



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

November 15, 1999

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

Gentlemen:

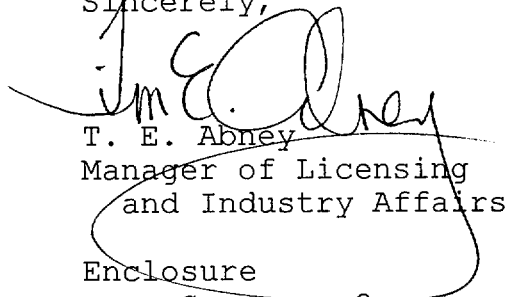
In the Matter of)	Docket Nos.	50-259
Tennessee Valley Authority)		50-260
			50-296

**BROWNS FERRY NUCLEAR PLANT (BFN) - OCTOBER 1999 MONTHLY
OPERATING REPORT**

The enclosure provides the October 1999 Monthly Operating Report as required by BFN Technical Specifications Section 5.6.4.

If you have any questions concerning this matter, please call me at (256) 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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November 15, 1999

Enclosure

cc (Enclosure):

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ENCLOSURE

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT (BFN)

MONTHLY OPERATING REPORT

OCTOBER 1999

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 1999**

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 October, Unit 2 generated 858,840 megawatt hours gross electrical power and operated at a net capacity factor of 100.8 percent MDC. As of October 31, 1999, Unit 2 has operated continuously for 43 days.

BROWNS FERRY NUCLEAR PLANT UNIT 3

For the month of October, Unit 3 generated 801,710 megawatt hours gross electrical power with a net capacity factor of 94.0 percent MDC. As of October 31, 1999, Unit 3 has operated continuously for 381 days.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-259 UNIT NO. ONE DATE: Nov. 4, 1999

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

MONTH OCT. 1999

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: Nov. 4, 1999

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

MONTH OCT. 1999

AVERAGE DAILY POWER LEVEL		AVERAGE DAILY POWER LEVEL	
DAY	(MWe-Net)	DAY	(MWe-Net)
1.	1129	17.	1130
2.	1129	18.	1128
3.	1129	19.	1129
4.	1128	20.	1126
5.	1127	21.	1123
6.	1130	22.	1138
7.	1128	23.	1128
8.	1122	24.	1130
9.	1126	25.	1129
10.	1124	26.	1129
11.	1123	27.	1129
12.	1130	28.	1129
13.	1129	29.	1129
14.	1129	30.	1126
15.	1127	31.	1129
16.	1129		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-296 UNIT NO. THREE DATE: Nov. 4, 1999

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

MONTH OCT. 1999

AVERAGE DAILY POWER LEVEL		AVERAGE DAILY POWER LEVEL	
DAY	(MWe-Net)	DAY	(MWe-Net)
1.	860	17.	1112
2.	755	18.	1101
3.	879	19.	1129
4.	1128	20.	1128
5.	1072	21.	1129
6.	1078	22.	1154
7.	725	23.	1129
8.	749	24.	1129
9.	845	25.	1129
10.	1013	26.	1128
11.	1126	27.	1128
12.	1108	28.	1129
13.	1031	29.	1106
14.	1131	30.	1124
15.	1122	31.	1127
16.	1122		

OPERATING DATA REPORT

Docket No. 50-259
 Date: November 4, 1999
 Completed By: J. E. Wallace
 Telephone: (256) 729-7874

- 1. Unit Name: **BFN Unit 1**
- 2. Reporting Period: **October 1999**
- 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	<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: November 4, 1999
 Completed By: J. E. Wallace
 Telephone: (256) 729-7874

1. Unit Name: **BFN Unit 2**
 2. Reporting Period: **October 1999**
 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>745.0</u>	<u>7296.0</u>	<u>164431</u>
12. Number of Hours Reactor was Critical	<u>745.0</u>	<u>6571.0</u>	<u>122113</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>14200</u>
14. Hours Generator On-Line	<u>745.0</u>	<u>6521.0</u>	<u>119664</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWh)	<u>2574864.0</u>	<u>21498797</u>	<u>360075141</u>
17. Gross Electric Energy Generated (MWh)	<u>858840.0</u>	<u>7103690</u>	<u>119626648</u>
18. Net Electrical Energy Generated (MWh)	<u>839278.0</u>	<u>6932835</u>	<u>116439963</u>
19. Unit Service Factor	<u>100.0</u>	<u>89.4</u>	<u>72.8</u>
20. Unit Availability Factor	<u>100.0</u>	<u>89.4</u>	<u>72.8</u>
21. Unit Capacity Factor (Using MDC Net)	<u>100.8</u>	<u>86.6</u>	<u>66.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>100.6</u>	<u>84.8</u>	<u>66.4</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>1.5</u>	<u>12.6</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: **N/A**

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

OPERATING DATA REPORT

Docket No. 50-296
 Date: November 4, 1999
 Completed By: J. E. Wallace
 Telephone: (256) 729-7874

- 1. Unit Name: **BFN Unit 3**
- 2. Reporting Period: **October 1999**
- 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>745.0</u>	<u>7296.0</u>	<u>107653</u>
12. Number of Hours Reactor was Critical	<u>745.0</u>	<u>7296.0</u>	<u>78277</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>7865</u>
14. Hours Generator On-Line	<u>745.0</u>	<u>7296.0</u>	<u>76881</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWh)	<u>2421924</u>	<u>24872426</u>	<u>236785093</u>
17. Gross Electric Energy Generated (MWh)	<u>801710.0</u>	<u>8263210</u>	<u>79118480</u>
18. Net Electrical Energy Generated (MWh)	<u>783067.0</u>	<u>8078502</u>	<u>76169977</u>
19. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>71.4</u>
20. Unit Availability Factor	<u>100.0</u>	<u>100.0</u>	<u>71.4</u>
21. Unit Capacity Factor (Using MDC Net)	<u>94.0</u>	<u>99.0</u>	<u>66.6</u>
22. Unit Capacity Factor (Using DER Net)	<u>93.8</u>	<u>98.9</u>	<u>66.6</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.0</u>	<u>13.9</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): **Unit 3 is scheduled to begin its Cycle 9 refueling outage on April 16, 2000. This outage will last for 17 days.**

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 1999**

DOCKET NO: 50-259
UNIT NAME: BFN-1
DATE: November 4, 1999
COMPLETED BY: J. E. Wallace
TELEPHONE: (256) 729-7874

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report No.	System Code ⁴	Component Code ⁴	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 **Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) (NUREG - 1022)**

**UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: OCTOBER 1999**

DOCKET NO: 50-260
UNIT NAME: BFN-2
DATE: November 4, 1999
COMPLETED BY: J. E. Wallace
TELEPHONE: (256) 729-7874

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

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 **Instructions for Preparation of
 Data Entry sheets for Licensee
 Event Report (LER)
 (NUREG - 1022)**

**UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: OCTOBER 1999**

DOCKET NO: 50-296
UNIT NAME: BFN-3
DATE: November 4, 1999
COMPLETED BY: J. E. Wallace
TELEPHONE: (256) 729-7874

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report No.	System Code ⁴	Component Code ⁴	Cause and Corrective Action to Prevent Recurrence
2	10/01/99	S	0	B	5	N/A	N/A	N/A	Unit 3 reduced load until October 4, 1999, at 0109 hours to perform scram time testing, CRD adjustments, and various scheduled maintenance and repairs.
3	10/06/99	S	0	B	5	N/A	N/A	N/A	Unit 3 reduced load until October 11, 1999, at 0145 hours to perform various maintenance and repairs.

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 **Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) (NUREG - 1022)**