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John T. Herron  
Vice President, Browns Ferry Nuclear Plant

January 11, 2001

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) - DECEMBER 2000 MONTHLY  
OPERATING REPORT**

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

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

Sincerely,

  
John T. Herron

Enclosure  
cc: See page 2

IE84

U.S. Nuclear Regulatory Commission  
Page 2  
January 11, 2001

Enclosure

cc (Enclosure):

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ENCLOSURE

TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT (BFN)

MONTHLY OPERATING REPORT

DECEMBER 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  
DECEMBER 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 December, Unit 2 generated 844,010 megawatt hours gross electrical power and operated at a net capacity factor of 99.3 percent MDC. As of December 31, 2000, Unit 2 has operated continuously for 182 days.

**BROWNS FERRY NUCLEAR PLANT UNIT 3**

For the month of December, Unit 3 generated 855,800 megawatt hours gross electrical power and operated at a net capacity factor of 100.6 percent MDC. As of December 31, 2000, Unit 3 has operated continuously for 220 days.

**AVERAGE DAILY UNIT POWER LEVEL**

DOCKET NO. 50-259 UNIT NO. ONE DATE: January 5 2001

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

MONTH DECEMBER 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	31.	0
16.	0		

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-260 UNIT NO. TWO DATE: January 5, 2001

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

MONTH DECEMBER 2000

AVERAGE DAILY POWER LEVEL		AVERAGE DAILY POWER LEVEL	
DAY	(MWe-Net)	DAY	(MWe-Net)
1.	1130	17.	1039
2.	1130	18.	1125
3.	1130	19.	1130
4.	1130	20.	1135
5.	1130	21.	1130
6.	1131	22.	1130
7.	1122	23.	1134
8.	1126	24.	1132
9.	739	25.	1128
10.	1128	26.	1134
11.	1123	27.	1132
12.	1124	28.	1131
13.	1125	29.	1133
14.	1126	30.	1131
15.	1121	31.	1131
16.	1016		

**AVERAGE DAILY UNIT POWER LEVEL**

DOCKET NO. 50-296    UNIT NO. THREE    DATE: January 5 2001  
COMPLETED BY: J. E. Wallace    TELEPHONE 256-729-7874  
MONTH DECEMBER 2000

AVERAGE DAILY POWER LEVEL		AVERAGE DAILY POWER LEVEL	
DAY	(MWe-Net)	DAY	(MWe-Net)
1.	1125	17.	1132
2.	971	18.	1125
3.	1123	19.	1135
4.	1132	20.	1133
5.	1127	21.	1128
6.	1134	22.	1132
7.	1127	23.	1126
8.	1135	24.	1137
9.	1131	25.	1129
10.	1130	26.	1134
11.	1132	27.	1130
12.	1131	28.	1131
13.	1130	29.	1129
14.	1132	30.	1132
15.	1127	31.	1132
16.	1133		

## OPERATING DATA REPORT

Docket No. 50-259  
 Date: January 5, 2001  
 Completed By: J. E. Wallace  
 Telephone: (256) 729-7874

1. Unit Name: **BFN Unit 1**  
 2. Reporting Period: **DECEMBER 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	<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: January 5, 2001  
 Completed By: J. E. Wallace  
 Telephone: (256) 729-7874

- 1. Unit Name: **BFN Unit 2**
- 2. Reporting Period: **DECEMBER 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	744	8784	174679
12. Number of Hours Reactor was Critical	744	8733	132310
13. Reactor Reserve Shutdown Hours	0	56.4	44823
14. Hours Generator On-Line	744	8728	129856
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWh)	2530625	29992714	395090882
17. Gross Electric Energy Generated (MWh)	844010	9950610	131267798
18. Net Electrical Energy Generated (MWh)	825762	9733461	127826906
19. Unit Service Factor	100.0	99.4	74.3
20. Unit Availability Factor	100.0	99.4	74.3
21. Unit Capacity Factor (Using MDC Net)	99.3	99.1	68.5
22. Unit Capacity Factor (Using DER Net)	99.1	98.9	68.4
23. Unit Forced Outage Rate	0.0	0.64	11.8

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: January 5, 2001  
 Completed By: J. E. Wallace  
 Telephone: (256) 729-7874

1. Unit Name: **BFN Unit 3**  
 2. Reporting Period: **DECEMBER 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>744</u>	<u>8784</u>	<u>117901</u>
12.	Number of Hours Reactor was Critical	<u>744</u>	<u>8329</u>	<u>88070</u>
13.	Reactor Reserve Shutdown Hours	<u>0</u>	<u>472</u>	<u>31245</u>
14.	Hours Generator On-Line	<u>744</u>	<u>8311</u>	<u>86656</u>
15.	Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16.	Gross Thermal Energy Generated (MWh)	<u>2559684</u>	<u>28194259</u>	<u>270019719</u>
17.	Gross Electric Energy Generated (MWh)	<u>855800</u>	<u>9309180</u>	<u>90117230</u>
18.	Net Electrical Energy Generated (MWh)	<u>837167</u>	<u>9097373</u>	<u>86919435</u>
19.	Unit Service Factor	<u>100.0</u>	<u>94.6</u>	<u>73.5</u>
20.	Unit Availability Factor	<u>100.0</u>	<u>94.6</u>	<u>73.5</u>
21.	Unit Capacity Factor (Using MDC Net)	<u>100.6</u>	<u>92.6</u>	<u>69.1</u>
22.	Unit Capacity Factor (Using DER Net)	<u>100.5</u>	<u>92.5</u>	<u>69.0</u>
23.	Unit Forced Outage Rate	<u>0.0</u>	<u>0.5</u>	<u>12.5</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: DECEMBER 2000**

**DOCKET NO:** 50-259  
**UNIT NAME:** BFN-1  
**DATE:** January 5, 2001  
**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	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> **Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) (NUREG - 1022)**

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

**DOCKET NO:** 50-260  
**UNIT NAME:** BFN-2  
**DATE:** January 5, 2001  
**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
3	12/8/00	S	0	B	5	N/A	N/A	N/A	On December 8, 2000, at 2300 hours power reduction began to support Scram Time (ST) Testing. The reactor was at 67 percent for ST testing at 0020 hours on December 9, 2000. The reactor was at full power on December 10, 2000, at 0045 hours.

<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: DECEMBER 2000**

**DOCKET NO:** 50-296  
**UNIT NAME:** BFN-3  
**DATE:** January 5, 2001  
**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
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)**