



Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609-2000

October 12, 2000

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Gentlemen:

In the Matter of )  
Tennessee Valley Authority )

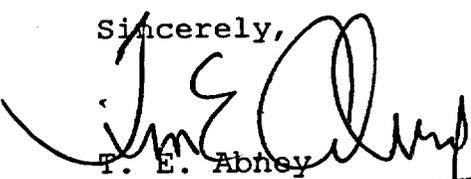
Docket Nos. 50-259  
50-260  
50-296

**BROWNS FERRY NUCLEAR PLANT (BFN) - SEPTEMBER 2000 MONTHLY  
OPERATING REPORT**

The enclosure provides the September 2000 Monthly Operating Report as required by BFN Technical Specifications Section 5.6.4.

If you have any questions concerning this report, please call me at (256) 729-2636.

Sincerely,

  
P. E. Abney  
Manager of Licensing  
and Industry Affairs

Enclosure  
cc: See page 2

IE24

U.S. Nuclear Regulatory Commission

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October 12, 2000

Enclosure

cc (Enclosure):

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**ENCLOSURE**

**TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT (BFN)**

**MONTHLY OPERATING REPORT**

**SEPTEMBER 2000**

**UNIT 1**

**DOCKET NUMBER 50-259**

**LICENSE NUMBER DPR-33**

**UNIT 2**

**DOCKET NUMBER 50-260**

**LICENSE NUMBER DPR-52**

**UNIT 3**

**DOCKET NUMBER 50-296**

**LICENSE NUMBER DPR-68**

**OPERATIONAL SUMMARY  
SEPTEMBER 2000**

**BROWNS FERRY NUCLEAR PLANT UNIT 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 (MDC) of zero MWe. Accordingly, TVA does not report cumulative hours for the period beginning June 1, 1985, when calculating the operating status variables.

**BROWNS FERRY NUCLEAR PLANT UNIT 2**

For the month of September, Unit 2 generated 814,400 megawatt hours gross electrical power and operated at a net capacity factor of 99.0 percent MDC. As of September 30, 2000, Unit 2 has operated continuously for 90 days.

**BROWNS FERRY NUCLEAR PLANT UNIT 3**

For the month of September, Unit 3 generated 794,230 megawatt hours gross electrical power with a net capacity factor of 96.4 percent MDC. On September 5, 2000, at 1700 hours, Unit 3 was reduced to 57 percent power for maintenance activities on the 3A recirculation motor-generator set due to speed oscillations. The repair and associated activities continued until September 7, 2000, at 2011 hours, when Unit 3 was returned to 100 percent power. As of September 30, 2000, Unit 3 has operated continuously for 128 days.

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-259 UNIT NO. ONE DATE: October 6, 2000

COMPLETED BY: J. E. Wallace TELEPHONE 256-729-7874

MONTH SEPTEMBER 2000

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

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-260 UNIT NO. TWO DATE: October 6, 2000

COMPLETED BY: J. E. Wallace TELEPHONE 256-729-7874

MONTH SEPTEMBER 2000

AVERAGE DAILY POWER LEVEL		AVERAGE DAILY POWER LEVEL	
DAY	(MWe-Net)	DAY	(MWe-Net)
1.	1106	17.	1118
2.	1105	18.	1118
3.	1104	19.	1118
4.	971	20.	1118
5.	1016	21.	1122
6.	1110	22.	1115
7.	1108	23.	1113
8.	1115	24.	1111
9.	1114	25.	1121
10.	1110	26.	1113
11.	1114	27.	1126
12.	1112	28.	1130
13.	1114	29.	1117
14.	1112	30.	1116
15.	1112		
16.	1115		

**AVERAGE DAILY UNIT POWER LEVEL**

DOCKET NO. 50-296 UNIT NO. THREE DATE: October 6, 2000

COMPLETED BY: J. E. Wallace TELEPHONE 256-729-7874

MONTH SEPTEMBER 2000

AVERAGE DAILY POWER LEVEL		AVERAGE DAILY POWER LEVEL	
DAY	(MWe-Net)	DAY	(MWe-Net)
1.	1103	17.	1110
2.	1101	18.	1116
3.	1100	19.	1113
4.	1099	20.	1115
5.	942	21.	1111
6.	648	22.	1115
7.	792	23.	1109
8.	1086	24.	1112
9.	1095	25.	1112
10.	1115	26.	1116
11.	1110	27.	1121
12.	1083	28.	1125
13.	1109	29.	1117
14.	1109	30.	1119
15.	1111		
16.	1112		

## OPERATING DATA REPORT

Docket No. 50-259  
 Date: October 6, 2000  
 Completed By: J. E. Wallace  
 Telephone: (256) 729-7874

1. Unit Name: **BFN Unit 1**  
 2. Reporting Period: **SEPTEMBER 2000**  
 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 Rating (Item Numbers 3 Through 7) Since Last Report, Give Reasons: **N/A**

9. Power Level To Which Restricted, If any (net MWe): **0**

10. Reasons for Restrictions, If any: **Administrative Hold**

		<u><b>This Month</b></u>	<u><b>Yr-To-Date</b></u>	<u><b>Cumulative*</b></u>
11.	Hours in Reporting Period	<u>0</u>	<u>0</u>	<u>95743</u>
12.	Number of Hours Reactor was Critical	<u>0</u>	<u>0</u>	<u>59521</u>
13.	Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>6997</u>
14.	Hours Generator On-Line	<u>0</u>	<u>0</u>	<u>58267</u>
15.	Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16.	Gross Thermal Energy Generated (MWh)	<u>0</u>	<u>0</u>	<u>168066787</u>
17.	Gross Electric Energy Generated (MWh)	<u>0</u>	<u>0</u>	<u>55398130</u>
18.	Net Electrical Energy Generated (MWh)	<u>0</u>	<u>0</u>	<u>53796427</u>
19.	Unit Service Factor	<u>0</u>	<u>0</u>	<u>60.9</u>
20.	Unit Availability Factor	<u>0</u>	<u>0</u>	<u>60.9</u>
21.	Unit Capacity Factor (Using MDC Net)	<u>0</u>	<u>0</u>	<u>52.8</u>
22.	Unit Capacity Factor (Using DER Net)	<u>0</u>	<u>0</u>	<u>52.8</u>
23.	Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>25.6</u>

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

25. If Shutdown at End of Report Period, Estimate Date of Startup: **To Be Determined**

\* Excludes hours under Administrative Hold  
(June 1, 1985 to present)

## OPERATING DATA REPORT

Docket No. 50-260  
 Date: October 6, 2000  
 Completed By: J. E. Wallace  
 Telephone: (256) 729-7874

1. Unit Name: **BFN Unit 2**  
 2. Reporting Period: **SEPTEMBER 2000**  
 3. Licensed Thermal Power (MWt): **3458**  
 4. Nameplate Rating (Gross Mwe): **1190**  
 5. Design Electrical Rating (Net Mwe): **1120**  
 6. Maximum Dependable Capacity (Gross MWe): **1155**  
 7. Maximum Dependable Capacity (Net MWe): **1118**

8. If changes Occur in Capacity Rating (Item Numbers 3 Through 7) Since Last Report, Give Reasons: **N/A**

9. Power Level To Which Restricted, If any (net MWe): **N/A**

10. Reasons for Restrictions, If any: **N/A**

	<u><b>This Month</b></u>	<u><b>Yr-To-Date</b></u>	<u><b>Cumulative*</b></u>
11. Hours in Reporting Period	720	6575	172470
12. Number of Hours Reactor was Critical	720	6524	130101
13. Reactor Reserve Shutdown Hours	0	56.4	44823
14. Hours Generator On-Line	720	6519	127647
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWh)	2472319	22399162	387497330
17. Gross Electric Energy Generated (MWh)	814400	7421450	128738638
18. Net Electrical Energy Generated (MWh)	796626	7259300	125352746
19. Unit Service Factor	100.0	99.1	74.0
20. Unit Availability Factor	100.0	99.1	74.0
21. Unit Capacity Factor (Using MDC Net)	99.0	98.8	68.0
22. Unit Capacity Factor (Using DER Net)	98.8	98.6	67.9
23. Unit Forced Outage Rate	0.0	0.86	11.9

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): **In accordance with Generic Letter 97-02, this information is no longer required by NRC.**

25. If Shutdown at End of Report Period, Estimate Date of Startup: **N/A**

**\* Excludes hours under Administrative Hold (June 1, 1985 to May 24, 1991)**

# OPERATING DATA REPORT

Docket No. 50-296  
 Date: October 6, 2000  
 Completed By: J. E. Wallace  
 Telephone: (256) 729-7874

- 1. Unit Name: BFN Unit 3
- 2. Reporting Period: SEPTEMBER 2000
- 3. Licensed Thermal Power (MWt): 3458
- 4. Nameplate Rating (Gross Mwe): 1190
- 5. Design Electrical Rating (Net Mwe): 1120
- 6. Maximum Dependable Capacity (Gross MWe): 1155
- 7. Maximum Dependable Capacity (Net MWe): 1118

8. If changes occur in Capacity Rating (Item Numbers 3 Through 7) Since Last Report, Give Reasons: N/A

9. Power Level To Which Restricted, If any (net MWe): N/A

10. Reasons for Restrictions, If any: N/A

		<u>This Month</u>	<u>Yr-To-Date</u>	<u>Cumulative*</u>
11.	Hours in Reporting Period	<u>720</u>	<u>6575</u>	<u>115692</u>
12.	Number of Hours Reactor was Critical	<u>720</u>	<u>6120</u>	<u>85861</u>
13.	Reactor Reserve Shutdown Hours	<u>0</u>	<u>472</u>	<u>31245</u>
14.	Hours Generator On-Line	<u>720</u>	<u>6102</u>	<u>84447</u>
15.	Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16.	Gross Thermal Energy Generated (MWh)	<u>2421012</u>	<u>20570498</u>	<u>262395959</u>
17.	Gross Electric Energy Generated (MWh)	<u>794230</u>	<u>6767690</u>	<u>87575740</u>
18.	Net Electrical Energy Generated (MWh)	<u>775830</u>	<u>6612183</u>	<u>84434245</u>
19.	Unit Service Factor	<u>100.0</u>	<u>92.8</u>	<u>73.0</u>
20.	Unit Availability Factor	<u>100.0</u>	<u>92.8</u>	<u>73.0</u>
21.	Unit Capacity Factor (Using MDC Net)	<u>96.4</u>	<u>90.0</u>	<u>68.5</u>
22.	Unit Capacity Factor (Using DER Net)	<u>96.2</u>	<u>89.8</u>	<u>68.4</u>
23.	Unit Forced Outage Rate	<u>0.0</u>	<u>0.7</u>	<u>12.8</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): **In accordance with Generic Letter 97-02, this information is no longer required by NRC.**

25. If Shutdown at End of Report Period, Estimate Date of Startup: N/A

\* Excludes hours under Administrative Hold (June 1, 1985 to November 19, 1995)

**UNIT SHUTDOWNS AND POWER REDUCTIONS  
REPORT MONTH: SEPTEMBER 2000**

**DOCKET NO:** 50-259  
**UNIT NAME:** BFN-1  
**DATE:** October 6, 2000  
**COMPLETED BY:** J. E. Wallace  
**TELEPHONE:** (256) 729-7874

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

<sup>1</sup> **F: Forced**  
**S: Scheduled**

<sup>2</sup> **Reason:**  
A-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)

<sup>3</sup> **Method**  
1-Manual  
2-Manual Scram  
3-Automatic Scram  
4-Continuation of Existing Outage  
5-Reduction  
9-Other

<sup>4</sup> **Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) (NUREG - 1022)**

**UNIT SHUTDOWNS AND POWER REDUCTIONS  
REPORT MONTH: SEPTEMBER 2000**

**DOCKET NO:** 50-260  
**UNIT NAME:** BFN-2  
**DATE:** October 6, 2000  
**COMPLETED BY:** J. E. Wallace  
**TELEPHONE:** (256) 729-7874

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

<sup>1</sup> **F: Forced  
S: Scheduled**

<sup>2</sup> **Reason:**  
A-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)

<sup>3</sup> **Method**  
1-Manual  
2-Manual Scram  
3-Automatic Scram  
4-Continuation of Existing Outage  
5-Reduction  
9-Other

<sup>4</sup> **Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) (NUREG - 1022)**

**UNIT SHUTDOWNS AND POWER REDUCTIONS  
REPORT MONTH: SEPTEMBER 2000**

**DOCKET NO:** 50-296  
**UNIT NAME:** BFN-3  
**DATE:** October 6, 2000  
**COMPLETED BY:** J. E. Wallace  
**TELEPHONE:** (256) 729-7874

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report No.	System Code <sup>4</sup>	Component Code <sup>4</sup>	Cause and Corrective Action to Prevent Recurrence
5	09/05/00	F	0	B	N/A	N/A	N/A	N/A	On September 5, 2000, at 1700 hours, Unit 3 was reduced to 57 percent power for maintenance activities on the 3A recirculation motor-generator set due to speed oscillations. The repair and associated activities continued until September 7, 2000, at 2011 hours, when Unit 3 was returned to 100 percent power.

<sup>1</sup> F: Forced  
S: Scheduled

<sup>2</sup> Reason:  
A-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)

<sup>3</sup> Method  
1-Manual  
2-Manual Scram  
3-Automatic Scram  
4-Continuation of Existing Outage  
5-Reduction  
9-Other

<sup>4</sup> Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) (NUREG - 1022)