

ENCLOSURE

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT (BFN)
UNITS 1, 2, AND 3

MONTHLY OPERATING REPORT
SEPTEMBER 1996

(SEE ATTACHED)

OPERATIONAL SUMMARY
SEPTEMBER 1996

BROWNS FERRY 1

Unit 1 remains shutdown on administrative hold to resolve various TVA and NRC concerns. Unit 1 has been on administrative hold since June 1, 1985. As a result, TVA considers that accrual of reporting hours is suspended since the unit has a maximum dependable capacity of zero MWe. Accordingly, TVA does not consider cumulative reporting period hours for the period beginning June 1, 1985, when calculating the operating status variables.

BROWNS FERRY 2

For the month of September, Unit 2 generated 782,040 megawatt hours gross electrical power and operated at a net capacity factor of 99.6 percent. As of September 30, 1996, Unit 2 has operated continuously for 140 days.

BROWNS FERRY 3

For the month of September, Unit 3 generated 512,910 megawatt hours gross electrical power and operated at a net capacity factor of 64.9 percent. During the month Unit 3 shutdown (manual scram) for approximately 5 days for scheduled maintenance. The unit also shut down (manual scram) as a result of the 3A Recirculation pump trip. As of September 30, 1996, Unit 3 has operated continuously for 14 days.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-259
 UNIT: BROWNS FERRY 1
 PREPARED BY: J. W. Davenport
 TELEPHONE: (205) 729-2690

MONTH SEPTEMBER 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	16	<u>0</u>
2	<u>0</u>	17	<u>0</u>
3	<u>0</u>	18	<u>0</u>
4	<u>0</u>	19	<u>0</u>
5	<u>0</u>	20	<u>0</u>
6	<u>0</u>	21	<u>0</u>
7	<u>0</u>	22	<u>0</u>
8	<u>0</u>	23	<u>0</u>
9	<u>0</u>	24	<u>0</u>
10	<u>0</u>	25	<u>0</u>
11	<u>0</u>	26	<u>0</u>
12	<u>0</u>	27	<u>0</u>
13	<u>0</u>	28	<u>0</u>
14	<u>0</u>	29	<u>0</u>
15	<u>0</u>	30	<u>0</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-260
 UNIT: BROWNS FERRY 2
 PREPARED BY: J. W. Davenport
 TELEPHONE: (205) 729-2690

MONTH SEPTEMBER 1996

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1058</u>
2	<u>1061</u>
3	<u>1068</u>
4	<u>1065</u>
5	<u>1066</u>
6	<u>1079</u>
7	<u>1067</u>
8	<u>1049</u>
9	<u>1059</u>
10	<u>1059</u>
11	<u>1061</u>
12	<u>1066</u>
13	<u>1064</u>
14	<u>1070</u>
15	<u>1045</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	<u>995</u>
17	<u>1023</u>
18	<u>1032</u>
19	<u>1076</u>
20	<u>1016</u>
21	<u>1073</u>
22	<u>1073</u>
23	<u>1071</u>
24	<u>1073</u>
25	<u>1074</u>
26	<u>1072</u>
27	<u>1070</u>
28	<u>1068</u>
29	<u>1083</u>
30	<u>1070</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-296
 UNIT: BROWNS FERRY 3
 PREPARED BY: J. W. Davenport
 TELEPHONE: (205) 729-2690

MONTH SEPTEMBER 1996

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1049</u>
2	<u>1066</u>
3	<u>1054</u>
4	<u>10</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>12</u>
10	<u>152</u>
11	<u>816</u>
12	<u>960</u>
13	<u>857</u>
14	<u>998</u>
15	<u>326</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	<u>0</u>
17	<u>203</u>
18	<u>1024</u>
19	<u>980</u>
20	<u>969</u>
21	<u>845</u>
22	<u>1049</u>
23	<u>1074</u>
24	<u>1076</u>
25	<u>1076</u>
26	<u>1075</u>
27	<u>1069</u>
28	<u>1049</u>
29	<u>926</u>
30	<u>1076</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: SEPTEMBER 1996

DOCKET NO: 50-259
UNIT: BROWNS FERRY 1
PREPARED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	License Event Report No.	System Code ⁴	Component Code ⁴	Cause and Corrective Action to Prevent Recurrence
1	06/01/85	S	720	F	4				Administrative hold to resolve various TVA and NRC concerns.

¹F-Forced
S-Scheduled

²A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training and License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

³Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation of Existing Outage
5-Reduction
9-Other

⁴Instructions for Preparation of Licensee
Event Reports (NUREG-1022)

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: SEPTEMBER 1996

DOCKET NO: 50-260
UNIT: BROWNS FERRY 2
PREPARED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	License Event Report No.	System Code ⁴	Component Code ⁴	Cause and Corrective Action to Prevent Recurrence
N/A									

¹F-Forced
S-Scheduled

²A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training and License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

³Method:
1-Manual
2-Manual Scram
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4-Continuation of Existing Outage
5-Reduction
9-Other

⁴Instructions for Preparation of Licensee
Event Reports (NUREG-1022)

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: SEPTEMBER 1996

DOCKET NO: 50-296
UNIT: BROWNS FERRY 3
PREPARED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	License Event Report No.	System Code ⁴	Component Code ⁴	Cause and Corrective Action to Prevent Recurrence
7	09/04/96	S	139.4	B	2	N/A	N/A	N/A	Unit 3 shutdown for scheduled maintenance and repairs.
8	09/15/96	F	44.2	A	2	296/96005	AD	MG	Unit 3 shutdown by manual scram following the 3A Recirculation Pump trip.

¹F-Forced
S-Scheduled

²A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training and License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

³Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation of Existing Outage
5-Reduction
9-Other

⁴Instructions for Preparation of Licensee Event Reports (NUREG-1022)

OPERATING DATA REPORT

DOCKET: 50-259
UNIT: BROWNS FERRY 1
PREPARED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

OPERATING STATUS

1. Unit Name: **BROWNS FERRY UNIT 1**
2. Reporting Period: **SEPTEMBER 1996**
3. Licensed Thermal Power (MWt): **3293**
4. Nameplate Rating (Gross MWe): **1152**
5. Design Electrical Rating (Net MWe): **1065**
6. Maximum Dependable Capacity (Gross MWe): **0**
7. Maximum Dependable Capacity (Net MWe): **0**
8. If Changes Occur in Capacity Ratings (Items Number
3 Through 7) Since Last Report, Give Reason: **N/A**
9. Power Level To Which Restricted, If Any (Net MWe): **0**
10. Reason For Restrictions, If Any: **Administrative Hold**

THIS MONTH YEAR TO DATE CUMULATIVE*

11. Hours in Reporting Period	0	0	95743
12. Hours Reactor Was Critical	0	0	59521
13. Reactor Reserve Shutdown Hours	0	0	6997
14. Hours Generator On Line	0	0	58267
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Generation (MWh)	0	0	168066787
17. Gross Electrical Generation (MWh)	0	0	55398130
18. Net Electrical Generation (MWh)	0	0	53796427
19. Unit Service Factor	0	0	60.9
20. Unit Availability Factor	0	0	60.9
21. Unit Capacity Factor (MDC Net)	0	0	52.8
22. Unit Capacity Factor (DER net)	0	0	52.8
23. Unit Forced Outage Rate	0	0	25.6

24. Shutdowns Scheduled Over Next 6 Months
(Type, Date, and Duration of Each): **N/A**

25. If Shut Down At End Of Reporting Period,
Estimated Date of Startup: **To Be Determined**

* Excludes hours under administrative hold
(June 1, 1985 to present)

OPERATING DATA REPORT

DOCKET: 50-260
 UNIT: BROWNS FERRY 2
 PREPARED BY: J. W. Davenport
 TELEPHONE: (205) 729-2690

OPERATING STATUS

1. Unit Name: **BROWNS FERRY UNIT 2**
2. Reporting Period: **SEPTEMBER 1996**
3. Licensed Thermal Power (MWt): **3293**
4. Nameplate Rating (Gross MWe): **1152**
5. Design Electrical Rating (Net MWe): **1065**
6. Maximum Dependable Capacity (Gross MWe): **1098.4**
7. Maximum Dependable Capacity (Net MWe): **1065**
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reason: **N/A**
9. Power Level To Which Restricted, If Any (Net MWe): **N/A**
10. Reason For Restrictions, If Any: **N/A**

THIS MONTH YEAR TO DATE CUMULATIVE*

11. Hours in Reporting Period	720.0	6575.0	137406
12. Hours Reactor Was Critical	720.0	5771.0	96550
13. Reactor Reserve Shutdown Hours	0.0	0.0	14200
14. Hours Generator On Line	720.0	5707.0	94195
15. Unit Reserve Shutdown Hours	0.0	0.0	0
16. Gross Thermal Generation (MWh)	2354376.0	18082584	277422916
17. Gross Electrical Generation (MWh)	782040.0	5977410	92142728
18. Net Electrical Generation (MWh)	763354.0	5822696	89609567
19. Unit Service Factor	100.0	86.8	68.6
20. Unit Availability Factor	100.0	86.8	68.5
21. Unit Capacity Factor (MDC Net)	99.6	83.2	61.2
22. Unit Capacity Factor (DER net)	99.6	83.2	61.2
23. Unit Forced Outage Rate	00.0	1.7	15.2

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): **N/A**

25. If Shut Down At End Of Reporting Period, Estimated Date of Startup: **N/A**

* Excludes hours under administrative hold (June 1, 1985 to May 24, 1991)

OPERATING DATA REPORT

DOCKET: 50-296
UNIT: BROWNS FERRY 3
PREPARED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

OPERATING STATUS

1. Unit Name **BROWNS FERRY UNIT 3**
2. Reporting Period: **SEPTEMBER 1996**
3. Licensed Thermal Power (MWt): **3293**
4. Nameplate Rating (Gross MWe): **1152**
5. Design Electrical Rating (Net MWe): **1065**
6. Maximum Dependable Capacity (Gross MWe): **1098.4**
7. Maximum Dependable Capacity (Net MWe): **1065**
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reason: **N/A**
9. Power Level To Which Restricted, If Any (Net MWe): **N/A**
10. Reason For Restrictions, If Any: **N/A**

	THIS MONTH	YEAR TO DATE	CUMULATIVE*
11. Hours in Reporting Period	720.0	6575.0	80628
12. Hours Reactor Was Critical	554.2	6250.2	51991
13. Reactor Reserve Shutdown Hours	0.0	0	5150
14. Hours Generator On Line	536.4	6205.0	50674
15. Unit Reserve Shutdown Hours	0.0	0	0
16. Gross Thermal Generation (Mwh)	1552920.0	19808568	154078849
17. Gross Electrical Generation (MWh)	512910.0	6621060	51619390
18. Net Electrical Generation (MWh)	497823.0	6456151	49334778
19. Unit Service Factor	74.5	94.4	62.8
20. Unit Availability Factor	74.5	94.4	62.8
21. Unit Capacity Factor (MDC Net)	64.9	92.2	57.5
22. Unit Capacity Factor (DER net)	64.9	92.2	57.5
23. Unit Forced Outage Rate	7.6	3.6	19.6

24. Shutdowns Scheduled Over Next 6 Months
(Type, Date, and Duration of Each): **Refueling Outage (U3C7), 2/21/97,
21.5 Days**

25. If Shut Down At End Of Reporting Period,
Estimated Date of Startup: **N/A**

* Excludes hours under administrative hold
(June 1, 1985 to November 19, 1995)