53	1.25	1.23	5.80	21.38	1.30	1.45
Unplanned unavailable hours	0	7.03	0	13.33	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00
Train 4								
Planned unavailable hours	55.37	1.01	0.50	1.10	5.22	14.09	35.99	1.38
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00
Train 5								
Planned unavailable hours	1.50	0.93	1.11	1.87	1.45	9.28	0.81	3.05
Unplanned unavailable hours	0	0	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00
Train 6								
Planned unavailable hours	58.30	0.76	2.68	1.55	1.21	8.89	0.87	4.39
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00
Train 7								
Planned unavailable hours	1.85	2.32	3.59	10.61	1.30	8.14	32.95	1.07
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00
Train 8								
Planned unavailable hours	1.18	1.39	1.05	2.33	5.73	1.28	9.58	27.32
Unplanned unavailable hours	89.95	0	0	0	0	0	0	0
Fault exposure hours	378.67	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00
Indicator value	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**0.8%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	0	0	0	0	4.60	0	0	20.92
Unplanned unavailable hours	0	0	0	0	5.12	0	0	28.42
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2184.00	2208.00	2208.00	1910.10	1803.75	2208.00	2208.00
Indicator value	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**1.0%**	**1.0%**	**0.9%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	0	8.58	0.33	22.80	0.58	0.43	0.28	72.55
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2184.00	2208.00	2208.00	1910.10	1803.75	2208.00	2208.00
Indicator value	**0.9%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**0.9%**	**0.9%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	19.95	8.39	0	20.00	9.48	402.03	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	1979.40	1820.20	2208.00	2208.00
Train 2								
Planned unavailable hours	117.07	16.43	2.83	7.57	0	0	0	50.67
Unplanned unavailable hours	0	0	0	0	0	0	60.40	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	1913.20	2014.60	2208.00	2208.00
Train 3								
Planned unavailable hours	0	6.08	0	14.40	0	72.92	0	7.32
Unplanned unavailable hours	0	0	0	0	0	36.02	5.38	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	1973.70	1820.20	2208.00	2208.00
Train 4								
Planned unavailable hours	10.63	16.43	2.83	15.97	22.70	0	0	6.33
Unplanned unavailable hours	0	12.10	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2184.00	2183.00	2208.00	2209.00	1913.20	2014.60	2208.00	2208.00
Indicator value	**0.9%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**1.4%**	**1.4%**	**1.4%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**1Q/04**	**2Q/04**	**3Q/04**	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**
Safety System Functional Failures	0	0	0	0	1	1	1	0
Indicator value	**1**	**0**	**0**	**0**	**1**	**2**	**3**	**3**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**
Maximum activity	0.000092	0.000200	0.000092	0.000114	0.000087	0.000114	0.000128	0.000081	0.000110	0.000095	0.000102	0.000037
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	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum activity	0.000046	0.000040	0.000036	0.000033	0.000046	0.000038	0.000036	0.000037	0.000035	0.000040	0.000048	0.000040
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	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**
Maximum leakage	1.710	1.720	1.810	2.040	1.880	1.800	1.860	1.870	1.910	1.870	1.820	1.700
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	**5.7**	**5.7**	**6.0**	**6.8**	**6.3**	**6.0**	**6.2**	**6.2**	**6.4**	**6.2**	**6.1**	**5.7**
Reactor Coolant System Leakage	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum leakage	1.830	1.730	1.880	2.160	2.060	2.020	2.090	2.140	2.160	2.060	2.060	2.340
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	**6.1**	**5.8**	**6.3**	**7.2**	**6.9**	**6.7**	**7.0**	**7.1**	**7.2**	**6.9**	**6.9**	**7.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful opportunities	6.0	6.0	7.0	67.0	0	16.0	4.0	76.0
Total opportunities	6.0	6.0	7.0	70.0	0	16.0	4.0	77.0
Indicator value	**98.3%**	**98.3%**	**98.3%**	**97.3%**	**97.1%**	**97.2%**	**97.5%**	**97.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Participating Key personnel	47.0	51.0	48.0	49.0	71.0	71.0	72.0	66.0
Total Key personnel	48.0	53.0	50.0	50.0	72.0	71.0	73.0	67.0
Indicator value	**97.9%**	**96.2%**	**96.0%**	**98.0%**	**98.6%**	**100.0%**	**98.6%**	**98.5%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful siren-tests	596	883	694	994	794	896	698	898
Total sirens-tests	600	900	700	1000	800	900	700	900
Indicator value	**99.5%**	**99.1%**	**99.1%**	**99.0%**	**99.0%**	**99.4%**	**99.5%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
High radiation area occurrences	1	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	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: January 30, 2006

Browns Ferry 2

1Q/2006 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned scrams	0	2.0	0	0	0	1.0	0	0
Critical hours	2183.0	2143.7	2209.0	1905.0	1812.5	2176.4	2209.0	2160.0
Indicator value	**0**	**1.7**	**1.6**	**1.7**	**1.7**	**0.9**	**0.9**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**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	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned power changes	0	0	1.0	0	1.0	0	0	1.0
Critical hours	2183.0	2143.7	2209.0	1905.0	1812.5	2176.4	2209.0	2160.0
Indicator value	**1.6**	**0**	**0.8**	**0.8**	**1.7**	**1.7**	**0.9**	**1.7**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG

Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	1.46	1.57	19.01	1.05	3.32	81.18	1.07	14.07
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00	2160.00
Train 2								
Planned unavailable hours	0.81	1.21	0.86	1.08	1.10	1.31	1.63	0.99
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00	2160.00
Train 3								
Planned unavailable hours	0.53	1.25	1.23	5.80	21.38	1.30	1.45	1.10
Unplanned unavailable hours	7.03	0	13.33	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00	2160.00
Train 4								
Planned unavailable hours	1.01	0.50	1.10	5.22	14.09	35.99	1.38	1.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00	2160.00
Train 5								
Planned unavailable hours	0.93	1.11	1.87	1.45	9.28	0.81	3.05	1.46
Unplanned unavailable hours	0	0	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00	2160.00
Train 6								
Planned unavailable hours	0.76	2.68	1.55	1.21	8.89	0.87	4.39	7.19
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00	2160.00
Train 7								
Planned unavailable hours	2.32	3.59	10.61	1.30	8.14	32.95	1.07	38.18
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00	2160.00
Train 8								
Planned unavailable hours	1.39	1.05	2.33	5.73	1.28	9.58	27.32	2.13
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00	2160.00
Indicator value	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**0.9%**	**0.8%**	**0.8%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	0	0	0	4.60	0	0	20.92	0
Unplanned unavailable hours	0	0	0	5.12	0	0	28.42	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2208.00	2208.00	1910.10	1803.75	2208.00	2208.00	2160.00
Indicator value	**1.1%**	**1.1%**	**0.9%**	**1.0%**	**1.0%**	**0.9%**	**1.1%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	8.58	0.33	22.80	0.58	0.43	0.28	72.55	66.43
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2208.00	2208.00	1910.10	1803.75	2208.00	2208.00	2160.00
Indicator value	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**0.9%**	**0.9%**	**0.6%**	**0.7%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	8.39	0	20.00	9.48	402.03	0	0	66.03
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1979.40	1820.20	2208.00	2208.00	2160.00
Train 2								
Planned unavailable hours	16.43	2.83	7.57	0	0	0	50.67	0
Unplanned unavailable hours	0	0	0	0	0	60.40	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1913.20	2014.60	2208.00	2208.00	2160.00
Train 3								
Planned unavailable hours	6.08	0	14.40	0	72.92	0	7.32	0
Unplanned unavailable hours	0	0	0	0	36.02	5.38	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1973.70	1820.20	2208.00	2208.00	2160.00
Train 4								
Planned unavailable hours	16.43	2.83	15.97	22.70	0	0	6.33	25.40
Unplanned unavailable hours	12.10	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2183.00	2208.00	2209.00	1913.20	2014.60	2208.00	2208.00	2160.00
Indicator value	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**1.4%**	**1.4%**	**1.4%**	**1.3%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	**2Q/04**	**3Q/04**	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**
Safety System Functional Failures	0	0	0	1	1	1	0	0
Indicator value	**0**	**0**	**0**	**1**	**2**	**3**	**3**	**2**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum activity	0.000114	0.000087	0.000114	0.000128	0.000081	0.000110	0.000095	0.000102	0.000037	0.000046	0.000040	0.000036
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	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**
Maximum activity	0.000033	0.000046	0.000038	0.000036	0.000037	0.000035	0.000040	0.000048	0.000040	0.000035	0.000032	0.000038
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	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum leakage	2.040	1.880	1.800	1.860	1.870	1.910	1.870	1.820	1.700	1.830	1.730	1.880
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	**6.8**	**6.3**	**6.0**	**6.2**	**6.2**	**6.4**	**6.2**	**6.1**	**5.7**	**6.1**	**5.8**	**6.3**
Reactor Coolant System Leakage	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**
Maximum leakage	2.160	2.060	2.020	2.090	2.140	2.160	2.060	2.060	2.340	2.200	2.190	2.220
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	**7.2**	**6.9**	**6.7**	**7.0**	**7.1**	**7.2**	**6.9**	**6.9**	**7.8**	**7.3**	**7.3**	**7.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful opportunities	6.0	7.0	67.0	0	16.0	4.0	76.0	0
Total opportunities	6.0	7.0	70.0	0	16.0	4.0	77.0	0
Indicator value	**98.3%**	**98.3%**	**97.3%**	**97.1%**	**97.2%**	**97.5%**	**97.8%**	**97.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Participating Key personnel	51.0	48.0	49.0	71.0	71.0	72.0	66.0	66.0
Total Key personnel	53.0	50.0	50.0	72.0	71.0	73.0	67.0	67.0
Indicator value	**96.2%**	**96.0%**	**98.0%**	**98.6%**	**100.0%**	**98.6%**	**98.5%**	**98.5%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful siren-tests	883	694	994	794	896	698	898	799
Total sirens-tests	900	700	1000	800	900	700	900	800
Indicator value	**99.1%**	**99.1%**	**99.0%**	**99.0%**	**99.4%**	**99.5%**	**99.6%**	**99.7%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
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	**1**	**1**	**1**	**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/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: May 5, 2006

Browns Ferry 2

2Q/2006 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned scrams	2.0	0	0	0	1.0	0	0	0
Critical hours	2143.7	2209.0	1905.0	1812.5	2176.4	2209.0	2160.0	2072.9
Indicator value	**1.7**	**1.6**	**1.7**	**1.7**	**0.9**	**0.9**	**0.8**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**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/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned power changes	0	1.0	0	1.0	0	0	1.0	0
Critical hours	2143.7	2209.0	1905.0	1812.5	2176.4	2209.0	2160.0	2072.9
Indicator value	**0**	**0.8**	**0.8**	**1.7**	**1.7**	**0.9**	**1.7**	**0.8**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Safety System Functional Failures	0	0	1	1	1	0	0	0
Indicator value	**0**	**0**	**1**	**2**	**3**	**3**	**2**	**1**

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/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-4.40E-08
URI (ΔCDF)								-6.00E-08
PLE								NO
Indicator value								**-1.04E-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	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-9.20E-09
URI (ΔCDF)								6.40E-09
PLE								NO
Indicator value								**-2.80E-09**

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	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-2.00E-08
URI (ΔCDF)								-5.50E-09
PLE								NO
Indicator value								**-2.55E-08**

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	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								2.00E-07
URI (ΔCDF)								-9.10E-08
PLE								NO
Indicator value								**1.09E-07**

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	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								1.90E-07
URI (ΔCDF)								-1.80E-08
PLE								NO
Indicator value								**1.72E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**
Maximum activity	0.000128	0.000081	0.000110	0.000095	0.000102	0.000037	0.000046	0.000040	0.000036	0.000033	0.000046	0.000038
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	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**
Maximum activity	0.000036	0.000037	0.000035	0.000040	0.000048	0.000040	0.000035	0.000032	0.000038	0.000038	0.000038	0.000044
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	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**
Maximum leakage	1.860	1.870	1.910	1.870	1.820	1.700	1.830	1.730	1.880	2.160	2.060	2.020
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	**6.2**	**6.2**	**6.4**	**6.2**	**6.1**	**5.7**	**6.1**	**5.8**	**6.3**	**7.2**	**6.9**	**6.7**
Reactor Coolant System Leakage	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**
Maximum leakage	2.090	2.140	2.160	2.060	2.060	2.340	2.200	2.190	2.220	2.290	2.300	2.000
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	**7.0**	**7.1**	**7.2**	**6.9**	**6.9**	**7.8**	**7.3**	**7.3**	**7.4**	**7.6**	**7.7**	**6.7**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful opportunities	7.0	67.0	0	16.0	4.0	76.0	0	15.0
Total opportunities	7.0	70.0	0	16.0	4.0	77.0	0	16.0
Indicator value	**98.3%**	**97.3%**	**97.1%**	**97.2%**	**97.5%**	**97.8%**	**97.8%**	**97.4%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Participating Key personnel	48.0	49.0	71.0	71.0	72.0	66.0	66.0	73.0
Total Key personnel	50.0	50.0	72.0	71.0	73.0	67.0	67.0	73.0
Indicator value	**96.0%**	**98.0%**	**98.6%**	**100.0%**	**98.6%**	**98.5%**	**98.5%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful siren-tests	694	994	794	896	698	898	799	896
Total sirens-tests	700	1000	800	900	700	900	800	900
Indicator value	**99.1%**	**99.0%**	**99.0%**	**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	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
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	**1**	**1**	**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/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: August 2, 2006

Browns Ferry 2

3Q/2006 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2209.0	1905.0	1812.5	2176.4	2209.0	2160.0	2072.9	2208.0
Indicator value	**1.6**	**1.7**	**1.7**	**0.9**	**0.9**	**0.8**	**0.8**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**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	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned power changes	1.0	0	1.0	0	0	1.0	0	0
Critical hours	2209.0	1905.0	1812.5	2176.4	2209.0	2160.0	2072.9	2208.0
Indicator value	**0.8**	**0.8**	**1.7**	**1.7**	**0.9**	**1.7**	**0.8**	**0.8**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Safety System Functional Failures	0	1	1	1	0	0	0	0
Indicator value	**0**	**1**	**2**	**3**	**3**	**2**	**1**	**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/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							-4.40E-08	-4.40E-08
URI (ΔCDF)							-6.00E-08	-6.00E-08
PLE							NO	NO
Indicator value							**-1.04E-07**	**-1.04E-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/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							-9.20E-09	-9.20E-09
URI (ΔCDF)							6.40E-09	6.40E-09
PLE							NO	NO
Indicator value							**-2.80E-09**	**-2.80E-09**

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/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							-2.00E-08	-2.00E-08
URI (ΔCDF)							-5.50E-09	-5.50E-09
PLE							NO	NO
Indicator value							**-2.55E-08**	**-2.55E-08**

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/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							2.00E-07	2.00E-07
URI (ΔCDF)							-9.10E-08	-8.70E-08
PLE							NO	NO
Indicator value							**1.09E-07**	**1.13E-07**

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/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							1.90E-07	2.10E-07
URI (ΔCDF)							-1.80E-08	-3.80E-09
PLE							NO	NO
Indicator value							**1.72E-07**	**2.06E-07**

Licensee Comments:

3Q/06: Changed PRA Parameter(s). Corrected the baselilne UA value for Unit 2 CW1 from 1.51E-01 to 1.51E-02. No basis document change - the original value was entered in error. No PI color change.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**
Maximum activity	0.000095	0.000102	0.000037	0.000046	0.000040	0.000036	0.000033	0.000046	0.000038	0.000036	0.000037	0.000035
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	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum activity	0.000040	0.000048	0.000040	0.000035	0.000032	0.000038	0.000038	0.000038	0.000044	0.000036	0.000036	0.000034
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	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**
Maximum leakage	1.870	1.820	1.700	1.830	1.730	1.880	2.160	2.060	2.020	2.090	2.140	2.160
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	**6.2**	**6.1**	**5.7**	**6.1**	**5.8**	**6.3**	**7.2**	**6.9**	**6.7**	**7.0**	**7.1**	**7.2**
Reactor Coolant System Leakage	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum leakage	2.060	2.060	2.340	2.200	2.190	2.220	2.290	2.300	2.000	2.020	1.880	2.410
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	**6.9**	**6.9**	**7.8**	**7.3**	**7.3**	**7.4**	**7.6**	**7.7**	**6.7**	**6.7**	**6.3**	**8.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful opportunities	67.0	0	16.0	4.0	76.0	0	15.0	44.0
Total opportunities	70.0	0	16.0	4.0	77.0	0	16.0	44.0
Indicator value	**97.3%**	**97.1%**	**97.2%**	**97.5%**	**97.8%**	**97.8%**	**97.4%**	**97.8%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Participating Key personnel	49.0	71.0	71.0	72.0	66.0	66.0	73.0	69.0
Total Key personnel	50.0	72.0	71.0	73.0	67.0	67.0	73.0	69.0
Indicator value	**98.0%**	**98.6%**	**100.0%**	**98.6%**	**98.5%**	**98.5%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful siren-tests	994	794	896	698	898	799	896	793
Total sirens-tests	1000	800	900	700	900	800	900	800
Indicator value	**99.0%**	**99.0%**	**99.4%**	**99.5%**	**99.6%**	**99.7%**	**99.7%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
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	**1**	**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	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: November 6, 2006

Browns Ferry 2

4Q/2006 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	1905.0	1812.5	2176.4	2209.0	2160.0	2072.9	2208.0	1950.1
Indicator value	**1.7**	**1.7**	**0.9**	**0.9**	**0.8**	**0.8**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**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	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned power changes	0	1.0	0	0	1.0	0	0	0
Critical hours	1905.0	1812.5	2176.4	2209.0	2160.0	2072.9	2208.0	1950.1
Indicator value	**0.8**	**1.7**	**1.7**	**0.9**	**1.7**	**0.8**	**0.8**	**0.8**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Safety System Functional Failures	1	1	1	0	0	0	0	0
Indicator value	**1**	**2**	**3**	**3**	**2**	**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	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						-4.40E-08	-4.40E-08	-3.90E-08
URI (ΔCDF)						-6.60E-08	-6.60E-08	-6.80E-08
PLE						NO	NO	NO
Indicator value						**-1.10E-07**	**-1.10E-07**	**-1.07E-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	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						-9.20E-09	-9.20E-09	-1.20E-08
URI (ΔCDF)						5.20E-09	5.20E-09	5.20E-09
PLE						NO	NO	NO
Indicator value						**-4.00E-09**	**-4.00E-09**	**-6.80E-09**

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	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						-2.00E-08	-2.00E-08	-2.00E-08
URI (ΔCDF)						-5.30E-09	-5.30E-09	-5.10E-09
PLE						NO	NO	NO
Indicator value						**-2.53E-08**	**-2.53E-08**	**-2.51E-08**

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	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						2.00E-07	2.00E-07	2.80E-07
URI (ΔCDF)						-9.10E-08	-8.80E-08	-8.70E-08
PLE						NO	NO	NO
Indicator value						**1.09E-07**	**1.12E-07**	**1.93E-07**

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	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						1.90E-07	2.10E-07	1.40E-07
URI (ΔCDF)						2.40E-08	3.80E-08	3.80E-08
PLE						NO	NO	NO
Indicator value						**2.14E-07**	**2.48E-07**	**1.78E-07**

Licensee Comments:

4Q/06: Changed PRA Parameter(s).

3Q/06: Corrected the baselilne UA value for Unit 2 CW1 from 1.51E-01 to 1.51E-02. No basis document change - the original value was entered in error. No PI color change.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum activity	0.000046	0.000040	0.000036	0.000033	0.000046	0.000038	0.000036	0.000037	0.000035	0.000040	0.000048	0.000040
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	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum activity	0.000035	0.000032	0.000038	0.000038	0.000038	0.000044	0.000036	0.000036	0.000034	0.000036	0.000054	0.000045
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	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum leakage	1.830	1.730	1.880	2.160	2.060	2.020	2.090	2.140	2.160	2.060	2.060	2.340
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	**6.1**	**5.8**	**6.3**	**7.2**	**6.9**	**6.7**	**7.0**	**7.1**	**7.2**	**6.9**	**6.9**	**7.8**
Reactor Coolant System Leakage	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum leakage	2.200	2.190	2.220	2.290	2.300	2.000	2.020	1.880	2.410	2.350	1.860	1.880
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	**7.3**	**7.3**	**7.4**	**7.6**	**7.7**	**6.7**	**6.7**	**6.3**	**8.0**	**7.8**	**6.2**	**6.3**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful opportunities	0	16.0	4.0	76.0	0	15.0	44.0	24.0
Total opportunities	0	16.0	4.0	77.0	0	16.0	44.0	24.0
Indicator value	**97.1%**	**97.2%**	**97.5%**	**97.8%**	**97.8%**	**97.4%**	**97.8%**	**98.9%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Participating Key personnel	71.0	71.0	72.0	66.0	66.0	73.0	69.0	68.0
Total Key personnel	72.0	71.0	73.0	67.0	67.0	73.0	69.0	68.0
Indicator value	**98.6%**	**100.0%**	**98.6%**	**98.5%**	**98.5%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful siren-tests	794	896	698	898	799	896	793	798
Total sirens-tests	800	900	700	900	800	900	800	800
Indicator value	**99.0%**	**99.4%**	**99.5%**	**99.6%**	**99.7%**	**99.7%**	**99.6%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
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	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: February 7, 2007

Browns Ferry 2

1Q/2007 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned scrams	0	1.0	0	0	0	0	0	1.0
Critical hours	1812.5	2176.4	2209.0	2160.0	2072.9	2208.0	1950.1	1180.7
Indicator value	**1.7**	**0.9**	**0.9**	**0.8**	**0.8**	**0**	**0**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**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	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned power changes	1.0	0	0	1.0	0	0	0	0
Critical hours	1812.5	2176.4	2209.0	2160.0	2072.9	2208.0	1950.1	1180.7
Indicator value	**1.7**	**1.7**	**0.9**	**1.7**	**0.8**	**0.8**	**0.8**	**0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Safety System Functional Failures	1	1	0	0	0	0	0	0
Indicator value	**2**	**3**	**3**	**2**	**1**	**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	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					-4.40E-08	-4.40E-08	-3.90E-08	2.70E-08
URI (ΔCDF)					-6.60E-08	-6.60E-08	-6.80E-08	-6.80E-08
PLE					NO	NO	NO	NO
Indicator value					**-1.10E-07**	**-1.10E-07**	**-1.07E-07**	**-4.10E-08**

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	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					-9.20E-09	-9.20E-09	-1.20E-08	-1.20E-08
URI (ΔCDF)					5.20E-09	5.20E-09	5.20E-09	5.20E-09
PLE					NO	NO	NO	NO
Indicator value					**-4.00E-09**	**-4.00E-09**	**-6.80E-09**	**-6.80E-09**

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	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					-2.00E-08	-2.00E-08	-2.00E-08	-7.00E-09
URI (ΔCDF)					-5.30E-09	-5.30E-09	-5.10E-09	-5.50E-09
PLE					NO	NO	NO	NO
Indicator value					**-2.53E-08**	**-2.53E-08**	**-2.51E-08**	**-1.25E-08**

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	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					2.00E-07	2.00E-07	2.80E-07	3.20E-07
URI (ΔCDF)					-9.10E-08	-8.80E-08	-8.70E-08	-8.60E-08
PLE					NO	NO	NO	NO
Indicator value					**1.09E-07**	**1.12E-07**	**1.93E-07**	**2.34E-07**

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	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					1.90E-07	2.10E-07	1.40E-07	2.30E-07
URI (ΔCDF)					2.40E-08	3.80E-08	3.80E-08	5.20E-08
PLE					NO	NO	NO	NO
Indicator value					**2.14E-07**	**2.48E-07**	**1.78E-07**	**2.82E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**
Maximum activity	0.000033	0.000046	0.000038	0.000036	0.000037	0.000035	0.000040	0.000048	0.000040	0.000035	0.000032	0.000038
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	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**
Maximum activity	0.000038	0.000038	0.000044	0.000036	0.000036	0.000034	0.000036	0.000054	0.000045	0.000087	0.000045	N/A
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**	**N/A**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**
Maximum leakage	2.160	2.060	2.020	2.090	2.140	2.160	2.060	2.060	2.340	2.200	2.190	2.220
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	**7.2**	**6.9**	**6.7**	**7.0**	**7.1**	**7.2**	**6.9**	**6.9**	**7.8**	**7.3**	**7.3**	**7.4**
Reactor Coolant System Leakage	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**
Maximum leakage	2.290	2.300	2.000	2.020	1.880	2.410	2.350	1.860	1.880	2.160	1.930	0
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	**7.6**	**7.7**	**6.7**	**6.7**	**6.3**	**8.0**	**7.8**	**6.2**	**6.3**	**7.2**	**6.4**	**0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful opportunities	16.0	4.0	76.0	0	15.0	44.0	24.0	0
Total opportunities	16.0	4.0	77.0	0	16.0	44.0	24.0	0
Indicator value	**97.2%**	**97.5%**	**97.8%**	**97.8%**	**97.4%**	**97.8%**	**98.9%**	**98.9%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Participating Key personnel	71.0	72.0	66.0	66.0	73.0	69.0	68.0	63.0
Total Key personnel	71.0	73.0	67.0	67.0	73.0	69.0	68.0	65.0
Indicator value	**100.0%**	**98.6%**	**98.5%**	**98.5%**	**100.0%**	**100.0%**	**100.0%**	**96.9%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful siren-tests	896	698	898	799	896	793	798	797
Total sirens-tests	900	700	900	800	900	800	800	800
Indicator value	**99.4%**	**99.5%**	**99.6%**	**99.7%**	**99.7%**	**99.6%**	**99.6%**	**99.5%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
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/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: June 1, 2007

Browns Ferry 2

2Q/2007 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned scrams	1.0	0	0	0	0	0	1.0	0
Critical hours	2176.4	2209.0	2160.0	2072.9	2208.0	1950.1	1180.7	1832.1
Indicator value	**0.9**	**0.9**	**0.8**	**0.8**	**0**	**0**	**0.9**	**1.0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**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/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	0	0	1.0	0	0	0	0	3.0
Critical hours	2176.4	2209.0	2160.0	2072.9	2208.0	1950.1	1180.7	1832.1
Indicator value	**1.7**	**0.9**	**1.7**	**0.8**	**0.8**	**0.8**	**0**	**2.9**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Safety System Functional Failures	1	0	0	0	0	0	0	0
Indicator value	**3**	**3**	**2**	**1**	**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/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				-4.40E-08	-4.40E-08	-3.90E-08	2.70E-08	2.70E-08
URI (ΔCDF)				-6.60E-08	-6.60E-08	-6.80E-08	-6.80E-08	-1.00E-07
PLE				NO	NO	NO	NO	NO
Indicator value				**-1.10E-07**	**-1.10E-07**	**-1.07E-07**	**-4.10E-08**	**-7.30E-08**

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	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				-9.20E-09	-9.20E-09	-1.20E-08	-1.20E-08	-1.20E-08
URI (ΔCDF)				5.20E-09	5.20E-09	5.20E-09	5.20E-09	5.20E-09
PLE				NO	NO	NO	NO	NO
Indicator value				**-4.00E-09**	**-4.00E-09**	**-6.80E-09**	**-6.80E-09**	**-6.80E-09**

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	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				-2.00E-08	-2.00E-08	-2.00E-08	-7.00E-09	-8.30E-09
URI (ΔCDF)				-5.30E-09	-5.30E-09	-5.10E-09	-5.50E-09	-5.50E-09
PLE				NO	NO	NO	NO	NO
Indicator value				**-2.53E-08**	**-2.53E-08**	**-2.51E-08**	**-1.25E-08**	**-1.38E-08**

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	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				2.00E-07	2.00E-07	2.80E-07	3.20E-07	2.90E-07
URI (ΔCDF)				-9.10E-08	-8.80E-08	-8.70E-08	-6.90E-08	-6.90E-08
PLE				NO	NO	NO	NO	NO
Indicator value				**1.09E-07**	**1.12E-07**	**1.93E-07**	**2.51E-07**	**2.21E-07**

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	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				1.90E-07	2.10E-07	1.40E-07	2.30E-07	2.30E-07
URI (ΔCDF)				2.40E-08	3.80E-08	3.80E-08	5.20E-08	3.80E-08
PLE				NO	NO	NO	NO	NO
Indicator value				**2.14E-07**	**2.48E-07**	**1.78E-07**	**2.82E-07**	**2.68E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**
Maximum activity	0.000036	0.000037	0.000035	0.000040	0.000048	0.000040	0.000035	0.000032	0.000038	0.000038	0.000038	0.000044
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	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**
Maximum activity	0.000036	0.000036	0.000034	0.000036	0.000054	0.000045	0.000087	0.000045	N/A	N/A	0.000047	0.000035
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**	**N/A**	**N/A**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**
Maximum leakage	2.090	2.140	2.160	2.060	2.060	2.340	2.200	2.190	2.220	2.290	2.300	2.000
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	**7.0**	**7.1**	**7.2**	**6.9**	**6.9**	**7.8**	**7.3**	**7.3**	**7.4**	**7.6**	**7.7**	**6.7**
Reactor Coolant System Leakage	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**
Maximum leakage	2.020	1.880	2.410	2.350	1.860	1.880	2.160	1.930	0	1.330	1.710	1.830
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	**6.7**	**6.3**	**8.0**	**7.8**	**6.2**	**6.3**	**7.2**	**6.4**	**0**	**4.4**	**5.7**	**6.1**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful opportunities	4.0	76.0	0	15.0	44.0	24.0	0	7.0
Total opportunities	4.0	77.0	0	16.0	44.0	24.0	0	8.0
Indicator value	**97.5%**	**97.8%**	**97.8%**	**97.4%**	**97.8%**	**98.9%**	**98.9%**	**98.3%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Participating Key personnel	72.0	66.0	66.0	73.0	69.0	68.0	63.0	66.0
Total Key personnel	73.0	67.0	67.0	73.0	69.0	68.0	65.0	67.0
Indicator value	**98.6%**	**98.5%**	**98.5%**	**100.0%**	**100.0%**	**100.0%**	**96.9%**	**98.5%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful siren-tests	698	898	799	896	793	798	797	795
Total sirens-tests	700	900	800	900	800	800	800	800
Indicator value	**99.5%**	**99.6%**	**99.7%**	**99.7%**	**99.6%**	**99.6%**	**99.5%**	**99.5%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
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/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: August 6, 2007

Browns Ferry 2

3Q/2007 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2209.0	2160.0	2072.9	2208.0	1950.1	1180.7	1832.1	2124.2
Indicator value	**0.9**	**0.8**	**0.8**	**0**	**0**	**0.9**	**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	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	0	1.0	0	0	0	0	3.0	0
Critical hours	2209.0	2160.0	2072.9	2208.0	1950.1	1180.7	1832.1	2124.2
Indicator value	**0.9**	**1.7**	**0.8**	**0.8**	**0.8**	**0**	**2.9**	**3.0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Scrams with complications					0	0	0	0
Indicator value								**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**3**	**2**	**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	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			-3.30E-08	-3.30E-08	-3.30E-08	-2.80E-08	2.10E-08	2.10E-08
URI (ΔCDF)			-3.10E-07	-3.10E-07	-3.10E-07	-3.10E-07	-4.70E-07	-4.70E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-3.43E-07**	**-3.43E-07**	**-3.43E-07**	**-3.38E-07**	**-4.49E-07**	**-4.49E-07**

Licensee Comments:

3Q/07: Changed PRA Parameter(s).

2Q/07: Changed PRA Parameter(s). 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

1Q/07: Changed PRA Parameter(s).

4Q/06: Changed PRA Parameter(s).

3Q/06: Changed PRA Parameter(s).

2Q/06: Changed PRA Parameter(s). 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

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/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			-9.20E-09	-9.20E-09	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08
URI (ΔCDF)			2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-6.40E-09**	**-6.40E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**

Licensee Comments:

3Q/07: Changed PRA Parameter(s).

2Q/07: Changed PRA Parameter(s). 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

1Q/07: Changed PRA Parameter(s).

4Q/06: Changed PRA Parameter(s).

3Q/06: Changed PRA Parameter(s).

2Q/06: Changed PRA Parameter(s). 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

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/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			-2.00E-08	-2.00E-08	-2.00E-08	-7.00E-09	-8.30E-09	-8.20E-09
URI (ΔCDF)			-4.70E-09	-4.70E-09	-4.60E-09	-4.90E-09	-4.90E-09	-4.90E-09
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-2.47E-08**	**-2.47E-08**	**-2.46E-08**	**-1.19E-08**	**-1.32E-08**	**-1.31E-08**

Licensee Comments:

3Q/07: Changed PRA Parameter(s).

2Q/07: Changed PRA Parameter(s). 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

1Q/07: Changed PRA Parameter(s).

4Q/06: Changed PRA Parameter(s).

3Q/06: Changed PRA Parameter(s).

2Q/06: Changed PRA Parameter(s). 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

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/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			2.50E-07	2.50E-07	2.80E-07	3.30E-07	3.20E-07	3.60E-07
URI (ΔCDF)			-9.70E-08	-9.60E-08	-9.80E-08	-8.40E-08	-8.70E-08	-8.80E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**1.53E-07**	**1.54E-07**	**1.82E-07**	**2.46E-07**	**2.33E-07**	**2.72E-07**

Licensee Comments:

3Q/07: Changed PRA Parameter(s).

2Q/07: Changed PRA Parameter(s). 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

1Q/07: Changed PRA Parameter(s).

4Q/06: Changed PRA Parameter(s).

3Q/06: Changed PRA Parameter(s).

2Q/06: Changed PRA Parameter(s). 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

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/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			1.20E-07	1.30E-07	6.80E-08	1.30E-07	1.30E-07	1.60E-07
URI (ΔCDF)			8.20E-10	2.70E-08	2.10E-08	4.70E-08	2.40E-08	2.40E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**1.21E-07**	**1.57E-07**	**8.90E-08**	**1.77E-07**	**1.54E-07**	**1.84E-07**

Licensee Comments:

3Q/07: Changed PRA Parameter(s).

2Q/07: Changed PRA Parameter(s). 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

1Q/07: Changed PRA Parameter(s).

4Q/06: Changed PRA Parameter(s).

3Q/06: Changed PRA Parameter(s). Corrected the baselilne UA value for Unit 2 CW1 from 1.51E-01 to 1.51E-02. No basis document change - the original value was entered in error. No PI color change.

2Q/06: Changed PRA Parameter(s). 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

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum activity	0.000040	0.000048	0.000040	0.000035	0.000032	0.000038	0.000038	0.000038	0.000044	0.000036	0.000036	0.000034
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	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**
Maximum activity	0.000036	0.000054	0.000045	0.000087	0.000045	N/A	N/A	0.000047	0.000035	0.000034	0.000040	0.000033
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**	**N/A**	**N/A**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum leakage	2.060	2.060	2.340	2.200	2.190	2.220	2.290	2.300	2.000	2.020	1.880	2.410
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	**6.9**	**6.9**	**7.8**	**7.3**	**7.3**	**7.4**	**7.6**	**7.7**	**6.7**	**6.7**	**6.3**	**8.0**
Reactor Coolant System Leakage	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**
Maximum leakage	2.350	1.860	1.880	2.160	1.930	0	1.330	1.710	1.830	1.740	1.820	1.740
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	**7.8**	**6.2**	**6.3**	**7.2**	**6.4**	**0**	**4.4**	**5.7**	**6.1**	**5.8**	**6.1**	**5.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful opportunities	76.0	0	15.0	44.0	24.0	0	7.0	8.0
Total opportunities	77.0	0	16.0	44.0	24.0	0	8.0	8.0
Indicator value	**97.8%**	**97.8%**	**97.4%**	**97.8%**	**98.9%**	**98.9%**	**98.3%**	**98.3%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Participating Key personnel	66.0	66.0	73.0	69.0	68.0	63.0	66.0	66.0
Total Key personnel	67.0	67.0	73.0	69.0	68.0	65.0	67.0	67.0
Indicator value	**98.5%**	**98.5%**	**100.0%**	**100.0%**	**100.0%**	**96.9%**	**98.5%**	**98.5%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful siren-tests	898	799	896	793	798	797	795	798
Total sirens-tests	900	800	900	800	800	800	800	800
Indicator value	**99.6%**	**99.7%**	**99.7%**	**99.6%**	**99.6%**	**99.5%**	**99.5%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
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	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: December 7, 2007

Browns Ferry 2

4Q/2007 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2160.0	2072.9	2208.0	1950.1	1180.7	1832.1	2124.2	2209.0
Indicator value	**0.8**	**0.8**	**0**	**0**	**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	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	1.0	0	0	0	0	3.0	0	0
Critical hours	2160.0	2072.9	2208.0	1950.1	1180.7	1832.1	2124.2	2209.0
Indicator value	**1.7**	**0.8**	**0.8**	**0.8**	**0**	**2.9**	**3.0**	**2.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Scrams with complications				0	0	0	0	0
Indicator value							**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**2**	**1**	**0**	**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	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-3.30E-08	-3.30E-08	-3.30E-08	-2.80E-08	2.10E-08	2.10E-08	2.50E-08
URI (ΔCDF)		-3.10E-07	-3.10E-07	-3.10E-07	-3.10E-07	-4.70E-07	-4.70E-07	-6.20E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-3.43E-07**	**-3.43E-07**	**-3.43E-07**	**-3.38E-07**	**-4.49E-07**	**-4.49E-07**	**-5.95E-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	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-9.20E-09	-9.20E-09	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08
URI (ΔCDF)		2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-6.40E-09**	**-6.40E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**

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	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-2.00E-08	-2.00E-08	-2.00E-08	-7.00E-09	-8.30E-09	-8.20E-09	-1.30E-08
URI (ΔCDF)		-4.20E-08	-4.20E-08	-4.00E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-6.20E-08**	**-6.20E-08**	**-6.00E-08**	**-5.10E-08**	**-5.23E-08**	**-5.22E-08**	**-5.70E-08**

Licensee Comments:

3Q/07: RCIC pump was listed as a motor driven pump when it should be a turbine driven pump. Device record corrected. Reference PER 136362

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

2Q/06: 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

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	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		2.50E-07	2.50E-07	2.80E-07	3.30E-07	3.20E-07	3.60E-07	2.70E-07
URI (ΔCDF)		-9.70E-08	-9.60E-08	-9.80E-08	-8.40E-08	-8.70E-08	-8.80E-08	-8.80E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**1.53E-07**	**1.54E-07**	**1.82E-07**	**2.46E-07**	**2.33E-07**	**2.72E-07**	**1.82E-07**

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	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		1.20E-07	1.30E-07	6.80E-08	1.30E-07	1.30E-07	1.60E-07	1.60E-07
URI (ΔCDF)		8.20E-10	2.70E-08	2.10E-08	4.70E-08	2.40E-08	2.40E-08	2.40E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**1.21E-07**	**1.57E-07**	**8.90E-08**	**1.77E-07**	**1.54E-07**	**1.84E-07**	**1.84E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum activity	0.000035	0.000032	0.000038	0.000038	0.000038	0.000044	0.000036	0.000036	0.000034	0.000036	0.000054	0.000045
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	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**
Maximum activity	0.000087	0.000045	N/A	N/A	0.000047	0.000035	0.000034	0.000040	0.000033	0.000034	0.000042	0.000036
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**	**N/A**	**N/A**	**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	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum leakage	2.200	2.190	2.220	2.290	2.300	2.000	2.020	1.880	2.410	2.350	1.860	1.880
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	**7.3**	**7.3**	**7.4**	**7.6**	**7.7**	**6.7**	**6.7**	**6.3**	**8.0**	**7.8**	**6.2**	**6.3**
Reactor Coolant System Leakage	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**
Maximum leakage	2.160	1.930	0	1.330	1.710	1.830	1.740	1.820	1.740	1.660	1.640	1.610
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	**7.2**	**6.4**	**0**	**4.4**	**5.7**	**6.1**	**5.8**	**6.1**	**5.8**	**5.5**	**5.5**	**5.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful opportunities	0	15.0	44.0	24.0	0	7.0	8.0	55.0
Total opportunities	0	16.0	44.0	24.0	0	8.0	8.0	56.0
Indicator value	**97.8%**	**97.4%**	**97.8%**	**98.9%**	**98.9%**	**98.3%**	**98.3%**	**98.1%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Participating Key personnel	66.0	73.0	69.0	68.0	63.0	66.0	66.0	68.0
Total Key personnel	67.0	73.0	69.0	68.0	65.0	67.0	67.0	68.0
Indicator value	**98.5%**	**100.0%**	**100.0%**	**100.0%**	**96.9%**	**98.5%**	**98.5%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful siren-tests	799	896	793	798	797	795	798	698
Total sirens-tests	800	900	800	800	800	800	800	700
Indicator value	**99.7%**	**99.7%**	**99.6%**	**99.6%**	**99.5%**	**99.5%**	**99.6%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
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	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: February 4, 2008

Browns Ferry 2

1Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2072.9	2208.0	1950.1	1180.7	1832.1	2124.2	2209.0	2183.0
Indicator value	**0.8**	**0**	**0**	**0.9**	**1.0**	**1.0**	**1.0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned power changes	0	0	0	0	3.0	0	0	0
Critical hours	2072.9	2208.0	1950.1	1180.7	1832.1	2124.2	2209.0	2183.0
Indicator value	**0.8**	**0.8**	**0.8**	**0**	**2.9**	**3.0**	**2.9**	**2.5**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Scrams with complications			0	0	0	0	0	0
Indicator value						**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/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**1**	**0**	**0**	**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	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**
UAI (ΔCDF)	-3.30E-08	-3.30E-08	-3.30E-08	-2.80E-08	2.10E-08	2.10E-08	2.50E-08	1.10E-08
URI (ΔCDF)	-3.10E-07	-3.10E-07	-3.10E-07	-3.10E-07	-4.70E-07	-4.70E-07	-6.20E-07	-4.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.43E-07**	**-3.43E-07**	**-3.43E-07**	**-3.38E-07**	**-4.49E-07**	**-4.49E-07**	**-5.95E-07**	**-4.59E-07**

Licensee Comments:

4Q/07: Unlocked to add U1 MSPI PRA numbers to 0A Diesel Generator Device. JAY 2/26/08

3Q/07: Unlocked to add U1 MSPI PRA numbers to 0A Diesel Generator Device. JAY 2/26/08

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 0A Diesel Generator Device. JAY 2/26/08

1Q/07: Unlocked to add U1 MSPI PRA numbers to 0A Diesel Generator Device. JAY 2/26/08

4Q/06: Unlocked to add U1 MSPI PRA numbers to 0A Diesel Generator Device. JAY 2/26/08

3Q/06: Unlocked to add U1 MSPI PRA numbers to 0A Diesel Generator Device. JAY 2/26/08

2Q/06: 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 0A Diesel Generator Device. JAY 2/26/08

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/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-9.20E-09	-9.20E-09	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	3.90E-08
URI (ΔCDF)	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.40E-09**	**-6.40E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**4.18E-08**

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	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-2.00E-08	-2.00E-08	-2.00E-08	-7.00E-09	-8.30E-09	-8.20E-09	-1.30E-08	-1.40E-08
URI (ΔCDF)	-4.20E-08	-4.20E-08	-4.00E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-6.20E-08**	**-6.00E-08**	**-5.10E-08**	**-5.23E-08**	**-5.22E-08**	**-5.70E-08**	**-5.80E-08**

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	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**
UAI (ΔCDF)	2.50E-07	2.50E-07	2.80E-07	3.30E-07	3.20E-07	3.60E-07	2.70E-07	2.70E-07
URI (ΔCDF)	-9.70E-08	-9.60E-08	-9.80E-08	-8.40E-08	-8.70E-08	-8.80E-08	-8.80E-08	-8.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.53E-07**	**1.54E-07**	**1.82E-07**	**2.46E-07**	**2.33E-07**	**2.72E-07**	**1.82E-07**	**1.87E-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

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 127680Unlocked 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

1Q/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

4Q/06: 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

3Q/06: 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/06: 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 127680Unlocked 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

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/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**
UAI (ΔCDF)	1.20E-07	1.30E-07	6.80E-08	1.30E-07	1.30E-07	1.60E-07	1.60E-07	1.60E-07
URI (ΔCDF)	-3.70E-09	5.80E-08	5.20E-08	1.10E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.16E-07**	**1.88E-07**	**1.20E-07**	**2.40E-07**	**2.30E-07**	**2.60E-07**	**2.60E-07**	**2.60E-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 EPIX 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 127680Unlocked 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

1Q/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

4Q/06: 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

3Q/06: Corrected the baselilne UA value for Unit 2 CW1 from 1.51E-01 to 1.51E-02. No basis document change - the original value was entered in error. No PI color change. 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/06: 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 127680Unlocked 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 devices. JAY 4/8/08

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum activity	0.000038	0.000038	0.000044	0.000036	0.000036	0.000034	0.000036	0.000054	0.000045	0.000087	0.000045	N/A
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**	**N/A**

Reactor Coolant System Activity	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum activity	N/A	0.000047	0.000035	0.000034	0.000040	0.000033	0.000034	0.000042	0.000036	0.000083	0.000038	0.000051
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	**N/A**	**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	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	2.290	2.300	2.000	2.020	1.880	2.410	2.350	1.860	1.880	2.160	1.930	0
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	**7.6**	**7.7**	**6.7**	**6.7**	**6.3**	**8.0**	**7.8**	**6.2**	**6.3**	**7.2**	**6.4**	**0**
Reactor Coolant System Leakage	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**
Maximum leakage	1.330	1.710	1.830	1.740	1.820	1.740	1.660	1.640	1.610	1.590	1.590	1.590
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	**4.4**	**5.7**	**6.1**	**5.8**	**6.1**	**5.8**	**5.5**	**5.5**	**5.4**	**5.3**	**5.3**	**5.3**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful opportunities	15.0	44.0	24.0	0	7.0	8.0	55.0	6.0
Total opportunities	16.0	44.0	24.0	0	8.0	8.0	56.0	6.0
Indicator value	**97.4%**	**97.8%**	**98.9%**	**98.9%**	**98.3%**	**98.3%**	**98.1%**	**98.1%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Participating Key personnel	73.0	69.0	68.0	63.0	66.0	66.0	68.0	62.0
Total Key personnel	73.0	69.0	68.0	65.0	67.0	67.0	68.0	64.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**96.9%**	**98.5%**	**98.5%**	**100.0%**	**96.9%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful siren-tests	896	793	798	797	795	798	698	999
Total sirens-tests	900	800	800	800	800	800	700	1000
Indicator value	**99.7%**	**99.6%**	**99.6%**	**99.5%**	**99.5%**	**99.6%**	**99.6%**	**99.7%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
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/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: April 30, 2008

Browns Ferry 2

2Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2208.0	1950.1	1180.7	1832.1	2124.2	2209.0	2183.0	2184.0
Indicator value	**0**	**0**	**0.9**	**1.0**	**1.0**	**1.0**	**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/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned power changes	0	0	0	3.0	0	0	0	0
Critical hours	2208.0	1950.1	1180.7	1832.1	2124.2	2209.0	2183.0	2184.0
Indicator value	**0.8**	**0.8**	**0**	**2.9**	**3.0**	**2.9**	**2.5**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Scrams with complications		0	0	0	0	0	0	0
Indicator value					**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)	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
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

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/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	-3.30E-08	-3.30E-08	-2.80E-08	2.10E-08	2.10E-08	2.50E-08	1.10E-08	1.70E-08
URI (ΔCDF)	-3.10E-07	-3.10E-07	-3.10E-07	-4.70E-07	-4.70E-07	-6.20E-07	-4.70E-07	-4.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.43E-07**	**-3.43E-07**	**-3.38E-07**	**-4.49E-07**	**-4.49E-07**	**-5.95E-07**	**-4.59E-07**	**-4.53E-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	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	-9.20E-09	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	3.90E-08	1.00E-07
URI (ΔCDF)	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.40E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**4.18E-08**	**1.03E-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	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**
UAI (ΔCDF)	-2.00E-08	-2.00E-08	-7.00E-09	-8.30E-09	-8.20E-09	-1.30E-08	-1.40E-08	-2.50E-09
URI (ΔCDF)	-4.20E-08	-4.00E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-6.00E-08**	**-5.10E-08**	**-5.23E-08**	**-5.22E-08**	**-5.70E-08**	**-5.80E-08**	**-4.65E-08**

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	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	2.50E-07	2.80E-07	3.30E-07	3.20E-07	3.60E-07	2.70E-07	2.70E-07	-2.50E-08
URI (ΔCDF)	-9.60E-08	-9.80E-08	-8.40E-08	-8.70E-08	-8.80E-08	-8.80E-08	-8.30E-08	-7.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.54E-07**	**1.82E-07**	**2.46E-07**	**2.33E-07**	**2.72E-07**	**1.82E-07**	**1.87E-07**	**-1.02E-07**

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	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	1.30E-07	6.80E-08	1.30E-07	1.30E-07	1.60E-07	1.60E-07	1.60E-07	1.30E-07
URI (ΔCDF)	5.80E-08	5.20E-08	1.10E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.88E-07**	**1.20E-07**	**2.40E-07**	**2.30E-07**	**2.60E-07**	**2.60E-07**	**2.60E-07**	**2.40E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**
Maximum activity	0.000036	0.000036	0.000034	0.000036	0.000054	0.000045	0.000087	0.000045	N/A	N/A	0.000047	0.000035
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**	**N/A**	**N/A**	**0**	**0**

Reactor Coolant System Activity	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**
Maximum activity	0.000034	0.000040	0.000033	0.000034	0.000042	0.000036	0.000083	0.000038	0.000051	0.000066	0.000034	0.000047
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	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum leakage	2.020	1.880	2.410	2.350	1.860	1.880	2.160	1.930	0	1.330	1.710	1.830
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	**6.7**	**6.3**	**8.0**	**7.8**	**6.2**	**6.3**	**7.2**	**6.4**	**0**	**4.4**	**5.7**	**6.1**
Reactor Coolant System Leakage	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**
Maximum leakage	1.740	1.820	1.740	1.660	1.640	1.610	1.590	1.590	1.590	1.530	1.530	1.560
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	**5.8**	**6.1**	**5.8**	**5.5**	**5.5**	**5.4**	**5.3**	**5.3**	**5.3**	**5.1**	**5.1**	**5.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful opportunities	44.0	24.0	0	7.0	8.0	55.0	6.0	3.0
Total opportunities	44.0	24.0	0	8.0	8.0	56.0	6.0	3.0
Indicator value	**97.8%**	**98.9%**	**98.9%**	**98.3%**	**98.3%**	**98.1%**	**98.1%**	**98.7%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Participating Key personnel	69.0	68.0	63.0	66.0	66.0	68.0	62.0	56.0
Total Key personnel	69.0	68.0	65.0	67.0	67.0	68.0	64.0	61.0
Indicator value	**100.0%**	**100.0%**	**96.9%**	**98.5%**	**98.5%**	**100.0%**	**96.9%**	**91.8%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful siren-tests	793	798	797	795	798	698	999	596
Total sirens-tests	800	800	800	800	800	700	1000	600
Indicator value	**99.6%**	**99.6%**	**99.5%**	**99.5%**	**99.6%**	**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	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
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/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Browns Ferry 2

3Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	1950.1	1180.7	1832.1	2124.2	2209.0	2183.0	2184.0	2100.2
Indicator value	**0**	**0.9**	**1.0**	**1.0**	**1.0**	**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	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned power changes	0	0	3.0	0	0	0	0	1.0
Critical hours	1950.1	1180.7	1832.1	2124.2	2209.0	2183.0	2184.0	2100.2
Indicator value	**0.8**	**0**	**2.9**	**3.0**	**2.9**	**2.5**	**0**	**0.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value				**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)	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
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

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/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	-3.30E-08	-2.80E-08	2.10E-08	2.10E-08	2.50E-08	1.10E-08	1.70E-08	4.90E-08
URI (ΔCDF)	-3.10E-07	-3.10E-07	-4.70E-07	-4.70E-07	-6.20E-07	-4.70E-07	-4.70E-07	-4.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.43E-07**	**-3.38E-07**	**-4.49E-07**	**-4.49E-07**	**-5.95E-07**	**-4.59E-07**	**-4.53E-07**	**-4.21E-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/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	3.90E-08	1.00E-07	1.10E-07
URI (ΔCDF)	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	4.30E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**4.18E-08**	**1.03E-07**	**1.14E-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/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	-2.00E-08	-7.00E-09	-8.30E-09	-8.20E-09	-1.30E-08	-1.40E-08	-2.50E-09	-2.20E-09
URI (ΔCDF)	-4.00E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.00E-08**	**-5.10E-08**	**-5.23E-08**	**-5.22E-08**	**-5.70E-08**	**-5.80E-08**	**-4.65E-08**	**-4.52E-08**

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/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	2.80E-07	3.30E-07	3.20E-07	3.60E-07	2.70E-07	2.70E-07	-2.50E-08	-2.40E-08
URI (ΔCDF)	-9.80E-08	-8.40E-08	-8.70E-08	-8.80E-08	-8.80E-08	-8.30E-08	-7.70E-08	-7.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.82E-07**	**2.46E-07**	**2.33E-07**	**2.72E-07**	**1.82E-07**	**1.87E-07**	**-1.02E-07**	**-1.02E-07**

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/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	6.80E-08	1.30E-07	1.30E-07	1.60E-07	1.60E-07	1.60E-07	1.30E-07	1.30E-07
URI (ΔCDF)	5.20E-08	1.10E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.10E-07	7.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.20E-07**	**2.40E-07**	**2.30E-07**	**2.60E-07**	**2.60E-07**	**2.60E-07**	**2.40E-07**	**2.07E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum activity	0.000036	0.000054	0.000045	0.000087	0.000045	N/A	N/A	0.000047	0.000035	0.000034	0.000040	0.000033
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**	**N/A**	**N/A**	**0**	**0**	**0**	**0**	**0**

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**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**
Maximum leakage	2.350	1.860	1.880	2.160	1.930	0	1.330	1.710	1.830	1.740	1.820	1.740
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	**7.8**	**6.2**	**6.3**	**7.2**	**6.4**	**0**	**4.4**	**5.7**	**6.1**	**5.8**	**6.1**	**5.8**
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**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful opportunities	24.0	0	7.0	8.0	55.0	6.0	3.0	4.0
Total opportunities	24.0	0	8.0	8.0	56.0	6.0	3.0	4.0
Indicator value	**98.9%**	**98.9%**	**98.3%**	**98.3%**	**98.1%**	**98.1%**	**98.7%**	**98.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Participating Key personnel	68.0	63.0	66.0	66.0	68.0	62.0	56.0	63.0
Total Key personnel	68.0	65.0	67.0	67.0	68.0	64.0	61.0	64.0
Indicator value	**100.0%**	**96.9%**	**98.5%**	**98.5%**	**100.0%**	**96.9%**	**91.8%**	**98.4%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful siren-tests	798	797	795	798	698	999	596	994
Total sirens-tests	800	800	800	800	700	1000	600	1000
Indicator value	**99.6%**	**99.5%**	**99.5%**	**99.6%**	**99.6%**	**99.7%**	**99.7%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
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	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
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.

Last Modified: November 26, 2008

Browns Ferry 2

4Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned scrams	1.0	0	0	0	0	0	0	1.0
Critical hours	1180.7	1832.1	2124.2	2209.0	2183.0	2184.0	2100.2	2137.4
Indicator value	**0.9**	**1.0**	**1.0**	**1.0**	**0**	**0**	**0**	**0.8**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned power changes	0	3.0	0	0	0	0	2.0	0
Critical hours	1180.7	1832.1	2124.2	2209.0	2183.0	2184.0	2100.2	2137.4
Indicator value	**0**	**2.9**	**3.0**	**2.9**	**2.5**	**0**	**1.6**	**1.6**

Licensee Comments:

3Q/08: Unlocked to add an unplanned power change on 9/17/08. mwo 1/21/09

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
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

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	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**
UAI (ΔCDF)	-2.80E-08	2.10E-08	2.10E-08	2.50E-08	1.10E-08	1.70E-08	4.90E-08	6.80E-08
URI (ΔCDF)	-3.10E-07	-4.70E-07	-4.70E-07	-6.20E-07	-4.70E-07	-4.70E-07	-4.70E-07	-4.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.38E-07**	**-4.49E-07**	**-4.49E-07**	**-5.95E-07**	**-4.59E-07**	**-4.53E-07**	**-4.21E-07**	**-4.02E-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	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	3.90E-08	1.00E-07	1.10E-07	1.00E-07
URI (ΔCDF)	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	4.30E-09	-3.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**4.18E-08**	**1.03E-07**	**1.14E-07**	**6.10E-08**

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	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-7.00E-09	-8.30E-09	-8.20E-09	-1.30E-08	-1.40E-08	-2.50E-09	-2.20E-09	-1.90E-08
URI (ΔCDF)	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.30E-08	-4.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.10E-08**	**-5.23E-08**	**-5.22E-08**	**-5.70E-08**	**-5.80E-08**	**-4.65E-08**	**-4.52E-08**	**-6.20E-08**

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	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	3.30E-07	3.20E-07	3.60E-07	2.70E-07	2.70E-07	-2.50E-08	-2.40E-08	1.80E-08
URI (ΔCDF)	-8.40E-08	-8.70E-08	-8.80E-08	-8.80E-08	-8.30E-08	-7.70E-08	-7.80E-08	-7.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.46E-07**	**2.33E-07**	**2.72E-07**	**1.82E-07**	**1.87E-07**	**-1.02E-07**	**-1.02E-07**	**-6.00E-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	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	1.30E-07	1.30E-07	1.60E-07	1.60E-07	1.60E-07	1.30E-07	1.30E-07	1.00E-07
URI (ΔCDF)	1.10E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.10E-07	7.70E-08	4.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.40E-07**	**2.30E-07**	**2.60E-07**	**2.60E-07**	**2.60E-07**	**2.40E-07**	**2.07E-07**	**1.47E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**
Maximum activity	0.000087	0.000045	N/A	N/A	0.000047	0.000035	0.000034	0.000040	0.000033	0.000034	0.000042	0.000036
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**	**N/A**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**
Maximum activity	0.000083	0.000038	0.000051	0.000066	0.000034	0.000047	0.000052	0.000062	0.000048	0.000073	0.000074	0.000068
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	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**
Maximum leakage	2.160	1.930	0	1.330	1.710	1.830	1.740	1.820	1.740	1.660	1.640	1.610
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	**7.2**	**6.4**	**0**	**4.4**	**5.7**	**6.1**	**5.8**	**6.1**	**5.8**	**5.5**	**5.5**	**5.4**
Reactor Coolant System Leakage	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**
Maximum leakage	1.590	1.590	1.590	1.530	1.530	1.560	1.540	1.550	1.520	1.610	1.630	1.930
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	**5.3**	**5.3**	**5.3**	**5.1**	**5.1**	**5.2**	**5.1**	**5.2**	**5.1**	**5.4**	**5.4**	**6.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful opportunities	0	7.0	8.0	55.0	6.0	3.0	4.0	48.0
Total opportunities	0	8.0	8.0	56.0	6.0	3.0	4.0	48.0
Indicator value	**98.9%**	**98.3%**	**98.3%**	**98.1%**	**98.1%**	**98.7%**	**98.2%**	**98.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Participating Key personnel	63.0	66.0	66.0	68.0	62.0	56.0	63.0	67.0
Total Key personnel	65.0	67.0	67.0	68.0	64.0	61.0	64.0	67.0
Indicator value	**96.9%**	**98.5%**	**98.5%**	**100.0%**	**96.9%**	**91.8%**	**98.4%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful siren-tests	797	795	798	698	999	596	994	597
Total sirens-tests	800	800	800	700	1000	600	1000	600
Indicator value	**99.5%**	**99.5%**	**99.6%**	**99.6%**	**99.7%**	**99.7%**	**99.6%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
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	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
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.

Last Modified: February 4, 2009

Browns Ferry 2

1Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned scrams	0	0	0	0	0	0	1.0	1.0
Critical hours	1832.1	2124.2	2209.0	2183.0	2184.0	2100.2	2137.4	2041.1
Indicator value	**1.0**	**1.0**	**1.0**	**0**	**0**	**0**	**0.8**	**1.7**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned power changes	3.0	0	0	0	0	2.0	0	0
Critical hours	1832.1	2124.2	2209.0	2183.0	2184.0	2100.2	2137.4	2041.1
Indicator value	**2.9**	**3.0**	**2.9**	**2.5**	**0**	**1.6**	**1.6**	**1.7**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/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

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/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**
UAI (ΔCDF)	2.10E-08	2.10E-08	2.50E-08	1.10E-08	1.70E-08	4.90E-08	6.80E-08	7.60E-08
URI (ΔCDF)	-4.70E-07	-4.70E-07	-6.20E-07	-4.70E-07	-4.70E-07	-4.70E-07	-4.70E-07	-4.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.49E-07**	**-4.49E-07**	**-5.95E-07**	**-4.59E-07**	**-4.53E-07**	**-4.21E-07**	**-4.02E-07**	**-3.84E-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	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	3.90E-08	1.00E-07	1.10E-07	1.00E-07	1.50E-07
URI (ΔCDF)	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	4.30E-09	-3.90E-08	-3.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.20E-09**	**-9.20E-09**	**-9.20E-09**	**4.18E-08**	**1.03E-07**	**1.14E-07**	**6.10E-08**	**1.11E-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	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**
UAI (ΔCDF)	-8.30E-09	-8.20E-09	-1.30E-08	-1.40E-08	-2.50E-09	-2.20E-09	-1.90E-08	-1.90E-08
URI (ΔCDF)	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.30E-08	-4.30E-08	-4.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.23E-08**	**-5.22E-08**	**-5.70E-08**	**-5.80E-08**	**-4.65E-08**	**-4.52E-08**	**-6.20E-08**	**-6.20E-08**

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	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	3.20E-07	3.60E-07	2.70E-07	2.70E-07	-2.50E-08	-2.40E-08	1.80E-08	-2.20E-08
URI (ΔCDF)	-8.70E-08	-8.80E-08	-8.80E-08	-8.30E-08	-7.70E-08	-7.80E-08	-7.80E-08	-7.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.33E-07**	**2.72E-07**	**1.82E-07**	**1.87E-07**	**-1.02E-07**	**-1.02E-07**	**-6.00E-08**	**-1.00E-07**

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	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	1.30E-07	1.60E-07	1.60E-07	1.60E-07	1.30E-07	1.30E-07	1.00E-07	1.50E-07
URI (ΔCDF)	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.10E-07	7.70E-08	4.70E-08	4.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-07**	**2.60E-07**	**2.60E-07**	**2.60E-07**	**2.40E-07**	**2.07E-07**	**1.47E-07**	**1.99E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**
Maximum activity	N/A	0.000047	0.000035	0.000034	0.000040	0.000033	0.000034	0.000042	0.000036	0.000083	0.000038	0.000051
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	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	0.000066	0.000034	0.000047	0.000052	0.000062	0.000048	0.000073	0.000074	0.000068	0.000062	0.000062	0.000068
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	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**
Maximum leakage	1.330	1.710	1.830	1.740	1.820	1.740	1.660	1.640	1.610	1.590	1.590	1.590
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	**4.4**	**5.7**	**6.1**	**5.8**	**6.1**	**5.8**	**5.5**	**5.5**	**5.4**	**5.3**	**5.3**	**5.3**
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	1.530	1.530	1.560	1.540	1.550	1.520	1.610	1.630	1.930	3.090	1.530	1.550
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	**5.1**	**5.1**	**5.2**	**5.1**	**5.2**	**5.1**	**5.4**	**5.4**	**6.4**	**10.3**	**5.1**	**5.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful opportunities	7.0	8.0	55.0	6.0	6.0	4.0	47.0	10.0
Total opportunities	8.0	8.0	56.0	6.0	6.0	4.0	48.0	10.0
Indicator value	**98.3%**	**98.3%**	**98.1%**	**98.1%**	**98.7%**	**98.2%**	**97.8%**	**97.9%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Participating Key personnel	66.0	66.0	68.0	62.0	56.0	63.0	67.0	73.0
Total Key personnel	67.0	67.0	68.0	64.0	61.0	64.0	67.0	73.0
Indicator value	**98.5%**	**98.5%**	**100.0%**	**96.9%**	**91.8%**	**98.4%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful siren-tests	795	798	698	999	596	994	597	893
Total sirens-tests	800	800	700	1000	600	1000	600	900
Indicator value	**99.5%**	**99.6%**	**99.6%**	**99.7%**	**99.7%**	**99.6%**	**99.6%**	**99.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/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
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/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/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.

Last Modified: May 1, 2009

Browns Ferry 2

2Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned scrams	0	0	0	0	0	1.0	1.0	0
Critical hours	2124.2	2209.0	2183.0	2184.0	2100.2	2137.4	2041.1	921.0
Indicator value	**1.0**	**1.0**	**0**	**0**	**0**	**0.8**	**1.7**	**1.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned power changes	0	0	0	0	2.0	0	0	1.0
Critical hours	2124.2	2209.0	2183.0	2184.0	2100.2	2137.4	2041.1	921.0
Indicator value	**3.0**	**2.9**	**2.5**	**0**	**1.6**	**1.6**	**1.7**	**2.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/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

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/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	2.10E-08	2.50E-08	1.10E-08	1.70E-08	4.90E-08	6.80E-08	7.60E-08	7.10E-08
URI (ΔCDF)	-4.70E-07	-6.20E-07	-4.70E-07	-4.70E-07	-4.70E-07	-4.70E-07	-4.60E-07	-4.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.49E-07**	**-5.95E-07**	**-4.59E-07**	**-4.53E-07**	**-4.21E-07**	**-4.02E-07**	**-3.84E-07**	**-3.89E-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	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-1.20E-08	-1.20E-08	3.90E-08	1.00E-07	1.10E-07	1.00E-07	1.50E-07	1.50E-07
URI (ΔCDF)	2.80E-09	2.80E-09	2.80E-09	2.80E-09	4.30E-09	-3.90E-08	-3.90E-08	-3.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.20E-09**	**-9.20E-09**	**4.18E-08**	**1.03E-07**	**1.14E-07**	**6.10E-08**	**1.11E-07**	**1.11E-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	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**
UAI (ΔCDF)	-8.20E-09	-1.30E-08	-1.40E-08	-2.50E-09	-2.20E-09	-1.90E-08	-1.90E-08	-1.90E-08
URI (ΔCDF)	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.30E-08	-4.30E-08	-4.30E-08	-4.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.22E-08**	**-5.70E-08**	**-5.80E-08**	**-4.65E-08**	**-4.52E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**

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	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	3.60E-07	2.70E-07	2.70E-07	-2.50E-08	-2.40E-08	1.80E-08	-2.20E-08	5.10E-08
URI (ΔCDF)	-8.80E-08	-8.80E-08	-8.30E-08	-7.70E-08	-7.80E-08	-7.80E-08	-7.80E-08	-8.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.72E-07**	**1.82E-07**	**1.87E-07**	**-1.02E-07**	**-1.02E-07**	**-6.00E-08**	**-1.00E-07**	**-3.70E-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	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	1.60E-07	1.60E-07	1.60E-07	1.30E-07	1.30E-07	1.00E-07	1.50E-07	1.40E-07
URI (ΔCDF)	1.00E-07	1.00E-07	1.00E-07	1.10E-07	7.70E-08	4.70E-08	4.90E-08	4.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.60E-07**	**2.60E-07**	**2.60E-07**	**2.40E-07**	**2.07E-07**	**1.47E-07**	**1.99E-07**	**1.89E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum activity	0.000034	0.000040	0.000033	0.000034	0.000042	0.000036	0.000083	0.000038	0.000051	0.000066	0.000034	0.000047
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	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.000052	0.000062	0.000048	0.000073	0.000074	0.000068	0.000062	0.000062	0.000068	0.000071	N/A	N/A
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**	**N/A**	**N/A**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**
Maximum leakage	1.740	1.820	1.740	1.660	1.640	1.610	1.590	1.590	1.590	1.530	1.530	1.560
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	**5.8**	**6.1**	**5.8**	**5.5**	**5.5**	**5.4**	**5.3**	**5.3**	**5.3**	**5.1**	**5.1**	**5.2**
Reactor Coolant System Leakage	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**
Maximum leakage	1.540	1.550	1.520	1.610	1.630	1.930	3.090	1.530	1.550	1.560	0	2.940
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	**5.1**	**5.2**	**5.1**	**5.4**	**5.4**	**6.4**	**10.3**	**5.1**	**5.2**	**5.2**	**0**	**9.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful opportunities	8.0	55.0	6.0	6.0	4.0	47.0	10.0	4.0
Total opportunities	8.0	56.0	6.0	6.0	4.0	48.0	10.0	4.0
Indicator value	**98.3%**	**98.1%**	**98.1%**	**98.7%**	**98.2%**	**97.8%**	**97.9%**	**98.6%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Participating Key personnel	66.0	68.0	62.0	56.0	63.0	67.0	73.0	66.0
Total Key personnel	67.0	68.0	64.0	61.0	64.0	67.0	73.0	68.0
Indicator value	**98.5%**	**100.0%**	**96.9%**	**91.8%**	**98.4%**	**100.0%**	**100.0%**	**97.1%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful siren-tests	798	698	999	596	994	597	993	600
Total sirens-tests	800	700	1000	600	1000	600	1000	600
Indicator value	**99.6%**	**99.6%**	**99.7%**	**99.7%**	**99.6%**	**99.6%**	**99.4%**	**99.5%**

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	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/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
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/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/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.

Last Modified: July 22, 2009

Browns Ferry 2

3Q/2009 Performance Indicators

Licensee's General Comments: none

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

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

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 (ΔCDF)	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 (ΔCDF)	-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 (ΔCDF)	-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 (ΔCDF)	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 (ΔCDF)	-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 (ΔCDF)	-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 (ΔCDF)	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 (ΔCDF)	-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 EPIX 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 127680Unlocked 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

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
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	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.

Last Modified: November 30, 2009

Browns Ferry 2

4Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned scrams	0	0	0	1.0	1.0	0	1.0	0
Critical hours	2183.0	2184.0	2100.2	2137.4	2041.1	921.0	2183.4	2154.0
Indicator value	**0**	**0**	**0**	**0.8**	**1.7**	**1.9**	**2.9**	**1.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	0	0	2.0	0	0	1.0	0	0
Critical hours	2183.0	2184.0	2100.2	2137.4	2041.1	921.0	2183.4	2154.0
Indicator value	**2.5**	**0**	**1.6**	**1.6**	**1.7**	**2.9**	**1.0**	**1.0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

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	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	1.10E-08	1.70E-08	4.90E-08	6.80E-08	7.60E-08	7.10E-08	9.90E-08	1.10E-07
URI (ΔCDF)	-4.70E-07	-4.70E-07	-4.70E-07	-4.70E-07	-4.60E-07	-4.60E-07	-4.60E-07	-4.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.59E-07**	**-4.53E-07**	**-4.21E-07**	**-4.02E-07**	**-3.84E-07**	**-3.89E-07**	**-3.61E-07**	**-3.50E-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	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	3.90E-08	1.00E-07	1.10E-07	1.00E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07
URI (ΔCDF)	2.80E-09	2.80E-09	4.30E-09	-3.90E-08	-3.90E-08	-3.90E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.18E-08**	**1.03E-07**	**1.14E-07**	**6.10E-08**	**1.11E-07**	**1.11E-07**	**1.10E-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	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	-1.40E-08	-2.50E-09	-2.20E-09	-1.90E-08	-1.90E-08	-1.90E-08	2.30E-07	2.30E-07
URI (ΔCDF)	-4.40E-08	-4.40E-08	-4.30E-08	-4.30E-08	-4.30E-08	-4.30E-08	9.70E-08	9.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.80E-08**	**-4.65E-08**	**-4.52E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**3.27E-07**	**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	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	2.70E-07	-2.50E-08	-2.40E-08	1.80E-08	-2.20E-08	5.10E-08	1.60E-07	1.40E-07
URI (ΔCDF)	-8.30E-08	-7.70E-08	-7.80E-08	-7.80E-08	-7.80E-08	-8.80E-08	-9.10E-08	-8.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.87E-07**	**-1.02E-07**	**-1.02E-07**	**-6.00E-08**	**-1.00E-07**	**-3.70E-08**	**6.90E-08**	**5.10E-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	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	1.60E-07	1.30E-07	1.30E-07	1.00E-07	1.50E-07	1.40E-07	1.40E-07	1.40E-07
URI (ΔCDF)	1.30E-07	1.40E-07	1.10E-07	7.90E-08	8.10E-08	8.10E-08	1.00E-08	1.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.90E-07**	**2.70E-07**	**2.40E-07**	**1.79E-07**	**2.31E-07**	**2.21E-07**	**1.50E-07**	**1.50E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**
Maximum activity	0.000083	0.000038	0.000051	0.000066	0.000034	0.000047	0.000052	0.000062	0.000048	0.000073	0.000074	0.000068
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	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**
Maximum activity	0.000062	0.000062	0.000068	0.000071	N/A	N/A	0.000091	0.000066	0.000059	0.000074	0.000079	0.000079
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**	**N/A**	**N/A**	**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	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**
Maximum leakage	1.590	1.590	1.590	1.530	1.530	1.560	1.540	1.550	1.520	1.610	1.630	1.930
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	**5.3**	**5.3**	**5.3**	**5.1**	**5.1**	**5.2**	**5.1**	**5.2**	**5.1**	**5.4**	**5.4**	**6.4**
Reactor Coolant System Leakage	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**
Maximum leakage	3.090	1.530	1.550	1.560	0	2.940	1.730	1.760	1.660	1.460	1.540	1.560
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	**10.3**	**5.1**	**5.2**	**5.2**	**0**	**9.8**	**5.8**	**5.9**	**5.5**	**4.9**	**5.1**	**5.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

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

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	62.0	56.0	63.0	67.0	73.0	66.0	64.0	69.0
Total Key personnel	64.0	61.0	64.0	67.0	73.0	68.0	66.0	69.0
Indicator value	**96.9%**	**91.8%**	**98.4%**	**100.0%**	**100.0%**	**97.1%**	**97.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

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

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Last Modified: January 22, 2010

Browns Ferry 2

1Q/2010 Performance Indicators

Licensee's General Comments: none

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	1.0	1.0	0	1.0	0	0
Critical hours	2184.0	2100.2	2137.4	2041.1	921.0	2183.4	2154.0	2038.9
Indicator value	**0**	**0**	**0.8**	**1.7**	**1.9**	**2.9**	**1.9**	**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	2.0	0	0	1.0	0	0	1.0
Critical hours	2184.0	2100.2	2137.4	2041.1	921.0	2183.4	2154.0	2038.9
Indicator value	**0**	**1.6**	**1.6**	**1.7**	**2.9**	**1.0**	**1.0**	**1.9**

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	0	0	0	0	1	1
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**2**

Licensee Comments:

1Q/10: LER 50-260/2009-009 Inadvertent isolation of the HPCI system during testing activities. PER 208627.

4Q/09: LER 50-259/2009-005 (Units 1, 2, 3) - CAS - Appx R Event

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 (ΔCDF)	1.70E-08	4.90E-08	6.80E-08	7.60E-08	7.10E-08	9.90E-08	1.10E-07	7.87E-08
URI (ΔCDF)	-4.70E-07	-4.70E-07	-4.70E-07	-4.60E-07	-4.60E-07	-4.60E-07	-4.60E-07	-3.19E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.53E-07**	**-4.21E-07**	**-4.02E-07**	**-3.84E-07**	**-3.89E-07**	**-3.61E-07**	**-3.50E-07**	**-2.40E-07**

Licensee Comments:

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

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 (ΔCDF)	1.00E-07	1.10E-07	1.00E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	6.56E-07
URI (ΔCDF)	2.80E-09	4.30E-09	-3.90E-08	-3.90E-08	-3.90E-08	-4.00E-08	-4.00E-08	-1.86E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.03E-07**	**1.14E-07**	**6.10E-08**	**1.11E-07**	**1.11E-07**	**1.10E-07**	**1.10E-07**	**4.70E-07**

Licensee Comments:

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

2Q/06: 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 on 4/13/2010 to remove 2-FCV-073-0030 from MSPI Scope in accordance with PRA model revision effective December 2009.

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 (ΔCDF)	-2.50E-09	-2.20E-09	-1.90E-08	-1.90E-08	-1.90E-08	2.30E-07	2.30E-07	2.79E-07
URI (ΔCDF)	-4.40E-08	-4.30E-08	-4.30E-08	-4.30E-08	-4.30E-08	9.70E-08	9.70E-08	1.45E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.65E-08**	**-4.52E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**3.27E-07**	**3.27E-07**	**4.20E-07**

Licensee Comments:

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

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 (ΔCDF)	-2.50E-08	-2.40E-08	1.80E-08	-2.20E-08	5.10E-08	1.60E-07	1.40E-07	1.17E-08
URI (ΔCDF)	-7.70E-08	-7.80E-08	-7.80E-08	-7.80E-08	-8.80E-08	-9.10E-08	-8.90E-08	1.34E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.02E-07**	**-1.02E-07**	**-6.00E-08**	**-1.00E-07**	**-3.70E-08**	**6.90E-08**	**5.10E-08**	**2.50E-08**

Licensee Comments:

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

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)	1.30E-07	1.30E-07	1.00E-07	1.50E-07	1.40E-07	1.40E-07	1.40E-07	1.75E-08
URI (ΔCDF)	1.40E-07	1.10E-07	7.90E-08	8.10E-08	8.10E-08	1.00E-08	1.00E-08	5.73E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.70E-07**	**2.40E-07**	**1.79E-07**	**2.31E-07**	**2.21E-07**	**1.50E-07**	**1.50E-07**	**7.50E-08**

Licensee Comments:

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

2Q/06: 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 127680Unlocked 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 devices. JAY /8/08 Un

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	0.000066	0.000034	0.000047	0.000052	0.000062	0.000048	0.000073	0.000074	0.000068	0.000062	0.000062	0.000068
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	**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	0.000071	N/A	N/A	0.000091	0.000066	0.000059	0.000074	0.000079	0.000079	0.000078	0.000104	0.000084
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**	**N/A**	**N/A**	**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	1.530	1.530	1.560	1.540	1.550	1.520	1.610	1.630	1.930	3.090	1.530	1.550
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	**5.1**	**5.1**	**5.2**	**5.1**	**5.2**	**5.1**	**5.4**	**5.4**	**6.4**	**10.3**	**5.1**	**5.2**
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	1.560	0	2.940	1.730	1.760	1.660	1.460	1.540	1.560	1.480	1.370	1.360
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	**5.2**	**0**	**9.8**	**5.8**	**5.9**	**5.5**	**4.9**	**5.1**	**5.2**	**4.9**	**4.6**	**4.5**

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

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.

Last Modified: April 26, 2010

Browns Ferry 2

2Q/2010 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned scrams	0	1.0	1.0	0	1.0	0	0	1.0
Critical hours	2100.2	2137.4	2041.1	921.0	2183.4	2154.0	2038.9	2137.6
Indicator value	**0**	**0.8**	**1.7**	**1.9**	**2.9**	**1.9**	**1.0**	**1.6**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	2.0	0	0	1.0	0	0	1.0	0
Critical hours	2100.2	2137.4	2041.1	921.0	2183.4	2154.0	2038.9	2137.6
Indicator value	**1.6**	**1.6**	**1.7**	**2.9**	**1.0**	**1.0**	**1.9**	**0.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/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)	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Safety System Functional Failures	0	0	0	0	0	1	1	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**1**	**2**	**2**

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/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	4.90E-08	6.80E-08	7.60E-08	7.10E-08	9.90E-08	1.10E-07	7.96E-08	1.00E-07
URI (ΔCDF)	-4.70E-07	-4.70E-07	-4.60E-07	-4.60E-07	-4.60E-07	-4.60E-07	-3.19E-07	-3.19E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.21E-07**	**-4.02E-07**	**-3.84E-07**	**-3.89E-07**	**-3.61E-07**	**-3.50E-07**	**-2.40E-07**	**-2.20E-07**

Licensee Comments:

1Q/10: Changed PRA Parameters in accordance with December 2009 PRA Revision.

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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	1.10E-07	1.00E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	6.56E-07	6.76E-07
URI (ΔCDF)	4.30E-09	-3.90E-08	-3.90E-08	-3.90E-08	-4.00E-08	-4.00E-08	-1.86E-07	-1.91E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.14E-07**	**6.10E-08**	**1.11E-07**	**1.11E-07**	**1.10E-07**	**1.10E-07**	**4.70E-07**	**4.90E-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	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	-2.20E-09	-1.90E-08	-1.90E-08	-1.90E-08	2.30E-07	2.30E-07	2.79E-07	2.75E-07
URI (ΔCDF)	-4.30E-08	-4.30E-08	-4.30E-08	-4.30E-08	9.70E-08	9.70E-08	1.45E-07	1.34E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.52E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**3.27E-07**	**3.27E-07**	**4.20E-07**	**4.10E-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	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	-2.40E-08	1.80E-08	-2.20E-08	5.10E-08	1.60E-07	1.40E-07	1.17E-08	1.19E-08
URI (ΔCDF)	-7.80E-08	-7.80E-08	-7.80E-08	-8.80E-08	-9.10E-08	-8.90E-08	1.34E-08	8.04E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.02E-07**	**-6.00E-08**	**-1.00E-07**	**-3.70E-08**	**6.90E-08**	**5.10E-08**	**2.50E-08**	**2.00E-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	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	1.30E-07	1.00E-07	1.50E-07	1.40E-07	1.40E-07	1.40E-07	1.75E-08	1.71E-08
URI (ΔCDF)	1.10E-07	7.90E-08	8.10E-08	8.10E-08	1.00E-08	1.00E-08	5.73E-08	5.73E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.40E-07**	**1.79E-07**	**2.31E-07**	**2.21E-07**	**1.50E-07**	**1.50E-07**	**7.50E-08**	**7.40E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**
Maximum activity	0.000052	0.000062	0.000048	0.000073	0.000074	0.000068	0.000062	0.000062	0.000068	0.000071	N/A	N/A
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**	**N/A**	**N/A**

Reactor Coolant System Activity	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**
Maximum activity	0.000091	0.000066	0.000059	0.000074	0.000079	0.000079	0.000078	0.000104	0.000084	0.000134	0.000078	0.000072
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	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**
Maximum leakage	1.540	1.550	1.520	1.610	1.630	1.930	3.090	1.530	1.550	1.560	0	2.940
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	**5.1**	**5.2**	**5.1**	**5.4**	**5.4**	**6.4**	**10.3**	**5.1**	**5.2**	**5.2**	**0**	**9.8**
Reactor Coolant System Leakage	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**
Maximum leakage	1.730	1.760	1.660	1.460	1.540	1.560	1.480	1.370	1.360	1.450	1.340	1.380
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	**5.8**	**5.9**	**5.5**	**4.9**	**5.1**	**5.2**	**4.9**	**4.6**	**4.5**	**4.8**	**4.5**	**4.6**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

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

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

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

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	994	597	994	600	897	698	897	693
Total sirens-tests	1000	600	1000	600	900	700	900	700
Indicator value	**99.6%**	**99.6%**	**99.4%**	**99.5%**	**99.6%**	**99.7%**	**99.7%**	**99.5%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Last Modified: July 26, 2010

Browns Ferry 2

3Q/2010 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned scrams	1.0	1.0	0	1.0	0	0	1.0	0
Critical hours	2137.4	2041.1	921.0	2183.4	2154.0	2038.9	2137.6	2208.0
Indicator value	**0.8**	**1.7**	**1.9**	**2.9**	**1.9**	**1.0**	**1.6**	**0.8**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	0	1.0	0	0	1.0	0	0
Critical hours	2137.4	2041.1	921.0	2183.4	2154.0	2038.9	2137.6	2208.0
Indicator value	**1.6**	**1.7**	**2.9**	**1.0**	**1.0**	**1.9**	**0.8**	**0.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/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)	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Safety System Functional Failures	0	0	0	0	1	1	0	2
Indicator value	**0**	**0**	**0**	**0**	**1**	**2**	**2**	**4**

Licensee Comments:

3Q/10: LER 260/2010-004-00 - HPCI Isolation During Time Delay Relay Calibration LER 260/2010-005-00 - HPCI Isolation During Performance of HPCI Steam Supply Low Pressure Functional Test

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/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	6.80E-08	7.60E-08	7.10E-08	9.90E-08	1.10E-07	7.96E-08	1.00E-07	1.16E-07
URI (ΔCDF)	-4.70E-07	-4.60E-07	-4.60E-07	-4.60E-07	-4.60E-07	-3.19E-07	-2.12E-07	-2.12E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.02E-07**	**-3.84E-07**	**-3.89E-07**	**-3.61E-07**	**-3.50E-07**	**-2.40E-07**	**-1.10E-07**	**-9.60E-08**

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/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	1.00E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	6.56E-07	6.76E-07	7.36E-07
URI (ΔCDF)	-3.90E-08	-3.90E-08	-3.90E-08	-4.00E-08	-4.00E-08	-1.86E-07	-1.91E-07	-1.92E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**6.10E-08**	**1.11E-07**	**1.11E-07**	**1.10E-07**	**1.10E-07**	**4.70E-07**	**4.90E-07**	**5.40E-07**

Licensee Comments:

3Q/10: HPCI and RCIC operational demands changed to estimates from actuals for all 3 units.

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/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	-1.90E-08	-1.90E-08	-1.90E-08	2.30E-07	2.30E-07	2.79E-07	2.75E-07	2.74E-07
URI (ΔCDF)	-4.30E-08	-4.30E-08	-4.30E-08	9.70E-08	9.70E-08	1.45E-07	1.34E-07	1.33E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**3.27E-07**	**3.27E-07**	**4.20E-07**	**4.10E-07**	**4.10E-07**

Licensee Comments:

3Q/10: HPCI and RCIC operational demands changed to estimates from actuals for all 3 units.

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/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	1.80E-08	-2.20E-08	5.10E-08	1.60E-07	1.40E-07	1.17E-08	1.15E-08	9.81E-09
URI (ΔCDF)	-7.80E-08	-7.80E-08	-8.80E-08	-9.10E-08	-8.90E-08	1.34E-08	8.04E-09	1.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.00E-08**	**-1.00E-07**	**-3.70E-08**	**6.90E-08**	**5.10E-08**	**2.50E-08**	**2.00E-08**	**2.10E-08**

Licensee Comments:

3Q/10: RHR operational demands and test demands changed to estimates from actuals for all 3 units.

2Q/10: Unpl UA for DW Spray voiding removed based on FE 235900. Reference SR 261596.

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/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	1.00E-07	1.50E-07	1.40E-07	1.40E-07	1.40E-07	1.75E-08	1.71E-08	1.37E-08
URI (ΔCDF)	7.90E-08	8.10E-08	8.10E-08	1.00E-08	1.00E-08	5.73E-08	5.73E-08	4.82E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.79E-07**	**2.31E-07**	**2.21E-07**	**1.50E-07**	**1.50E-07**	**7.50E-08**	**7.40E-08**	**6.20E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

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**

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	0.000074	0.000079	0.000079	0.000078	0.000104	0.000084	0.000134	0.000078	0.000072	0.000039	0.000037	0.000137
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	**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**
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	1.460	1.540	1.560	1.480	1.370	1.360	1.450	1.340	1.380	1.510	1.370	1.310
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	**4.9**	**5.1**	**5.2**	**4.9**	**4.6**	**4.5**	**4.8**	**4.5**	**4.6**	**5.0**	**4.6**	**4.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful opportunities	47.0	10.0	4.0	8.0	71.0	5.0	8.0	50.0
Total opportunities	48.0	10.0	4.0	8.0	72.0	6.0	8.0	50.0
Indicator value	**97.8%**	**97.9%**	**98.6%**	**98.6%**	**98.7%**	**98.1%**	**98.1%**	**98.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Participating Key personnel	67.0	73.0	66.0	64.0	69.0	72.0	73.0	73.0
Total Key personnel	67.0	73.0	68.0	66.0	69.0	72.0	73.0	73.0
Indicator value	**100.0%**	**100.0%**	**97.1%**	**97.0%**	**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/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful siren-tests	597	994	600	897	698	897	693	898
Total sirens-tests	600	1000	600	900	700	900	700	900
Indicator value	**99.6%**	**99.4%**	**99.5%**	**99.6%**	**99.7%**	**99.7%**	**99.5%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
High radiation area occurrences	0	0	0	0	0	0	0	1
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**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/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.

Last Modified: October 25, 2010

Browns Ferry 2

4Q/2010 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned scrams	1.0	0	1.0	0	0	1.0	0	0
Critical hours	2041.1	921.0	2183.4	2154.0	2038.9	2137.6	2208.0	2209.0
Indicator value	**1.7**	**1.9**	**2.9**	**1.9**	**1.0**	**1.6**	**0.8**	**0.8**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	0	1.0	0	0	1.0	0	0	0
Critical hours	2041.1	921.0	2183.4	2154.0	2038.9	2137.6	2208.0	2209.0
Indicator value	**1.7**	**2.9**	**1.0**	**1.0**	**1.9**	**0.8**	**0.8**	**0.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/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)	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Safety System Functional Failures	0	0	0	1	1	0	2	1
Indicator value	**0**	**0**	**0**	**1**	**2**	**2**	**4**	**4**

Licensee Comments:

4Q/10: LER 259/2010-001-00 (Units 1, 2, 3) - Unit 1, 2, and 3 Appendix R Safe Shutdown Instruction Procedures Contain Incorrect Operator Manual Actions

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	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	7.60E-08	7.10E-08	9.90E-08	1.10E-07	7.96E-08	1.00E-07	1.16E-07	8.10E-08
URI (ΔCDF)	-4.60E-07	-4.60E-07	-4.60E-07	-4.60E-07	-3.19E-07	-2.12E-07	-2.12E-07	-1.67E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.84E-07**	**-3.89E-07**	**-3.61E-07**	**-3.50E-07**	**-2.40E-07**	**-1.10E-07**	**-9.60E-08**	**-8.60E-08**

Licensee Comments:

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

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	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	1.50E-07	6.56E-07	6.76E-07	7.36E-07	5.43E-07
URI (ΔCDF)	-3.90E-08	-3.90E-08	-4.00E-08	-4.00E-08	-1.86E-07	-1.91E-07	-1.92E-07	-1.25E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.11E-07**	**1.11E-07**	**1.10E-07**	**1.10E-07**	**4.70E-07**	**4.90E-07**	**5.40E-07**	**4.20E-07**

Licensee Comments:

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

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	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-1.90E-08	-1.90E-08	2.30E-07	2.30E-07	2.79E-07	2.75E-07	2.74E-07	1.24E-07
URI (ΔCDF)	-4.30E-08	-4.30E-08	9.70E-08	9.70E-08	1.45E-07	1.34E-07	1.33E-07	1.06E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-6.20E-08**	**3.27E-07**	**3.27E-07**	**4.20E-07**	**4.10E-07**	**4.10E-07**	**2.30E-07**

Licensee Comments:

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

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	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-2.20E-08	5.10E-08	1.60E-07	1.40E-07	1.17E-08	1.15E-08	9.81E-09	1.87E-09
URI (ΔCDF)	-7.80E-08	-8.80E-08	-9.10E-08	-8.90E-08	1.34E-08	8.04E-09	1.12E-08	3.96E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-07**	**-3.70E-08**	**6.90E-08**	**5.10E-08**	**2.50E-08**	**2.00E-08**	**2.10E-08**	**5.80E-09**

Licensee Comments:

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

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	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	1.50E-07	1.40E-07	1.40E-07	1.40E-07	1.75E-08	1.71E-08	1.37E-08	3.52E-10
URI (ΔCDF)	8.10E-08	8.10E-08	1.00E-08	1.00E-08	5.73E-08	5.73E-08	4.82E-08	4.15E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.31E-07**	**2.21E-07**	**1.50E-07**	**1.50E-07**	**7.50E-08**	**7.40E-08**	**6.20E-08**	**4.20E-08**

Licensee Comments:

4Q/10: In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010. In January 2011, an error was identified in BFN PRA model rev 2. This error affects the FVUAP terms for the north and south EECW headers. Service Request 311078 has been initiated to address this error.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**
Maximum activity	0.000062	0.000062	0.000068	0.000071	N/A	N/A	0.000091	0.000066	0.000059	0.000074	0.000079	0.000079
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**	**N/A**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum activity	0.000078	0.000104	0.000084	0.000134	0.000078	0.000072	0.000039	0.000037	0.000137	0.000091	0.000116	0.000082
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	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**
Maximum leakage	3.090	1.530	1.550	1.560	0	2.940	1.730	1.760	1.660	1.460	1.540	1.560
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	**10.3**	**5.1**	**5.2**	**5.2**	**0**	**9.8**	**5.8**	**5.9**	**5.5**	**4.9**	**5.1**	**5.2**
Reactor Coolant System Leakage	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum leakage	1.480	1.370	1.360	1.450	1.340	1.380	1.510	1.370	1.310	1.430	1.450	1.370
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	**4.9**	**4.6**	**4.5**	**4.8**	**4.5**	**4.6**	**5.0**	**4.6**	**4.4**	**4.8**	**4.8**	**4.6**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	10.0	4.0	8.0	71.0	5.0	8.0	50.0	39.0
Total opportunities	10.0	4.0	8.0	72.0	6.0	8.0	50.0	40.0
Indicator value	**97.9%**	**98.6%**	**98.6%**	**98.7%**	**98.1%**	**98.1%**	**98.5%**	**98.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	73.0	66.0	64.0	69.0	72.0	73.0	73.0	74.0
Total Key personnel	73.0	68.0	66.0	69.0	72.0	73.0	73.0	74.0
Indicator value	**100.0%**	**97.1%**	**97.0%**	**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	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	994	600	897	698	897	693	898	699
Total sirens-tests	1000	600	900	700	900	700	900	700
Indicator value	**99.4%**	**99.5%**	**99.6%**	**99.7%**	**99.7%**	**99.5%**	**99.6%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
High radiation area occurrences	0	0	0	0	0	0	1	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**	**1**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Last Modified: January 24, 2011

Browns Ferry 2

1Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned scrams	0	1.0	0	0	1.0	0	0	0
Critical hours	921.0	2183.4	2154.0	2038.9	2137.6	2208.0	2209.0	1344.0
Indicator value	**1.9**	**2.9**	**1.9**	**1.0**	**1.6**	**0.8**	**0.8**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	1.0	0	0	1.0	0	0	0	0
Critical hours	921.0	2183.4	2154.0	2038.9	2137.6	2208.0	2209.0	1344.0
Indicator value	**2.9**	**1.0**	**1.0**	**1.9**	**0.8**	**0.8**	**0.8**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
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/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Safety System Functional Failures	0	0	1	1	0	2	1	0
Indicator value	**0**	**0**	**1**	**2**	**2**	**4**	**4**	**3**

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	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	7.10E-08	9.90E-08	1.10E-07	7.96E-08	1.00E-07	1.16E-07	8.10E-08	6.79E-08
URI (ΔCDF)	-4.60E-07	-4.60E-07	-4.60E-07	-3.19E-07	-2.12E-07	-2.12E-07	-1.67E-07	-2.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.89E-07**	**-3.61E-07**	**-3.50E-07**	**-2.40E-07**	**-1.10E-07**	**-9.60E-08**	**-8.60E-08**	**-1.80E-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	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	6.56E-07	6.76E-07	7.36E-07	5.43E-07	3.51E-07
URI (ΔCDF)	-3.90E-08	-4.00E-08	-4.00E-08	-1.86E-07	-1.91E-07	-1.92E-07	-1.25E-07	-1.25E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.11E-07**	**1.10E-07**	**1.10E-07**	**4.70E-07**	**4.90E-07**	**5.40E-07**	**4.20E-07**	**2.30E-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	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	-1.90E-08	2.30E-07	2.30E-07	2.79E-07	2.75E-07	2.74E-07	1.24E-07	1.29E-07
URI (ΔCDF)	-4.30E-08	9.70E-08	9.70E-08	1.45E-07	1.34E-07	1.33E-07	1.06E-07	1.05E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**3.27E-07**	**3.27E-07**	**4.20E-07**	**4.10E-07**	**4.10E-07**	**2.30E-07**	**2.30E-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	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	5.10E-08	1.60E-07	1.40E-07	1.17E-08	1.15E-08	9.81E-09	1.87E-09	2.68E-09
URI (ΔCDF)	-8.80E-08	-9.10E-08	-8.90E-08	1.34E-08	8.04E-09	1.12E-08	3.96E-09	2.67E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.70E-08**	**6.90E-08**	**5.10E-08**	**2.50E-08**	**2.00E-08**	**2.10E-08**	**5.80E-09**	**5.40E-09**

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	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	1.40E-07	1.40E-07	1.40E-07	1.75E-08	1.71E-08	1.37E-08	3.52E-10	4.12E-10
URI (ΔCDF)	8.10E-08	1.00E-08	1.00E-08	5.73E-08	5.73E-08	4.82E-08	4.15E-08	4.15E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.21E-07**	**1.50E-07**	**1.50E-07**	**7.50E-08**	**7.40E-08**	**6.20E-08**	**4.20E-08**	**4.20E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

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	0.000071	N/A	N/A	0.000091	0.000066	0.000059	0.000074	0.000079	0.000079	0.000078	0.000104	0.000084
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**	**N/A**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum activity	0.000134	0.000078	0.000072	0.000039	0.000037	0.000137	0.000091	0.000116	0.000082	0.000084	0.000104	N/A
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**	**N/A**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

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	1.560	0	2.940	1.730	1.760	1.660	1.460	1.540	1.560	1.550	1.470	1.470
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	**5.2**	**0**	**9.8**	**5.8**	**5.9**	**5.5**	**4.9**	**5.1**	**5.2**	**5.2**	**4.9**	**4.9**
Reactor Coolant System Leakage	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum leakage	1.630	1.580	1.700	1.820	2.210	2.260	2.560	2.790	2.850	3.000	3.020	N/A
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**	**5.3**	**5.7**	**6.1**	**7.4**	**7.5**	**8.5**	**9.3**	**9.5**	**10.0**	**10.1**	**N/A**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful opportunities	4.0	8.0	71.0	5.0	8.0	50.0	39.0	25.0
Total opportunities	4.0	8.0	72.0	6.0	8.0	50.0	40.0	26.0
Indicator value	**98.6%**	**98.6%**	**98.7%**	**98.1%**	**98.1%**	**98.5%**	**98.5%**	**98.1%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Participating Key personnel	66.0	64.0	69.0	72.0	73.0	73.0	74.0	76.0
Total Key personnel	68.0	66.0	69.0	72.0	73.0	73.0	74.0	77.0
Indicator value	**97.1%**	**97.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.7%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	600	897	698	897	693	898	699	700
Total sirens-tests	600	900	700	900	700	900	700	700
Indicator value	**99.5%**	**99.6%**	**99.7%**	**99.7%**	**99.5%**	**99.6%**	**99.6%**	**99.7%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
High radiation area occurrences	0	0	0	0	0	1	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**	**1**	**1**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Last Modified: May 4, 2011

Browns Ferry 2

2Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned scrams	1.0	0	0	1.0	0	0	0	1.0
Critical hours	2183.4	2154.0	2038.9	2137.6	2208.0	2209.0	1344.0	1438.2
Indicator value	**2.9**	**1.9**	**1.0**	**1.6**	**0.8**	**0.8**	**0.9**	**1.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	0	0	1.0	0	0	0	0	1.0
Critical hours	2183.4	2154.0	2038.9	2137.6	2208.0	2209.0	1344.0	1438.2
Indicator value	**1.0**	**1.0**	**1.9**	**0.8**	**0.8**	**0.8**	**0**	**1.0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
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)	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Safety System Functional Failures	0	1	1	0	2	1	0	1
Indicator value	**0**	**1**	**2**	**2**	**4**	**4**	**3**	**4**

Licensee Comments:

2Q/11: LER 259/2011-002-00, Loss of Safety Function (SDC) Resulting from Loss of Power from C EDG Due to Oil Leak

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/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	9.90E-08	1.10E-07	7.96E-08	1.00E-07	1.16E-07	8.10E-08	6.79E-08	7.45E-08
URI (ΔCDF)	-4.60E-07	-4.60E-07	-3.19E-07	-2.12E-07	-2.12E-07	-1.67E-07	-2.52E-07	5.91E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.61E-07**	**-3.50E-07**	**-2.40E-07**	**-1.10E-07**	**-9.60E-08**	**-8.60E-08**	**-1.80E-07**	**6.70E-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	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	1.50E-07	1.50E-07	6.56E-07	6.76E-07	7.36E-07	5.43E-07	3.51E-07	1.27E-07
URI (ΔCDF)	-4.00E-08	-4.00E-08	-1.86E-07	-1.91E-07	-1.92E-07	-1.25E-07	-1.25E-07	-1.26E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-07**	**1.10E-07**	**4.70E-07**	**4.90E-07**	**5.40E-07**	**4.20E-07**	**2.30E-07**	**1.70E-09**

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	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	2.30E-07	2.30E-07	2.79E-07	2.75E-07	2.74E-07	1.24E-07	1.29E-07	1.34E-07
URI (ΔCDF)	9.70E-08	9.70E-08	1.45E-07	1.34E-07	1.33E-07	1.06E-07	1.05E-07	1.04E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.27E-07**	**3.27E-07**	**4.20E-07**	**4.10E-07**	**4.10E-07**	**2.30E-07**	**2.30E-07**	**2.40E-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	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	1.60E-07	1.40E-07	1.17E-08	1.15E-08	9.81E-09	1.87E-09	2.68E-09	2.69E-09
URI (ΔCDF)	-9.10E-08	-8.90E-08	1.34E-08	8.04E-09	1.12E-08	3.96E-09	2.67E-09	4.06E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**6.90E-08**	**5.10E-08**	**2.50E-08**	**2.00E-08**	**2.10E-08**	**5.80E-09**	**5.40E-09**	**6.70E-09**

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	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	1.40E-07	1.40E-07	1.75E-08	1.71E-08	1.37E-08	3.52E-10	4.12E-10	3.87E-10
URI (ΔCDF)	1.00E-08	1.00E-08	5.73E-08	5.73E-08	4.82E-08	4.15E-08	4.15E-08	4.67E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.50E-07**	**1.50E-07**	**7.50E-08**	**7.40E-08**	**6.20E-08**	**4.20E-08**	**4.20E-08**	**4.70E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**
Maximum activity	0.000091	0.000066	0.000059	0.000074	0.000079	0.000079	0.000078	0.000104	0.000084	0.000134	0.000078	0.000072
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	**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 activity	0.000039	0.000037	0.000137	0.000091	0.000116	0.000082	0.000084	0.000104	N/A	0.000072	0.000041	0.000064
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**	**N/A**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**
Maximum leakage	1.730	1.760	1.660	1.460	1.540	1.560	1.550	1.470	1.470	1.630	1.580	1.700
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	**5.8**	**5.9**	**5.5**	**4.9**	**5.1**	**5.2**	**5.2**	**4.9**	**4.9**	**5.4**	**5.3**	**5.7**
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	1.820	2.210	2.260	2.560	2.790	2.850	3.000	3.020	N/A	1.680	1.450	1.610
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	**6.1**	**7.4**	**7.5**	**8.5**	**9.3**	**9.5**	**10.0**	**10.1**	**N/A**	**5.6**	**4.8**	**5.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful opportunities	8.0	71.0	5.0	8.0	50.0	39.0	25.0	24.0
Total opportunities	8.0	72.0	6.0	8.0	50.0	40.0	26.0	24.0
Indicator value	**98.6%**	**98.7%**	**98.1%**	**98.1%**	**98.5%**	**98.5%**	**98.1%**	**98.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Participating Key personnel	64.0	69.0	72.0	73.0	73.0	74.0	76.0	77.0
Total Key personnel	66.0	69.0	72.0	73.0	73.0	74.0	77.0	79.0
Indicator value	**97.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.7%**	**97.5%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful siren-tests	897	698	897	693	898	699	700	599
Total sirens-tests	900	700	900	700	900	700	700	600
Indicator value	**99.6%**	**99.7%**	**99.7%**	**99.5%**	**99.6%**	**99.6%**	**99.7%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
High radiation area occurrences	0	0	0	0	1	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**	**1**	**1**	**1**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Last Modified: July 22, 2011

Browns Ferry 2

3Q/2011 Performance Indicators

Licensee's General Comments: none

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	0	1.0	0	0	0	1.0	0
Critical hours	2154.0	2038.9	2137.6	2208.0	2209.0	1344.0	1438.2	2208.0
Indicator value	**1.9**	**1.0**	**1.6**	**0.8**	**0.8**	**0.9**	**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	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	0	1.0	0	0	0	0	1.0	1.0
Critical hours	2154.0	2038.9	2137.6	2208.0	2209.0	1344.0	1438.2	2208.0
Indicator value	**1.0**	**1.9**	**0.8**	**0.8**	**0.8**	**0**	**1.0**	**1.9**

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

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 (ΔCDF)	1.10E-07	7.96E-08	1.00E-07	1.16E-07	8.10E-08	6.79E-08	7.45E-08	1.00E-07
URI (ΔCDF)	-4.60E-07	-3.19E-07	-2.12E-07	-2.12E-07	-1.67E-07	-2.52E-07	5.91E-07	6.94E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-07**	**-2.40E-07**	**-1.10E-07**	**-9.60E-08**	**-8.60E-08**	**-1.80E-07**	**6.70E-07**	**7.90E-07**

Licensee Comments:

3Q/11: Risk Cap Invoked. Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

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 (ΔCDF)	1.50E-07	6.56E-07	6.76E-07	7.36E-07	5.43E-07	3.51E-07	1.27E-07	1.07E-07
URI (ΔCDF)	-4.00E-08	-1.86E-07	-1.91E-07	-1.92E-07	-1.25E-07	-1.25E-07	-1.26E-07	-1.04E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-07**	**4.70E-07**	**4.90E-07**	**5.40E-07**	**4.20E-07**	**2.30E-07**	**1.70E-09**	**3.30E-09**

Licensee Comments:

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

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 (ΔCDF)	2.30E-07	2.79E-07	2.75E-07	2.74E-07	1.24E-07	1.29E-07	1.34E-07	1.53E-07
URI (ΔCDF)	9.70E-08	1.45E-07	1.34E-07	1.33E-07	1.06E-07	1.05E-07	1.04E-07	7.52E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.27E-07**	**4.20E-07**	**4.10E-07**	**4.10E-07**	**2.30E-07**	**2.30E-07**	**2.40E-07**	**2.30E-07**

Licensee Comments:

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

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 (ΔCDF)	1.40E-07	1.17E-08	1.15E-08	9.81E-09	1.87E-09	2.68E-09	2.69E-09	6.08E-09
URI (ΔCDF)	-8.90E-08	1.34E-08	8.04E-09	1.12E-08	3.96E-09	2.67E-09	4.06E-09	2.45E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.10E-08**	**2.50E-08**	**2.00E-08**	**2.10E-08**	**5.80E-09**	**5.40E-09**	**6.70E-09**	**8.50E-09**

Licensee Comments:

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

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 (ΔCDF)	1.40E-07	1.75E-08	1.71E-08	1.37E-08	3.52E-10	4.12E-10	3.87E-10	6.27E-08
URI (ΔCDF)	1.00E-08	5.73E-08	5.73E-08	4.82E-08	4.15E-08	4.15E-08	4.67E-08	-3.08E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.50E-07**	**7.50E-08**	**7.40E-08**	**6.20E-08**	**4.20E-08**	**4.20E-08**	**4.70E-08**	**3.20E-08**

Licensee Comments:

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

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	0.000074	0.000079	0.000079	0.000078	0.000104	0.000084	0.000134	0.000078	0.000072	0.000039	0.000037	0.000137
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	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**
Maximum activity	0.000091	0.000116	0.000082	0.000084	0.000104	N/A	0.000072	0.000041	0.000064	0.000039	0.000033	0.000057
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**	**N/A**	**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	**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	1.460	1.540	1.560	1.550	1.470	1.470	1.630	1.580	1.700	1.820	2.210	2.260
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	**4.9**	**5.1**	**5.2**	**5.2**	**4.9**	**4.9**	**5.4**	**5.3**	**5.7**	**6.1**	**7.4**	**7.5**
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	2.560	2.790	2.850	3.000	3.020	N/A	1.680	1.450	1.610	1.490	1.850	1.920
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	**8.5**	**9.3**	**9.5**	**10.0**	**10.1**	**N/A**	**5.6**	**4.8**	**5.4**	**5.0**	**6.2**	**6.4**

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	71.0	5.0	8.0	50.0	39.0	25.0	24.0	37.0
Total opportunities	72.0	6.0	8.0	50.0	40.0	26.0	24.0	38.0
Indicator value	**98.7%**	**98.1%**	**98.1%**	**98.5%**	**98.5%**	**98.1%**	**98.3%**	**98.1%**

Licensee Comments: none

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	69.0	72.0	73.0	73.0	74.0	76.0	77.0	72.0
Total Key personnel	69.0	72.0	73.0	73.0	74.0	77.0	79.0	75.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.7%**	**97.5%**	**96.0%**

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	698	897	693	898	699	700	599	896
Total sirens-tests	700	900	700	900	700	700	600	900
Indicator value	**99.7%**	**99.7%**	**99.5%**	**99.6%**	**99.6%**	**99.7%**	**99.9%**	**99.8%**

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	1	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**	**1**	**1**	**1**	**1**	**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.

Last Modified: November 29, 2011

Browns Ferry 2

4Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned scrams	0	1.0	0	0	0	1.0	0	0
Critical hours	2038.9	2137.6	2208.0	2209.0	1344.0	1438.2	2208.0	2209.0
Indicator value	**1.0**	**1.6**	**0.8**	**0.8**	**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	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	1.0	0	0	0	0	1.0	1.0	0
Critical hours	2038.9	2137.6	2208.0	2209.0	1344.0	1438.2	2208.0	2209.0
Indicator value	**1.9**	**0.8**	**0.8**	**0.8**	**0**	**1.0**	**1.9**	**1.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
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)	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Safety System Functional Failures	1	0	2	1	0	1	0	1
Indicator value	**2**	**2**	**4**	**4**	**3**	**4**	**2**	**2**

Licensee Comments:

4Q/11: LER 260/2011-001-00, Core Spray Relay Found in Incorrect Position

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	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	7.96E-08	1.00E-07	1.16E-07	8.10E-08	6.79E-08	7.45E-08	1.00E-07	7.85E-08
URI (ΔCDF)	-3.19E-07	-2.20E-07	-2.20E-07	-1.74E-07	-2.59E-07	5.84E-07	6.84E-07	6.84E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.40E-07**	**-1.20E-07**	**-1.00E-07**	**-9.30E-08**	**-1.90E-07**	**6.60E-07**	**7.80E-07**	**7.60E-07**

Licensee Comments:

4Q/11: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

3Q/11: Risk Cap Invoked. Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to

MSPI calculations.

1Q/11: Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

4Q/10: In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

3Q/10: Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

2Q/10: Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

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	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	6.56E-07	6.76E-07	7.36E-07	5.43E-07	3.51E-07	1.27E-07	1.07E-07	2.09E-07
URI (ΔCDF)	-1.86E-07	-1.91E-07	-1.92E-07	-1.25E-07	-1.25E-07	-1.26E-07	-1.04E-07	-1.04E-07

PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.70E-07**	**4.90E-07**	**5.40E-07**	**4.20E-07**	**2.30E-07**	**1.70E-09**	**3.30E-09**	**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	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	2.79E-07	2.75E-07	2.74E-07	1.24E-07	1.29E-07	1.34E-07	1.53E-07	1.59E-07
URI (ΔCDF)	1.45E-07	1.34E-07	1.33E-07	1.06E-07	1.05E-07	1.04E-07	7.52E-08	7.45E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.20E-07**	**4.10E-07**	**4.10E-07**	**2.30E-07**	**2.30E-07**	**2.40E-07**	**2.30E-07**	**2.30E-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	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	1.17E-08	1.15E-08	9.81E-09	1.87E-09	2.68E-09	2.69E-09	6.08E-09	5.55E-09
URI (ΔCDF)	1.34E-08	8.04E-09	1.12E-08	3.96E-09	2.67E-09	4.06E-09	2.45E-09	2.50E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-08**	**2.00E-08**	**2.10E-08**	**5.80E-09**	**5.40E-09**	**6.70E-09**	**8.50E-09**	**8.00E-09**

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	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	1.75E-08	1.71E-08	1.37E-08	3.52E-10	4.12E-10	3.87E-10	6.27E-08	7.36E-08
URI (ΔCDF)	1.21E-08	1.21E-08	3.05E-09	1.69E-08	1.69E-08	9.67E-09	-3.78E-08	-3.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-08**	**2.90E-08**	**1.70E-08**	**1.70E-08**	**1.70E-08**	**1.00E-08**	**2.50E-08**	**3.60E-08**

Licensee Comments:

3Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

1Q/11: Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

4Q/10: In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010. In January 2011, an error was identified in BFN PRA model rev 2. This error affects the FVUAP terms for the north and south EECW headers. Service Request 311078 has been initiated to address this error. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

3Q/10: Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures

on failure reports 573, 584, and 692.

2Q/10: Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

1Q/10: Changed PRA Parameters in accordance with December 2009 PRA Revision. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum activity	0.000078	0.000104	0.000084	0.000134	0.000078	0.000072	0.000039	0.000037	0.000137	0.000091	0.000116	0.000082
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	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**
Maximum activity	0.000084	0.000104	N/A	0.000072	0.000041	0.000064	0.000039	0.000033	0.000057	0.000061	0.000058	0.000060
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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum leakage	1.550	1.470	1.470	1.630	1.580	1.700	1.820	2.210	2.260	2.560	2.790	2.850
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	**5.2**	**4.9**	**4.9**	**5.4**	**5.3**	**5.7**	**6.1**	**7.4**	**7.5**	**8.5**	**9.3**	**9.5**
Reactor Coolant System Leakage	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**
Maximum leakage	3.000	3.020	N/A	1.680	1.450	1.610	1.490	1.850	1.920	2.060	1.450	1.430
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	**10.0**	**10.1**	**N/A**	**5.6**	**4.8**	**5.4**	**5.0**	**6.2**	**6.4**	**6.9**	**4.8**	**4.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful opportunities	5.0	8.0	50.0	39.0	25.0	24.0	37.0	111.0
Total opportunities	6.0	8.0	50.0	40.0	26.0	24.0	38.0	112.0
Indicator value	**98.1%**	**98.1%**	**98.5%**	**98.5%**	**98.1%**	**98.3%**	**98.1%**	**98.4%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	72.0	73.0	73.0	74.0	76.0	77.0	72.0	80.0
Total Key personnel	72.0	73.0	73.0	74.0	77.0	79.0	75.0	80.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.7%**	**97.5%**	**96.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful siren-tests	897	693	898	699	700	599	896	799
Total sirens-tests	900	700	900	700	700	600	900	800
Indicator value	**99.7%**	**99.5%**	**99.6%**	**99.6%**	**99.7%**	**99.9%**	**99.8%**	**99.8%**

Licensee Comments:

2Q/11: Siren Test canceled for May 9, 2011 due to severe weather in the area.

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
High radiation area occurrences	0	0	1	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**	**1**	**1**	**1**	**1**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Last Modified: February 2, 2012

Browns Ferry 2

1Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned scrams	1.0	0	0	0	1.0	0	0	0
Critical hours	2137.6	2208.0	2209.0	1344.0	1438.2	2208.0	2209.0	2183.0
Indicator value	**1.6**	**0.8**	**0.8**	**0.9**	**1.0**	**1.0**	**1.0**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	0	0	1.0	1.0	0	0
Critical hours	2137.6	2208.0	2209.0	1344.0	1438.2	2208.0	2209.0	2183.0
Indicator value	**0.8**	**0.8**	**0.8**	**0**	**1.0**	**1.9**	**1.9**	**1.7**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Safety System Functional Failures	0	2	1	0	1	0	1	0
Indicator value	**2**	**4**	**4**	**3**	**4**	**2**	**2**	**2**

Licensee Comments:

4Q/11: LER 260/2011-001-00, Core Spray Relay Found in Incorrect Position

2Q/11: LER 259/2011-002-00, Loss of Safety Function (SDC) Resulting from Loss of Power from C EDG Due to Oil Leak

4Q/10: LER 259/2010-001-00 (Units 1, 2, 3) - Unit 1, 2, and 3 Appendix R Safe Shutdown Instruction Procedures Contain Incorrect Operator Manual Actions

3Q/10: LER 260/2010-004-00 - HPCI Isolation During Time Delay Relay Calibration LER 260/2010-005-00 - HPCI Isolation During Performance of HPCI Steam Supply Low Pressure Functional Test

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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	1.00E-07	1.16E-07	8.10E-08	6.79E-08	7.45E-08	1.00E-07	7.85E-08	-9.28E-10
URI (ΔCDF)	-2.20E-07	-2.20E-07	-1.74E-07	-2.59E-07	5.84E-07	6.84E-07	6.84E-07	7.86E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-07**	**-1.00E-07**	**-9.30E-08**	**-1.90E-07**	**6.60E-07**	**7.80E-07**	**7.60E-07**	**7.80E-07**

Licensee Comments:

1Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.02E-06) has been replaced by a value of 5.00E-07. Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). The B and C Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the first quarter of 2012 (FAQ 468). Revised Emergency Diesel Generator run hours to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours (FAQ 480). Revised Emergency Diesel Generator supercomponent boundary to include fuel oil transfer pumps/valves (FAQ 484).

4Q/11: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

3Q/11: Risk Cap Invoked. Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation

Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

3Q/11: Risk Cap Invoked. Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

1Q/11: Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

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3Q/10: Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

2Q/10: Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	6.76E-07	7.36E-07	5.43E-07	3.51E-07	1.27E-07	1.07E-07	2.09E-07	5.42E-08
URI (ΔCDF)	-1.91E-07	-1.92E-07	-1.25E-07	-1.25E-07	-1.26E-07	-1.04E-07	-1.04E-07	-7.21E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.90E-07**	**5.40E-07**	**4.20E-07**	**2.30E-07**	**1.70E-09**	**3.30E-09**	**1.10E-07**	**-1.80E-08**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

3Q/10: HPCI and RCIC operational demands changed to estimates from actuals for all 3 units.

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/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**
UAI (ΔCDF)	2.75E-07	2.74E-07	1.24E-07	1.29E-07	1.34E-07	1.53E-07	1.59E-07	1.54E-07
URI (ΔCDF)	1.34E-07	1.33E-07	1.06E-07	1.05E-07	1.04E-07	7.52E-08	7.45E-08	7.09E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.10E-07**	**4.10E-07**	**2.30E-07**	**2.30E-07**	**2.40E-07**	**2.30E-07**	**2.30E-07**	**2.20E-07**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

3Q/10: HPCI and RCIC operational demands changed to estimates from actuals for all 3 units.

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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	1.15E-08	9.81E-09	1.87E-09	2.68E-09	2.69E-09	6.08E-09	5.55E-09	8.00E-09
URI (ΔCDF)	8.04E-09	1.12E-08	3.96E-09	2.67E-09	4.06E-09	2.45E-09	2.50E-09	1.77E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.00E-08**	**2.10E-08**	**5.80E-09**	**5.40E-09**	**6.70E-09**	**8.50E-09**	**8.00E-09**	**9.80E-09**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

3Q/10: RHR operational demands and test demands changed to estimates from actuals for all 3 units.

2Q/10: Unpl UA for DW Spray voiding removed based on FE 235900. Reference SR 261596.

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**
UAI (ΔCDF)	1.71E-08	1.37E-08	3.52E-10	4.12E-10	3.87E-10	6.27E-08	7.36E-08	6.85E-08
URI (ΔCDF)	1.21E-08	3.05E-09	1.69E-08	1.69E-08	9.67E-09	-3.78E-08	-3.78E-08	-4.97E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.90E-08**	**1.70E-08**	**1.70E-08**	**1.70E-08**	**1.00E-08**	**2.50E-08**	**3.60E-08**	**1.90E-08**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on

Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

1Q/11: Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

4Q/10: In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010. In January 2011, an error was identified in BFN PRA model rev 2. This error affects the FVUAP terms for the north and south EECW headers. Service Request 311078 has been initiated to address this error.

4Q/10: In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010. In January 2011, an error was identified in BFN PRA model rev 2. This error affects the FVUAP terms for the north and south EECW headers. Service Request 311078 has been initiated to address this error. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

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3Q/10: Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

2Q/10: Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum activity	0.000134	0.000078	0.000072	0.000039	0.000037	0.000137	0.000091	0.000116	0.000082	0.000084	0.000104	N/A
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**	**N/A**

Reactor Coolant System Activity	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**
Maximum activity	0.000072	0.000041	0.000064	0.000039	0.000033	0.000057	0.000061	0.000058	0.000060	0.000039	0.000060	0.000058
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	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum leakage	1.630	1.580	1.700	1.820	2.210	2.260	2.560	2.790	2.850	3.000	3.020	N/A
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**	**5.3**	**5.7**	**6.1**	**7.4**	**7.5**	**8.5**	**9.3**	**9.5**	**10.0**	**10.1**	**N/A**
Reactor Coolant System Leakage	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**
Maximum leakage	1.680	1.450	1.610	1.490	1.850	1.920	2.060	1.450	1.430	1.610	1.450	1.450
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	**5.6**	**4.8**	**5.4**	**5.0**	**6.2**	**6.4**	**6.9**	**4.8**	**4.8**	**5.4**	**4.8**	**4.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	8.0	50.0	39.0	25.0	24.0	37.0	111.0	13.0
Total opportunities	8.0	50.0	40.0	26.0	24.0	38.0	112.0	13.0
Indicator value	**98.1%**	**98.5%**	**98.5%**	**98.1%**	**98.3%**	**98.1%**	**98.4%**	**98.7%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	73.0	73.0	74.0	76.0	77.0	72.0	80.0	74.0
Total Key personnel	73.0	73.0	74.0	77.0	79.0	75.0	80.0	74.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**98.7%**	**97.5%**	**96.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	693	898	699	700	599	896	799	800
Total sirens-tests	700	900	700	700	600	900	800	800
Indicator value	**99.5%**	**99.6%**	**99.6%**	**99.7%**	**99.9%**	**99.8%**	**99.8%**	**99.8%**

Licensee Comments:

2Q/11: Siren Test canceled for May 9, 2011 due to severe weather in the area.

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
High radiation area occurrences	0	1	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**	**1**	**1**	**1**	**1**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Security information not publicly available.

Last Modified: April 24, 2012

Browns Ferry 2

2Q/2012 Performance Indicators

Licensee's General Comments: none

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	1.0	0	0	0	0
Critical hours	2208.0	2209.0	1344.0	1438.2	2208.0	2209.0	2183.0	2184.0
Indicator value	**0.8**	**0.8**	**0.9**	**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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	0	0	0	1.0	1.0	0	0	0
Critical hours	2208.0	2209.0	1344.0	1438.2	2208.0	2209.0	2183.0	2184.0
Indicator value	**0.8**	**0.8**	**0**	**1.0**	**1.9**	**1.9**	**1.7**	**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	**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)	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Safety System Functional Failures	2	1	0	1	0	1	0	1
Indicator value	**4**	**4**	**3**	**4**	**2**	**2**	**2**	**2**

Licensee Comments:

2Q/12: The following LERs were identified as a result of the NFPA 805 Transition and are due to the same condition. In accordance with NEI 99-02 section 2.2, the following LERs count as single SSFF: LER 259/2012-001-00 - Unanalyzed Conditions Discovered During NFPA 805 Transition Review, LER 259/2012-002-00 - Fault Propagation During A Postulated Appendix R Event Could Result In An Inability To Close Motor Operated Valves, LER 259/2012-003-00 - Reactor Protection System Circuit Could Potentially Remain Energized During An Appendix R Fire, and LER 259/2012-004-00 - Fire Damage to Cables in Fire Areas Could Cause a Residual Heat Removal Service Water Pump to Spuriously Start.

4Q/11: LER 260/2011-001-00, Core Spray Relay Found in Incorrect Position

2Q/11: LER 259/2011-002-00, Loss of Safety Function (SDC) Resulting from Loss of Power from C EDG Due to Oil Leak

4Q/10: LER 259/2010-001-00 (Units 1, 2, 3) - Unit 1, 2, and 3 Appendix R Safe Shutdown Instruction Procedures Contain Incorrect Operator Manual Actions

3Q/10: LER 260/2010-004-00 - HPCI Isolation During Time Delay Relay Calibration LER 260/2010-005-00 - HPCI Isolation During Performance of HPCI Steam Supply Low Pressure Functional Test

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 (ΔCDF)	1.16E-07	8.10E-08	6.79E-08	7.45E-08	1.00E-07	7.85E-08	-9.28E-10	-2.25E-08
URI (ΔCDF)	-2.20E-07	-1.74E-07	-2.59E-07	5.84E-07	6.84E-07	6.84E-07	7.86E-07	8.14E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-07**	**-9.30E-08**	**-1.90E-07**	**6.60E-07**	**7.80E-07**	**7.60E-07**	**7.80E-07**	**7.90E-07**

Licensee Comments:

2Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.04E-06) has been replaced by a value of 5.00E-07. The D Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the second quarter of 2012 (FAQ 468).

1Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.02E-06) has been replaced by a value of 5.00E-07. Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). The B and C Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the first quarter of 2012 (FAQ 468). Revised Emergency Diesel Generator run hours to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours (FAQ 480). Revised Emergency Diesel Generator supercomponent boundary to include fuel oil transfer pumps/valves (FAQ 484).

4Q/11: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

3Q/11: Risk Cap Invoked. Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07.

3Q/11: Risk Cap Invoked. Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

1Q/11: Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

4Q/10: In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

3Q/10: Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

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 (ΔCDF)	7.36E-07	5.43E-07	3.51E-07	1.27E-07	1.07E-07	2.09E-07	5.42E-08	6.07E-08
URI (ΔCDF)	-1.92E-07	-1.25E-07	-1.25E-07	-1.26E-07	-1.04E-07	-1.04E-07	-7.21E-08	-7.23E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.40E-07**	**4.20E-07**	**2.30E-07**	**1.70E-09**	**3.30E-09**	**1.10E-07**	**-1.80E-08**	**-1.20E-08**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

3Q/10: HPCI and RCIC operational demands changed to estimates from actuals for all 3 units.

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 (ΔCDF)	2.74E-07	1.24E-07	1.29E-07	1.34E-07	1.53E-07	1.59E-07	1.54E-07	1.46E-07
URI (ΔCDF)	1.33E-07	1.06E-07	1.05E-07	1.04E-07	7.52E-08	7.45E-08	7.09E-08	7.02E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.10E-07**	**2.30E-07**	**2.30E-07**	**2.40E-07**	**2.30E-07**	**2.30E-07**	**2.20E-07**	**2.20E-07**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

3Q/10: HPCI and RCIC operational demands changed to estimates from actuals for all 3 units.

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 (ΔCDF)	9.81E-09	1.87E-09	2.68E-09	2.69E-09	6.08E-09	5.55E-09	8.00E-09	7.36E-09
URI (ΔCDF)	1.12E-08	3.96E-09	2.67E-09	4.06E-09	2.45E-09	2.50E-09	1.77E-09	3.68E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.10E-08**	**5.80E-09**	**5.40E-09**	**6.70E-09**	**8.50E-09**	**8.00E-09**	**9.80E-09**	**1.10E-08**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

3Q/10: RHR operational demands and test demands changed to estimates from actuals for all 3 units.

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 (ΔCDF)	1.37E-08	3.52E-10	4.12E-10	3.87E-10	6.27E-08	7.36E-08	6.85E-08	4.99E-08
URI (ΔCDF)	3.05E-09	1.69E-08	1.69E-08	9.67E-09	-3.78E-08	-3.78E-08	-4.97E-08	-4.97E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-08**	**1.70E-08**	**1.70E-08**	**1.00E-08**	**2.50E-08**	**3.60E-08**	**1.90E-08**	**2.10E-10**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. Problem Evaluation Report 468993 documents changes to

RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

1Q/11: Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

4Q/10: In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010. In January 2011, an error was identified in BFN PRA model rev 2. This error affects the FVUAP terms for the north and south EECW headers. Service Request 311078 has been initiated to address this error.

4Q/10: In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010. In January 2011, an error was identified in BFN PRA model rev 2. This error affects the FVUAP terms for the north and south EECW headers. Service Request 311078 has been initiated to address this error. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

3Q/10: Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**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 activity	0.000039	0.000037	0.000137	0.000091	0.000116	0.000082	0.000084	0.000104	N/A	0.000072	0.000041	0.000064
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**	**N/A**	**0**	**0**	**0**

Reactor Coolant System Activity	**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 activity	0.000039	0.000033	0.000057	0.000061	0.000058	0.000060	0.000039	0.000060	0.000058	0.000038	0.000056	0.000063
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	**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	1.820	2.210	2.260	2.560	2.790	2.850	3.000	3.020	N/A	1.680	1.450	1.610
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	**6.1**	**7.4**	**7.5**	**8.5**	**9.3**	**9.5**	**10.0**	**10.1**	**N/A**	**5.6**	**4.8**	**5.4**
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	1.490	1.850	1.920	2.060	1.450	1.430	1.610	1.450	1.450	1.480	1.430	1.450
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	**5.0**	**6.2**	**6.4**	**6.9**	**4.8**	**4.8**	**5.4**	**4.8**	**4.8**	**4.9**	**4.8**	**4.8**

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	50.0	39.0	25.0	24.0	37.0	111.0	13.0	6.0
Total opportunities	50.0	40.0	26.0	24.0	38.0	112.0	13.0	6.0
Indicator value	**98.5%**	**98.5%**	**98.1%**	**98.3%**	**98.1%**	**98.4%**	**98.7%**	**98.7%**

Licensee Comments: none

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	73.0	74.0	76.0	77.0	72.0	80.0	74.0	73.0
Total Key personnel	73.0	74.0	77.0	79.0	75.0	80.0	74.0	73.0
Indicator value	**100.0%**	**100.0%**	**98.7%**	**97.5%**	**96.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	898	699	700	599	896	799	800	799
Total sirens-tests	900	700	700	600	900	800	800	800
Indicator value	**99.6%**	**99.6%**	**99.7%**	**99.9%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**

Licensee Comments:

2Q/11: Siren Test canceled for May 9, 2011 due to severe weather in the area.

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	1	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	**1**	**1**	**1**	**1**	**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

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.

Browns Ferry 2

3Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2209.0	1344.0	1438.2	2208.0	2209.0	2183.0	2184.0	2208.0
Indicator value	**0.8**	**0.9**	**1.0**	**1.0**	**1.0**	**0.9**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	0	0	1.0	1.0	0	0	0	0
Critical hours	2209.0	1344.0	1438.2	2208.0	2209.0	2183.0	2184.0	2208.0
Indicator value	**0.8**	**0**	**1.0**	**1.9**	**1.9**	**1.7**	**0.8**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
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

Thresholds: White > 6.0

Notes

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

Licensee Comments:

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are Safety System Functional Failures (SSFFs) identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NEI 99-02 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-

00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

2Q/12: The following LERs are Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition in the 3rd Quarter of 2012. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. Therefore, these SSFFs are accounted for in the SSFF reported in the 2nd Quarter 2012.

2Q/12: The following LERs were identified as a result of the NFPA 805 Transition and are due to the same condition. In accordance with NEI 99-02 section 2.2, the following LERs count as single SSFF: LER 259/2012-001-00 - Unanalyzed Conditions Discovered During NFPA 805 Transition Review, LER 259/2012-002-00 - Fault Propagation During A Postulated Appendix R Event Could Result In An Inability To Close Motor Operated Valves, LER 259/2012-003-00 - Reactor Protection System Circuit Could Potentially Remain Energized During An Appendix R Fire, and LER 259/2012-004-00 - Fire Damage to Cables in Fire Areas Could Cause a Residual Heat Removal Service Water Pump to Spuriously Start.

4Q/11: LER 260/2011-001-00, Core Spray Relay Found in Incorrect Position

2Q/11: LER 259/2011-002-00, Loss of Safety Function (SDC) Resulting from Loss of Power from C EDG Due to Oil Leak

4Q/10: LER 259/2010-001-00 (Units 1, 2, 3) - Unit 1, 2, and 3 Appendix R Safe Shutdown Instruction Procedures Contain Incorrect Operator Manual Actions

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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/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	8.10E-08	6.79E-08	7.45E-08	1.00E-07	7.85E-08	-9.28E-10	-2.25E-08	-3.20E-08
URI (ΔCDF)	-1.74E-07	-2.59E-07	5.84E-07	6.84E-07	6.84E-07	7.86E-07	8.14E-07	8.43E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.30E-08**	**-1.90E-07**	**6.60E-07**	**7.80E-07**	**7.60E-07**	**7.80E-07**	**7.90E-07**	**8.10E-07**

Licensee Comments:

3Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.06E-06) has been replaced by a value of 5.00E-07. The A Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outage scheduled to be performed in the third quarter of 2012 (FAQ 468).

2Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.04E-06) has been replaced by a value of 5.00E-07. The D Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the second quarter of 2012 (FAQ 468).

1Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.02E-06) has been replaced by a value of 5.00E-07. Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline

Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). The B and C Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the first quarter of 2012 (FAQ 468). Revised Emergency Diesel Generator run hours to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours (FAQ 480). Revised Emergency Diesel Generator supercomponent boundary to include fuel oil transfer pumps/valves (FAQ 484).

4Q/11: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

3Q/11: Risk Cap Invoked. Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07.

3Q/11: Risk Cap Invoked. Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

1Q/11: Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

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in a significant impact to MSPI calculations.

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	5.43E-07	3.51E-07	1.27E-07	1.07E-07	2.09E-07	5.46E-08	6.13E-08	7.15E-08
URI (ΔCDF)	-1.25E-07	-1.25E-07	-1.26E-07	-1.04E-07	-1.04E-07	-7.21E-08	-7.23E-08	-7.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.20E-07**	**2.30E-07**	**1.70E-09**	**3.30E-09**	**1.10E-07**	**-1.80E-08**	**-1.10E-08**	**1.20E-09**

Licensee Comments:

3Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

2Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

1Q/12: Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. No indicator color was impacted.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

4Q/11: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. No indicator color was impacted.

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	1.24E-07	1.29E-07	1.34E-07	1.53E-07	1.59E-07	1.54E-07	1.46E-07	-1.85E-09
URI (ΔCDF)	1.06E-07	1.05E-07	1.04E-07	7.52E-08	7.45E-08	7.09E-08	7.02E-08	-3.46E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-07**	**2.30E-07**	**2.40E-07**	**2.30E-07**	**2.30E-07**	**2.20E-07**	**2.20E-07**	**-3.60E-08**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model

effective October 2010.

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/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	1.87E-09	2.68E-09	2.69E-09	6.08E-09	5.55E-09	8.00E-09	7.36E-09	5.64E-09
URI (ΔCDF)	3.96E-09	2.67E-09	4.06E-09	2.45E-09	2.50E-09	1.77E-09	3.68E-09	4.39E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.80E-09**	**5.40E-09**	**6.70E-09**	**8.50E-09**	**8.00E-09**	**9.80E-09**	**1.10E-08**	**1.00E-08**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

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/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	3.52E-10	4.12E-10	3.87E-10	6.27E-08	7.36E-08	6.85E-08	4.99E-08	5.20E-08
URI (ΔCDF)	1.69E-08	1.69E-08	9.67E-09	-3.78E-08	-3.78E-08	-4.97E-08	-3.37E-08	-3.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-08**	**1.70E-08**	**1.00E-08**	**2.50E-08**	**3.60E-08**	**1.90E-08**	**1.60E-08**	**1.80E-08**

Licensee Comments:

3Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

2Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

3Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

1Q/11: Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

4Q/10: In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010. In January 2011, an error was identified in BFN PRA model rev 2. This error affects the FVUAP terms for the north and south EECW headers. Service Request 311078 has been initiated to address this error.

4Q/10: In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010. In January 2011, an error was identified in BFN PRA model rev 2. This error affects the FVUAP terms for the north and south EECW headers. Service Request 311078 has been initiated to address this error. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

4Q/10: Changed PRA Parameter(s). In September 2010, Revision 2 of the Browns Ferry CAFTA PRA Model became the model of record. All MSPI Parameters have been updated to reflect Revision 2 of the PRA model effective October 2010.

Thresholds: White > 50.0 Yellow > 100.0

Notes

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	0.000091	0.000116	0.000082	0.000084	0.000104	N/A	0.000072	0.000041	0.000064	0.000039	0.000033	0.000057
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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**
Maximum activity	0.000061	0.000058	0.000060	0.000039	0.000060	0.000058	0.000038	0.000056	0.000063	0.000060	0.000067	0.000063
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

Thresholds: White > 50.0 Yellow > 100.0

Notes

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	2.560	2.790	2.850	3.000	3.020	N/A	1.680	1.450	1.610	1.490	1.850	1.920
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	**8.5**	**9.3**	**9.5**	**10.0**	**10.1**	**N/A**	**5.6**	**4.8**	**5.4**	**5.0**	**6.2**	**6.4**
Reactor Coolant System Leakage	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**
Maximum leakage	2.060	1.450	1.430	1.610	1.450	1.450	1.480	1.430	1.450	1.880	1.720	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	**6.9**	**4.8**	**4.8**	**5.4**	**4.8**	**4.8**	**4.9**	**4.8**	**4.8**	**6.3**	**5.7**	**6.2**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	39.0	25.0	24.0	37.0	111.0	13.0	6.0	34.0
Total opportunities	40.0	26.0	24.0	38.0	112.0	13.0	6.0	34.0
Indicator value	**98.5%**	**98.1%**	**98.3%**	**98.1%**	**98.4%**	**98.7%**	**98.7%**	**98.6%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Participating Key personnel	74.0	76.0	77.0	72.0	80.0	74.0	73.0	77.0
Total Key personnel	74.0	77.0	79.0	75.0	80.0	74.0	73.0	77.0
Indicator value	**100.0%**	**98.7%**	**97.5%**	**96.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	699	700	599	896	799	800	799	799
Total sirens-tests	700	700	600	900	800	800	800	800
Indicator value	**99.6%**	**99.7%**	**99.9%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.9%**

Licensee Comments:

2Q/11: Siren Test canceled for May 9, 2011 due to severe weather in the area.

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/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	**1**	**1**	**1**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/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

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: November 30, 2012

Browns Ferry 2

4Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned scrams	0	1.0	0	0	0	0	0	1.0
Critical hours	1344.0	1438.2	2208.0	2209.0	2183.0	2184.0	2208.0	2137.2
Indicator value	**0.9**	**1.0**	**1.0**	**1.0**	**0.9**	**0**	**0**	**0.8**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	1.0	1.0	0	0	0	0	0
Critical hours	1344.0	1438.2	2208.0	2209.0	2183.0	2184.0	2208.0	2137.2
Indicator value	**0**	**1.0**	**1.9**	**1.9**	**1.7**	**0.8**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
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)	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Safety System Functional Failures	0	1	0	1	0	0	1	1
Indicator value	**3**	**4**	**2**	**2**	**2**	**1**	**2**	**2**

Licensee Comments:

4Q/12: LER 260/2012-004-00, High Pressure Coolant Injection System Rendered Inoperable Due to an Inadvertent Actuation of Primary Containment Isolation System. The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs. Based on this new guidance, the SSFF reported in April 2012 are removed for BFN, Units 1, 2, and 3. Changes to data were made on January 14, 2013, by BFN Licensing.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NUREG 1022 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NUREG 1022 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. The following LERs were once considered SSFFs that were identified as a result of the NFPA 805 Transition and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NEI 99-02 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or

previously submitted data. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are Safety System Functional Failures (SSFFs) identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

2Q/12: The following LERs are Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition in the 3rd Quarter of 2012. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. Therefore, these SSFFs are accounted for in the SSFF reported in the 2nd Quarter 2012.

2Q/12: The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs

2Q/12: The following LERs were identified as a result of the NFPA 805 Transition and are due to the same condition. In accordance with NEI 99-02 section 2.2, the following LERs count as single SSFF: LER 259/2012-001-00 - Unanalyzed Conditions Discovered During NFPA 805 Transition Review, LER 259/2012-002-00 - Fault Propagation During A Postulated Appendix R Event Could Result In An Inability To Close Motor Operated Valves, LER 259/2012-003-00 - Reactor Protection System Circuit Could Potentially Remain Energized During An Appendix R Fire, and LER 259/2012-004-00 - Fire Damage to Cables in Fire Areas Could Cause a Residual Heat Removal Service Water Pump to Spuriously Start.

4Q/11: LER 260/2011-001-00, Core Spray Relay Found in Incorrect Position

2Q/11: LER 259/2011-002-00, Loss of Safety Function (SDC) Resulting from Loss of Power from C EDG Due to Oil Leak

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	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (ΔCDF)	6.79E-08	7.45E-08	1.00E-07	7.85E-08	-9.28E-10	-2.25E-08	-3.20E-08	-3.22E-08
URI (ΔCDF)	-2.59E-07	5.84E-07	6.84E-07	6.84E-07	7.86E-07	8.14E-07	8.43E-07	1.04E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-07**	**6.60E-07**	**7.80E-07**	**7.60E-07**	**7.80E-07**	**7.90E-07**	**8.10E-07**	**1.00E-06**

Licensee Comments:

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has been replaced by a value of 5.00E-07.

3Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.06E-06) has been replaced by a value of 5.00E-07. The A Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outage scheduled to be performed in the third quarter of 2012 (FAQ 468).

2Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.04E-06) has been replaced by a value of 5.00E-07. The D Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the second quarter of 2012 (FAQ 468).

1Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.02E-06) has been replaced by a value of 5.00E-07. Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). The B and C Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the first quarter of 2012 (FAQ 468). Revised Emergency Diesel Generator run hours

to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours (FAQ 480). Revised Emergency Diesel Generator supercomponent boundary to include fuel oil transfer pumps/valves (FAQ 484).

4Q/11: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

3Q/11: Risk Cap Invoked. Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

3Q/11: Risk Cap Invoked. Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

1Q/11: Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

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	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**
UAI (ΔCDF)	3.51E-07	1.27E-07	1.07E-07	2.09E-07	5.46E-08	6.13E-08	7.15E-08	7.17E-08
URI (ΔCDF)	-1.25E-07	-1.26E-07	-1.04E-07	-1.04E-07	-7.21E-08	-7.23E-08	-7.04E-08	-7.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-07**	**1.70E-09**	**3.30E-09**	**1.10E-07**	**-1.80E-08**	**-1.10E-08**	**1.20E-09**	**-9.00E-10**

Licensee Comments:

3Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

2Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

1Q/12: Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. No indicator color was impacted.

4Q/11: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. No indicator color was impacted.

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

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

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12

UAI (ΔCDF)	1.29E-07	1.34E-07	1.53E-07	1.59E-07	1.54E-07	1.46E-07	-1.85E-09	-2.92E-10
URI (ΔCDF)	1.05E-07	1.04E-07	7.52E-08	7.45E-08	7.09E-08	7.02E-08	-3.46E-08	-3.49E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-07**	**2.40E-07**	**2.30E-07**	**2.30E-07**	**2.20E-07**	**2.20E-07**	**-3.60E-08**	**-3.50E-08**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

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	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**
UAI (ΔCDF)	2.68E-09	2.69E-09	6.08E-09	5.55E-09	8.00E-09	7.36E-09	5.64E-09	5.79E-09

URI (ΔCDF)	2.67E-09	4.06E-09	2.45E-09	2.50E-09	1.77E-09	3.68E-09	4.39E-09	5.23E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.40E-09**	**6.70E-09**	**8.50E-09**	**8.00E-09**	**9.80E-09**	**1.10E-08**	**1.00E-08**	**1.10E-08**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

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	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**
UAI (ΔCDF)	4.12E-10	3.87E-10	6.27E-08	7.36E-08	6.85E-08	4.99E-08	5.20E-08	5.20E-08
URI (ΔCDF)	1.69E-08	9.67E-09	-3.78E-08	-3.78E-08	-4.97E-08	-3.37E-08	-3.37E-08	-3.37E-08

PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-08**	**1.00E-08**	**2.50E-08**	**3.60E-08**	**1.90E-08**	**1.60E-08**	**1.80E-08**	**1.80E-08**

Licensee Comments:

3Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

2Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

1Q/11: Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**
Maximum activity	0.000084	0.000104	N/A	0.000072	0.000041	0.000064	0.000039	0.000033	0.000057	0.000061	0.000058	0.000060
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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**
Maximum activity	0.000039	0.000060	0.000058	0.000038	0.000056	0.000063	0.000060	0.000067	0.000063	0.000063	0.000070	0.000100
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	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**
Maximum leakage	3.000	3.020	N/A	1.680	1.450	1.610	1.490	1.850	1.920	2.060	1.450	1.430
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	**10.0**	**10.1**	**N/A**	**5.6**	**4.8**	**5.4**	**5.0**	**6.2**	**6.4**	**6.9**	**4.8**	**4.8**
Reactor Coolant System Leakage	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**
Maximum leakage	1.610	1.450	1.450	1.480	1.430	1.450	1.880	1.720	1.860	1.720	1.960	2.070
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**	**4.8**	**4.8**	**4.9**	**4.8**	**4.8**	**6.3**	**5.7**	**6.2**	**5.7**	**6.5**	**6.9**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful opportunities	25.0	24.0	37.0	111.0	13.0	6.0	34.0	14.0
Total opportunities	26.0	24.0	38.0	112.0	13.0	6.0	34.0	14.0
Indicator value	**98.1%**	**98.3%**	**98.1%**	**98.4%**	**98.7%**	**98.7%**	**98.6%**	**98.9%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Participating Key personnel	76.0	77.0	72.0	80.0	74.0	73.0	77.0	73.0
Total Key personnel	77.0	79.0	75.0	80.0	74.0	73.0	77.0	73.0
Indicator value	**98.7%**	**97.5%**	**96.0%**	**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	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	700	599	896	799	800	799	799	899
Total sirens-tests	700	600	900	800	800	800	800	900
Indicator value	**99.7%**	**99.9%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**

Licensee Comments:

2Q/11: Siren Test canceled for May 9, 2011 due to severe weather in the area.

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/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	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/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

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.

Last Modified: January 23, 2013

Browns Ferry 2

1Q/2013 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned scrams	1.0	0	0	0	0	0	1.0	0
Critical hours	1438.2	2208.0	2209.0	2183.0	2184.0	2208.0	2137.2	1748.1
Indicator value	**1.0**	**1.0**	**1.0**	**0.9**	**0**	**0**	**0.8**	**0.8**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned power changes	1.0	1.0	0	0	0	0	0	0
Critical hours	1438.2	2208.0	2209.0	2183.0	2184.0	2208.0	2137.2	1748.1
Indicator value	**1.0**	**1.9**	**1.9**	**1.7**	**0.8**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Scrams with complications	0	0	0	0	0	0	1.0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**

Licensee Comments:

1Q/13: Further analysis on the December 22, 2012, reactor scram, due to loss of power to RPS, determined that the reactor scram was complicated. December 2012 Unplanned Scrams with Complications data was revised from 0 to 1.

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	1	0	1	0	0	1	1	0
Indicator value	**4**	**2**	**2**	**2**	**1**	**2**	**2**	**2**

Licensee Comments:

4Q/12: LER 260/2012-004-00, High Pressure Coolant Injection System Rendered Inoperable Due to an Inadvertent Actuation of Primary Containment Isolation System. The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs. Based on this new guidance, the SSFF reported in April 2012 are removed for BFN, Units 1, 2, and 3. Changes to data were made on January 14, 2013, by BFN Licensing.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NUREG 1022 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NUREG 1022 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. The following LERs were once considered SSFFs that were identified as a result of the NFPA 805 Transition and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NEI 99-02 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are Safety System Functional Failures (SSFFs) identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

2Q/12: The following LERs are Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition in the 3rd Quarter of 2012. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. Therefore, these SSFFs are accounted for in the SSFF reported in the 2nd Quarter 2012.

2Q/12: The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs

2Q/12: The following LERs were identified as a result of the NFPA 805 Transition and are due to the same condition. In accordance with NEI 99-02 section 2.2, the following LERs count as single SSFF: LER 259/2012-001-00 - Unanalyzed Conditions Discovered During NFPA 805 Transition Review, LER 259/2012-002-00 - Fault Propagation During A Postulated Appendix R Event Could Result In An Inability To Close Motor Operated Valves, LER 259/2012-003-00 - Reactor Protection System Circuit Could Potentially Remain Energized During An Appendix R Fire, and LER 259/2012-004-00 - Fire Damage to Cables in Fire Areas Could Cause a Residual Heat Removal Service Water Pump to Spuriously Start.

4Q/11: LER 260/2011-001-00, Core Spray Relay Found in Incorrect Position

2Q/11: LER 259/2011-002-00, Loss of Safety Function (SDC) Resulting from Loss of Power from C EDG Due to Oil Leak

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/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	7.45E-08	1.00E-07	7.85E-08	-9.28E-10	-2.25E-08	-3.20E-08	-3.22E-08	-2.12E-08
URI (ΔCDF)	5.84E-07	6.84E-07	6.84E-07	7.86E-07	8.14E-07	8.43E-07	1.96E-06	2.07E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**6.60E-07**	**7.80E-07**	**7.60E-07**	**7.80E-07**	**7.90E-07**	**8.10E-07**	**1.90E-06**	**2.00E-06**

Licensee Comments:

1Q/13: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.15E-06) has been replaced by a value of 5.00E-07. MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013. On December 22, 2012, the Emergency AC Power system experienced a failure that was incorrectly categorized as a load/run failure instead of a run failure. The failure mode was corrected resulting in the performance indicator color changing from green to white in the 4th Quarter of 2012. This issue is being tracked by PERs 704392 and 669462.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has been replaced by a value of 5.00E-07.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has been replaced by a value of 5.00E-07.

3Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.06E-06) has been replaced by a value of 5.00E-07. The A Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outage scheduled to be performed in the third quarter of 2012 (FAQ 468).

2Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.04E-06) has been replaced by a value of 5.00E-07. The D Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the second quarter of 2012 (FAQ 468).

1Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.02E-06) has been replaced by a value of 5.00E-07. Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). The B and C Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the first quarter of 2012 (FAQ 468). Revised Emergency Diesel Generator run hours to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours (FAQ 480). Revised Emergency Diesel Generator supercomponent boundary to include fuel oil transfer pumps/valves (FAQ 484).

4Q/11: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

3Q/11: Risk Cap Invoked. Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

3Q/11: Risk Cap Invoked. Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

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/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	1.27E-07	1.07E-07	2.09E-07	5.46E-08	6.13E-08	7.15E-08	7.17E-08	1.77E-07
URI (ΔCDF)	-1.26E-07	-1.04E-07	-1.04E-07	-7.21E-08	-7.23E-08	-7.04E-08	-7.26E-08	-1.74E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-09**	**3.30E-09**	**1.10E-07**	**-1.80E-08**	**-1.10E-08**	**1.20E-09**	**-9.00E-10**	**2.80E-09**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

3Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure

Injection System for the month of June 2012. No indicator color was impacted.

2Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

1Q/12: Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. No indicator color was impacted.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

4Q/11: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. No indicator color was impacted.

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	1.34E-07	1.53E-07	1.59E-07	1.54E-07	1.46E-07	-1.85E-09	-2.92E-10	1.53E-07
URI (ΔCDF)	1.04E-07	7.52E-08	7.45E-08	7.09E-08	7.02E-08	-3.46E-08	-3.49E-08	1.08E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.40E-07**	**2.30E-07**	**2.30E-07**	**2.20E-07**	**2.20E-07**	**-3.60E-08**	**-3.50E-08**	**2.60E-07**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of

offsite power. These changes are effective as of Second Quarter 2011.

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/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	2.69E-09	6.08E-09	5.55E-09	8.00E-09	7.36E-09	5.64E-09	5.79E-09	1.85E-08
URI (ΔCDF)	4.06E-09	2.45E-09	2.50E-09	1.77E-09	3.68E-09	4.39E-09	5.23E-09	-1.29E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**6.70E-09**	**8.50E-09**	**8.00E-09**	**9.80E-09**	**1.10E-08**	**1.00E-08**	**1.10E-08**	**-1.10E-07**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction

with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

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/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	3.87E-10	6.27E-08	7.36E-08	6.85E-08	4.99E-08	5.20E-08	5.20E-08	6.60E-08
URI (ΔCDF)	9.67E-09	-3.78E-08	-3.78E-08	-4.97E-08	-3.37E-08	-3.37E-08	-3.37E-08	-2.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.00E-08**	**2.50E-08**	**3.60E-08**	**1.90E-08**	**1.60E-08**	**1.80E-08**	**1.80E-08**	**4.30E-08**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

3Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

2Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

2Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 rev 003 to correct PRA Model errors associated with the modeling of EECW (Cooling Water System 2) North Header Unavailability and not modeling a failure of a normally operating EECW pump to restart following loss of offsite power. These changes are effective as of Second Quarter 2011.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**
Maximum activity	0.000072	0.000041	0.000064	0.000039	0.000033	0.000057	0.000061	0.000058	0.000060	0.000039	0.000060	0.000058
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	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**
Maximum activity	0.000038	0.000056	0.000063	0.000060	0.000067	0.000063	0.000063	0.000070	0.000100	0.000070	0.000062	0.000047
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

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**
Maximum leakage	1.680	1.450	1.610	1.490	1.850	1.920	2.060	1.450	1.430	1.610	1.450	1.450
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	**5.6**	**4.8**	**5.4**	**5.0**	**6.2**	**6.4**	**6.9**	**4.8**	**4.8**	**5.4**	**4.8**	**4.8**
Reactor Coolant System Leakage	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**
Maximum leakage	1.480	1.430	1.450	1.880	1.720	1.860	1.720	1.960	2.070	2.180	1.710	1.720
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	**4.9**	**4.8**	**4.8**	**6.3**	**5.7**	**6.2**	**5.7**	**6.5**	**6.9**	**7.3**	**5.7**	**5.7**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful opportunities	24.0	37.0	111.0	13.0	6.0	34.0	14.0	24.0
Total opportunities	24.0	38.0	112.0	13.0	6.0	34.0	14.0	24.0
Indicator value	**98.3%**	**98.1%**	**98.4%**	**98.7%**	**98.7%**	**98.6%**	**98.9%**	**99.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Participating Key personnel	77.0	72.0	80.0	74.0	73.0	77.0	73.0	76.0
Total Key personnel	79.0	75.0	80.0	74.0	73.0	77.0	73.0	76.0
Indicator value	**97.5%**	**96.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful siren-tests	599	896	799	800	799	799	899	900
Total sirens-tests	600	900	800	800	800	800	900	900
Indicator value	**99.9%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments:

2Q/11: Siren Test canceled for May 9, 2011 due to severe weather in the area.

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
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	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: April 23, 2013

Browns Ferry 2

2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	2208.0	2137.2	1748.1	1383.3
Indicator value	**1.0**	**1.0**	**0.9**	**0**	**0**	**0.8**	**0.8**	**0.9**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	2208.0	2137.2	1748.1	1383.3
Indicator value	**1.9**	**1.9**	**1.7**	**0.8**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Scrams with complications	0	0	0	0	0	1.0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**

Licensee Comments:

1Q/13: Further analysis on the December 22, 2012, reactor scram, due to loss of power to RPS, determined that the reactor scram was complicated. December 2012 Unplanned Scrams with Complications data was revised from 0 to 1.

Notes

Safety System Functional Failures (BWR)	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	0	1	0	0	1	1	0	0
Indicator value	**2**	**2**	**2**	**1**	**2**	**2**	**2**	**2**

Licensee Comments:

4Q/12: LER 260/2012-004-00, High Pressure Coolant Injection System Rendered Inoperable Due to an Inadvertent Actuation of Primary Containment Isolation System. The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs. Based on this new guidance, the SSFF reported in April 2012 are removed for BFN, Units 1, 2, and 3. Changes to data were made on January 14, 2013, by BFN Licensing.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NUREG 1022 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NUREG 1022 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. The following LERs were once considered SSFFs that were identified as a result of the NFPA 805 Transition and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NEI 99-02 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are Safety System Functional Failures (SSFFs) identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

2Q/12: The following LERs are Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition in the 3rd Quarter of 2012. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. Therefore, these SSFFs are accounted for in the SSFF reported in the 2nd Quarter 2012.

2Q/12: The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs

2Q/12: The following LERs were identified as a result of the NFPA 805 Transition and are due to the same condition. In accordance with NEI 99-02 section 2.2, the following LERs count as single SSFF: LER 259/2012-001-00 - Unanalyzed Conditions Discovered During NFPA 805 Transition Review, LER 259/2012-002-00 - Fault Propagation During A Postulated Appendix R Event Could Result In An Inability To Close Motor Operated Valves, LER 259/2012-003-00 - Reactor Protection System Circuit Could Potentially Remain Energized During An Appendix R Fire, and LER 259/2012-004-00 - Fire Damage to Cables in Fire Areas Could Cause a Residual Heat Removal Service Water Pump to Spuriously Start.

4Q/11: LER 260/2011-001-00, Core Spray Relay Found in Incorrect Position

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/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	1.00E-07	7.85E-08	-9.28E-10	-2.25E-08	-3.20E-08	-3.22E-08	-2.12E-08	-2.03E-08
URI (ΔCDF)	6.84E-07	6.84E-07	7.86E-07	8.14E-07	8.43E-07	1.96E-06	2.07E-06	1.95E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.80E-07**	**7.60E-07**	**7.80E-07**	**7.90E-07**	**8.10E-07**	**1.90E-06**	**2.00E-06**	**1.90E-06**

Licensee Comments:

2Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.17E-06) has been replaced by a value of 5.00E-07.

1Q/13: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.15E-06) has been replaced by a value of 5.00E-07. MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013. On December 22, 2012, the Emergency AC Power system experienced a failure that was incorrectly categorized as a load/run failure instead of a run failure. The failure mode was corrected resulting in the performance indicator color changing from green to white in the 4th Quarter of 2012. This issue is being tracked by PERs 704392 and 669462.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has been replaced by a value of 5.00E-07.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has

been replaced by a value of 5.00E-07.

3Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.06E-06) has been replaced by a value of 5.00E-07. The A Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outage scheduled to be performed in the third quarter of 2012 (FAQ 468).

2Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.04E-06) has been replaced by a value of 5.00E-07. The D Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the second quarter of 2012 (FAQ 468).

1Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.02E-06) has been replaced by a value of 5.00E-07. Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). The B and C Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the first quarter of 2012 (FAQ 468). Revised Emergency Diesel Generator run hours to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours (FAQ 480). Revised Emergency Diesel Generator supercomponent boundary to include fuel oil transfer pumps/valves (FAQ 484).

4Q/11: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

3Q/11: Risk Cap Invoked. Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

3Q/11: Risk Cap Invoked. Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. The MSPI Risk Cap is also invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07.

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/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**
UAI (ΔCDF)	1.07E-07	2.09E-07	5.46E-08	6.13E-08	7.15E-08	7.17E-08	1.77E-07	1.67E-07
URI (ΔCDF)	-1.04E-07	-1.04E-07	-7.21E-08	-7.23E-08	-7.04E-08	-7.26E-08	-1.74E-07	-1.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.30E-09**	**1.10E-07**	**-1.80E-08**	**-1.10E-08**	**1.20E-09**	**-9.00E-10**	**2.80E-09**	**-1.90E-09**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

3Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

2Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all

occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

1Q/12: Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. No indicator color was impacted.

4Q/11: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. No indicator color was impacted.

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

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/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	1.53E-07	1.59E-07	1.54E-07	1.46E-07	-1.85E-09	-2.92E-10	1.53E-07	1.42E-07
URI (ΔCDF)	7.52E-08	7.45E-08	7.09E-08	7.02E-08	-3.46E-08	-3.49E-08	1.08E-07	1.14E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-07**	**2.30E-07**	**2.20E-07**	**2.20E-07**	**-3.60E-08**	**-3.50E-08**	**2.60E-07**	**2.60E-07**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

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/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**
UAI (ΔCDF)	6.08E-09	5.55E-09	8.00E-09	7.36E-09	5.64E-09	5.79E-09	1.85E-08	3.78E-08
URI (ΔCDF)	2.45E-09	2.50E-09	1.77E-09	3.68E-09	4.39E-09	5.23E-09	-1.29E-07	-1.26E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.50E-09**	**8.00E-09**	**9.80E-09**	**1.10E-08**	**1.00E-08**	**1.10E-08**	**-1.10E-07**	**-8.80E-08**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	6.27E-08	7.36E-08	6.85E-08	4.99E-08	5.20E-08	5.20E-08	6.60E-08	7.63E-08
URI (ΔCDF)	-3.78E-08	-3.78E-08	-4.97E-08	-3.37E-08	-3.37E-08	-3.37E-08	-2.28E-08	-2.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-08**	**3.60E-08**	**1.90E-08**	**1.60E-08**	**1.80E-08**	**1.80E-08**	**4.30E-08**	**5.30E-08**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

3Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

2Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

3Q/11: Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011. Problem Evaluation Report 468993 documents changes to RHRSW pump demand failures to run failures on failure reports 573, 584, and 692.

3Q/11: Changed PRA Parameter(s). Revised MSPI Basis Document and MSPI PRA Parameters based on Calculation NDN-000-999-2010-0003 Rev 005 to reflect BFN CAFTA PRA Model Rev 3 which was approved in June 2011. MSPI PRA Parameters based on this model are effective as of Third Quarter 2011.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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 activity	0.000039	0.000033	0.000057	0.000061	0.000058	0.000060	0.000039	0.000060	0.000058	0.000038	0.000056	0.000063
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	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**
Maximum activity	0.000060	0.000067	0.000063	0.000063	0.000070	0.000100	0.000070	0.000062	0.000047	N/A	0.000040	0.000022
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**	**N/A**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

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	1.490	1.850	1.920	2.060	1.450	1.430	1.610	1.450	1.450	1.480	1.430	1.450
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	**5.0**	**6.2**	**6.4**	**6.9**	**4.8**	**4.8**	**5.4**	**4.8**	**4.8**	**4.9**	**4.8**	**4.8**

Reactor Coolant System Leakage	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**

Maximum leakage	1.880	1.720	1.950	1.910	2.150	2.260	2.180	1.710	1.720	N/A	1.990	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	**6.3**	**5.7**	**6.5**	**6.4**	**7.2**	**7.5**	**7.3**	**5.7**	**5.7**	**N/A**	**6.6**	**5.5**

Licensee Comments:

6/13: The Maximum RCS Identified Leakage (gpm) was updated to reflect the correct leakage. This condition was identified in PER 694496. This affected July 2012 to December 2012. There was no color change.

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**
Successful opportunities	37.0	111.0	13.0	6.0	34.0	14.0	24.0	26.0
Total opportunities	38.0	112.0	13.0	6.0	34.0	14.0	24.0	26.0
Indicator value	**98.1%**	**98.4%**	**98.7%**	**98.7%**	**98.6%**	**98.9%**	**99.2%**	**99.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Participating Key personnel	72.0	80.0	74.0	73.0	77.0	73.0	76.0	76.0
Total Key personnel	75.0	80.0	74.0	73.0	77.0	73.0	76.0	77.0
Indicator value	**96.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.7%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	896	799	800	799	799	899	900	800
Total sirens-tests	900	800	800	800	800	900	900	800
Indicator value	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: August 19, 2013

Browns Ferry 2

3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2183.0	2184.0	2208.0	2137.2	1748.1	1383.3	2208.0
Indicator value	**1.0**	**0.9**	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2209.0	2183.0	2184.0	2208.0	2137.2	1748.1	1383.3	2208.0
Indicator value	**1.9**	**1.7**	**0.8**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Scrams with complications	0	0	0	0	1.0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**

Licensee Comments:

1Q/13: Further analysis on the December 22, 2012, reactor scram, due to loss of power to RPS, determined that the reactor scram was complicated. December 2012 Unplanned Scrams with Complications data was revised from 0 to 1.

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Safety System Functional Failures	1	0	0	1	1	0	0	0
Indicator value	**2**	**2**	**1**	**2**	**2**	**2**	**2**	**1**

Licensee Comments:

4Q/12: LER 260/2012-004-00, High Pressure Coolant Injection System Rendered Inoperable Due to an Inadvertent Actuation of Primary Containment Isolation System. The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs. Based on this new guidance, the SSFF reported in April 2012 are removed for BFN, Units 1, 2, and 3. Changes to data were made on January 14, 2013, by BFN Licensing.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NUREG 1022 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NUREG 1022 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. The following LERs were once considered SSFFs that were identified as a result of the NFPA 805 Transition and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NEI 99-02 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are Safety System Functional Failures (SSFFs) identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

2Q/12: The following LERs are Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition in the 3rd Quarter of 2012. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. Therefore, these SSFFs are accounted for in the SSFF reported in the 2nd Quarter 2012.

2Q/12: The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs

2Q/12: The following LERs were identified as a result of the NFPA 805 Transition and are due to the same condition. In accordance with NEI 99-02 section 2.2, the following LERs count as single SSFF: LER 259/2012-001-00 - Unanalyzed Conditions Discovered During NFPA 805 Transition Review, LER 259/2012-002-00 - Fault Propagation During A Postulated Appendix R Event Could Result In An Inability To Close Motor Operated Valves, LER 259/2012-003-00 - Reactor Protection System Circuit Could Potentially Remain Energized During An Appendix R Fire, and LER 259/2012-004-00 - Fire Damage to Cables in Fire Areas Could Cause a Residual Heat Removal Service Water Pump to Spuriously Start.

4Q/11: LER 260/2011-001-00, Core Spray Relay Found in Incorrect Position

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/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	7.85E-08	-9.28E-10	-2.25E-08	-3.20E-08	-3.22E-08	-2.12E-08	-2.03E-08	2.67E-08
URI (ΔCDF)	6.84E-07	7.86E-07	8.14E-07	8.43E-07	1.96E-06	2.07E-06	1.95E-06	2.01E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.60E-07**	**7.80E-07**	**7.90E-07**	**8.10E-07**	**1.90E-06**	**2.00E-06**	**1.90E-06**	**2.00E-06**

Licensee Comments:

3Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.19E-06) has been replaced by a value of 5.00E-07.

2Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.17E-06) has been replaced by a value of 5.00E-07.

1Q/13: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.15E-06) has been replaced by a value of 5.00E-07. MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013. On December 22, 2012, the Emergency AC Power system experienced a failure that was incorrectly categorized as a load/run failure instead of a run failure. The failure mode was corrected resulting in the performance indicator color changing from green to white in the 4th Quarter of 2012. This issue is being tracked by PERs 704392 and 669462.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has

been replaced by a value of 5.00E-07.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has been replaced by a value of 5.00E-07.

3Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.06E-06) has been replaced by a value of 5.00E-07. The A Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outage scheduled to be performed in the third quarter of 2012 (FAQ 468).

2Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.04E-06) has been replaced by a value of 5.00E-07. The D Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the second quarter of 2012 (FAQ 468).

1Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.02E-06) has been replaced by a value of 5.00E-07. Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). The B and C Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the first quarter of 2012 (FAQ 468). Revised Emergency Diesel Generator run hours to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours (FAQ 480). Revised Emergency Diesel Generator supercomponent boundary to include fuel oil transfer pumps/valves (FAQ 484).

4Q/11: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (7.17E-07) has been replaced by a value of 5.00E-07. Problem Evaluation Report 439980 documented that D DG Failure was incorrectly classified as a Start Failure in EPIX Report 624 associated with Heat Exchanger Fouling. Based on the Past Operability performed on D DG, it was determined that the failure of the DG would have been a load-run failure. This failure classification does not result in a significant impact to MSPI calculations.

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/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	2.09E-07	5.46E-08	6.13E-08	7.15E-08	7.17E-08	1.77E-07	1.67E-07	1.24E-07
URI (ΔCDF)	-1.04E-07	-7.21E-08	-7.23E-08	-7.04E-08	-7.26E-08	-1.74E-07	-1.69E-07	-1.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-07**	**-1.80E-08**	**-1.10E-08**	**1.20E-09**	**-9.00E-10**	**2.80E-09**	**-1.90E-09**	**-4.50E-08**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

3Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

2Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all

occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

1Q/12: Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. No indicator color was impacted.

4Q/11: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. No indicator color was impacted.

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/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	1.59E-07	1.54E-07	1.46E-07	-1.85E-09	-2.92E-10	1.53E-07	1.42E-07	1.42E-07
URI (ΔCDF)	7.17E-08	6.83E-08	6.76E-08	-3.55E-08	-3.91E-08	8.96E-08	9.54E-08	9.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-07**	**2.20E-07**	**2.10E-07**	**-3.70E-08**	**-3.90E-08**	**2.40E-07**	**2.40E-07**	**2.40E-07**

Licensee Comments:

3Q/13: Added previously uncounted RCIC injection demands. Added demand data for Unit 2 in April 2011 and December 2012. BFNs interpretation of what RCIC demands need to be counted changed for RCIC. This did not impact the MSPI color of RCIC.

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/13: MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/12: Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

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/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	5.55E-09	8.00E-09	7.36E-09	5.64E-09	5.79E-09	1.85E-08	3.78E-08	5.24E-08
URI (ΔCDF)	2.50E-09	1.77E-09	3.68E-09	4.39E-09	5.23E-09	-1.29E-07	-1.26E-07	-1.26E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.00E-09**	**9.80E-09**	**1.10E-08**	**1.00E-08**	**1.10E-08**	**-1.10E-07**	**-8.80E-08**	**-7.40E-08**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

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/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	7.36E-08	6.85E-08	4.99E-08	5.20E-08	5.20E-08	6.60E-08	7.63E-08	1.25E-07
URI (ΔCDF)	-3.78E-08	-4.97E-08	-3.37E-08	-3.37E-08	-3.37E-08	-2.28E-08	-2.28E-08	-2.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.60E-08**	**1.90E-08**	**1.60E-08**	**1.80E-08**	**1.80E-08**	**4.30E-08**	**5.30E-08**	**1.00E-07**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

3Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

2Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**
Maximum activity	0.000061	0.000058	0.000060	0.000039	0.000060	0.000058	0.000038	0.000056	0.000063	0.000060	0.000067	0.000063
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	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**
Maximum activity	0.000063	0.000070	0.000100	0.000070	0.000062	0.000047	N/A	0.000040	0.000022	0.000037	0.000040	0.000049
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**	**N/A**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**
Maximum leakage	2.060	1.450	1.430	1.610	1.450	1.450	1.480	1.430	1.450	1.880	1.720	1.950
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	**6.9**	**4.8**	**4.8**	**5.4**	**4.8**	**4.8**	**4.9**	**4.8**	**4.8**	**6.3**	**5.7**	**6.5**
Reactor Coolant System Leakage	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**
Maximum leakage	1.910	2.150	2.260	2.180	1.710	1.720	N/A	1.990	1.660	1.750	1.770	1.840
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	**6.4**	**7.2**	**7.5**	**7.3**	**5.7**	**5.7**	**N/A**	**6.6**	**5.5**	**5.8**	**5.9**	**6.1**

Licensee Comments:

6/13: The Maximum RCS Identified Leakage (gpm) was updated to reflect the correct leakage. This condition was identified in PER 694496. This affected July 2012 to December 2012. There was no color change.

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
Successful opportunities	111.0	13.0	6.0	34.0	14.0	24.0	26.0	41.0
Total opportunities	112.0	13.0	6.0	34.0	14.0	24.0	26.0	42.0
Indicator value	**98.4%**	**98.7%**	**98.7%**	**98.6%**	**98.9%**	**99.2%**	**99.3%**	**99.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Participating Key personnel	80.0	74.0	73.0	77.0	73.0	76.0	76.0	79.0
Total Key personnel	80.0	74.0	73.0	77.0	73.0	76.0	77.0	80.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.7%**	**98.8%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful siren-tests	799	800	799	799	899	900	800	932
Total sirens-tests	800	800	800	800	900	900	800	932
Indicator value	**99.8%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: October 22, 2013

Browns Ferry 2

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2137.2	1748.1	1383.3	2208.0	2209.0
Indicator value	**0.9**	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	0	0	0	0	0	0	1.0	1.0
Critical hours	2183.0	2184.0	2208.0	2137.2	1748.1	1383.3	2208.0	2209.0
Indicator value	**1.7**	**0.8**	**0**	**0**	**0**	**0**	**0.9**	**1.9**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Scrams with complications	0	0	0	1.0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**

Licensee Comments:

1Q/13: Further analysis on the December 22, 2012, reactor scram, due to loss of power to RPS, determined that the reactor scram was complicated. December 2012 Unplanned Scrams with Complications data was revised from 0 to 1.

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	0	0	1	1	0	0	0	1
Indicator value	**2**	**1**	**2**	**2**	**2**	**2**	**1**	**1**

Licensee Comments:

4Q/13: LER 50-260/2013-002-00, High Pressure Coolant Injection System Declared Inoperable Due to an Unqualified Electrical Splice

4Q/12: LER 260/2012-004-00, High Pressure Coolant Injection System Rendered Inoperable Due to an Inadvertent Actuation of Primary Containment Isolation System. The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs. Based on this new guidance, the SSFF reported in April 2012 are removed for BFN, Units 1, 2, and 3. Changes to data were made on January 14, 2013, by BFN Licensing.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NUREG 1022 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NUREG 1022 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. The following LERs were once considered SSFFs that were identified as a result of the NFPA 805 Transition

and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NEI 99-02 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are Safety System Functional Failures (SSFFs) identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

2Q/12: The following LERs are Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition in the 3rd Quarter of 2012. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. Therefore, these SSFFs are accounted for in the SSFF reported in the 2nd Quarter 2012.

2Q/12: The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs

2Q/12: The following LERs were identified as a result of the NFPA 805 Transition and are due to the same condition. In accordance with NEI 99-02 section 2.2, the following LERs count as single SSFF: LER 259/2012-001-00 - Unanalyzed Conditions Discovered During NFPA 805 Transition Review, LER 259/2012-002-00 - Fault Propagation During A Postulated Appendix R Event Could Result In An Inability To Close Motor Operated Valves, LER 259/2012-003-00 - Reactor Protection System Circuit Could Potentially Remain Energized During An Appendix R Fire, and LER 259/2012-004-00 - Fire Damage to Cables in Fire Areas Could Cause a Residual Heat Removal Service Water Pump to Spuriously Start.

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	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	-9.28E-10	-2.25E-08	-3.20E-08	-3.22E-08	-2.12E-08	-2.03E-08	2.67E-08	4.76E-08
URI (ΔCDF)	7.86E-07	8.14E-07	8.43E-07	1.96E-06	2.07E-06	1.95E-06	2.01E-06	3.28E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.80E-07**	**7.90E-07**	**8.10E-07**	**1.90E-06**	**2.00E-06**	**1.90E-06**	**2.00E-06**	**3.30E-06**

Licensee Comments:

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. There was one additional failure during the 4th Quarter 2013. On 11/23/2013, EDG A was removed from service to repair a fuel fitting which failed during a run.

3Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.19E-06) has been replaced by a value of 5.00E-07.

2Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.17E-06) has been replaced by a value of 5.00E-07.

1Q/13: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.15E-06) has been replaced by a value of 5.00E-07. MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013. On December 22, 2012, the Emergency AC Power system experienced a failure that was incorrectly categorized as a load/run failure

instead of a run failure. The failure mode was corrected resulting in the performance indicator color changing from green to white in the 4th Quarter of 2012. This issue is being tracked by PERs 704392 and 669462.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has been replaced by a value of 5.00E-07.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has been replaced by a value of 5.00E-07.

3Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.06E-06) has been replaced by a value of 5.00E-07. The A Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outage scheduled to be performed in the third quarter of 2012 (FAQ 468).

2Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.04E-06) has been replaced by a value of 5.00E-07. The D Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the second quarter of 2012 (FAQ 468).

1Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.02E-06) has been replaced by a value of 5.00E-07. Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). The B and C Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the first quarter of 2012 (FAQ 468). Revised Emergency Diesel Generator run hours to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours (FAQ 480). Revised Emergency Diesel Generator supercomponent boundary to include fuel oil transfer pumps/valves (FAQ 484).

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	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	5.46E-08	6.13E-08	7.15E-08	7.17E-08	1.77E-07	1.67E-07	1.24E-07	1.34E-07
URI (ΔCDF)	-7.21E-08	-7.23E-08	-7.04E-08	-7.26E-08	-1.74E-07	-1.69E-07	-1.69E-07	-1.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-08**	**-1.10E-08**	**1.20E-09**	**-9.00E-10**	**2.80E-09**	**-1.90E-09**	**-4.50E-08**	**-3.60E-08**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

3Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

2Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all

occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

1Q/12: Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468). Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. No indicator color was impacted.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

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	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13

UAI (ΔCDF)	1.54E-07	1.46E-07	-1.85E-09	-2.92E-10	1.53E-07	1.42E-07	1.42E-07	1.73E-07
URI (ΔCDF)	6.83E-08	6.76E-08	-3.55E-08	-3.91E-08	8.96E-08	9.54E-08	9.54E-08	9.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.20E-07**	**2.10E-07**	**-3.70E-08**	**-3.90E-08**	**2.40E-07**	**2.40E-07**	**2.40E-07**	**2.70E-07**

Licensee Comments:

3Q/13: Added previously uncounted RCIC injection demands. Added demand data for Unit 2 in April 2011 and December 2012. BFNs interpretation of what RCIC demands need to be counted changed for RCIC. This did not impact the MSPI color of RCIC.

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/13: MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/12: Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

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	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	8.00E-09	7.36E-09	5.64E-09	5.79E-09	1.85E-08	3.78E-08	5.24E-08	5.98E-08
URI (ΔCDF)	1.77E-09	3.68E-09	4.39E-09	5.23E-09	-1.29E-07	-1.26E-07	-1.26E-07	-1.26E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.80E-09**	**1.10E-08**	**1.00E-08**	**1.10E-08**	**-1.10E-07**	**-8.80E-08**	**-7.40E-08**	**-6.60E-08**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

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	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	6.85E-08	4.99E-08	5.20E-08	5.20E-08	6.60E-08	7.63E-08	1.25E-07	1.40E-07
URI (ΔCDF)	-4.97E-08	-3.37E-08	-3.37E-08	-3.37E-08	-2.28E-08	-2.28E-08	-2.28E-08	-2.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.90E-08**	**1.60E-08**	**1.80E-08**	**1.80E-08**	**4.30E-08**	**5.30E-08**	**1.00E-07**	**1.20E-07**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

3Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

2Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

1Q/12: Changed PRA Parameter(s). Revised PRA parameters based on Calculation NDN-000-999-2010-0003 rev 006 to reflect CAFTA PRA Model Revision 4. CAFTA PRA Model Revision 4 was performed in accordance with NEI 99-02 to evaluate the impacts of adjusting the Diesel Generator Baseline Planned Unavailability in conjunction with the 12-Year Diesel Maintenance Outages (FAQ 468).

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**
Maximum activity	0.000039	0.000060	0.000058	0.000038	0.000056	0.000063	0.000060	0.000067	0.000063	0.000063	0.000070	0.000100
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	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**
Maximum activity	0.000070	0.000062	0.000047	N/A	0.000040	0.000022	0.000037	0.000040	0.000049	0.000064	0.000072	0.000057
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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**
Maximum leakage	1.610	1.450	1.450	1.480	1.430	1.450	1.880	1.720	1.950	1.910	2.150	2.260
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**	**4.8**	**4.8**	**4.9**	**4.8**	**4.8**	**6.3**	**5.7**	**6.5**	**6.4**	**7.2**	**7.5**
Reactor Coolant System Leakage	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**
Maximum leakage	2.180	1.710	1.720	N/A	1.990	1.660	1.750	1.770	1.840	1.840	1.600	1.590
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	**7.3**	**5.7**	**5.7**	**N/A**	**6.6**	**5.5**	**5.8**	**5.9**	**6.1**	**6.1**	**5.3**	**5.3**

Licensee Comments:

6/13: The Maximum RCS Identified Leakage (gpm) was updated to reflect the correct leakage. This condition was identified in PER 694496. This affected July 2012 to December 2012. There was no color change.

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	13.0	6.0	34.0	14.0	24.0	26.0	41.0	70.0
Total opportunities	13.0	6.0	34.0	14.0	24.0	26.0	42.0	70.0
Indicator value	**98.7%**	**98.7%**	**98.6%**	**98.9%**	**99.2%**	**99.3%**	**99.3%**	**99.6%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	74.0	73.0	77.0	73.0	76.0	76.0	79.0	81.0
Total Key personnel	74.0	73.0	77.0	73.0	76.0	77.0	80.0	82.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.7%**	**98.8%**	**98.8%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	800	799	799	899	900	800	932	622
Total sirens-tests	800	800	800	900	900	800	932	624
Indicator value	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: January 22, 2014

Browns Ferry 2

1Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2184.0	2208.0	2137.2	1748.1	1383.3	2208.0	2209.0	2159.0
Indicator value	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned power changes	0	0	0	0	0	1.0	1.0	1.0
Critical hours	2184.0	2208.0	2137.2	1748.1	1383.3	2208.0	2209.0	2159.0
Indicator value	**0.8**	**0**	**0**	**0**	**0**	**0.9**	**1.9**	**2.6**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Scrams with complications	0	0	1.0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**

Licensee Comments:

1Q/13: Further analysis on the December 22, 2012, reactor scram, due to loss of power to RPS, determined that the reactor scram was complicated. December 2012 Unplanned Scrams with Complications data was revised from 0 to 1.

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Safety System Functional Failures	0	1	1	0	0	0	1	0
Indicator value	**1**	**2**	**2**	**2**	**2**	**1**	**1**	**1**

Licensee Comments:

4Q/13: LER 50-260/2013-002-00, High Pressure Coolant Injection System Declared Inoperable Due to an Unqualified Electrical Splice

4Q/12: LER 260/2012-004-00, High Pressure Coolant Injection System Rendered Inoperable Due to an Inadvertent Actuation of Primary Containment Isolation System. The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs. Based on this new guidance, the SSFF reported in April 2012 are removed for BFN, Units 1, 2, and 3. Changes to data were made on January 14, 2013, by BFN Licensing.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NUREG 1022 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NUREG 1022 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. The following LERs were once considered SSFFs that were identified as a result of the NFPA 805 Transition

and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NEI 99-02 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are Safety System Functional Failures (SSFFs) identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

2Q/12: The following LERs are Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition in the 3rd Quarter of 2012. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. Therefore, these SSFFs are accounted for in the SSFF reported in the 2nd Quarter 2012.

2Q/12: The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs

2Q/12: The following LERs were identified as a result of the NFPA 805 Transition and are due to the same condition. In accordance with NEI 99-02 section 2.2, the following LERs count as single SSFF: LER 259/2012-001-00 - Unanalyzed Conditions Discovered During NFPA 805 Transition Review, LER 259/2012-002-00 - Fault Propagation During A Postulated Appendix R Event Could Result In An Inability To Close Motor Operated Valves, LER 259/2012-003-00 - Reactor Protection System Circuit Could Potentially Remain Energized During An Appendix R Fire, and LER 259/2012-004-00 - Fire Damage to Cables in Fire Areas Could Cause a Residual Heat Removal Service Water Pump to Spuriously Start.

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/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	-2.25E-08	-3.20E-08	-3.22E-08	-2.12E-08	-2.03E-08	2.67E-08	4.45E-08	1.66E-08
URI (ΔCDF)	8.14E-07	8.43E-07	1.96E-06	2.07E-06	1.95E-06	2.01E-06	2.07E-06	2.13E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.90E-07**	**8.10E-07**	**1.90E-06**	**2.00E-06**	**1.90E-06**	**2.00E-06**	**2.10E-06**	**2.10E-06**

Licensee Comments:

1Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.24E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as an MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure. The 4th Quarter 2013 data has been updated to remove the MSPI failure. This change will not affect the color of the indicator.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as a MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. There was one additional failure during the 4th Quarter 2013. On 11/23/2013, EDG A was removed from service to repair a fuel fitting which failed during a run.

3Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.19E-06) has been replaced by a value of 5.00E-07.

2Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.17E-06) has been replaced by a value of 5.00E-07.

1Q/13: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.15E-06) has been replaced by a value of 5.00E-07. MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013. On December 22, 2012, the Emergency AC Power system experienced a failure that was incorrectly categorized as a load/run failure instead of a run failure. The failure mode was corrected resulting in the performance indicator color changing from green to white in the 4th Quarter of 2012. This issue is being tracked by PERs 704392 and 669462.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has been replaced by a value of 5.00E-07.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has been replaced by a value of 5.00E-07.

3Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.06E-06) has been replaced by a value of 5.00E-07. The A Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outage scheduled to be performed in the third quarter of 2012 (FAQ 468).

2Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.04E-06) has been replaced by a value of 5.00E-07. The D Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outages scheduled to be performed in the second quarter of 2012 (FAQ 468).

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/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	6.13E-08	7.15E-08	7.17E-08	1.77E-07	1.67E-07	1.24E-07	1.34E-07	1.21E-07
URI (ΔCDF)	-7.23E-08	-7.04E-08	-7.26E-08	-1.74E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-08**	**1.20E-09**	**-9.00E-10**	**2.80E-09**	**-1.90E-09**	**-4.50E-08**	**-3.60E-08**	**-4.80E-08**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

3Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

2Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all

occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

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/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	1.46E-07	-1.85E-09	-2.92E-10	1.53E-07	1.42E-07	1.42E-07	1.73E-07	1.63E-07
URI (ΔCDF)	6.76E-08	-3.55E-08	-3.91E-08	8.96E-08	9.54E-08	9.54E-08	9.54E-08	9.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.10E-07**	**-3.70E-08**	**-3.90E-08**	**2.40E-07**	**2.40E-07**	**2.40E-07**	**2.70E-07**	**2.60E-07**

Licensee Comments:

3Q/13: Added previously uncounted RCIC injection demands. Added demand data for Unit 2 in April 2011 and December 2012. BFNs interpretation of what RCIC demands need to be counted changed for RCIC. This did not impact the MSPI color of RCIC.

1Q/13: MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003

Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

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/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	7.36E-09	5.64E-09	5.79E-09	1.85E-08	3.78E-08	5.24E-08	5.98E-08	5.28E-08
URI (ΔCDF)	3.64E-09	4.32E-09	5.14E-09	-1.29E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-08**	**1.00E-08**	**1.10E-08**	**-1.10E-07**	**-8.80E-08**	**-7.40E-08**	**-6.70E-08**	**-7.40E-08**

Licensee Comments:

1Q/14: During the first quarter of 2014, the following changes were made to numerical values in the INPO CDE database for the Browns Ferry Nuclear Plant (BFN). 1. Common Cause Factor (CCF) for 3-FCV-023-0034 was

changed to the correct value of 2.00. Effective 2011-01 to present. 2. Operational Non-test demands(D) value for 2-FCV-023-0046 was changed to the correct value of 82. Effective 2012-01 to present. 3. Operational Non-test demands(D) value for 3-FCV-023-0040 was changed to the correct value of 88. Effective 2012-01 to present. 4. Operational Non-test run-hours value for 1-PMP-074-0039 was changed to the correct value of 333.54 hours. Effective 2011-01 to present. 5. Test run-hours value for 1-PMP-074-0039 was changed to the correct value of 31.87 hours. Effective 2011-01 to present. These changes result in the BFN Residual Heat Removal System MSPI indicator values for past reporting periods to be different than previously reported, as indicated by the effective dates identified above. No MSPI color changes resulted from these changes to the numerical values. Reference BFN Problem Evaluation Report (PER) 851845.

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

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/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	4.99E-08	5.20E-08	5.20E-08	6.60E-08	7.63E-08	1.25E-07	1.40E-07	1.34E-07
URI (ΔCDF)	-3.37E-08	-3.37E-08	-3.37E-08	-2.28E-08	-2.28E-08	-2.28E-08	-2.28E-08	-2.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO

Indicator value	**1.60E-08**	**1.80E-08**	**1.80E-08**	**4.30E-08**	**5.30E-08**	**1.00E-07**	**1.20E-07**	**1.10E-07**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

3Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

2Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**
Maximum activity	0.000038	0.000056	0.000063	0.000060	0.000067	0.000063	0.000063	0.000070	0.000100	0.000070	0.000062	0.000047
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	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**
Maximum activity	N/A	0.000040	0.000022	0.000037	0.000040	0.000049	0.000064	0.000072	0.000057	0.000109	0.000108	0.000104
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	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**
Maximum leakage	1.480	1.430	1.450	1.880	1.720	1.950	1.910	2.150	2.260	2.180	1.710	1.720
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	**4.9**	**4.8**	**4.8**	**6.3**	**5.7**	**6.5**	**6.4**	**7.2**	**7.5**	**7.3**	**5.7**	**5.7**

Reactor Coolant System Leakage	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum leakage	N/A	1.990	1.660	1.750	1.770	1.840	1.840	1.600	1.590	1.600	1.520	1.540
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	**N/A**	**6.6**	**5.5**	**5.8**	**5.9**	**6.1**	**6.1**	**5.3**	**5.3**	**5.3**	**5.1**	**5.1**

Licensee Comments:

6/13: The Maximum RCS Identified Leakage (gpm) was updated to reflect the correct leakage. This condition was identified in PER 694496. This affected July 2012 to December 2012. There was no color change.

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful opportunities	6.0	34.0	14.0	24.0	26.0	40.0	70.0	12.0
Total opportunities	6.0	34.0	14.0	24.0	26.0	42.0	70.0	12.0
Indicator value	**98.7%**	**98.6%**	**98.9%**	**99.2%**	**99.3%**	**98.9%**	**99.1%**	**99.1%**

Licensee Comments:

1Q/14: Revised Successful drill, exer & event opportunities to reflect an additional DEP failure for the September (3rd quarter) 2013 report period. This revision did not result in a color change. PER # 836157

Notes

ERO Drill Participation	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Participating Key personnel	73.0	77.0	73.0	76.0	76.0	79.0	81.0	76.0
Total Key personnel	73.0	77.0	73.0	76.0	77.0	80.0	82.0	76.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.7%**	**98.8%**	**98.8%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful siren-tests	799	799	899	900	800	932	622	1040
Total sirens-tests	800	800	900	900	800	932	624	1040
Indicator value	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**99.9%**	**99.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: April 23, 2014

Browns Ferry 2

2Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2208.0	2137.2	1748.1	1383.3	2208.0	2209.0	2159.0	2184.0
Indicator value	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned power changes	0	0	0	0	1.0	1.0	1.0	0
Critical hours	2208.0	2137.2	1748.1	1383.3	2208.0	2209.0	2159.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**1.9**	**2.6**	**2.4**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
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:

1Q/13: Further analysis on the December 22, 2012, reactor scram, due to loss of power to RPS, determined that the reactor scram was complicated. December 2012 Unplanned Scrams with Complications data was revised from 0 to 1.

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Safety System Functional Failures	1	1	0	0	0	1	0	0
Indicator value	**2**	**2**	**2**	**2**	**1**	**1**	**1**	**1**

Licensee Comments:

4Q/13: LER 50-260/2013-002-00, High Pressure Coolant Injection System Declared Inoperable Due to an Unqualified Electrical Splice

4Q/12: LER 260/2012-004-00, High Pressure Coolant Injection System Rendered Inoperable Due to an Inadvertent Actuation of Primary Containment Isolation System. The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs. Based on this new guidance, the SSFF reported in April 2012 are removed for BFN, Units 1, 2, and 3. Changes to data were made on January 14, 2013, by BFN Licensing.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are Safety System Functional Failures (SSFFs) identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-

004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NUREG 1022 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NUREG 1022 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. The following LERs were once considered SSFFs that were identified as a result of the NFPA 805 Transition and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs.

3Q/12: LER 260/2012-002-00, High Pressure Injection System Rendered Inoperable Due to an Inoperable Primary Containment Isolation Valve. A Frequently Asked Question (FAQ) was presented at the October 17, 2012, Reactor Oversight Process Task Force Meeting related to the application of NEI 99-02 guidance for counting additional failures as a single Safety System Functional Failure (SSFF). This FAQ could impact current or previously submitted data. NEI 99-02 section 2.2, page 29, lines 22-25, indicates that when an evaluation leads to finding additional failures, the original and subsequent failures are counted as one. The evaluation in this case is the ongoing examination of the Browns Ferry Fire Protection Program to support the transition to NFPA 805. LER 259/2012-007-00, submitted on July 31, 2012, and LER 259/2012-007-01, submitted on September 7, 2012, are SSFFs identified as a result of the NFPA 805 Transition. The following LERs are SSFFs that were identified as a result of the NFPA 805 Transition in 2nd Quarter 2012: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, and LER 259/2012-004-00. Therefore, these SSFFs are accounted for in the SSFF reported 2nd Quarter of 2012.

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/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	-3.20E-08	-3.22E-08	-2.12E-08	-2.03E-08	2.67E-08	4.45E-08	1.66E-08	1.00E-08
URI (ΔCDF)	8.43E-07	1.96E-06	2.07E-06	1.95E-06	2.01E-06	2.07E-06	2.13E-06	-3.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.10E-07**	**1.90E-06**	**2.00E-06**	**1.90E-06**	**2.00E-06**	**2.10E-06**	**2.10E-06**	**-2.00E-08**

Licensee Comments:

2Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.88E-06) has been replaced by a value of 5.00E-07.

1Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.24E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as an MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure. The 4th Quarter 2013 data has been updated to remove the MSPI failure. This change will not affect the color of the indicator.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. There was one additional failure during the 4th Quarter 2013. On 11/23/2013, EDG A was removed from service to repair a fuel fitting which failed during a run.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure

(1.22E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as a MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure.

3Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.19E-06) has been replaced by a value of 5.00E-07.

2Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.17E-06) has been replaced by a value of 5.00E-07.

1Q/13: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.15E-06) has been replaced by a value of 5.00E-07. MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013. On December 22, 2012, the Emergency AC Power system experienced a failure that was incorrectly categorized as a load/run failure instead of a run failure. The failure mode was corrected resulting in the performance indicator color changing from green to white in the 4th Quarter of 2012. This issue is being tracked by PERs 704392 and 669462.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has been replaced by a value of 5.00E-07.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has been replaced by a value of 5.00E-07.

3Q/12: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.06E-06) has been replaced by a value of 5.00E-07. The A Diesel Generator Baseline Planned Unavailability was adjusted to reflect the 12-Year Diesel Maintenance Outage scheduled to be performed in the third quarter of 2012 (FAQ 468).

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/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	7.15E-08	7.17E-08	1.77E-07	1.67E-07	1.24E-07	1.34E-07	1.21E-07	1.08E-07
URI (ΔCDF)	-7.04E-08	-7.26E-08	-1.74E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.20E-09**	**-9.00E-10**	**2.80E-09**	**-1.90E-09**	**-4.50E-08**	**-3.60E-08**	**-4.80E-08**	**-6.20E-08**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

3Q/12: Previously submitted data has been revised due to a new more conservative interpretation of short term duration surveillances. A recent Engineering review indicates surveillance listed in the MSPI Basis Document occasionally took longer than 15 minutes. The revision for this quarters previously submitted data incorporates all occurrences of the subject surveillance that took longer than the allotted 15 minutes. This impacts the following data: Unit 1- April 2012. Unit 2 - December 2011, March 2012, June 2012. Unit 3 - November 2011, February 2012, August 2012. Changes were also made to account for Unplanned Unavailability hours for High Pressure Injection System for the month of June 2012. No indicator color was impacted.

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	-1.85E-09	-2.92E-10	1.53E-07	1.42E-07	1.42E-07	1.73E-07	1.63E-07	1.60E-07
URI (ΔCDF)	-3.55E-08	-3.91E-08	8.96E-08	9.54E-08	9.54E-08	9.54E-08	9.54E-08	9.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.70E-08**	**-3.90E-08**	**2.40E-07**	**2.40E-07**	**2.40E-07**	**2.70E-07**	**2.60E-07**	**2.60E-07**

Licensee Comments:

3Q/13: Added previously uncounted RCIC injection demands. Added demand data for Unit 2 in April 2011 and December 2012. BFNs interpretation of what RCIC demands need to be counted changed for RCIC. This did not impact the MSPI color of RCIC.

1Q/13: MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

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/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	5.64E-09	5.79E-09	1.85E-08	3.78E-08	5.24E-08	5.98E-08	5.28E-08	5.85E-08
URI (ΔCDF)	4.32E-09	5.14E-09	-1.29E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.00E-08**	**1.10E-08**	**-1.10E-07**	**-8.80E-08**	**-7.40E-08**	**-6.70E-08**	**-7.40E-08**	**-6.80E-08**

Licensee Comments:

1Q/14: During the first quarter of 2014, the following changes were made to numerical values in the INPO CDE database for the Browns Ferry Nuclear Plant (BFN). 1. Common Cause Factor (CCF) for 3-FCV-023-0034 was changed to the correct value of 2.00. Effective 2011-01 to present. 2. Operational Non-test demands(D) value for 2-FCV-023-0046 was changed to the correct value of 82. Effective 2012-01 to present. 3. Operational Non-test demands(D) value for 3-FCV-023-0040 was changed to the correct value of 88. Effective 2012-01 to present. 4. Operational Non-test run-hours value for 1-PMP-074-0039 was changed to the correct value of 333.54 hours. Effective 2011-01 to present. 5. Test run-hours value for 1-PMP-074-0039 was changed to the correct value of 31.87 hours. Effective 2011-01 to present. These changes result in the BFN Residual Heat Removal System MSPI indicator values for past reporting periods to be different than previously reported, as

indicated by the effective dates identified above. No MSPI color changes resulted from these changes to the numerical values. Reference BFN Problem Evaluation Report (PER) 851845.

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

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/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	5.20E-08	5.20E-08	6.60E-08	7.63E-08	1.25E-07	1.40E-07	1.34E-07	1.25E-07
URI (ΔCDF)	-3.37E-08	-3.37E-08	-2.28E-08	-2.28E-08	-2.28E-08	-2.28E-08	-2.28E-08	-3.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.80E-08**	**1.80E-08**	**4.30E-08**	**5.30E-08**	**1.00E-07**	**1.20E-07**	**1.10E-07**	**8.60E-08**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved

on 11/06/12. These changes are effective first quarter 2013.

3Q/12: 2nd Quarter 2012 Data were updated. On April 4, 2012, B2 Residual Heat Removal Service Water pump failed to start when given a start signal. No indicator color was impacted by this event.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**
Maximum activity	0.000060	0.000067	0.000063	0.000063	0.000070	0.000100	0.000070	0.000062	0.000047	N/A	0.000040	0.000022
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**	**N/A**	**0**	**0**

Reactor Coolant System Activity	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**
Maximum activity	0.000037	0.000040	0.000049	0.000064	0.000072	0.000057	0.000109	0.000108	0.000104	0.000059	0.000075	0.000056
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	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**
Maximum leakage	1.880	1.720	1.950	1.910	2.150	2.260	2.180	1.710	1.720	N/A	1.990	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	**6.3**	**5.7**	**6.5**	**6.4**	**7.2**	**7.5**	**7.3**	**5.7**	**5.7**	**N/A**	**6.6**	**5.5**
Reactor Coolant System Leakage	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**
Maximum leakage	1.750	1.770	1.840	1.840	1.600	1.590	1.600	1.520	1.540	2.080	1.600	1.930
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	**5.8**	**5.9**	**6.1**	**6.1**	**5.3**	**5.3**	**5.3**	**5.1**	**5.1**	**6.9**	**5.3**	**6.4**

Licensee Comments:

6/13: The Maximum RCS Identified Leakage (gpm) was updated to reflect the correct leakage. This condition

was identified in PER 694496. This affected July 2012 to December 2012. There was no color change.

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful opportunities	34.0	14.0	24.0	26.0	40.0	70.0	12.0	63.0
Total opportunities	34.0	14.0	24.0	26.0	42.0	70.0	12.0	64.0
Indicator value	**98.6%**	**98.9%**	**99.2%**	**99.3%**	**98.9%**	**99.1%**	**99.1%**	**99.0%**

Licensee Comments:

1Q/14: Revised Successful drill, exer & event opportunities to reflect an additional DEP failure for the September (3rd quarter) 2013 report period. This revision did not result in a color change. PER # 836157

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Participating Key personnel	77.0	73.0	76.0	76.0	79.0	81.0	76.0	78.0
Total Key personnel	77.0	73.0	76.0	77.0	80.0	82.0	76.0	78.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**98.7%**	**98.8%**	**98.8%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful siren-tests	799	899	900	800	932	622	1040	624
Total sirens-tests	800	900	900	800	932	624	1040	624
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: July 31, 2014

Browns Ferry 2

3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2137.2	1748.1	1383.3	2208.0	2209.0	2159.0	2184.0	2122.1
Indicator value	**0.8**	**0.8**	**0.9**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned power changes	0	0	0	1.0	1.0	1.0	0	0
Critical hours	2137.2	1748.1	1383.3	2208.0	2209.0	2159.0	2184.0	2122.1
Indicator value	**0**	**0**	**0**	**0.9**	**1.9**	**2.6**	**2.4**	**1.6**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Scrams with complications	1.0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments:

1Q/13: Further analysis on the December 22, 2012, reactor scram, due to loss of power to RPS, determined that the reactor scram was complicated. December 2012 Unplanned Scrams with Complications data was revised from 0 to 1.

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Safety System Functional Failures	1	0	0	0	1	0	0	1
Indicator value	**2**	**2**	**2**	**1**	**1**	**1**	**1**	**2**

Licensee Comments:

3Q/14: 07/21/2014 - LER 260/2014-003-00 - Both Trains of Standby Liquid Control Inoperable

4Q/13: LER 50-260/2013-002-00, High Pressure Coolant Injection System Declared Inoperable Due to an Unqualified Electrical Splice

4Q/12: LER 260/2012-004-00, High Pressure Coolant Injection System Rendered Inoperable Due to an Inadvertent Actuation of Primary Containment Isolation System. The following LERs were once considered Safety System Functional Failures (SSFFs) that were identified as a result of the NFPA 805 Transition and counted as a single SSFF: LER 259/2012-001-00, LER 259/2012-002-00, LER 259/2012-003-00, LER 259/2012-004-00, LER 259/2012-007-00, and LER 259/2012-007-01. Based on discussions with the NRC and new guidance in NUREG 1022 these LERs are no longer considered to be SSFFs. Based on this new guidance, the SSFF reported in April 2012 are removed for BFN, Units 1, 2, and 3. Changes to data were made on January 14, 2013, by BFN Licensing.

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/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (ΔCDF)	-3.22E-08	-2.12E-08	-2.03E-08	2.67E-08	4.45E-08	1.66E-08	1.00E-08	1.09E-08
URI (ΔCDF)	1.96E-06	2.07E-06	1.95E-06	2.01E-06	2.07E-06	2.13E-06	-3.05E-08	3.02E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.90E-06**	**2.00E-06**	**1.90E-06**	**2.00E-06**	**2.10E-06**	**2.10E-06**	**-2.00E-08**	**1.10E-08**

Licensee Comments:

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07.

2Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.88E-06) has been replaced by a value of 5.00E-07.

1Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.24E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as an MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure. The 4th Quarter 2013 data has been updated to remove the MSPI failure. This change will not affect the color of the indicator.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously

documented as a MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. There was one additional failure during the 4th Quarter 2013. On 11/23/2013, EDG A was removed from service to repair a fuel fitting which failed during a run.

3Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.19E-06) has been replaced by a value of 5.00E-07.

2Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.17E-06) has been replaced by a value of 5.00E-07.

1Q/13: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.15E-06) has been replaced by a value of 5.00E-07. MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013. On December 22, 2012, the Emergency AC Power system experienced a failure that was incorrectly categorized as a load/run failure instead of a run failure. The failure mode was corrected resulting in the performance indicator color changing from green to white in the 4th Quarter of 2012. This issue is being tracked by PERs 704392 and 669462.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has been replaced by a value of 5.00E-07.

4Q/12: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.08E-06) has been replaced by a value of 5.00E-07.

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/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	7.17E-08	1.77E-07	1.67E-07	1.24E-07	1.34E-07	1.21E-07	1.08E-07	1.10E-07
URI (ΔCDF)	-7.26E-08	-1.74E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.00E-10**	**2.80E-09**	**-1.90E-09**	**-4.50E-08**	**-3.60E-08**	**-4.80E-08**	**-6.20E-08**	**-5.90E-08**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

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/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	-2.92E-10	1.53E-07	1.42E-07	1.42E-07	1.73E-07	1.63E-07	1.60E-07	1.61E-07
URI (ΔCDF)	-3.91E-08	8.96E-08	9.54E-08	9.54E-08	9.54E-08	9.54E-08	9.89E-08	9.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.90E-08**	**2.40E-07**	**2.40E-07**	**2.40E-07**	**2.70E-07**	**2.60E-07**	**2.60E-07**	**2.60E-07**

Licensee Comments:

3Q/13: Added previously uncounted RCIC injection demands. Added demand data for Unit 2 in April 2011 and December 2012. BFNs interpretation of what RCIC demands need to be counted changed for RCIC. This did not impact the MSPI color of RCIC.

1Q/13: MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

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/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (ΔCDF)	5.79E-09	1.85E-08	3.78E-08	5.24E-08	5.98E-08	5.28E-08	5.85E-08	4.67E-08
URI (ΔCDF)	5.14E-09	-1.29E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-08**	**-1.10E-07**	**-8.80E-08**	**-7.40E-08**	**-6.70E-08**	**-7.40E-08**	**-6.80E-08**	**-8.00E-08**

Licensee Comments:

1Q/14: During the first quarter of 2014, the following changes were made to numerical values in the INPO CDE database for the Browns Ferry Nuclear Plant (BFN). 1. Common Cause Factor (CCF) for 3-FCV-023-0034 was changed to the correct value of 2.00. Effective 2011-01 to present. 2. Operational Non-test demands(D) value for 2-FCV-023-0046 was changed to the correct value of 82. Effective 2012-01 to present. 3. Operational Non-test demands(D) value for 3-FCV-023-0040 was changed to the correct value of 88. Effective 2012-01 to present. 4. Operational Non-test run-hours value for 1-PMP-074-0039 was changed to the correct value of 333.54 hours. Effective 2011-01 to present. 5. Test run-hours value for 1-PMP-074-0039 was changed to the correct value of 31.87 hours. Effective 2011-01 to present. These changes result in the BFN Residual Heat Removal System MSPI indicator values for past reporting periods to be different than previously reported, as indicated by the effective dates identified above. No MSPI color changes resulted from these changes to the numerical values. Reference BFN Problem Evaluation Report (PER) 851845.

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

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/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	5.20E-08	6.60E-08	7.63E-08	1.25E-07	1.40E-07	1.34E-07	1.25E-07	1.15E-07
URI (ΔCDF)	-3.37E-08	-2.28E-08	-2.28E-08	-2.28E-08	-2.28E-08	-2.28E-08	-3.90E-08	-3.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.80E-08**	**4.30E-08**	**5.30E-08**	**1.00E-07**	**1.20E-07**	**1.10E-07**	**8.60E-08**	**7.60E-08**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**
Maximum activity	0.000063	0.000070	0.000100	0.000070	0.000062	0.000047	N/A	0.000040	0.000022	0.000037	0.000040	0.000049
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**	**N/A**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**
Maximum activity	0.000064	0.000072	0.000057	0.000109	0.000108	0.000104	0.000059	0.000075	0.000056	0.000056	0.000055	0.000070
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

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	1.910	2.150	2.260	2.180	1.710	1.720	N/A	1.990	1.660	1.750	1.770	1.840
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	**6.4**	**7.2**	**7.5**	**7.3**	**5.7**	**5.7**	**N/A**	**6.6**	**5.5**	**5.8**	**5.9**	**6.1**
Reactor Coolant System Leakage	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**
Maximum leakage	1.840	1.600	1.590	1.600	1.520	1.540	2.080	1.600	1.930	1.990	6.940	1.580
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	**6.1**	**5.3**	**5.3**	**5.3**	**5.1**	**5.1**	**6.9**	**5.3**	**6.4**	**6.6**	**23.1**	**5.3**

Licensee Comments:

6/13: The Maximum RCS Identified Leakage (gpm) was updated to reflect the correct leakage. This condition was identified in PER 694496. This affected July 2012 to December 2012. There was no color change.

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful opportunities	14.0	24.0	26.0	40.0	70.0	12.0	63.0	86.0
Total opportunities	14.0	24.0	26.0	42.0	70.0	12.0	64.0	90.0
Indicator value	**98.9%**	**99.2%**	**99.3%**	**98.9%**	**99.1%**	**99.1%**	**99.0%**	**98.0%**

Licensee Comments:

1Q/14: Revised Successful drill, exer & event opportunities to reflect an additional DEP failure for the September (3rd quarter) 2013 report period. This revision did not result in a color change. PER # 836157

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Participating Key personnel	73.0	76.0	76.0	79.0	81.0	76.0	78.0	77.0
Total Key personnel	73.0	76.0	77.0	80.0	82.0	76.0	78.0	79.0
Indicator value	**100.0%**	**100.0%**	**98.7%**	**98.8%**	**98.8%**	**100.0%**	**100.0%**	**97.5%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful siren-tests	899	900	800	932	622	1040	624	1038
Total sirens-tests	900	900	800	932	624	1040	624	1040
Indicator value	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: November 3, 2014

Browns Ferry 2

4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1748.1	1383.3	2208.0	2209.0	2159.0	2184.0	2122.1	2209.0
Indicator value	**0.8**	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	0	0	1.0	1.0	1.0	0	0	0
Critical hours	1748.1	1383.3	2208.0	2209.0	2159.0	2184.0	2122.1	2209.0
Indicator value	**0**	**0**	**0.9**	**1.9**	**2.6**	**2.4**	**1.6**	**0.8**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments:

1Q/13: Further analysis on the December 22, 2012, reactor scram, due to loss of power to RPS, determined that the reactor scram was complicated. December 2012 Unplanned Scrams with Complications data was revised from 0 to 1.

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Safety System Functional Failures	0	0	0	1	0	0	1	0
Indicator value	**2**	**2**	**1**	**1**	**1**	**1**	**2**	**1**

Licensee Comments:

3Q/14: 07/21/2014 - LER 260/2014-003-00 - Both Trains of Standby Liquid Control Inoperable

4Q/13: LER 50-260/2013-002-00, High Pressure Coolant Injection System Declared Inoperable Due to an Unqualified Electrical Splice

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	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	-2.12E-08	-2.03E-08	2.67E-08	4.45E-08	1.66E-08	1.00E-08	1.22E-08	1.15E-08
URI (ΔCDF)	2.07E-06	1.95E-06	2.01E-06	2.07E-06	2.13E-06	-3.05E-08	3.02E-10	3.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.00E-06**	**1.90E-06**	**2.00E-06**	**2.10E-06**	**2.10E-06**	**-2.00E-08**	**1.30E-08**	**4.50E-08**

Licensee Comments:

4Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added to September's data. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added after quarterly approval. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07.

2Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.88E-06) has been replaced by a value of 5.00E-07.

1Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.24E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as an MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure. The 4th Quarter 2013 data has been updated to remove the MSPI failure. This change will not affect the color of the indicator.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as a MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. There was one additional failure during the 4th Quarter 2013. On 11/23/2013, EDG A was removed from service to repair a fuel fitting which failed during a run.

3Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.19E-06) has been replaced by a value of 5.00E-07.

2Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.17E-06) has been replaced by a value of 5.00E-07.

1Q/13: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.15E-06) has been replaced by a value of 5.00E-07. MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013. On December 22, 2012, the Emergency AC Power system experienced a failure that was incorrectly categorized as a load/run failure instead of a run failure. The failure mode was corrected resulting in the performance indicator color changing from green to white in the 4th Quarter of 2012. This issue is being tracked by PERs 704392 and 669462.

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	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	1.77E-07	1.67E-07	1.24E-07	1.34E-07	1.21E-07	1.08E-07	1.10E-07	-2.60E-08
URI (ΔCDF)	-1.74E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.80E-09**	**-1.90E-09**	**-4.50E-08**	**-3.60E-08**	**-4.80E-08**	**-6.20E-08**	**-5.90E-08**	**-2.00E-07**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

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	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	1.53E-07	1.42E-07	1.42E-07	1.73E-07	1.63E-07	1.60E-07	1.61E-07	1.32E-07
URI (ΔCDF)	8.96E-08	9.54E-08	9.54E-08	9.54E-08	9.54E-08	9.89E-08	9.89E-08	9.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.40E-07**	**2.40E-07**	**2.40E-07**	**2.70E-07**	**2.60E-07**	**2.60E-07**	**2.60E-07**	**2.30E-07**

Licensee Comments:

3Q/13: Added previously uncounted RCIC injection demands. Added demand data for Unit 2 in April 2011 and December 2012. BFNs interpretation of what RCIC demands need to be counted changed for RCIC. This did not impact the MSPI color of RCIC.

1Q/13: MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

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	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	1.85E-08	3.78E-08	5.24E-08	5.98E-08	5.28E-08	5.85E-08	4.67E-08	3.69E-08
URI (ΔCDF)	-1.29E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-8.80E-08**	**-7.40E-08**	**-6.70E-08**	**-7.40E-08**	**-6.80E-08**	**-8.00E-08**	**-9.00E-08**

Licensee Comments:

1Q/14: During the first quarter of 2014, the following changes were made to numerical values in the INPO CDE database for the Browns Ferry Nuclear Plant (BFN). 1. Common Cause Factor (CCF) for 3-FCV-023-0034 was changed to the correct value of 2.00. Effective 2011-01 to present. 2. Operational Non-test demands(D) value for 2-FCV-023-0046 was changed to the correct value of 82. Effective 2012-01 to present. 3. Operational Non-test demands(D) value for 3-FCV-023-0040 was changed to the correct value of 88. Effective 2012-01 to present. 4. Operational Non-test run-hours value for 1-PMP-074-0039 was changed to the correct value of 333.54 hours. Effective 2011-01 to present. 5. Test run-hours value for 1-PMP-074-0039 was changed to the correct value of 31.87 hours. Effective 2011-01 to present. These changes result in the BFN Residual Heat Removal System MSPI indicator values for past reporting periods to be different than previously reported, as indicated by the effective dates identified above. No MSPI color changes resulted from these changes to the numerical values. Reference BFN Problem Evaluation Report (PER) 851845.

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on

Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

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	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	6.60E-08	7.63E-08	1.25E-07	1.40E-07	1.34E-07	1.25E-07	1.15E-07	8.02E-08
URI (ΔCDF)	-2.28E-08	-2.28E-08	-2.28E-08	-2.28E-08	-2.28E-08	-3.90E-08	-3.90E-08	-3.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.30E-08**	**5.30E-08**	**1.00E-07**	**1.20E-07**	**1.10E-07**	**8.60E-08**	**7.60E-08**	**4.10E-08**

Licensee Comments:

1Q/13: Changed PRA Parameter(s). MSPI Basis Documents and PRA Parameters were revised based on Calculation NDN-000-999-2010-003 Revision 007 to reflect Browns Ferry CAFTA PRA Model Revision 5 approved on 11/06/12. These changes are effective first quarter 2013.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**
Maximum activity	0.000070	0.000062	0.000047	N/A	0.000040	0.000022	0.000037	0.000040	0.000049	0.000064	0.000072	0.000057
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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**
Maximum activity	0.000109	0.000108	0.000104	0.000059	0.000075	0.000056	0.000056	0.000055	0.000070	0.000057	0.000074	0.000057
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

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**
Maximum leakage	2.180	1.710	1.720	N/A	1.990	1.660	1.750	1.770	1.840	1.840	1.600	1.590
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	**7.3**	**5.7**	**5.7**	**N/A**	**6.6**	**5.5**	**5.8**	**5.9**	**6.1**	**6.1**	**5.3**	**5.3**

Reactor Coolant System Leakage	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**
Maximum leakage	1.600	1.520	1.540	2.080	1.600	1.930	1.990	6.940	1.580	1.550	1.550	1.580
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	**5.3**	**5.1**	**5.1**	**6.9**	**5.3**	**6.4**	**6.6**	**23.1**	**5.3**	**5.2**	**5.2**	**5.3**

Licensee Comments:

6/13: The Maximum RCS Identified Leakage (gpm) was updated to reflect the correct leakage. This condition was identified in PER 694496. This affected July 2012 to December 2012. There was no color change.

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful opportunities	24.0	26.0	40.0	70.0	12.0	63.0	86.0	4.0
Total opportunities	24.0	26.0	42.0	70.0	12.0	64.0	90.0	4.0
Indicator value	**99.2%**	**99.3%**	**98.9%**	**99.1%**	**99.1%**	**99.0%**	**98.0%**	**97.9%**

Licensee Comments:

1Q/14: Revised Successful drill, exer & event opportunities to reflect an additional DEP failure for the September (3rd quarter) 2013 report period. This revision did not result in a color change. PER # 836157

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Participating Key personnel	76.0	76.0	79.0	81.0	76.0	78.0	77.0	76.0
Total Key personnel	76.0	77.0	80.0	82.0	76.0	78.0	79.0	76.0
Indicator value	**100.0%**	**98.7%**	**98.8%**	**98.8%**	**100.0%**	**100.0%**	**97.5%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful siren-tests	900	800	932	622	1040	624	1038	621
Total sirens-tests	900	800	932	624	1040	624	1040	624
Indicator value	**99.9%**	**99.9%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: February 3, 2015

Browns Ferry 2

1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1383.3	2208.0	2209.0	2159.0	2184.0	2122.1	2209.0	1725.0
Indicator value	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned power changes	0	1.0	1.0	1.0	0	0	0	0
Critical hours	1383.3	2208.0	2209.0	2159.0	2184.0	2122.1	2209.0	1725.0
Indicator value	**0**	**0.9**	**1.9**	**2.6**	**2.4**	**1.6**	**0.8**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Safety System Functional Failures	0	0	1	0	0	1	0	0
Indicator value	**2**	**1**	**1**	**1**	**1**	**2**	**1**	**1**

Licensee Comments:

3Q/14: 07/21/2014 - LER 260/2014-003-00 - Both Trains of Standby Liquid Control Inoperable

4Q/13: LER 50-260/2013-002-00, High Pressure Coolant Injection System Declared Inoperable Due to an Unqualified Electrical Splice

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/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	-2.03E-08	2.67E-08	4.45E-08	1.66E-08	1.00E-08	1.22E-08	1.15E-08	1.32E-08
URI (ΔCDF)	1.95E-06	2.01E-06	2.07E-06	2.13E-06	-3.05E-08	3.02E-10	3.32E-08	2.24E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.90E-06**	**2.00E-06**	**2.10E-06**	**2.10E-06**	**-2.00E-08**	**1.30E-08**	**4.50E-08**	**2.40E-07**

Licensee Comments:

1Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07.

4Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added to September's data. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added after quarterly approval. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07.

2Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.88E-06) has been replaced by a value of 5.00E-07.

1Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.24E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as an MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure. The 4th Quarter 2013 data has been updated to remove the MSPI failure. This change will not affect the color of the indicator.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. There was one additional failure during the 4th Quarter 2013. On 11/23/2013, EDG A was removed from service to repair a fuel fitting which failed during a run.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as a MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure.

3Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.19E-06) has been replaced by a value of 5.00E-07.

2Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.17E-06) has been replaced by a value of 5.00E-07.

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/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	1.67E-07	1.24E-07	1.34E-07	1.21E-07	1.08E-07	1.10E-07	-2.60E-08	-2.51E-08
URI (ΔCDF)	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-09**	**-4.50E-08**	**-3.60E-08**	**-4.80E-08**	**-6.20E-08**	**-5.90E-08**	**-2.00E-07**	**-1.90E-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	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	1.42E-07	1.42E-07	1.73E-07	1.63E-07	1.60E-07	1.61E-07	1.32E-07	1.36E-07
URI (ΔCDF)	9.54E-08	9.54E-08	9.54E-08	9.54E-08	9.89E-08	9.89E-08	9.89E-08	9.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.40E-07**	**2.40E-07**	**2.70E-07**	**2.60E-07**	**2.60E-07**	**2.60E-07**	**2.30E-07**	**2.30E-07**

Licensee Comments:

3Q/13: Added previously uncounted RCIC injection demands. Added demand data for Unit 2 in April 2011 and December 2012. BFNs interpretation of what RCIC demands need to be counted changed for RCIC. This did not impact the MSPI color of RCIC.

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/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	3.78E-08	5.24E-08	5.98E-08	5.28E-08	5.85E-08	4.67E-08	3.69E-08	3.75E-08
URI (ΔCDF)	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.80E-08**	**-7.40E-08**	**-6.70E-08**	**-7.40E-08**	**-6.80E-08**	**-8.00E-08**	**-9.00E-08**	**-8.90E-08**

Licensee Comments:

1Q/14: During the first quarter of 2014, the following changes were made to numerical values in the INPO CDE database for the Browns Ferry Nuclear Plant (BFN). 1. Common Cause Factor (CCF) for 3-FCV-023-0034 was changed to the correct value of 2.00. Effective 2011-01 to present. 2. Operational Non-test demands(D) value for 2-FCV-023-0046 was changed to the correct value of 82. Effective 2012-01 to present. 3. Operational Non-test demands(D) value for 3-FCV-023-0040 was changed to the correct value of 88. Effective 2012-01 to present. 4. Operational Non-test run-hours value for 1-PMP-074-0039 was changed to the correct value of 333.54 hours. Effective 2011-01 to present. 5. Test run-hours value for 1-PMP-074-0039 was changed to the correct value of 31.87 hours. Effective 2011-01 to present. These changes result in the BFN Residual Heat Removal System MSPI indicator values for past reporting periods to be different than previously reported, as indicated by the effective dates identified above. No MSPI color changes resulted from these changes to the numerical values. Reference BFN Problem Evaluation Report (PER) 851845.

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	7.63E-08	1.25E-07	1.40E-07	1.34E-07	1.25E-07	1.15E-07	8.02E-08	7.92E-08
URI (ΔCDF)	-2.28E-08	-2.28E-08	-2.28E-08	-2.28E-08	-3.90E-08	-3.90E-08	-3.90E-08	-4.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.30E-08**	**1.00E-07**	**1.20E-07**	**1.10E-07**	**8.60E-08**	**7.60E-08**	**4.10E-08**	**3.20E-08**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**
Maximum activity	N/A	0.000040	0.000022	0.000037	0.000040	0.000049	0.000064	0.000072	0.000057	0.000109	0.000108	0.000104
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	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**
Maximum activity	0.000059	0.000075	0.000056	0.000056	0.000055	0.000070	0.000057	0.000074	0.000057	0.000076	0.000076	0.000052
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

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**
Maximum leakage	N/A	1.990	1.660	1.750	1.770	1.840	1.840	1.600	1.590	1.600	1.520	1.540
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	**N/A**	**6.6**	**5.5**	**5.8**	**5.9**	**6.1**	**6.1**	**5.3**	**5.3**	**5.3**	**5.1**	**5.1**
Reactor Coolant System Leakage	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**
Maximum leakage	2.080	1.600	1.930	1.990	6.940	1.580	1.550	1.550	1.580	1.590	1.710	1.760
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	**6.9**	**5.3**	**6.4**	**6.6**	**23.1**	**5.3**	**5.2**	**5.2**	**5.3**	**5.3**	**5.7**	**5.9**

Licensee Comments:

6/13: The Maximum RCS Identified Leakage (gpm) was updated to reflect the correct leakage. This condition was identified in PER 694496. This affected July 2012 to December 2012. There was no color change.

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful opportunities	26.0	40.0	70.0	12.0	63.0	86.0	4.0	46.0
Total opportunities	26.0	42.0	70.0	12.0	64.0	90.0	4.0	46.0
Indicator value	**99.3%**	**98.9%**	**99.1%**	**99.1%**	**99.0%**	**98.0%**	**97.9%**	**98.0%**

Licensee Comments:

1Q/14: Revised Successful drill, exer & event opportunities to reflect an additional DEP failure for the September (3rd quarter) 2013 report period. This revision did not result in a color change. PER # 836157

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Participating Key personnel	76.0	79.0	81.0	76.0	78.0	77.0	76.0	80.0
Total Key personnel	77.0	80.0	82.0	76.0	78.0	79.0	76.0	80.0
Indicator value	**98.7%**	**98.8%**	**98.8%**	**100.0%**	**100.0%**	**97.5%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful siren-tests	800	932	622	1040	624	1038	621	1040
Total sirens-tests	800	932	624	1040	624	1040	624	1040
Indicator value	**99.9%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: April 23, 2015

Browns Ferry 2

2Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2122.1	2209.0	1725.0	1974.5
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned power changes	1.0	1.0	1.0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2122.1	2209.0	1725.0	1974.5
Indicator value	**0.9**	**1.9**	**2.6**	**2.4**	**1.6**	**0.8**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Safety System Functional Failures	0	1	0	0	1	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**2**	**1**	**1**	**1**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes.

2Q/15: This comment was updated after quarterly files were created.

3Q/14: 07/21/2014 - LER 260/2014-003-00 - Both Trains of Standby Liquid Control Inoperable

4Q/13: LER 50-260/2013-002-00, High Pressure Coolant Injection System Declared Inoperable Due to an Unqualified Electrical Splice

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/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	2.67E-08	4.45E-08	1.66E-08	1.00E-08	1.22E-08	1.15E-08	1.32E-08	-6.76E-09
URI (ΔCDF)	2.01E-06	2.07E-06	2.13E-06	-3.05E-08	3.02E-10	3.32E-08	2.24E-07	2.16E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.00E-06**	**2.10E-06**	**2.10E-06**	**-2.00E-08**	**1.30E-08**	**4.50E-08**	**2.40E-07**	**2.10E-07**

Licensee Comments:

2Q/15: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes.

2Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. Emergency AC Specific Change: In order for LOSP to result in core damage, multiple additional systems have to fail. Most important of those are the EDGs. In Rev. 5, failure of multiple EDGs was assumed to occur at the same time at T=0 (beginning of the event). If AC power is not restored in 4 hours core damage is likely to occur. This is an

unlikely occurrence. A more likely scenario is that the EDGs will fail at random times over an extended period of time, resulting in a higher probability that offsite power can be restore before all the EDGs fail or before core damage occurs. Convolution adjusts the offsite power recovery probabilities to account for this fact. This reduces the LOSP CDF and LERF contribution and EDG importance. This change was the sole reason for the net CDF decrease between Rev. 5 and Rev. 6. This comment was updated after the quarterly files were created.

1Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07.

4Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added to September's data. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added after quarterly approval. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07.

2Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.88E-06) has been replaced by a value of 5.00E-07.

1Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.24E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as an MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure. The 4th Quarter 2013 data has been updated to remove the MSPI failure. This change will not affect the color of the indicator.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. There was one additional failure during the 4th Quarter 2013. On 11/23/2013, EDG A was removed from service to repair a fuel fitting which failed during a run.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as a MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure.

3Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from one Failure to Run (1.19E-06) has been replaced by a value of 5.00E-07.

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/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	1.24E-07	1.34E-07	1.21E-07	1.08E-07	1.10E-07	-2.60E-08	-2.51E-08	-4.52E-08
URI (ΔCDF)	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-2.28E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.50E-08**	**-3.60E-08**	**-4.80E-08**	**-6.20E-08**	**-5.90E-08**	**-2.00E-07**	**-1.90E-07**	**-2.70E-07**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	1.42E-07	1.73E-07	1.63E-07	1.60E-07	1.61E-07	1.32E-07	1.36E-07	1.43E-07
URI (ΔCDF)	9.54E-08	9.54E-08	9.54E-08	9.89E-08	9.89E-08	9.89E-08	9.89E-08	1.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.40E-07**	**2.70E-07**	**2.60E-07**	**2.60E-07**	**2.60E-07**	**2.30E-07**	**2.30E-07**	**2.70E-07**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

3Q/13: Added previously uncounted RCIC injection demands. Added demand data for Unit 2 in April 2011 and December 2012. BFNs interpretation of what RCIC demands need to be counted changed for RCIC. This did not impact the MSPI color of RCIC.

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/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	5.24E-08	5.98E-08	5.28E-08	5.85E-08	4.67E-08	3.69E-08	3.75E-08	4.42E-08
URI (ΔCDF)	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-7.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.40E-08**	**-6.70E-08**	**-7.40E-08**	**-6.80E-08**	**-8.00E-08**	**-9.00E-08**	**-8.90E-08**	**-3.20E-08**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created. MSPI failures were added after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

1Q/14: During the first quarter of 2014, the following changes were made to numerical values in the INPO CDE database for the Browns Ferry Nuclear Plant (BFN). 1. Common Cause Factor (CCF) for 3-FCV-023-0034 was

changed to the correct value of 2.00. Effective 2011-01 to present. 2. Operational Non-test demands(D) value for 2-FCV-023-0046 was changed to the correct value of 82. Effective 2012-01 to present. 3. Operational Non-test demands(D) value for 3-FCV-023-0040 was changed to the correct value of 88. Effective 2012-01 to present. 4. Operational Non-test run-hours value for 1-PMP-074-0039 was changed to the correct value of 333.54 hours. Effective 2011-01 to present. 5. Test run-hours value for 1-PMP-074-0039 was changed to the correct value of 31.87 hours. Effective 2011-01 to present. These changes result in the BFN Residual Heat Removal System MSPI indicator values for past reporting periods to be different than previously reported, as indicated by the effective dates identified above. No MSPI color changes resulted from these changes to the numerical values. Reference BFN Problem Evaluation Report (PER) 851845.

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/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	1.25E-07	1.40E-07	1.34E-07	1.25E-07	1.15E-07	8.02E-08	7.92E-08	8.81E-08
URI (ΔCDF)	-2.28E-08	-2.28E-08	-2.28E-08	-3.90E-08	-3.90E-08	-3.90E-08	-4.70E-08	-3.73E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.00E-07**	**1.20E-07**	**1.10E-07**	**8.60E-08**	**7.60E-08**	**4.10E-08**	**3.20E-08**	**5.10E-08**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**
Maximum activity	0.000037	0.000040	0.000049	0.000064	0.000072	0.000057	0.000109	0.000108	0.000104	0.000059	0.000075	0.000056
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	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum activity	0.000056	0.000055	0.000070	0.000057	0.000074	0.000057	0.000076	0.000076	0.000052	0.000027	0.000029	0.000028
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	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum leakage	1.750	1.770	1.840	1.840	1.600	1.590	1.600	1.520	1.540	2.080	1.600	1.930
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	**5.8**	**5.9**	**6.1**	**6.1**	**5.3**	**5.3**	**5.3**	**5.1**	**5.1**	**6.9**	**5.3**	**6.4**
Reactor Coolant System Leakage	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**

Maximum leakage	1.990	6.940	1.580	1.550	1.550	1.580	1.590	1.710	1.760	1.780	1.760	1.510
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	**6.6**	**23.1**	**5.3**	**5.2**	**5.2**	**5.3**	**5.3**	**5.7**	**5.9**	**5.9**	**5.9**	**5.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
Successful opportunities	40.0	70.0	12.0	63.0	86.0	4.0	46.0	16.0
Total opportunities	42.0	70.0	12.0	64.0	90.0	4.0	46.0	16.0
Indicator value	**98.9%**	**99.1%**	**99.1%**	**99.0%**	**98.0%**	**97.9%**	**98.0%**	**98.0%**

Licensee Comments:

1Q/14: Revised Successful drill, exer & event opportunities to reflect an additional DEP failure for the September (3rd quarter) 2013 report period. This revision did not result in a color change. PER # 836157

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Participating Key personnel	79.0	81.0	76.0	78.0	77.0	76.0	80.0	88.0
Total Key personnel	80.0	82.0	76.0	78.0	79.0	76.0	80.0	88.0
Indicator value	**98.8%**	**98.8%**	**100.0%**	**100.0%**	**97.5%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful siren-tests	932	622	1040	624	1038	621	1040	624
Total sirens-tests	932	624	1040	624	1040	624	1040	624
Indicator value	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**99.8%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: July 24, 2015

Browns Ferry 2

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2122.1	2209.0	1725.0	1974.5	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	1.0	1.0	0	0	0	0	0	1.0
Critical hours	2209.0	2159.0	2184.0	2122.1	2209.0	1725.0	1974.5	2208.0
Indicator value	**1.9**	**2.6**	**2.4**	**1.6**	**0.8**	**0**	**0**	**0.9**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	1	0	0	1	0	0	0	1
Indicator value	**1**	**1**	**1**	**2**	**1**	**1**	**1**	**1**

Licensee Comments:

3Q/15: LER 50-259/2015-003-00, Loss of Cooling to the Unit 1 and Unit 2 Shutdown Board Rooms Due To Fouled Chiller Coils

2Q/15: This comment was updated after quarterly files were created.

2Q/15: Changing PRA parameters did not result in any indicator color changes.

3Q/14: 07/21/2014 - LER 260/2014-003-00 - Both Trains of Standby Liquid Control Inoperable

4Q/13: LER 50-260/2013-002-00, High Pressure Coolant Injection System Declared Inoperable Due to an Unqualified Electrical Splice

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/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	4.45E-08	1.66E-08	1.00E-08	1.22E-08	1.15E-08	1.32E-08	-6.76E-09	-6.77E-09
URI (ΔCDF)	2.07E-06	2.13E-06	-3.05E-08	3.02E-10	3.32E-08	2.24E-07	2.16E-07	2.16E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.10E-06**	**2.10E-06**	**-2.00E-08**	**1.30E-08**	**4.50E-08**	**2.40E-07**	**2.10E-07**	**2.10E-07**

Licensee Comments:

3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.

2Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. Emergency AC Specific Change: In order for LOSP to result in core damage, multiple additional systems have to fail. Most important of those are the EDGs. In Rev. 5, failure of multiple EDGs was assumed to occur at the same time at T=0 (beginning of the event). If AC power is not restored in 4 hours core damage is likely to occur. This is an unlikely occurrence. A more likely scenario is that the EDGs will fail at random times over an extended period of

time, resulting in a higher probability that offsite power can be restore before all the EDGs fail or before core damage occurs. Convolution adjusts the offsite power recovery probabilities to account for this fact. This reduces the LOSP CDF and LERF contribution and EDG importance. This change was the sole reason for the net CDF decrease between Rev. 5 and Rev. 6. This comment was updated after the quarterly files were created.

2Q/15: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes.

1Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07.

4Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added to September's data. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added after quarterly approval. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

2Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.88E-06) has been replaced by a value of 5.00E-07.

1Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.24E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as an MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure. The 4th Quarter 2013 data has been updated to remove the MSPI failure. This change will not affect the color of the indicator.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. There was one additional failure during the 4th Quarter 2013. On 11/23/2013, EDG A was removed from service to repair a fuel fitting which failed during a run.

4Q/13: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.22E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as a MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure.

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/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	1.34E-07	1.21E-07	1.08E-07	1.10E-07	-2.60E-08	-2.51E-08	-4.52E-08	-1.02E-08
URI (ΔCDF)	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-2.28E-07	2.72E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.60E-08**	**-4.80E-08**	**-6.20E-08**	**-5.90E-08**	**-2.00E-07**	**-1.90E-07**	**-2.70E-07**	**2.60E-07**

Licensee Comments:

3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (ΔCDF)	1.73E-07	1.63E-07	1.60E-07	1.61E-07	1.32E-07	1.36E-07	1.43E-07	1.36E-07
URI (ΔCDF)	9.54E-08	9.54E-08	9.89E-08	9.89E-08	9.89E-08	9.89E-08	1.31E-07	1.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.70E-07**	**2.60E-07**	**2.60E-07**	**2.60E-07**	**2.30E-07**	**2.30E-07**	**2.70E-07**	**2.70E-07**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	5.98E-08	5.28E-08	5.85E-08	4.67E-08	3.69E-08	3.75E-08	4.42E-08	4.06E-08
URI (ΔCDF)	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-7.60E-08	-7.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.70E-08**	**-7.40E-08**	**-6.80E-08**	**-8.00E-08**	**-9.00E-08**	**-8.90E-08**	**-3.20E-08**	**-3.50E-08**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created. MSPI failures were added after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

1Q/14: During the first quarter of 2014, the following changes were made to numerical values in the INPO CDE database for the Browns Ferry Nuclear Plant (BFN). 1. Common Cause Factor (CCF) for 3-FCV-023-0034 was changed to the correct value of 2.00. Effective 2011-01 to present. 2. Operational Non-test demands(D) value

for 2-FCV-023-0046 was changed to the correct value of 82. Effective 2012-01 to present. 3. Operational Non-test demands(D) value for 3-FCV-023-0040 was changed to the correct value of 88. Effective 2012-01 to present. 4. Operational Non-test run-hours value for 1-PMP-074-0039 was changed to the correct value of 333.54 hours. Effective 2011-01 to present. 5. Test run-hours value for 1-PMP-074-0039 was changed to the correct value of 31.87 hours. Effective 2011-01 to present. These changes result in the BFN Residual Heat Removal System MSPI indicator values for past reporting periods to be different than previously reported, as indicated by the effective dates identified above. No MSPI color changes resulted from these changes to the numerical values. Reference BFN Problem Evaluation Report (PER) 851845.

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/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	1.40E-07	1.34E-07	1.25E-07	1.15E-07	8.02E-08	7.92E-08	8.81E-08	7.00E-08
URI (ΔCDF)	-2.28E-08	-2.28E-08	-3.90E-08	-3.90E-08	-3.90E-08	-4.70E-08	-3.73E-08	-3.73E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.20E-07**	**1.10E-07**	**8.60E-08**	**7.60E-08**	**4.10E-08**	**3.20E-08**	**5.10E-08**	**3.30E-08**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**
Maximum activity	0.000064	0.000072	0.000057	0.000109	0.000108	0.000104	0.000059	0.000075	0.000056	0.000056	0.000055	0.000070
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	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum activity	0.000057	0.000074	0.000057	0.000076	0.000076	0.000052	0.000027	0.000029	0.000028	0.000043	0.000028	0.000028
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	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	1.840	1.600	1.590	1.600	1.520	1.540	2.080	1.600	1.930	1.990	6.940	1.580
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	**6.1**	**5.3**	**5.3**	**5.3**	**5.1**	**5.1**	**6.9**	**5.3**	**6.4**	**6.6**	**23.1**	**5.3**
Reactor Coolant System Leakage	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum leakage	1.550	1.550	1.580	1.590	1.710	1.760	1.780	1.760	1.510	1.540	1.480	1.560

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	**5.2**	**5.2**	**5.3**	**5.3**	**5.7**	**5.9**	**5.9**	**5.9**	**5.0**	**5.1**	**4.9**	**5.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
Successful opportunities	70.0	12.0	63.0	86.0	4.0	46.0	16.0	44.0
Total opportunities	70.0	12.0	64.0	90.0	4.0	46.0	16.0	44.0
Indicator value	**99.1%**	**99.1%**	**99.0%**	**98.0%**	**97.9%**	**98.0%**	**98.0%**	**98.6%**

Licensee Comments:

1Q/14: Revised Successful drill, exer & event opportunities to reflect an additional DEP failure for the September (3rd quarter) 2013 report period. This revision did not result in a color change. PER # 836157

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	81.0	76.0	78.0	77.0	76.0	80.0	88.0	85.0
Total Key personnel	82.0	76.0	78.0	79.0	76.0	80.0	88.0	85.0
Indicator value	**98.8%**	**100.0%**	**100.0%**	**97.5%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	622	1040	624	1038	621	1040	624	918
Total sirens-tests	624	1040	624	1040	624	1040	624	936
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**99.8%**	**99.3%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: December 15, 2015

Browns Ferry 2

4Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2122.1	2209.0	1725.0	1974.5	2208.0	2064.5
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned power changes	1.0	0	0	0	0	0	1.0	0
Critical hours	2159.0	2184.0	2122.1	2209.0	1725.0	1974.5	2208.0	2064.5
Indicator value	**2.6**	**2.4**	**1.6**	**0.8**	**0**	**0**	**0.9**	**0.9**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Safety System Functional Failures	0	0	1	0	0	0	1	2
Indicator value	**1**	**1**	**2**	**1**	**1**	**1**	**1**	**3**

Licensee Comments:

4Q/15: (1) LER 50-260/2015-002-00 - High Pressure Coolant Injection System Inoperable Due to Turbine Steam Supply Valve Packing Failure (2) LER 50-259/2015-004-00 - Containment Atmospheric Dilution B Train Supply System Inoperable Longer Than Allowed by Technical Specifications

3Q/15: LER 50-259/2015-003-00, Loss of Cooling to the Unit 1 and Unit 2 Shutdown Board Rooms Due To Fouled Chiller Coils

2Q/15: This comment was updated after quarterly files were created.

2Q/15: Changing PRA parameters did not result in any indicator color changes.

3Q/14: 07/21/2014 - LER 260/2014-003-00 - Both Trains of Standby Liquid Control Inoperable

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	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	1.66E-08	1.00E-08	1.22E-08	1.15E-08	1.32E-08	-6.76E-09	-6.77E-09	-4.65E-09
URI (ΔCDF)	2.13E-06	-3.05E-08	3.02E-10	3.32E-08	2.24E-07	2.16E-07	2.16E-07	-2.85E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.10E-06**	**-2.00E-08**	**1.30E-08**	**4.50E-08**	**2.40E-07**	**2.10E-07**	**2.10E-07**	**-2.90E-07**

Licensee Comments:

3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.

2Q/15: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes.

2Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. Emergency AC Specific

Change: In order for LOSP to result in core damage, multiple additional systems have to fail. Most important of those are the EDGs. In Rev. 5, failure of multiple EDGs was assumed to occur at the same time at T=0 (beginning of the event). If AC power is not restored in 4 hours core damage is likely to occur. This is an unlikely occurrence. A more likely scenario is that the EDGs will fail at random times over an extended period of time, resulting in a higher probability that offsite power can be restore before all the EDGs fail or before core damage occurs. Convolution adjusts the offsite power recovery probabilities to account for this fact. This reduces the LOSP CDF and LERF contribution and EDG importance. This change was the sole reason for the net CDF decrease between Rev. 5 and Rev. 6. This comment was updated after the quarterly files were created.

1Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07.

4Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added to September's data. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added after quarterly approval. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07.

2Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.88E-06) has been replaced by a value of 5.00E-07.

1Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.24E-06) has been replaced by a value of 5.00E-07. The fuel fitting leak on 11/23/2013, previously documented as an MSPI failure, was subsequently evaluated further, based on additional information, and determined not to be a MSPI failure. The 4th Quarter 2013 data has been updated to remove the MSPI failure. This change will not affect the color of the indicator.

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	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	1.21E-07	1.08E-07	1.10E-07	-2.60E-08	-2.51E-08	-4.52E-08	-1.02E-08	2.29E-08
URI (ΔCDF)	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-2.28E-07	2.72E-07	2.79E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.80E-08**	**-6.20E-08**	**-5.90E-08**	**-2.00E-07**	**-1.90E-07**	**-2.70E-07**	**2.60E-07**	**3.00E-07**

Licensee Comments:

4Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.

3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (ΔCDF)	1.63E-07	1.60E-07	1.61E-07	1.32E-07	1.36E-07	1.43E-07	1.36E-07	1.31E-07
URI (ΔCDF)	9.54E-08	9.89E-08	9.89E-08	9.89E-08	9.89E-08	1.31E-07	1.31E-07	1.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.60E-07**	**2.60E-07**	**2.60E-07**	**2.30E-07**	**2.30E-07**	**2.70E-07**	**2.70E-07**	**2.80E-07**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	5.28E-08	5.85E-08	4.67E-08	3.69E-08	3.75E-08	4.42E-08	4.06E-08	3.39E-08
URI (ΔCDF)	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-7.60E-08	-7.60E-08	-7.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.40E-08**	**-6.80E-08**	**-8.00E-08**	**-9.00E-08**	**-8.90E-08**	**-3.20E-08**	**-3.50E-08**	**-4.20E-08**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created. MSPI failures were added after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

1Q/14: During the first quarter of 2014, the following changes were made to numerical values in the INPO CDE

database for the Browns Ferry Nuclear Plant (BFN). 1. Common Cause Factor (CCF) for 3-FCV-023-0034 was changed to the correct value of 2.00. Effective 2011-01 to present. 2. Operational Non-test demands(D) value for 2-FCV-023-0046 was changed to the correct value of 82. Effective 2012-01 to present. 3. Operational Non-test demands(D) value for 3-FCV-023-0040 was changed to the correct value of 88. Effective 2012-01 to present. 4. Operational Non-test run-hours value for 1-PMP-074-0039 was changed to the correct value of 333.54 hours. Effective 2011-01 to present. 5. Test run-hours value for 1-PMP-074-0039 was changed to the correct value of 31.87 hours. Effective 2011-01 to present. These changes result in the BFN Residual Heat Removal System MSPI indicator values for past reporting periods to be different than previously reported, as indicated by the effective dates identified above. No MSPI color changes resulted from these changes to the numerical values. Reference BFN Problem Evaluation Report (PER) 851845.

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	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	1.34E-07	1.25E-07	1.15E-07	8.02E-08	7.92E-08	8.81E-08	7.00E-08	7.03E-08
URI (ΔCDF)	-2.28E-08	-3.90E-08	-3.90E-08	-3.90E-08	-4.70E-08	-3.73E-08	-3.73E-08	-3.73E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-07**	**8.60E-08**	**7.60E-08**	**4.10E-08**	**3.20E-08**	**5.10E-08**	**3.30E-08**	**3.30E-08**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**
Maximum activity	0.000109	0.000108	0.000104	0.000059	0.000075	0.000056	0.000056	0.000055	0.000070	0.000057	0.000074	0.000057
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	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**
Maximum activity	0.000076	0.000076	0.000052	0.000027	0.000029	0.000028	0.000043	0.000028	0.000028	0.000059	0.000068	0.000026
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	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**
Maximum leakage	1.600	1.520	1.540	2.080	1.600	1.930	1.990	6.940	1.580	1.550	1.550	1.580
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	**5.3**	**5.1**	**5.1**	**6.9**	**5.3**	**6.4**	**6.6**	**23.1**	**5.3**	**5.2**	**5.2**	**5.3**
Reactor Coolant System Leakage	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**

Maximum leakage	1.590	1.710	1.760	1.780	1.760	1.510	1.540	1.480	1.560	1.470	1.660	1.510
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	**5.3**	**5.7**	**5.9**	**5.9**	**5.9**	**5.0**	**5.1**	**4.9**	**5.2**	**4.9**	**5.5**	**5.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
Successful opportunities	12.0	63.0	86.0	4.0	46.0	16.0	50.0	74.0
Total opportunities	12.0	64.0	90.0	4.0	46.0	16.0	50.0	75.0
Indicator value	**99.1%**	**99.0%**	**98.0%**	**97.9%**	**98.0%**	**98.0%**	**98.6%**	**98.3%**

Licensee Comments:

4Q/15: During the November 2015 Emergency Preparedness Graded Exercise NRC Inspection, the NRC identified an error in the PI Data. Emergency Preparedness(EP) failed to count a classification and notification. EP reported 12/12 Drill and Exercise Performance(DEP) opportunities and the actual count is 14/14. Additionally, when Operations Training submitted their October LOR paper work, it included documentation of two "as founds" from September 2015 that were not previously reported. This brought the total DEP opportunities for September 2015

to 18/18. There is no color change associated with this update.

1Q/14: Revised Successful drill, exer & event opportunities to reflect an additional DEP failure for the September (3rd quarter) 2013 report period. This revision did not result in a color change. PER # 836157

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Participating Key personnel	76.0	78.0	77.0	76.0	80.0	88.0	85.0	91.0
Total Key personnel	76.0	78.0	79.0	76.0	80.0	88.0	85.0	91.0
Indicator value	**100.0%**	**100.0%**	**97.5%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful siren-tests	1040	624	1038	621	1040	624	918	726
Total sirens-tests	1040	624	1040	624	1040	624	936	728
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**99.8%**	**99.3%**	**99.4%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: March 1, 2016

Browns Ferry 2

1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2122.1	2209.0	1725.0	1974.5	2208.0	2064.5	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2184.0	2122.1	2209.0	1725.0	1974.5	2208.0	2064.5	2183.0
Indicator value	**2.4**	**1.6**	**0.8**	**0**	**0**	**0.9**	**0.9**	**0.8**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Safety System Functional Failures	0	1	0	0	0	1	2	0
Indicator value	**1**	**2**	**1**	**1**	**1**	**1**	**3**	**3**

Licensee Comments:

4Q/15: (1) LER 50-260/2015-002-00 - High Pressure Coolant Injection System Inoperable Due to Turbine Steam Supply Valve Packing Failure (2) LER 50-259/2015-004-00 - Containment Atmospheric Dilution B Train Supply System Inoperable Longer Than Allowed by Technical Specifications

3Q/15: LER 50-259/2015-003-00, Loss of Cooling to the Unit 1 and Unit 2 Shutdown Board Rooms Due To Fouled Chiller Coils

2Q/15: This comment was updated after quarterly files were created.

2Q/15: Changing PRA parameters did not result in any indicator color changes.

3Q/14: 07/21/2014 - LER 260/2014-003-00 - Both Trains of Standby Liquid Control Inoperable

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/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	1.00E-08	1.22E-08	1.15E-08	1.32E-08	-6.76E-09	-6.77E-09	-4.65E-09	-2.22E-08
URI (ΔCDF)	-3.05E-08	3.02E-10	3.32E-08	2.24E-07	2.16E-07	2.16E-07	-2.85E-07	-2.85E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-08**	**1.30E-08**	**4.50E-08**	**2.40E-07**	**2.10E-07**	**2.10E-07**	**-2.90E-07**	**-3.10E-07**

Licensee Comments:

3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.

2Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. Emergency AC Specific Change: In order for LOSP to result in core damage, multiple additional systems have to fail. Most important of those are the EDGs. In Rev. 5, failure of multiple EDGs was assumed to occur at the same time at T=0 (beginning of the event). If AC power is not restored in 4 hours core damage is likely to occur. This is an unlikely occurrence. A more likely scenario is that the EDGs will fail at random times over an extended period of time,

resulting in a higher probability that offsite power can be restore before all the EDGs fail or before core damage occurs. Convolution adjusts the offsite power recovery probabilities to account for this fact. This reduces the LOSP CDF and LERF contribution and EDG importance. This change was the sole reason for the net CDF decrease between Rev. 5 and Rev. 6. This comment was updated after the quarterly files were created.

2Q/15: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes.

1Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07.

4Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added to September's data. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added after quarterly approval. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07.

2Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.88E-06) has been replaced by a value of 5.00E-07.

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/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	1.08E-07	1.10E-07	-2.60E-08	-2.51E-08	-4.52E-08	-1.02E-08	2.29E-08	1.04E-07
URI (ΔCDF)	-1.69E-07	-1.69E-07	-1.69E-07	-1.69E-07	-2.28E-07	-2.28E-07	-2.21E-07	-2.21E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-5.90E-08**	**-2.00E-07**	**-1.90E-07**	**-2.70E-07**	**-2.40E-07**	**-2.00E-07**	**-1.20E-07**

Licensee Comments:

1Q/16: Third and Fourth Quarter 2015 data was updated to reflect ICES# 318401 change. This changed ICES #318401 from a failure to a non-failure. This change does not affect the color of the indicator.

4Q/15: The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.

4Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.

3Q/15: The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.

3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	1.60E-07	1.61E-07	1.32E-07	1.36E-07	1.43E-07	1.36E-07	1.31E-07	-3.61E-08
URI (ΔCDF)	9.89E-08	9.89E-08	9.89E-08	9.89E-08	1.31E-07	1.31E-07	1.52E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.60E-07**	**2.60E-07**	**2.30E-07**	**2.30E-07**	**2.70E-07**	**2.70E-07**	**2.80E-07**	**-2.20E-07**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	5.85E-08	4.67E-08	3.69E-08	3.75E-08	4.42E-08	4.06E-08	3.39E-08	3.93E-08
URI (ΔCDF)	-1.26E-07	-1.26E-07	-1.26E-07	-1.26E-07	-7.60E-08	-7.60E-08	-7.60E-08	-7.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.80E-08**	**-8.00E-08**	**-9.00E-08**	**-8.90E-08**	**-3.20E-08**	**-3.50E-08**	**-4.20E-08**	**-3.70E-08**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created. MSPI failures were added after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	1.25E-07	1.15E-07	8.02E-08	7.92E-08	8.81E-08	7.00E-08	7.03E-08	6.41E-08
URI (ΔCDF)	-3.90E-08	-3.90E-08	-3.90E-08	-4.70E-08	-3.73E-08	-3.73E-08	-3.73E-08	-3.73E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.60E-08**	**7.60E-08**	**4.10E-08**	**3.20E-08**	**5.10E-08**	**3.30E-08**	**3.30E-08**	**2.70E-08**

Licensee Comments:

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**
Maximum activity	0.000059	0.000075	0.000056	0.000056	0.000055	0.000070	0.000057	0.000074	0.000057	0.000076	0.000076	0.000052
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	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**
Maximum activity	0.000027	0.000029	0.000028	0.000043	0.000028	0.000028	0.000059	0.000068	0.000026	0.000021	0.000029	0.000031
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	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**
Maximum leakage	2.080	1.600	1.930	1.990	6.940	1.580	1.550	1.550	1.580	1.590	1.710	1.760
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	**6.9**	**5.3**	**6.4**	**6.6**	**23.1**	**5.3**	**5.2**	**5.2**	**5.3**	**5.3**	**5.7**	**5.9**
Reactor Coolant System Leakage	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**

Maximum leakage	1.780	1.760	1.510	1.540	1.480	1.560	1.470	1.660	1.510	1.490	1.510	1.470
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	**5.9**	**5.9**	**5.0**	**5.1**	**4.9**	**5.2**	**4.9**	**5.5**	**5.0**	**5.0**	**5.0**	**4.9**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
Successful opportunities	63.0	86.0	4.0	46.0	16.0	50.0	74.0	34.0
Total opportunities	64.0	90.0	4.0	46.0	16.0	50.0	75.0	34.0
Indicator value	**99.0%**	**98.0%**	**97.9%**	**98.0%**	**98.0%**	**98.6%**	**98.3%**	**98.4%**

Licensee Comments:

4Q/15: During the November 2015 Emergency Preparedness Graded Exercise NRC Inspection, the NRC identified an error in the PI Data. Emergency Preparedness(EP) failed to count a classification and notification. EP reported 12/12 Drill and Exercise Performance(DEP) opportunities and the actual count is 14/14. Additionally, when Operations Training submitted their October LOR paper work, it included documentation of two "as founds" from September 2015 that were not previously reported. This brought the total DEP opportunities for September 2015

to 18/18. There is no color change associated with this update.

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Participating Key personnel	78.0	77.0	76.0	80.0	88.0	85.0	91.0	93.0
Total Key personnel	78.0	79.0	76.0	80.0	88.0	85.0	91.0	93.0
Indicator value	**100.0%**	**97.5%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful siren-tests	624	1038	621	1040	624	918	726	881
Total sirens-tests	624	1040	624	1040	624	936	728	902
Indicator value	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**99.8%**	**99.3%**	**99.4%**	**98.7%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: April 23, 2016

Browns Ferry 2

2Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2122.1	2209.0	1725.0	1974.5	2208.0	2064.5	2183.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2122.1	2209.0	1725.0	1974.5	2208.0	2064.5	2183.0	2184.0
Indicator value	**1.6**	**0.8**	**0**	**0**	**0.9**	**0.9**	**0.8**	**0.8**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Safety System Functional Failures	1	0	0	0	1	2	0	0
Indicator value	**2**	**1**	**1**	**1**	**1**	**3**	**3**	**3**

Licensee Comments:

4Q/15: (1) LER 50-260/2015-002-00 - High Pressure Coolant Injection System Inoperable Due to Turbine Steam Supply Valve Packing Failure (2) LER 50-259/2015-004-00 - Containment Atmospheric Dilution B Train Supply System Inoperable Longer Than Allowed by Technical Specifications

3Q/15: LER 50-259/2015-003-00, Loss of Cooling to the Unit 1 and Unit 2 Shutdown Board Rooms Due To Fouled Chiller Coils

2Q/15: This comment was updated after quarterly files were created.

2Q/15: Changing PRA parameters did not result in any indicator color changes.

3Q/14: 07/21/2014 - LER 260/2014-003-00 - Both Trains of Standby Liquid Control Inoperable

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/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	1.22E-08	1.15E-08	1.32E-08	-6.76E-09	-6.77E-09	-4.65E-09	-2.22E-08	-2.38E-08
URI (ΔCDF)	3.02E-10	3.32E-08	2.24E-07	2.16E-07	2.16E-07	-2.85E-07	-2.85E-07	-3.04E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.30E-08**	**4.50E-08**	**2.40E-07**	**2.10E-07**	**2.10E-07**	**-2.90E-07**	**-3.10E-07**	**-3.30E-07**

Licensee Comments:

2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.

2Q/15: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes.

2Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure

(2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. Emergency AC Specific Change: In order for LOSP to result in core damage, multiple additional systems have to fail. Most important of those are the EDGs. In Rev. 5, failure of multiple EDGs was assumed to occur at the same time at T=0 (beginning of the event). If AC power is not restored in 4 hours core damage is likely to occur. This is an unlikely occurrence. A more likely scenario is that the EDGs will fail at random times over an extended period of time, resulting in a higher probability that offsite power can be restore before all the EDGs fail or before core damage occurs. Convolution adjusts the offsite power recovery probabilities to account for this fact. This reduces the LOSP CDF and LERF contribution and EDG importance. This change was the sole reason for the net CDF decrease between Rev. 5 and Rev. 6. This comment was updated after the quarterly files were created.

1Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07.

4Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added to September's data. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added after quarterly approval. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

3Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (1.94E-06) has been replaced by a value of 5.00E-07.

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/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	1.10E-07	-2.60E-08	-2.51E-08	-4.52E-08	-1.02E-08	2.29E-08	1.04E-07	8.49E-08
URI (ΔCDF)	-1.69E-07	-1.69E-07	-1.69E-07	-2.28E-07	-2.28E-07	-2.21E-07	-2.21E-07	-1.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.90E-08**	**-2.00E-07**	**-1.90E-07**	**-2.70E-07**	**-2.40E-07**	**-2.00E-07**	**-1.20E-07**	**-8.50E-08**

Licensee Comments:

2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/16: Third and Fourth Quarter 2015 data was updated to reflect ICES# 318401 change. This changed ICES #318401 from a failure to a non-failure. This change does not affect the color of the indicator.

4Q/15: The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.

4Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.

3Q/15: The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.

3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

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

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (ΔCDF)	1.61E-07	1.32E-07	1.36E-07	1.43E-07	1.36E-07	1.31E-07	-3.61E-08	-2.30E-08
URI (ΔCDF)	9.89E-08	9.89E-08	9.89E-08	1.31E-07	1.31E-07	1.52E-07	-1.87E-07	-1.09E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO

Indicator value	**2.60E-07**	**2.30E-07**	**2.30E-07**	**2.70E-07**	**2.70E-07**	**2.80E-07**	**-2.20E-07**	**-1.30E-07**

Licensee Comments:

2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	4.67E-08	3.69E-08	3.75E-08	4.42E-08	4.06E-08	3.39E-08	3.93E-08	4.35E-09
URI (ΔCDF)	-1.26E-07	-1.26E-07	-1.26E-07	-7.60E-08	-7.60E-08	-7.60E-08	-7.60E-08	-2.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.00E-08**	**-9.00E-08**	**-8.90E-08**	**-3.20E-08**	**-3.50E-08**	**-4.20E-08**	**-3.70E-08**	**-2.40E-08**

Licensee Comments:

2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created. MSPI failures were added after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	1.15E-07	8.02E-08	7.92E-08	8.81E-08	7.00E-08	7.03E-08	6.41E-08	3.20E-08
URI (ΔCDF)	-3.90E-08	-3.90E-08	-4.70E-08	-3.73E-08	-3.73E-08	-3.73E-08	-3.73E-08	-1.95E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.60E-08**	**4.10E-08**	**3.20E-08**	**5.10E-08**	**3.30E-08**	**3.30E-08**	**2.70E-08**	**1.20E-08**

Licensee Comments:

2Q/16: Changed PRA Parameter(s). Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**
Maximum activity	0.000056	0.000055	0.000070	0.000057	0.000074	0.000057	0.000076	0.000076	0.000052	0.000027	0.000029	0.000028
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	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**
Maximum activity	0.000043	0.000028	0.000028	0.000059	0.000068	0.000026	0.000021	0.000029	0.000031	0.000022	0.000025	0.000025
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	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**
Maximum leakage	1.990	6.940	1.580	1.550	1.550	1.580	1.590	1.710	1.760	1.780	1.760	1.510
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	**6.6**	**23.1**	**5.3**	**5.2**	**5.2**	**5.3**	**5.3**	**5.7**	**5.9**	**5.9**	**5.9**	**5.0**
Reactor Coolant System Leakage	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**
Maximum leakage	1.540	1.480	1.560	1.470	1.660	1.510	1.490	1.510	1.470	1.480	1.480	1.460
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	**5.1**	**4.9**	**5.2**	**4.9**	**5.5**	**5.0**	**5.0**	**5.0**	**4.9**	**4.9**	**4.9**	**4.9**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful opportunities	86.0	4.0	46.0	16.0	50.0	74.0	34.0	43.0
Total opportunities	90.0	4.0	46.0	16.0	50.0	75.0	34.0	45.0
Indicator value	**98.0%**	**97.9%**	**98.0%**	**98.0%**	**98.6%**	**98.3%**	**98.4%**	**98.1%**

Licensee Comments:

4Q/15: During the November 2015 Emergency Preparedness Graded Exercise NRC Inspection, the NRC identified an error in the PI Data. Emergency Preparedness(EP) failed to count a classification and notification. EP reported 12/12 Drill and Exercise Performance(DEP) opportunities and the actual count is 14/14. Additionally, when Operations Training submitted their October LOR paper work, it included documentation of two "as founds" from September 2015 that were not previously reported. This brought the total DEP opportunities for September 2015 to 18/18. There is no color change associated with this update.

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Participating Key personnel	77.0	76.0	80.0	88.0	85.0	91.0	93.0	91.0
Total Key personnel	79.0	76.0	80.0	88.0	85.0	91.0	93.0	91.0
Indicator value	**97.5%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful siren-tests	1038	621	1040	624	918	726	881	718
Total sirens-tests	1040	624	1040	624	936	728	902	728
Indicator value	**99.9%**	**99.8%**	**99.8%**	**99.8%**	**99.3%**	**99.4%**	**98.7%**	**98.5%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: July 25, 2016

Browns Ferry 2

3Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	1725.0	1974.5	2208.0	2064.5	2183.0	2184.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2209.0	1725.0	1974.5	2208.0	2064.5	2183.0	2184.0	2208.0
Indicator value	**0.8**	**0**	**0**	**0.9**	**0.9**	**0.8**	**0.8**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Safety System Functional Failures	0	0	0	1	2	0	0	2
Indicator value	**1**	**1**	**1**	**1**	**3**	**3**	**3**	**4**

Licensee Comments:

3Q/16: LER 50-260/2016-001-00: High Pressure Coolant Injection Safety System Functional Failure due to a Blown Fuse and a Failed Relay; LER 50-260/2016-002-00: High Pressure Coolant Injection Safety System Functional Failure Due To Stuck Contactor

4Q/15: (1) LER 50-260/2015-002-00 - High Pressure Coolant Injection System Inoperable Due to Turbine Steam Supply Valve Packing Failure (2) LER 50-259/2015-004-00 - Containment Atmospheric Dilution B Train Supply System Inoperable Longer Than Allowed by Technical Specifications

3Q/15: LER 50-259/2015-003-00, Loss of Cooling to the Unit 1 and Unit 2 Shutdown Board Rooms Due To Fouled Chiller Coils

2Q/15: This comment was updated after quarterly files were created.

2Q/15: Changing PRA parameters did not result in any indicator color changes.

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (ΔCDF)	1.15E-08	1.32E-08	-6.76E-09	-6.77E-09	-4.65E-09	-2.22E-08	-2.38E-08	-2.38E-08
URI (ΔCDF)	3.32E-08	2.24E-07	2.16E-07	2.16E-07	-2.85E-07	-2.85E-07	-3.04E-07	-2.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.50E-08**	**2.40E-07**	**2.10E-07**	**2.10E-07**	**-2.90E-07**	**-3.10E-07**	**-3.30E-07**	**-2.90E-07**

Licensee Comments:

3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Section F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, and RHRSW were revised.

2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure

(2.06E-06) has been replaced by a value of 5.00E-07.

2Q/15: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes.

2Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. Emergency AC Specific Change: In order for LOSP to result in core damage, multiple additional systems have to fail. Most important of those are the EDGs. In Rev. 5, failure of multiple EDGs was assumed to occur at the same time at T=0 (beginning of the event). If AC power is not restored in 4 hours core damage is likely to occur. This is an unlikely occurrence. A more likely scenario is that the EDGs will fail at random times over an extended period of time, resulting in a higher probability that offsite power can be restore before all the EDGs fail or before core damage occurs. Convolution adjusts the offsite power recovery probabilities to account for this fact. This reduces the LOSP CDF and LERF contribution and EDG importance. This change was the sole reason for the net CDF decrease between Rev. 5 and Rev. 6. This comment was updated after the quarterly files were created.

1Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07.

4Q/14: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07. Unavailability hours inappropriately missed for DG A from 9/30/2014 were added to September's data. These hours were due to vibration repairs that placed DG A in an unanalyzed condition and unavailability did accrue. There is no indicator color change associated with this revision.

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/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	-2.60E-08	-2.51E-08	-4.52E-08	-1.02E-08	2.29E-08	1.04E-07	8.49E-08	8.44E-08
URI (ΔCDF)	-1.69E-07	-1.69E-07	-2.28E-07	-2.28E-07	-2.21E-07	-2.21E-07	-1.70E-07	-1.04E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-07**	**-1.90E-07**	**-2.70E-07**	**-2.40E-07**	**-2.00E-07**	**-1.20E-07**	**-8.50E-08**	**-2.00E-08**

Licensee Comments:

3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.

2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/16: Third and Fourth Quarter 2015 data was updated to reflect ICES# 318401 change. This changed ICES #318401 from a failure to a non-failure. This change does not affect the color of the indicator.

4Q/15: The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.

4Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.

3Q/15: The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.

3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

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/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	1.32E-07	1.36E-07	1.43E-07	1.36E-07	1.31E-07	-3.61E-08	-2.30E-08	-2.30E-08
URI (ΔCDF)	9.89E-08	9.89E-08	1.31E-07	1.31E-07	1.52E-07	-1.87E-07	-1.09E-07	-6.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-07**	**2.30E-07**	**2.70E-07**	**2.70E-07**	**2.80E-07**	**-2.20E-07**	**-1.30E-07**	**-9.20E-08**

Licensee Comments:

3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.

2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	3.69E-08	3.75E-08	4.42E-08	4.06E-08	3.39E-08	3.93E-08	4.35E-09	2.36E-10
URI (ΔCDF)	-1.26E-07	-1.26E-07	-7.60E-08	-7.60E-08	-7.60E-08	-7.60E-08	-2.86E-08	-2.82E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.00E-08**	**-8.90E-08**	**-3.20E-08**	**-3.50E-08**	**-4.20E-08**	**-3.70E-08**	**-2.40E-08**	**-2.80E-08**

Licensee Comments:

3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.

2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the

basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created. MSPI failures were added after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	8.02E-08	7.92E-08	8.81E-08	7.00E-08	7.03E-08	6.41E-08	3.20E-08	1.06E-08
URI (ΔCDF)	-3.90E-08	-4.70E-08	-3.73E-08	-3.73E-08	-3.73E-08	-3.73E-08	-1.95E-08	-1.92E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.10E-08**	**3.20E-08**	**5.10E-08**	**3.30E-08**	**3.30E-08**	**2.70E-08**	**1.20E-08**	**-8.70E-09**

Licensee Comments:

3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of

the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.

2Q/16: Changed PRA Parameter(s). Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15

Maximum activity	0.000057	0.000074	0.000057	0.000076	0.000076	0.000052	0.000027	0.000029	0.000028	0.000043	0.000028	0.000028
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	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**	**7/16**	**8/16**	**9/16**
Maximum activity	0.000059	0.000068	0.000026	0.000021	0.000029	0.000031	0.000022	0.000025	0.000025	0.000026	0.000056	0.000043
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	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	1.550	1.550	1.580	1.590	1.710	1.760	1.780	1.760	1.510	1.540	1.480	1.560
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	**5.2**	**5.2**	**5.3**	**5.3**	**5.7**	**5.9**	**5.9**	**5.9**	**5.0**	**5.1**	**4.9**	**5.2**
Reactor Coolant System Leakage	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**	**7/16**	**8/16**	**9/16**
Maximum leakage	1.470	1.660	1.510	1.490	1.510	1.470	1.480	1.480	1.460	1.470	1.490	1.470
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	**4.9**	**5.5**	**5.0**	**5.0**	**5.0**	**4.9**	**4.9**	**4.9**	**4.9**	**4.9**	**5.0**	**4.9**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful opportunities	4.0	46.0	16.0	50.0	74.0	34.0	43.0	94.0
Total opportunities	4.0	46.0	16.0	50.0	75.0	34.0	45.0	95.0
Indicator value	**97.9%**	**98.0%**	**98.0%**	**98.6%**	**98.3%**	**98.4%**	**98.1%**	**98.9%**

Licensee Comments:

4Q/15: During the November 2015 Emergency Preparedness Graded Exercise NRC Inspection, the NRC identified an error in the PI Data. Emergency Preparedness(EP) failed to count a classification and notification. EP reported 12/12 Drill and Exercise Performance(DEP) opportunities and the actual count is 14/14. Additionally, when Operations Training submitted their October LOR paper work, it included documentation of two "as founds" from September 2015 that were not previously reported. This brought the total DEP opportunities for September 2015 to 18/18. There is no color change associated with this update.

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Participating Key personnel	76.0	80.0	88.0	85.0	91.0	93.0	91.0	98.0
Total Key personnel	76.0	80.0	88.0	85.0	91.0	93.0	91.0	98.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful siren-tests	621	1040	624	918	726	881	718	932
Total sirens-tests	624	1040	624	936	728	902	728	936
Indicator value	**99.8%**	**99.8%**	**99.8%**	**99.3%**	**99.4%**	**98.7%**	**98.5%**	**98.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: October 23, 2016

Browns Ferry 2

4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1725.0	1974.5	2208.0	2064.5	2183.0	2184.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	1725.0	1974.5	2208.0	2064.5	2183.0	2184.0	2208.0	2209.0
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.8**	**0.8**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	0	0	1	2	0	0	2	0
Indicator value	**1**	**1**	**1**	**3**	**3**	**3**	**4**	**2**

Licensee Comments:

3Q/16: LER 50-260/2016-001-00: High Pressure Coolant Injection Safety System Functional Failure due to a Blown Fuse and a Failed Relay; LER 50-260/2016-002-00: High Pressure Coolant Injection Safety System Functional Failure Due To Stuck Contactor

4Q/15: (1) LER 50-260/2015-002-00 - High Pressure Coolant Injection System Inoperable Due to Turbine Steam Supply Valve Packing Failure (2) LER 50-259/2015-004-00 - Containment Atmospheric Dilution B Train Supply System Inoperable Longer Than Allowed by Technical Specifications

3Q/15: LER 50-259/2015-003-00, Loss of Cooling to the Unit 1 and Unit 2 Shutdown Board Rooms Due To Fouled Chiller Coils

2Q/15: This comment was updated after quarterly files were created.

2Q/15: Changing PRA parameters did not result in any indicator color changes.

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (ΔCDF)	1.32E-08	-6.76E-09	-6.77E-09	-4.65E-09	-2.22E-08	-2.38E-08	-2.38E-08	-2.38E-08
URI (ΔCDF)	2.24E-07	2.16E-07	2.16E-07	-2.85E-07	-2.85E-07	-3.04E-07	-2.69E-07	-2.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.40E-07**	**2.10E-07**	**2.10E-07**	**-2.90E-07**	**-3.10E-07**	**-3.30E-07**	**-2.90E-07**	**-2.90E-07**

Licensee Comments:

4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.

3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Section F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, and RHRSW were revised.

2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.

2Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. Emergency AC Specific Change: In order for LOSP to result in core damage, multiple additional systems have to fail. Most important of those are the EDGs. In Rev. 5, failure of multiple EDGs was assumed to occur at the same time at T=0 (beginning of the event). If AC power is not restored in 4 hours core damage is likely to occur. This is an unlikely occurrence. A more likely scenario is that the EDGs will fail at random times over an extended period of time, resulting in a higher probability that offsite power can be restore before all the EDGs fail or before core damage occurs. Convolution adjusts the offsite power recovery probabilities to account for this fact. This reduces the LOSP CDF and LERF contribution and EDG importance. This change was the sole reason for the net CDF decrease between Rev. 5 and Rev. 6. This comment was updated after the quarterly files were created.

2Q/15: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes.

1Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.00E-06) has been replaced by a value of 5.00E-07.

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	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	-2.51E-08	-4.52E-08	-1.02E-08	2.29E-08	1.04E-07	8.49E-08	8.44E-08	1.08E-08
URI (ΔCDF)	-1.69E-07	-2.28E-07	-2.28E-07	-2.21E-07	-2.21E-07	-1.70E-07	-1.04E-07	-1.04E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-07**	**-2.70E-07**	**-2.40E-07**	**-2.00E-07**	**-1.20E-07**	**-8.50E-08**	**-2.00E-08**	**-9.40E-08**

Licensee Comments:

4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.

3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.

2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/16: Third and Fourth Quarter 2015 data was updated to reflect ICES# 318401 change. This changed ICES #318401 from a failure to a non-failure. This change does not affect the color of the indicator.

4Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.

4Q/15: The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.

3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.

3Q/15: The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (ΔCDF)	1.36E-07	1.43E-07	1.36E-07	1.31E-07	-3.61E-08	-2.30E-08	-2.30E-08	-2.34E-08
URI (ΔCDF)	9.89E-08	1.31E-07	1.31E-07	1.52E-07	-1.87E-07	-1.09E-07	-6.87E-08	-6.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-07**	**2.70E-07**	**2.70E-07**	**2.80E-07**	**-2.20E-07**	**-1.30E-07**	**-9.20E-08**	**-9.20E-08**

Licensee Comments:

4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.

3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.

2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which

included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	3.75E-08	4.42E-08	4.06E-08	3.39E-08	3.93E-08	4.35E-09	2.36E-10	-4.11E-09
URI (ΔCDF)	-1.26E-07	-7.60E-08	-7.60E-08	-7.60E-08	-7.60E-08	-2.86E-08	-2.82E-08	-2.82E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
	-8.90E-	**-3.20E-**	**-3.50E-**	**-4.20E-**	**-3.70E-**	**-2.40E-**	**-2.80E-**	**-3.20E-**

Indicator value	08	08	08	08	08	08	08	08

Licensee Comments:

4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.

3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.

2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created. MSPI failures were added after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	7.92E-08	8.81E-08	7.00E-08	7.03E-08	6.41E-08	3.20E-08	1.06E-08	3.39E-10
URI (ΔCDF)	-4.70E-08	-3.73E-08	-3.73E-08	-3.73E-08	-3.73E-08	-1.95E-08	-1.92E-08	-1.92E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-08**	**5.10E-08**	**3.30E-08**	**3.30E-08**	**2.70E-08**	**1.20E-08**	**-8.70E-09**	**-1.90E-08**

Licensee Comments:

4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.

3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.

2Q/16: Changed PRA Parameter(s). Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a

corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum activity	0.000076	0.000076	0.000052	0.000027	0.000029	0.000028	0.000043	0.000028	0.000028	0.000059	0.000068	0.000026
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	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**	**7/16**	**8/16**	**9/16**	**10/16**	**11/16**	**12/16**
Maximum activity	0.000021	0.000029	0.000031	0.000022	0.000025	0.000025	0.000026	0.000056	0.000043	0.000062	0.000025	0.000026
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	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**
Maximum leakage	1.590	1.710	1.760	1.780	1.760	1.510	1.540	1.480	1.560	1.470	1.660	1.510
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	**5.3**	**5.7**	**5.9**	**5.9**	**5.9**	**5.0**	**5.1**	**4.9**	**5.2**	**4.9**	**5.5**	**5.0**
Reactor Coolant System Leakage	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**	**7/16**	**8/16**	**9/16**	**10/16**	**11/16**	**12/16**
Maximum leakage	1.490	1.510	1.470	1.480	1.480	1.460	1.470	1.490	1.470	1.490	1.710	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	**5.0**	**5.0**	**4.9**	**4.9**	**4.9**	**4.9**	**4.9**	**5.0**	**4.9**	**5.0**	**5.7**	**5.1**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
Successful opportunities	46.0	16.0	50.0	74.0	34.0	43.0	94.0	6.0
Total opportunities	46.0	16.0	50.0	75.0	34.0	45.0	95.0	6.0
Indicator value	**98.0%**	**98.0%**	**98.6%**	**98.3%**	**98.4%**	**98.1%**	**98.9%**	**98.9%**

Licensee Comments:

4Q/15: During the November 2015 Emergency Preparedness Graded Exercise NRC Inspection, the NRC identified

an error in the PI Data. Emergency Preparedness(EP) failed to count a classification and notification. EP reported 12/12 Drill and Exercise Performance(DEP) opportunities and the actual count is 14/14. Additionally, when Operations Training submitted their October LOR paper work, it included documentation of two "as founds" from September 2015 that were not previously reported. This brought the total DEP opportunities for September 2015 to 18/18. There is no color change associated with this update.

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	80.0	88.0	85.0	91.0	93.0	91.0	98.0	97.0
Total Key personnel	80.0	88.0	85.0	91.0	93.0	91.0	98.0	97.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful siren-tests	1040	624	918	726	881	718	932	828
Total sirens-tests	1040	624	936	728	902	728	936	832
Indicator value	**99.8%**	**99.8%**	**99.3%**	**99.4%**	**98.7%**	**98.5%**	**98.9%**	**98.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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.

Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

Last Modified: January 24, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

Browns Ferry 2 – Quarterly Performance Indicators

1Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	1974.5	2208.0	2064.5	2183.0	2184.0	2208.0	2209.0	1354.8
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**

TOP

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	1974.5	2208.0	2064.5	2183.0	2184.0	2208.0	2209.0	1354.8
Indicator value	**0**	**0.9**	**0.9**	**0.8**	**0.8**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
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**

TOP

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Safety System Functional Failures	0	1	2	0	0	2	0	0
Indicator value	**1**	**1**	**3**	**3**	**3**	**4**	**2**	**2**

TOP

Licensee Comments:
3Q/16: LER 50-260/2016-001-00: High Pressure Coolant Injection Safety System Functional Failure due to a Blown Fuse and a Failed Relay; LER 50-260/2016-002-00: High Pressure Coolant Injection Safety System Functional Failure Due To Stuck Contactor
4Q/15: (1) LER 50-260/2015-002-00 - High Pressure Coolant Injection System Inoperable Due to Turbine Steam Supply Valve Packing Failure (2) LER 50-259/2015-004-00 - Containment Atmospheric Dilution B Train Supply System Inoperable Longer Than Allowed by Technical Specifications
3Q/15: LER 50-259/2015-003-00, Loss of Cooling to the Unit 1 and Unit 2 Shutdown Board Rooms Due To Fouled Chiller Coils
2Q/15: This comment was updated after quarterly files were created.
2Q/15: Changing PRA parameters did not result in any indicator color changes.

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/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-6.76E-09	-6.77E-09	-4.65E-09	-2.22E-08	-2.38E-08	-2.38E-08	-2.38E-08	-2.37E-08
URI (ΔCDF)	2.16E-07	2.16E-07	-2.85E-07	-2.85E-07	-3.04E-07	-2.69E-07	-2.69E-07	-2.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.10E-07**	**2.10E-07**	**-2.90E-07**	**-3.10E-07**	**-3.30E-07**	**-2.90E-07**	**-2.90E-07**	**-2.90E-07**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Section F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, and RHRSW were revised.
2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.
3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.
2Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been

replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. Emergency AC Specific Change: In order for LOSP to result in core damage, multiple additional systems have to fail. Most important of those are the EDGs. In Rev. 5, failure of multiple EDGs was assumed to occur at the same time at T=0 (beginning of the event). If AC power is not restored in 4 hours core damage is likely to occur. This is an unlikely occurrence. A more likely scenario is that the EDGs will fail at random times over an extended period of time, resulting in a higher probability that offsite power can be restore before all the EDGs fail or before core damage occurs. Convolution adjusts the offsite power recovery probabilities to account for this fact. This reduces the LOSP CDF and LERF contribution and EDG importance. This change was the sole reason for the net CDF decrease between Rev. 5 and Rev. 6. This comment was updated after the quarterly files were created.
2Q/15: Risk Cap Invoked. Changed PRA Parameter(s). The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.Changing PRA parameters did not result in any indicator color changes.

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/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-4.52E-08	-1.02E-08	2.29E-08	1.04E-07	8.49E-08	8.44E-08	1.08E-08	1.71E-08
URI (ΔCDF)	-2.28E-07	-2.28E-07	-2.21E-07	-2.21E-07	-1.70E-07	-1.04E-07	-1.04E-07	-1.04E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.70E-07**	**-2.40E-07**	**-2.00E-07**	**-1.20E-07**	**-8.50E-08**	**-2.00E-08**	**-9.40E-08**	**-8.70E-08**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start

basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.
2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.
1Q/16: Third and Fourth Quarter 2015 data was updated to reflect ICES# 318401 change. This changed ICES #318401 from a failure to a non-failure. This change does not affect the color of the indicator.
4Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.
4Q/15: The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.
3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.
3Q/15: The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.
2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.
2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	1.43E-07	1.36E-07	1.31E-07	-3.61E-08	-2.30E-08	-2.30E-08	-2.34E-08	-2.34E-08
URI (ΔCDF)	1.31E-07	1.31E-07	1.52E-07	-1.87E-07	-1.09E-07	-6.87E-08	-6.87E-08	-6.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.70E-07**	**2.70E-07**	**2.80E-07**	**-2.20E-07**	**-1.30E-07**	**-9.20E-08**	**-9.20E-08**	**-9.20E-08**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.
2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.
2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.
2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	4.42E-08	4.06E-08	3.39E-08	3.93E-08	4.35E-09	2.36E-10	-4.11E-09	-3.89E-09
URI (ΔCDF)	-7.60E-08	-7.60E-08	-7.60E-08	-7.60E-08	-2.86E-08	-2.82E-08	-2.82E-08	-2.82E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.20E-08**	**-3.50E-08**	**-4.20E-08**	**-3.70E-08**	**-2.40E-08**	**-2.80E-08**	**-3.20E-08**	**-3.20E-08**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.
2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.
2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent..

Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created. MSPI failures were added after the quarterly files were created.
2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	8.81E-08	7.00E-08	7.03E-08	6.41E-08	3.20E-08	1.06E-08	3.39E-10	6.37E-10
URI (ΔCDF)	-3.73E-08	-3.73E-08	-3.73E-08	-3.73E-08	-1.95E-08	-1.92E-08	-1.92E-08	-1.92E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.10E-08**	**3.30E-08**	**3.30E-08**	**2.70E-08**	**1.20E-08**	**-8.70E-09**	**-1.90E-08**	**-1.90E-08**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.
2Q/16: Changed PRA Parameter(s). Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding

MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.
2Q/15: Changing PRA parameters did not result in any indicator color changes. The BFN PRA Model Revision 6 was approved on 1/23/15 with a corresponding MSPI Basis Document Revisions approved on 7/17/15. The PRA model revision incorporated the Fire PRA (FPRA) and the Internal Events PRA (IE) into one model to assure the basic structure of both models remains consistent.. Additionally, identified errors, deficiencies, or over conservatisms in the Rev.5 model were corrected. As a result of the PRA model change, there is a slight decrease in CDF and a slight increase in LERF. This comment was updated after the quarterly files were created.
2Q/15: Changed PRA Parameter(s). Changing PRA parameters did not result in any indicator color changes.

Notes

Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	0.000027	0.000029	0.000028	0.000043	0.000028	0.000028	0.000059	0.000068	0.000026	0.000021	0.000029	0.000031
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	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum activity	0.000022	0.000025	0.000025	0.000026	0.000056	0.000043	0.000062	0.000025	0.000026	0.000039	0.000021	N/A
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 N/A**

TOP

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**
Maximum leakage	1.780	1.760	1.510	1.540	1.480	1.560	1.470	1.660	1.510	1.490	1.510	1.470
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	**5.9**	**5.9**	**5.0**	**5.1**	**4.9**	**5.2**	**4.9**	**5.5**	**5.0**	**5.0**	**5.0**	**4.9**

Reactor Coolant System Leakage	**4/16**	**5/16**	**6/16**	**7/16**	**8/16**	**9/16**	**10/16**	**11/16**	**12/16**	**1/17**	**2/17**	**3/17**
Maximum leakage	1.480	1.480	1.460	1.470	1.490	1.470	1.490	1.710	1.520	1.580	1.540	1.210
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	**4.9**	**4.9**	**4.9**	**4.9**	**5.0**	**4.9**	**5.0**	**5.7**	**5.1**	**5.3**	**5.1**	**4.0**

TOP

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful opportunities	16.0	50.0	74.0	34.0	43.0	94.0	6.0	36.0
Total opportunities	16.0	50.0	75.0	34.0	45.0	95.0	6.0	36.0
Indicator value	**98.0%**	**98.6%**	**98.3%**	**98.4%**	**98.1%**	**98.9%**	**98.9%**	**98.9%**

TOP

Licensee Comments:
4Q/15: During the November 2015 Emergency Preparedness Graded Exercise NRC Inspection, the NRC identified an error in the PI Data. Emergency Preparedness(EP) failed to count a classification and notification. EP reported 12/12 Drill and Exercise Performance (DEP) opportunities and the actual count is 14/14. Additionally, when Operations Training submitted their October LOR paper work, it included documentation of two "as founds" from September 2015 that were not previously reported. This brought the total DEP opportunities for September 2015 to 18/18. There is no color change associated with this update.

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Participating Key personnel	88.0	85.0	91.0	93.0	91.0	98.0	97.0	101.0
Total Key personnel	88.0	85.0	91.0	93.0	91.0	98.0	97.0	101.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

TOP

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	624	918	726	881	718	932	828	831
Total sirens-tests	624	936	728	902	728	936	832	832
Indicator value	**99.8%**	**99.3%**	**99.4%**	**98.7%**	**98.5%**	**98.9%**	**98.9%**	**99.4%**

TOP

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
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**

TOP

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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Licensee Comments: none

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.

Current data as of: May 5, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

Browns Ferry 2 – Quarterly Performance Indicators

2Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2208.0	2064.5	2183.0	2184.0	2208.0	2209.0	1354.8	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**

TOP

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned power changes	1.0	0	0	0	0	0	0	1.0
Critical hours	2208.0	2064.5	2183.0	2184.0	2208.0	2209.0	1354.8	2184.0
Indicator value	**0.9**	**0.9**	**0.8**	**0.8**	**0**	**0**	**0**	**0.9**

TOP

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
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**

TOP

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Safety System Functional Failures	1	2	0	0	2	0	0	2
Indicator value	**1**	**3**	**3**	**3**	**4**	**2**	**2**	**4**

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Licensee Comments:
2Q/17: LER 50-260/2017-001-00 - High Pressure Coolant Injection Safety System Functional Failure Due to a Blown Fuse LER 50-259/2017-003-00 - Unanalyzed Condition for Tornado Missiles Striking the Emergency Diesel Generator Fuel Oil Vent Lines
3Q/16: LER 50-260/2016-001-00: High Pressure Coolant Injection Safety System Functional Failure due to a Blown Fuse and a Failed Relay; LER 50-260/2016-002-00: High Pressure Coolant Injection Safety System Functional Failure Due To Stuck Contactor
4Q/15: (1) LER 50-260/2015-002-00 - High Pressure Coolant Injection System Inoperable Due to Turbine Steam Supply Valve Packing Failure (2) LER 50-259/2015-004-00 - Containment Atmospheric Dilution B Train Supply System Inoperable Longer Than Allowed by Technical Specifications
3Q/15: LER 50-259/2015-003-00, Loss of Cooling to the Unit 1 and Unit 2 Shutdown Board Rooms Due To Fouled Chiller Coils

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/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-6.77E-09	-4.65E-09	-2.22E-08	-2.38E-08	-2.38E-08	-2.38E-08	-2.37E-08	-2.30E-08
URI (ΔCDF)	2.16E-07	-2.85E-07	-2.85E-07	-3.04E-07	-2.69E-07	-2.69E-07	-2.69E-07	-2.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.10E-07**	**-2.90E-07**	**-3.10E-07**	**-3.30E-07**	**-2.90E-07**	**-2.90E-07**	**-2.90E-07**	**-2.90E-07**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Section F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, and RHRSW were revised.
2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.
3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (2.06E-06) has been replaced by a value of 5.00E-07.

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/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-1.02E-08	2.29E-08	1.04E-07	8.49E-08	8.44E-08	1.08E-08	1.71E-08	1.69E-08
URI (ΔCDF)	-2.28E-07	-2.21E-07	-2.21E-07	-1.70E-07	-1.04E-07	-1.04E-07	-1.04E-07	-1.04E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.40E-07**	**-2.00E-07**	**-1.20E-07**	**-8.50E-08**	**-2.00E-08**	**-9.40E-08**	**-8.70E-08**	**-8.80E-08**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.
2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.
1Q/16: Third and Fourth Quarter 2015 data was updated to reflect ICES# 318401 change. This changed ICES #318401 from a failure to a

non-failure. This change does not affect the color of the indicator.
4Q/15: The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.
4Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.
3Q/15: The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.
3Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.72E-07) has been replaced by a value of 5.00E-07.

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	1.36E-07	1.31E-07	-3.61E-08	-2.30E-08	-2.30E-08	-2.34E-08	-2.34E-08	-2.34E-08
URI (ΔCDF)	1.31E-07	1.52E-07	-1.87E-07	-1.09E-07	-6.87E-08	-6.87E-08	-6.87E-08	-6.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.70E-07**	**2.80E-07**	**-2.20E-07**	**-1.30E-07**	**-9.20E-08**	**-9.20E-08**	**-9.20E-08**	**-9.20E-08**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.

3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.
2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	4.06E-08	3.39E-08	3.93E-08	4.35E-09	2.36E-10	-4.11E-09	-3.89E-09	-4.10E-09
URI (ΔCDF)	-7.60E-08	-7.60E-08	-7.60E-08	-2.86E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-08**	**-4.20E-08**	**-3.70E-08**	**-2.40E-08**	**-2.80E-08**	**-3.20E-08**	**-3.20E-08**	**-3.20E-08**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.

3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.
2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	7.00E-08	7.03E-08	6.41E-08	3.20E-08	1.06E-08	3.39E-10	6.37E-10	6.37E-10
URI (ΔCDF)	-3.73E-08	-3.73E-08	-3.73E-08	-1.95E-08	-1.92E-08	-1.92E-08	-1.92E-08	-1.92E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.30E-08**	**3.30E-08**	**2.70E-08**	**1.20E-08**	**-8.70E-09**	**-1.90E-08**	**-1.90E-08**	**-1.90E-08**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA

was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.
2Q/16: Changed PRA Parameter(s). Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum activity	0.000043	0.000028	0.000028	0.000059	0.000068	0.000026	0.000021	0.000029	0.000031	0.000022	0.000025	0.000025
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	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum activity	0.000026	0.000056	0.000043	0.000062	0.000025	0.000026	0.000039	0.000021	N/A	0.000035	0.000022	0.000033
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**	**N/A**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**
Maximum leakage	1.540	1.480	1.560	1.470	1.660	1.510	1.490	1.510	1.470	1.480	1.480	1.460
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	**5.1**	**4.9**	**5.2**	**4.9**	**5.5**	**5.0**	**5.0**	**5.0**	**4.9**	**4.9**	**4.9**	**4.9**

Reactor Coolant System Leakage	**7/16**	**8/16**	**9/16**	**10/16**	**11/16**	**12/16**	**1/17**	**2/17**	**3/17**	**4/17**	**5/17**	**6/17**
Maximum leakage	1.470	1.490	1.470	1.490	1.710	1.520	1.580	1.540	1.210	1.590	1.530	1.510
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	**4.9**	**5.0**	**4.9**	**5.0**	**5.7**	**5.1**	**5.3**	**5.1**	**4.0**	**5.3**	**5.1**	**5.0**

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Licensee Comments: none

Notes

Drill/Exercise Performance	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful opportunities	50.0	74.0	34.0	43.0	94.0	6.0	36.0	58.0
Total opportunities	50.0	75.0	34.0	45.0	95.0	6.0	36.0	60.0
Indicator value	**98.6%**	**98.3%**	**98.4%**	**98.1%**	**98.9%**	**98.9%**	**98.9%**	**98.5%**

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Licensee Comments:
4Q/15: During the November 2015 Emergency Preparedness Graded Exercise NRC Inspection, the NRC identified an error in the PI Data. Emergency Preparedness(EP) failed to count a classification and notification. EP reported 12/12 Drill and Exercise Performance (DEP) opportunities and the actual count is 14/14. Additionally, when Operations Training submitted their October LOR paper work, it included documentation of two "as founds" from September 2015 that were not previously reported. This brought the total DEP opportunities for September 2015 to 18/18. There is no color change associated with this update.

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	85.0	91.0	93.0	91.0	98.0	97.0	101.0	97.0
Total Key personnel	85.0	91.0	93.0	91.0	98.0	97.0	101.0	97.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

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Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	918	726	881	718	932	828	831	727
Total sirens-tests	936	728	902	728	936	832	832	728
Indicator value	**99.3%**	**99.4%**	**98.7%**	**98.5%**	**98.9%**	**98.9%**	**99.4%**	**99.7%**

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Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
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**

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Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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Licensee Comments: none

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.

Current data as of: July 26, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

Browns Ferry 2 – Quarterly Performance Indicators

3Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2064.5	2183.0	2184.0	2208.0	2209.0	1354.8	2184.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**

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Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2064.5	2183.0	2184.0	2208.0	2209.0	1354.8	2184.0	2208.0
Indicator value	**0.9**	**0.8**	**0.8**	**0**	**0**	**0**	**0.9**	**0.9**

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Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
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**

TOP

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Safety System Functional Failures	2	0	0	2	0	0	2	0
Indicator value	**3**	**3**	**3**	**4**	**2**	**2**	**4**	**2**

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Licensee Comments:
2Q/17: LER 50-260/2017-001-00 - High Pressure Coolant Injection Safety System Functional Failure Due to a Blown Fuse LER 50-259/2017-003-00 - Unanalyzed Condition for Tornado Missiles Striking the Emergency Diesel Generator Fuel Oil Vent Lines
3Q/16: LER 50-260/2016-001-00: High Pressure Coolant Injection Safety System Functional Failure due to a Blown Fuse and a Failed Relay; LER 50-260/2016-002-00: High Pressure Coolant Injection Safety System Functional Failure Due To Stuck Contactor
4Q/15: (1) LER 50-260/2015-002-00 - High Pressure Coolant Injection System Inoperable Due to Turbine Steam Supply Valve Packing Failure (2) LER 50-259/2015-004-00 - Containment Atmospheric Dilution B Train Supply System Inoperable Longer Than Allowed by Technical Specifications

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/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-4.65E-09	-2.22E-08	-2.38E-08	-2.38E-08	-2.38E-08	-2.37E-08	-2.30E-08	-2.30E-08
URI (ΔCDF)	-2.85E-07	-2.85E-07	-3.04E-07	-2.69E-07	-2.69E-07	-2.69E-07	-2.69E-07	-2.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.90E-07**	**-3.10E-07**	**-3.30E-07**	**-2.90E-07**	**-2.90E-07**	**-2.90E-07**	**-2.90E-07**	**-2.90E-07**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Section F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, and RHRSW were revised.
2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

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/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	2.29E-08	1.04E-07	8.49E-08	8.44E-08	1.08E-08	1.71E-08	1.69E-08	1.56E-08
URI (ΔCDF)	-2.21E-07	-2.21E-07	-1.70E-07	-1.04E-07	-1.04E-07	-1.04E-07	-1.04E-07	-1.04E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-07**	**-1.20E-07**	**-8.50E-08**	**-2.00E-08**	**-9.40E-08**	**-8.70E-08**	**-8.80E-08**	**-8.90E-08**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.
2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.
1Q/16: Third and Fourth Quarter 2015 data was updated to reflect ICES# 318401 change. This changed ICES #318401 from a failure to a non-failure. This change does not affect the color of the indicator.
4Q/15: The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.

4Q/15: Risk Cap Invoked. The MSPI Risk Cap is invoked. The contribution from the highest worth single failure (7.86E-7) has been replaced by a value of 5E-7.

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	1.31E-07	-3.61E-08	-2.30E-08	-2.30E-08	-2.34E-08	-2.34E-08	-2.34E-08	-2.34E-08
URI (ΔCDF)	1.52E-07	-1.87E-07	-1.09E-07	-6.87E-08	-6.87E-08	-6.87E-08	-6.87E-08	-6.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.80E-07**	**-2.20E-07**	**-1.30E-07**	**-9.20E-08**	**-9.20E-08**	**-9.20E-08**	**-9.20E-08**	**-9.20E-08**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.
2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and

incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	3.39E-08	3.93E-08	4.35E-09	2.36E-10	-4.11E-09	-3.89E-09	-4.10E-09	-2.00E-09
URI (ΔCDF)	-7.60E-08	-7.60E-08	-2.86E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.20E-08**	**-3.70E-08**	**-2.40E-08**	**-2.80E-08**	**-3.20E-08**	**-3.20E-08**	**-3.20E-08**	**-3.00E-08**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.
2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and

incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	7.03E-08	6.41E-08	3.20E-08	1.06E-08	3.39E-10	6.37E-10	6.37E-10	6.04E-10
URI (ΔCDF)	-3.73E-08	-3.73E-08	-1.95E-08	-1.92E-08	-1.92E-08	-1.92E-08	-1.92E-08	-6.90E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.30E-08**	**2.70E-08**	**1.20E-08**	**-8.70E-09**	**-1.90E-08**	**-1.90E-08**	**-1.90E-08**	**-6.30E-09**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.
2Q/16: Changed PRA Parameter(s). Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included

a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**	**7/16**	**8/16**	**9/16**
Maximum activity	0.000059	0.000068	0.000026	0.000021	0.000029	0.000031	0.000022	0.000025	0.000025	0.000026	0.000056	0.000043
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	**10/16**	**11/16**	**12/16**	**1/17**	**2/17**	**3/17**	**4/17**	**5/17**	**6/17**	**7/17**	**8/17**	**9/17**
Maximum activity	0.000062	0.000025	0.000026	0.000039	0.000021	N/A	0.000035	0.000022	0.000033	0.000030	0.000050	0.000029
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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**

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Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum leakage	1.470	1.660	1.510	1.490	1.510	1.470	1.480	1.480	1.460	1.470	1.490	1.470
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	**4.9**	**5.5**	**5.0**	**5.0**	**5.0**	**4.9**	**4.9**	**4.9**	**4.9**	**4.9**	**5.0**	**4.9**

Reactor Coolant System Leakage	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum leakage	1.490	1.710	1.520	1.580	1.540	1.210	1.590	1.530	1.510	1.500	1.530	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	**5.0**	**5.7**	**5.1**	**5.3**	**5.1**	**4.0**	**5.3**	**5.1**	**5.0**	**5.0**	**5.1**	**5.1**

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Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful opportunities	74.0	34.0	43.0	94.0	6.0	36.0	58.0	85.0
Total opportunities	75.0	34.0	45.0	95.0	6.0	36.0	60.0	90.0
Indicator value	**98.3%**	**98.4%**	**98.1%**	**98.9%**	**98.9%**	**98.9%**	**98.5%**	**97.5%**

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Licensee Comments:
4Q/15: During the November 2015 Emergency Preparedness Graded Exercise NRC Inspection, the NRC identified an error in the PI Data. Emergency Preparedness(EP) failed to count a classification and notification. EP reported 12/12 Drill and Exercise Performance (DEP) opportunities and the actual count is 14/14. Additionally, when Operations Training submitted their October LOR paper work, it included documentation of two "as founds" from September 2015 that were not previously reported. This brought the total DEP opportunities for September 2015 to 18/18. There is no color change associated with this update.

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	91.0	93.0	91.0	98.0	97.0	101.0	97.0	82.0
Total Key personnel	91.0	93.0	91.0	98.0	97.0	101.0	97.0	82.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

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Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	726	881	718	932	828	831	727	832
Total sirens-tests	728	902	728	936	832	832	728	832
Indicator value	**99.4%**	**98.7%**	**98.5%**	**98.9%**	**98.9%**	**99.4%**	**99.7%**	**99.8%**

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Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
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**

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Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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Licensee Comments: none

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.

Current data as of: October 31, 2017

Page Last Reviewed/Updated Monday, November 06, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

Browns Ferry 2 – Quarterly Performance Indicators

4Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	1354.8	2184.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.9**

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Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	1354.8	2184.0	2208.0	2209.0
Indicator value	**0.8**	**0.8**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**

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Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
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**

TOP

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Safety System Functional Failures	0	0	2	0	0	2	0	1
Indicator value	**3**	**3**	**4**	**2**	**2**	**4**	**2**	**3**

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Licensee Comments:
2Q/17: LER 50-260/2017-001-00 - High Pressure Coolant Injection Safety System Functional Failure Due to a Blown Fuse LER 50-259/2017-003-00 - Unanalyzed Condition for Tornado Missiles Striking the Emergency Diesel Generator Fuel Oil Vent Lines
3Q/16: LER 50-260/2016-001-00: High Pressure Coolant Injection Safety System Functional Failure due to a Blown Fuse and a Failed Relay; LER 50-260/2016-002-00: High Pressure Coolant Injection Safety System Functional Failure Due To Stuck Contactor

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	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-2.22E-08	-2.38E-08	-2.38E-08	-2.38E-08	-2.37E-08	-2.30E-08	-2.30E-08	-2.30E-08
URI (ΔCDF)	-2.85E-07	-3.04E-07	-2.69E-07	-2.69E-07	-2.69E-07	-2.69E-07	-2.69E-07	-2.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-3.30E-07**	**-2.90E-07**	**-2.90E-07**	**-2.90E-07**	**-2.90E-07**	**-2.90E-07**	**-2.90E-07**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
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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	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	1.04E-07	8.49E-08	8.44E-08	1.08E-08	1.71E-08	1.69E-08	1.56E-08	1.20E-07
URI (ΔCDF)	-2.21E-07	-1.70E-07	-1.04E-07	-1.04E-07	-1.04E-07	-1.04E-07	-1.04E-07	-1.04E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-07**	**-8.50E-08**	**-2.00E-08**	**-9.40E-08**	**-8.70E-08**	**-8.80E-08**	**-8.90E-08**	**1.60E-08**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
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1Q/16: Third and Fourth Quarter 2015 data was updated to reflect ICES# 318401 change. This changed ICES #318401 from a failure to a non-failure. This change does not affect the color of the indicator.

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-3.61E-08	-2.30E-08	-2.30E-08	-2.34E-08	-2.34E-08	-2.34E-08	-2.34E-08	1.68E-08
URI (ΔCDF)	-1.87E-07	-1.09E-07	-6.87E-08	-6.87E-08	-6.87E-08	-6.87E-08	-6.87E-08	-6.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.20E-07**	**-1.30E-07**	**-9.20E-08**	**-9.20E-08**	**-9.20E-08**	**-9.20E-08**	**-9.20E-08**	**-5.20E-08**

TOP

Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
3Q/16: Changed PRA Parameter(s). The MSPI Basis documents for all three units were revised to incorporate PRA changes. The PRA was updated to show the Failure to Run and Failure to Start basic event importance in each of the tables. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 as described in NEI 99-02 F2.3.3, was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised.
2Q/16: Unit 2: The CAFTA PRA Model Revision 7 was approved on 03/29/2016 with a corresponding MSPI Basis Document Revision 16 approved on 3/31/2016. The PRA model revision was a periodic update to the model which included a data update, HRA update and incorporating recent plant modifications. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

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	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	3.93E-08	4.35E-09	2.36E-10	-4.11E-09	-3.89E-09	-4.10E-09	-2.00E-09	7.27E-10
URI (ΔCDF)	-7.60E-08	-2.86E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.70E-08**	**-2.40E-08**	**-2.80E-08**	**-3.20E-08**	**-3.20E-08**	**-3.20E-08**	**-3.00E-08**	**-2.80E-08**

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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	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	6.41E-08	3.20E-08	1.06E-08	3.39E-10	6.37E-10	6.37E-10	6.04E-10	3.96E-09
URI (ΔCDF)	-3.73E-08	-1.95E-08	-1.92E-08	-1.92E-08	-1.92E-08	-1.92E-08	-6.90E-09	-6.90E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.70E-08**	**1.20E-08**	**-8.70E-09**	**-1.90E-08**	**-1.90E-08**	**-1.90E-08**	**-6.30E-09**	**-2.90E-09**

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Licensee Comments:
4Q/16: Changed PRA Parameter(s). NDN-000-999-2010-0003 Revision 12 was updated to show the Failure to Run and Failure to Start basic event importances in each of the tables per CR 1110732-001. The Unit 2 MSPI Basis Document Revision 17 was approved on 9/30/2016 to reflect that change. This change allows the use of Option 2 to determine the FV/UR ratio as described in NEI 99-02, Appendix F 2.3.3. Previously, Option 1 was used with other ratio options shown with a strikethrough. The PRA UnR tables for EDG, HPCI, RCIC, RHR, and RHRSW were revised to reflect the change. Additionally, this revision incorporates the changes to the EECW System Description as required by CR 1202022.
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Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.000021	0.000029	0.000031	0.000022	0.000025	0.000025	0.000026	0.000056	0.000043	0.000062	0.000025	0.000026
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	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum activity	0.000039	0.000021	N/A	0.000035	0.000022	0.000033	0.000030	0.000050	0.000029	0.000022	0.000028	0.000024
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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	1.490	1.510	1.470	1.480	1.480	1.460	1.470	1.490	1.470	1.490	1.710	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	**5.0**	**5.0**	**4.9**	**4.9**	**4.9**	**4.9**	**4.9**	**5.0**	**4.9**	**5.0**	**5.7**	**5.1**

Reactor Coolant System Leakage	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum leakage	1.580	1.540	1.210	1.590	1.530	1.510	1.500	1.530	1.520	1.520	1.840	1.470
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	**5.3**	**5.1**	**4.0**	**5.3**	**5.1**	**5.0**	**5.0**	**5.1**	**5.1**	**5.1**	**6.1**	**4.9**

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Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful opportunities	34.0	43.0	94.0	6.0	36.0	58.0	85.0	26.0
Total opportunities	34.0	45.0	95.0	6.0	36.0	60.0	90.0	26.0
Indicator value	**98.4%**	**98.1%**	**98.9%**	**98.9%**	**98.9%**	**98.5%**	**97.5%**	**97.4%**

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Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	93.0	91.0	98.0	97.0	101.0	97.0	82.0	85.0
Total Key personnel	93.0	91.0	98.0	97.0	101.0	97.0	82.0	85.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

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Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful siren-tests	881	718	932	828	831	727	832	832
Total sirens-tests	902	728	936	832	832	728	832	832
Indicator value	**98.7%**	**98.5%**	**98.9%**	**98.9%**	**99.4%**	**99.7%**	**99.8%**	**99.9%**

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Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
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**

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Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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Licensee Comments: none

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.

Current data as of: February 1, 2018

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