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

November 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) - OCTOBER 1997 MONTHLY OPERATING REPORT

The enclosure provides the October 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

IE24

Enclosure
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ENCLOSURE

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT (BFN)

MONTHLY OPERATING REPORT

OCTOBER 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
OCTOBER 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 October, Unit 2 generated 231,400 megawatt hours gross electrical power and operated at a net capacity factor of 28.2 percent. Unit 2 shutdown at 0900 hours on September 27, 1997, for the Cycle 9 refueling outage. The unit resumed operation at 0218 hours on October 19, 1997. The duration of the refueling outage was 21 days and 15.3 hours. After resuming operation, the unit experienced an automatic scram on October 28, 1997, due to a reactor low water level signal caused by a pressure perturbation in the Electro-Hydraulic Control (EHC) System. The unit resumed operation at 1002 hours on October 30, 1997. As of October 31, 1997, Unit 2 has operated continuously for 2 days.

BROWNS FERRY NUCLEAR PLANT UNIT 3

For the month of October, Unit 3 generated 799,790 megawatt hours gross electrical power with a net capacity factor of 98.4 percent. As of October 31, 1997, Unit 3 has operated continuously for 232 days.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-259 UNIT NO. ONE DATE: Nov. 15, 1997

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

MONTH October 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (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: Nov. 15, 1997

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

MONTH October 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	0	17.	0
2.	0	18.	0
3.	0	19.	251
4.	0	20.	824
5.	0	21.	957
6.	0	22.	1049
7.	0	23.	1049
8.	0	24.	1086
9.	0	25.	1101
10.	0	26.	1111
11.	0	27.	780
12	0	28.	0
13.	0	29.	0
14.	0	30.	129
15.	0	31	1076
16.	0		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-296 UNIT NO. THREE DATE: Nov. 15, 1997

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

MONTH October 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	1069	17.	1079
2.	1076	18.	1071
3.	1077	19.	1082
4.	558	20.	1106
5.	813	21.	1096
6.	1054	22.	1096
7.	1065	23.	1097
8.	1094	24.	1092
9.	1090	25.	1096
10.	1090	26.	095
11.	942	27.	1097
12	940	28.	1094
13.	1069	29.	1097
14.	1092	30.	1091
15.	1032	31.	1101
16.	1082		

OPERATING DATA REPORT

Docket No. 50-259
Date: November 15, 1997
Completed By: J. W. Davenport
Telephone: 205-729-2690

1. Unit Name: **BFN Unit 1**
2. Reporting Period: **October 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**

		This Month	Yr-To-Date	Cumulative*
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	158066787
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: November 15, 1997
Completed By: J. W. Davenport
Telephone: 205-729-2690

1. Unit Name: **BFN Unit 2**
2. Reporting Period: **October 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**

		This Month	Yr-To-Date	Cumulative*
11.	Hours in Reporting Period	745.0	7296.0	146911
12.	Number of Hours Reactor was Critical	287.0	6693.0	105342
13.	Reactor Reserve Shutdown Hours	0.0	0.0	14200
14.	Hours Generator On-Line	268.0	6666.0	102949
15.	Unit Reserve Shutdown Hours	0.0	0.0	0
16.	Gross Thermal Energy Generated (MWh)	704328.0	21049008	305236108
17.	Gross Electric Energy Generated (MWh)	231400.0	6957850	101379218
18.	Net Electrical Energy Generated (MWh)	223631.0	6786045	98619210
19.	Unit Service Factor	35.9	91.4	70.1
20.	Unit Availability Factor	35.9	91.4	70.1
21.	Unit Capacity Factor (Using MDC Net)	28.2	87.3	63.0
22.	Unit Capacity Factor (Using DER Net)	28.2	87.3	63.0
23.	Unit Forced Outage Rate	13.8	1.6	14.3

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): **The Unit 2 Cycle 9 Refueling Outage Began at 0900 hours on 9/27/97, and completed at 0218 hours on 10/19/97. The duration of the outage was 21 days, and 15.3 hours.**

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: November 15, 1997
Completed By: J. W. Davenport
Telephone: 205-729-2690

1. Unit Name: **BFN Unit 3**
2. Reporting Period: **October 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**

		This Month	Yr-To-Date	Cumulative*
11.	Hours in Reporting Period	745.0	7296.0	90133
12.	Number of Hours Reactor was Critical	745.0	6856.0	61610
13.	Reactor Reserve Shutdown Hours	0.0	0.0	5150
14.	Hours Generator On-Line	745.0	6838.2	60257
15.	Unit Reserve Shutdown Hours	0.0	0.0	0
16.	Gross Thermal Energy Generated (MWh)	2377944.0	21439680	182570337
17.	Gross Electric Energy Generated (MWh)	799790.0	7131200	61155340
18.	Net Electrical Energy Generated (MWh)	780761.0	6952145	58634276
19.	Unit Service Factor	100.0	93.7	66.9
20.	Unit Availability Factor	100.0	93.7	66.9
21.	Unit Capacity Factor (Using MDC Net)	98.4	89.5	61.1
22.	Unit Capacity Factor (Using DER Net)	98.4	89.5	61.1
23.	Unit Forced Outage Rate	0.0	0.2	17.0

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: OCTOBER 1997

DOCKET NO: 50-259
UNIT NAME: BFN-1
DATE: November 15, 1997
COMPLETED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report No.	System Code[4]	Component Code[5]	Cause and Corrective Action to Prevent Recurrence
1	06/01/85	S	745	F	4	N/A	N/A	N/A	Administrative hold to resolve various TVA and NRC concerns.

[1] **F: Forced**
S: Scheduled

[2] **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)

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

[4] **Exhibit G - Instructions for (NUREG Preparation of Data Entry sheets for Licensee Event Report (LER) File - NUREG - 1022**

[5] **Exhibit I-Same Source**

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: OCTOBER 1997

DOCKET NO: 50-260
UNIT NAME: BFN-2
DATE: November 15, 1997
COMPLETED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report No.	System Code[4]	Component Code[5]	Cause and Corrective Action to Prevent Recurrence
4	10/01/97	S	434	C	4	N/A	N/A	N/A	The Unit 2 Cycle 9 refueling outage began at 0900 hours on September 27, 1997 and continued until 0218 hours on October 19, 1997. The duration of the refueling outage was 21 days and 15.3 hours.
5	10/28/97	F	43	A	3	50-260/97007	N/A	N/A	The unit experienced an automatic scram at 1508 hours on October 28, 1997 due to a low reactor water level signal caused by a pressure perturbation in the Electro-Hydraulic Control (EHC) System. The unit resumed operation at 1002 hours on October 30, 1997.

[1] **F: Forced**
S: Scheduled

[2] **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)

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

[4] **Exhibit G - Instructions for (NUREG Preparation of Data Entry sheets for Licensee Event Report (LER) File - NUREG - 1022**

[5] **Exhibit I-Same Source**

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: OCTOBER 1997

DOCKET NO: 50-296
UNIT NAME: BFN-3
DATE: November 15, 1997
COMPLETED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report No.	System Code[4]	Component Code[5]	Cause and Corrective Action to Prevent Recurrence
5	10/04/97	F	0	B	5	N/A	N/A	N/A	Power reduction to perform maintenance on the 3A Recirculation Pump to correct oscillations in flow and motor current.

[1] **F: Forced**
S: Scheduled

[2] **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)

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

[4] **Exhibit G - Instructions for (NUREG Preparation of Data Entry sheets for Licensee Event Report (LER) File - NUREG - 1022**

[5] **Exhibit I-Same Source**