



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

March 13, 2000

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

Gentlemen:

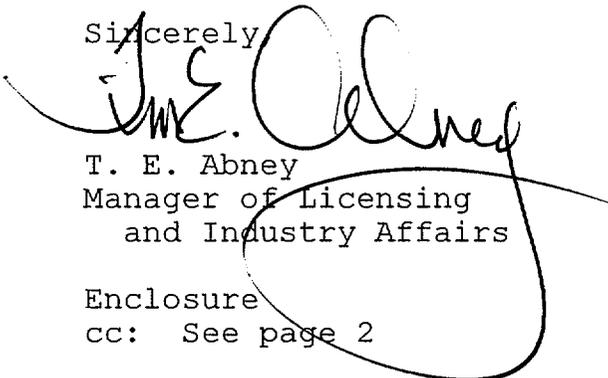
In the Matter of)	Docket Nos.	50-259
Tennessee Valley Authority)		50-260
			50-296

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

The enclosure provides the February 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,



T. E. Abney
Manager of Licensing
and Industry Affairs

Enclosure
cc: See page 2

JE24

U.S. Nuclear Regulatory Commission
Page 2
March 13, 2000

Enclosure

cc (Enclosure):

Mr. Paul E. Fredrickson, Branch Chief
U.S. Nuclear Regulatory Commission
Region II
61 Forsyth Street, S.W.
Suite 23T85
Atlanta, Georgia 30303

Mr. Herbert N. Berkow, Project Director
Project Directorate II-4
Division of Licensing Project Management
Office of Nuclear Reactor Regulation
Mail Stop 13 H3
Washington, D.C. 20555

INPO Records Center
Institute of Nuclear Power Operations
700 Galleria Parkway
Atlanta, Georgia 30339-5957

Mr. James Lang, Manager
Advanced Reactor Department
Electric Power Research Institute
3340 Hillview Avenue
Palo Alto, California 94304

NRC Resident Inspector
Browns Ferry Nuclear Plant
10833 Shaw Road
Athens, Alabama 35611

Regional Administrator
U.S. Nuclear Regulatory Commission
Region II
61 Forsyth Street, S.W.
Suite 23T85
Atlanta, Georgia 30303

Ms. Barbara Lewis
McGraw-Hill Companies
1200 G Street, N.W.
Suite 1100
Washington, D.C. 20005-3802

ENCLOSURE

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT (BFN)

MONTHLY OPERATING REPORT

FEBRUARY 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
FEBRUARY 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 February, Unit 2 generated 808,250 megawatt hours gross electrical power and operated at a net capacity factor of 101.7 percent MDC. As of February 29, 2000, Unit 2 has operated continuously for 164 days.

BROWNS FERRY NUCLEAR PLANT UNIT 3

For the month of February, Unit 3 generated 779,690 megawatt hours gross electrical power with a net capacity factor of 98.1 percent MDC. As of February 29, 2000, Unit 3 has operated continuously for 502 days.

AVERAGE DAILY UNIT POWER LEVEL

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

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

MONTH FEB. 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		
15.	0		
16.	0		

AVERAGE DAILY UNIT POWER LEVEL

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

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

MONTH FEB. 2000

AVERAGE DAILY POWER LEVEL		AVERAGE DAILY POWER LEVEL	
DAY	(MWe-Net)	DAY	(MWe-Net)
1.	1139	17.	1151
2.	1136	18.	1151
3.	1132	19.	1150
4.	1140	20.	1097
5.	1135	21.	1127
6.	1135	22.	1138
7.	1134	23.	1134
8.	1135	24.	1134
9.	1135	25.	1133
10.	1135	26.	1134
11.	1133	27.	1134
12.	1134	28.	1133
13.	1134	29.	1149
14.	1135		
15.	1151		
16.	1152		

AVERAGE DAILY UNIT POWER LEVEL

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

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

MONTH FEB. 2000

AVERAGE DAILY POWER LEVEL		AVERAGE DAILY POWER LEVEL	
DAY	(MWe-Net)	DAY	(MWe-Net)
1.	1131	17.	1081
2.	1131	18.	1127
3.	1130	19.	1128
4.	1051	20.	1129
5.	641	21.	1114
6.	1073	22.	1105
7.	1103	23.	1112
8.	1133	24.	1117
9.	1131	25.	1126
10.	1130	26.	922
11.	1128	27.	1140
12.	1126	28.	1136
13.	1132	29.	1133
14.	1123		
15.	1131		
16.	1130		

OPERATING DATA REPORT

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

1. Unit Name: **BFN Unit 1**
2. Reporting Period: **FEBRUARY 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>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: March 6, 2000
 Completed By: J. E. Wallace
 Telephone: (256) 729-7874

1. Unit Name: **BFN Unit 2**
 2. Reporting Period: **FEBRUARY 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>696.0</u>	<u>1440.0</u>	<u>167335</u>
12. Number of Hours Reactor was Critical	<u>696.0</u>	<u>1440.0</u>	<u>125017</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>14200</u>
14. Hours Generator On-Line	<u>696.0</u>	<u>1440.0</u>	<u>122568</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWh)	<u>2403264</u>	<u>4963911</u>	<u>370062079</u>
17. Gross Electric Energy Generated (MWh)	<u>808250</u>	<u>1674000</u>	<u>122991188</u>
18. Net Electrical Energy Generated (MWh)	<u>791036</u>	<u>1637891</u>	<u>119731337</u>
19. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>73.2</u>
20. Unit Availability Factor	<u>100.0</u>	<u>100.0</u>	<u>73.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>101.7</u>	<u>101.7</u>	<u>67.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>101.5</u>	<u>101.6</u>	<u>67.0</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.0</u>	<u>12.3</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 May 24, 1991)**

OPERATING DATA REPORT

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

- 1. Unit Name: **BFN Unit 3**
- 2. Reporting Period: **FEBRUARY 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>696.0</u>	<u>1440.0</u>	<u>110557</u>
12. Number of Hours Reactor was Critical	<u>696.0</u>	<u>1440.0</u>	<u>81181</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>8134</u>
14. Hours Generator On-Line	<u>696.0</u>	<u>1440.0</u>	<u>79785</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>2342040</u>	<u>4902857</u>	<u>246728317</u>
17. Gross Electric Energy Generated (MWh)	<u>779690</u>	<u>1634700</u>	<u>82442750</u>
18. Net Electrical Energy Generated (MWh)	<u>763075</u>	<u>1598805</u>	<u>79420867</u>
19. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>72.2</u>
20. Unit Availability Factor	<u>100.0</u>	<u>100.0</u>	<u>72.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>98.1</u>	<u>99.3</u>	<u>67.5</u>
22. Unit Capacity Factor (Using DER Net)	<u>97.9</u>	<u>99.1</u>	<u>67.5</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.0</u>	<u>13.4</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: FEBRUARY 2000**

DOCKET NO: 50-259
UNIT NAME: BFN-1
DATE: March 6, 2000
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	696	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: FEBRUARY 2000**

DOCKET NO: 50-260
UNIT NAME: BFN-2
DATE: March 6, 2000
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									

¹F: Forced
S: Scheduled

²Reason:
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)

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

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

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

DOCKET NO: 50-296
UNIT NAME: BFN-3
DATE: March 6, 2000
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	2/4/00	F	0	A	5	N/A	N/A	N/A	On February 4, 2000, at 2116 hours, the 3B recirculation motor-generator set tripped. Troubleshooting determined that the cause for the trip was a field current overload due to a failed SCR in the voltage regulator. Unit 3 was returned to dual pump operations on February 5, 2000, at 1100 hours when power ascension commenced.

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)**