



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

June 13, 1997

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

Gentlemen:

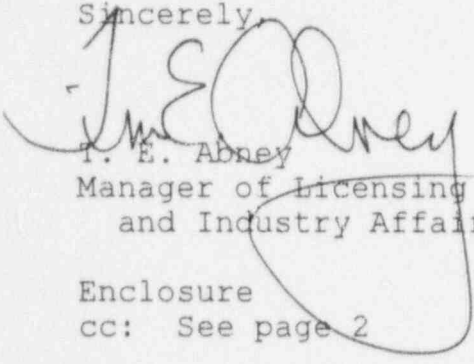
In the Matter of	)	Docket Nos.	50-259
Tennessee Valley Authority	)		50-260
			50-296

**BROWNS FERRY NUCLEAR PLANT (BFN) - MAY 1997 MONTHLY OPERATING REPORT**

The enclosure provides the May 1997 Monthly Operating Report as required by BFN Technical Specifications Section 6.9.1.3.

If you have any questions concerning this matter, please call me at (205) 729-2636.

Sincerely,

  
T. E. Abney  
Manager of Licensing  
and Industry Affairs

Enclosure  
cc: See page 2

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U.S. Nuclear Regulatory Commission  
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June 12, 1997

Enclosure

cc (Enclosure):

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ENCLOSURE

TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT (BFN)

MONTHLY OPERATING REPORT

MAY 1997

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  
MAY 1997

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 of zero MWe. Accordingly, TVA does not consider reporting 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 May, Unit 2 generated 812,420 megawatt hours gross electrical power and operated at a net capacity factor of 100.1 percent. As of May 31, 1997, Unit 2 has operated continuously for 34 days.

BROWNS FERRY NUCLEAR PLANT UNIT 3

For the month of May, Unit 3 generated 810,650 megawatt hours gross electrical power with a net capacity factor of 99.9 percent. As of May 31, 1997, Unit 3 has operated continuously for 79 days.

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-259 UNIT NO. ONE DATE: June 13, 1997

COMPLETED BY: J. W. Davenport TELEPHONE 205-729-2690

MONTH May 1997

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	31.	0
16.	0		

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-260 UNIT NO. TWO DATE: June 13, 1997

COMPLETED BY: J. W. Davenport TELEPHONE 205-729-2690

MONTH May 1997

AVERAGE DAILY POWER LEVEL		AVERAGE DAILY POWER LEVEL	
DAY	(MWe-Net)	DAY	(MWe-Net)
1.	1082	17.	1031
2.	1076	18.	1080
3.	1079	19.	1079
4.	1077	20.	1069
5.	1077	21.	1068
6.	1077	22.	1038
7.	1075	23.	1026
8.	1083	24.	1074
9.	1080	25.	1066
10.	1084	26.	1068
11.	1060	27.	1065
12.	1070	28.	1071
13.	1077	29.	1070
14.	1073	30.	1075
15.	1079	31.	941
16.	1078		

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-296 UNIT NO. THREE DATE: June 13, 1997

COMPLETED BY: J. W. Davenport TELEPHONE 205-729-2690

MONTH May 1997

AVERAGE DAILY POWER LEVEL		AVERAGE DAILY POWER LEVEL	
DAY	(MWe-Net)	DAY	(MWe-Net)
1.	1087	17.	1076
2.	1040	18.	1084
3.	750	19.	1080
4.	959	20.	1079
5.	1088	21.	1076
6.	1065	22.	1076
7.	1069	23.	1080
8.	1080	24.	1084
9.	1083	25.	1051
10.	1084	26.	1078
11.	1078	27.	1075
12.	1082	28.	1079
13.	1083	29.	1079
14.	1084	30.	1081
15.	1082	31.	1087
16.	1087		

## OPERATING DATA REPORT

Docket No. 50-259  
 Date: June 13, 1997  
 Completed By: J. W. Davenport  
 Telephone: 205-729-2690

1. Unit Name: **BFN Unit 1**
2. Reporting Period: **May 1997**
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>This Month</u>	<u>Yr-To-Date</u>	<u>Cumulative*</u>
11. Hours in Reporting Period	0	0	95743
12. Number of 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 Energy Generated (MWh)	0	0	168066787
17. Gross Electric Energy Generated (MWh)	0	0	55398130
18. Net Electrical Energy Generated (MWh)	0	0	53796427
19. Unit Service Factor	0	0	60.9
20. Unit Availability Factor	0	0	60.9
21. Unit Capacity Factor (Using MDC Net)	0	0	52.8
22. Unit Capacity Factor (Using 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 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: June 13, 1997  
 Completed By: J. W. Davenport  
 Telephone: 205-729-2690

1. Unit Name: **BFN Unit 2**
2. Reporting Period: **May 1997**
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 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	<b>744.0</b>	<b>3623.0</b>	<b>143238</b>
12. Number of Hours Reactor was Critical	<b>744.0</b>	<b>3565.0</b>	<b>102214</b>
13. Reactor Reserve Shutdown Hours	<b>0.0</b>	<b>0.0</b>	<b>14200</b>
14. Hours Generator On-Line	<b>744.0</b>	<b>3560.0</b>	<b>99842</b>
15. Unit Reserve Shutdown Hours	<b>0.0</b>	<b>0.0</b>	<b>0</b>
16. Gross Thermal Energy Generated (MWh)	<b>2431248.0</b>	<b>11269440</b>	<b>295456540</b>
17. Gross Electric Energy Generated (MWh)	<b>812420.0</b>	<b>3780440</b>	<b>98201808</b>
18. Net Electrical Energy Generated (MWh)	<b>793141.0</b>	<b>3690857</b>	<b>95524022</b>
19. Unit Service Factor	<b>100.0</b>	<b>98.3</b>	<b>69.7</b>
20. Unit Availability Factor	<b>100.0</b>	<b>98.3</b>	<b>69.7</b>
21. Unit Capacity Factor (Using MDC Net)	<b>100.1</b>	<b>95.7</b>	<b>62.6</b>
22. Unit Capacity Factor (Using DER Net)	<b>100.1</b>	<b>95.7</b>	<b>62.6</b>
23. Unit Forced Outage Rate	<b>0.0</b>	<b>1.7</b>	<b>14.6</b>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): **Unit 2 Cycle 9 Refueling Outage, Scheduled to begin 9/26/97, 23 days duration**

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: June 13, 1997  
 Completed By: J. W. Davenport  
 Telephone: 205-729-2690

1. Unit Name: BFN Unit 3
2. Reporting Period: May 1997
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 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	744.0	3623.0	86460
12. Number of Hours Reactor was Critical	744.0	3183.0	57937
13. Reactor Reserve Shutdown Hours	0.0	0.0	5150
14. Hours Generator On-Line	744.0	3165.2	56584
15. Unit Reserve Shutdown Hours	0.0	0.0	0
16. Gross Thermal Energy Generated (MWh)	2411040.0	9487920	170718577
17. Gross Electric Energy Generated (MWh)	810650.0	3158510	57182650
18. Net Electrical Energy Generated (MWh)	791189.0	3075932	54758064
19. Unit Service Factor	100.0	87.4	65.4
20. Unit Availability Factor	100.0	87.4	65.4
21. Unit Capacity Factor (Using MDC Net)	99.9	79.7	59.5
22. Unit Capacity Factor (Using DER Net)	99.9	79.7	59.5
23. Unit Forced Outage Rate	0.0	0.0	17.9

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: N/A

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

**UNIT SHUTDOWNS AND POWER REDUCTIONS**  
**REPORT MONTH: MAY 1997**

**DOCKET NO:** 50-259  
**UNIT NAME:** BFN-1  
**DATE:** June 13, 1997  
**COMPLETED BY:** J. W. Davenport  
**TELEPHONE:** (205) 729-2690

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>5</sup>	Cause and Corrective Action to Prevent Recurrence
1	06/01/85	S	744	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> Exhibit G - Instructions for (NUREG  
Preparation of Data Entry sheets  
for Licensee Event Report (LER)  
File - NUREG - 1022

<sup>5</sup> Exhibit I-Same Source

**UNIT SHUTDOWNS AND POWER REDUCTIONS  
REPORT MONTH: MAY 1997**

**DOCKET NO:** 50-260  
**UNIT NAME:** BFN-2  
**DATE:** June 13, 1997  
**COMPLETED BY:** J. W. Davenport  
**TELEPHONE:** (205) 729-2690

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>5</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> Exhibit G - Instructions for (NUREG  
Preparation of Data Entry sheets  
for Licensee Event Report (LER)  
File - NUREG - 1022

<sup>5</sup> Exhibit I-Same Source

**UNIT SHUTDOWNS AND POWER REDUCTIONS  
REPORT MONTH: MAY 1997**

**DOCKET NO:** 50-296  
**UNIT NAME:** BFN-3  
**DATE:** June 13, 1997  
**COMPLETED BY:** J. W. Davenport  
**TELEPHONE:** (205) 729-2690

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>5</sup>	Cause and Corrective Action to Prevent Recurrence
3	05/02/97	S	15.25	B	5	N/A	N/A	N/A	Power reduction for scheduled maintenance and testing.

<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> Exhibit G - Instructions for (NUREG  
Preparation of Data Entry sheets  
for Licensee Event Report (LER)  
File - NUREG - 1022

<sup>5</sup> Exhibit I-Same Source