



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

September 13, 2000

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

Gentlemen:

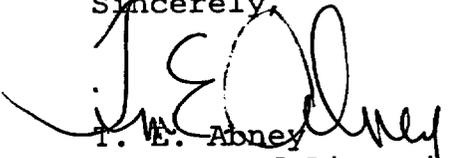
|                            |   |                    |
|----------------------------|---|--------------------|
| In the Matter of           | ) | Docket Nos. 50-259 |
| Tennessee Valley Authority | ) | 50-260             |
|                            |   | 50-296             |

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

The enclosure provides the August 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,

  
I. E. Abney  
Manager of Licensing  
and Industry Affairs

Enclosure  
cc: See page 2

IE24

U.S. Nuclear Regulatory Commission  
Page 2  
September 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, Director  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation  
11555 Rockville Pike  
Rockville, Maryland 20852-2738

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**

**AUGUST 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  
AUGUST 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 August, Unit 2 generated 815,990 megawatt hours gross electrical power and operated at a net capacity factor of 95.9 percent MDC. Unit 2 reduced load on August 25, 2000, at 2300 hours to perform scram time testing, control rod adjustments, RPS surveillance testing, and various scheduled maintenance and repairs. The Unit returned to 100 percent power at 0000 hours on August 29, 2000. As of August 31, 2000, Unit 2 has operated continuously for 60 days.

**BROWNS FERRY NUCLEAR PLANT UNIT 3**

For the month of August, Unit 3 generated 831,990 megawatt hours gross electrical power with a net capacity factor of 97.8 percent MDC. As of August 31, 2000, Unit 3 has operated continuously for 98 days.

**AVERAGE DAILY UNIT POWER LEVEL**

DOCKET NO. 50-259 UNIT NO. ONE DATE: SEPTEMBER 7, 2000

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

MONTH AUGUST 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: SEPTEMBER 7, 2000

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

MONTH AUGUST 2000

| AVERAGE DAILY POWER LEVEL |           | AVERAGE DAILY POWER LEVEL |           |
|---------------------------|-----------|---------------------------|-----------|
| DAY                       | (MWe-Net) | DAY                       | (MWe-Net) |
| 1.                        | 1102      | 17.                       | 1095      |
| 2.                        | 1104      | 18.                       | 1096      |
| 3.                        | 1104      | 19.                       | 1096      |
| 4.                        | 1100      | 20.                       | 1101      |
| 5.                        | 1100      | 21.                       | 1100      |
| 6.                        | 1100      | 22.                       | 1104      |
| 7.                        | 1097      | 23.                       | 1103      |
| 8.                        | 1098      | 24.                       | 1102      |
| 9.                        | 1095      | 25.                       | 1098      |
| 10.                       | 1094      | 26.                       | 703       |
| 11.                       | 1096      | 27.                       | 762       |
| 12.                       | 1101      | 28.                       | 976       |
| 13.                       | 1104      | 29.                       | 1105      |
| 14.                       | 1097      | 30.                       | 1101      |
| 15.                       | 1099      | 31.                       | 1101      |
| 16.                       | 1099      |                           |           |

**AVERAGE DAILY UNIT POWER LEVEL**

DOCKET NO. 50-296 UNIT NO. THREE DATE: SEPTEMBER 7, 2000

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

MONTH AUGUST 2000

| AVERAGE DAILY POWER LEVEL |           | AVERAGE DAILY POWER LEVEL |           |
|---------------------------|-----------|---------------------------|-----------|
| DAY                       | (MWe-Net) | DAY                       | (MWe-Net) |
| 1.                        | 1103      | 17.                       | 1094      |
| 2.                        | 1100      | 18.                       | 1094      |
| 3.                        | 1094      | 19.                       | 1094      |
| 4.                        | 1102      | 20.                       | 1097      |
| 5.                        | 1096      | 21.                       | 1099      |
| 6.                        | 1094      | 22.                       | 1102      |
| 7.                        | 1091      | 23.                       | 1099      |
| 8.                        | 1097      | 24.                       | 1097      |
| 9.                        | 1093      | 25.                       | 1100      |
| 10.                       | 1093      | 26.                       | 1017      |
| 11.                       | 1090      | 27.                       | 1101      |
| 12.                       | 1037      | 28.                       | 1100      |
| 13.                       | 1101      | 29.                       | 1102      |
| 14.                       | 1099      | 30.                       | 1101      |
| 15.                       | 1096      | 31.                       | 1102      |
| 16.                       | 1095      |                           |           |

## OPERATING DATA REPORT

Docket No. 50-259  
 Date: September 7, 2000  
 Completed By: J. E. Wallace  
 Telephone: (256) 729-7874

1. Unit Name: BFN Unit 1  
 2. Reporting Period: AUGUST 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.    | <u>50-260</u>            |
| Date:         | <u>September 7, 2000</u> |
| Completed By: | <u>J. E. Wallace</u>     |
| Telephone:    | <u>(256) 729-7874</u>    |

|    |  |                           |
|----|--|---------------------------|
| 1. | Unit Name:                               | <u><b>BFN Unit 2</b></u>  |
| 2. | Reporting Period:                        | <u><b>AUGUST 2000</b></u> |
| 3. | Licensed Thermal Power (MWt):            | <u><b>3458</b></u>        |
| 4. | Nameplate Rating (Gross Mwe):            | <u><b>1190</b></u>        |
| 5. | Design Electrical Rating (Net Mwe):      | <u><b>1120</b></u>        |
| 6. | Maximum Dependable Capacity (Gross MWe): | <u><b>1155</b></u>        |
| 7. | Maximum Dependable Capacity (Net MWe):   | <u><b>1118</b></u>        |

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             | <u>744</u>               | <u>5855</u>              | <u>171750</u>             |
| 12. | Number of Hours Reactor was Critical  | <u>744</u>               | <u>5804</u>              | <u>129381</u>             |
| 13. | Reactor Reserve Shutdown Hours        | <u>0</u>                 | <u>56.4</u>              | <u>44823</u>              |
| 14. | Hours Generator On-Line               | <u>744</u>               | <u>5799</u>              | <u>126927</u>             |
| 15. | Unit Reserve Shutdown Hours           | <u>0</u>                 | <u>0</u>                 | <u>0</u>                  |
| 16. | Gross Thermal Energy Generated (MWh)  | <u>2511499</u>           | <u>19926843</u>          | <u>385025011</u>          |
| 17. | Gross Electric Energy Generated (MWh) | <u>815990</u>            | <u>6607050</u>           | <u>127924238</u>          |
| 18. | Net Electrical Energy Generated (MWh) | <u>797583</u>            | <u>6462674</u>           | <u>124556120</u>          |
| 19. | Unit Service Factor                   | <u>100.0</u>             | <u>99.0</u>              | <u>73.9</u>               |
| 20. | Unit Availability Factor              | <u>100.0</u>             | <u>99.0</u>              | <u>73.9</u>               |
| 21. | Unit Capacity Factor (Using MDC Net)  | <u>95.9</u>              | <u>98.7</u>              | <u>67.9</u>               |
| 22. | Unit Capacity Factor (Using DER Net)  | <u>95.7</u>              | <u>98.6</u>              | <u>67.8</u>               |
| 23. | Unit Forced Outage Rate               | <u>0.0</u>               | <u>0.96</u>              | <u>12.0</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: September 7, 2000  
 Completed By: J. E. Wallace  
 Telephone: (256) 729-7874

- |    |  |                    |
|----|--|--------------------|
| 1. | Unit Name:                               | <u>BFN Unit 3</u>  |
| 2. | Reporting Period:                        | <u>AUGUST 2000</u> |
| 3. | Licensed Thermal Power (MWt):            | <u>3458</u>        |
| 4. | Nameplate Rating (Gross Mwe):            | <u>1190</u>        |
| 5. | Design Electrical Rating (Net Mwe):      | <u>1120</u>        |
| 6. | Maximum Dependable Capacity (Gross MWe): | <u>1155</u>        |
| 7. | Maximum Dependable Capacity (Net MWe):   | <u>1118</u>        |

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>5855</u>       | <u>114972</u>      |
| 12. | Number of Hours Reactor was Critical  | <u>744</u>        | <u>5400</u>       | <u>85141</u>       |
| 13. | Reactor Reserve Shutdown Hours        | <u>0</u>          | <u>472</u>        | <u>31245</u>       |
| 14. | Hours Generator On-Line               | <u>744</u>        | <u>5382</u>       | <u>83727</u>       |
| 15. | Unit Reserve Shutdown Hours           | <u>0</u>          | <u>0</u>          | <u>0</u>           |
| 16. | Gross Thermal Energy Generated (MWh)  | <u>2561218</u>    | <u>18149486</u>   | <u>259974947</u>   |
| 17. | Gross Electric Energy Generated (MWh) | <u>831990</u>     | <u>5973460</u>    | <u>86781510</u>    |
| 18. | Net Electrical Energy Generated (MWh) | <u>813164</u>     | <u>5836353</u>    | <u>83658415</u>    |
| 19. | Unit Service Factor                   | <u>100.0</u>      | <u>91.9</u>       | <u>72.8</u>        |
| 20. | Unit Availability Factor              | <u>100.0</u>      | <u>91.9</u>       | <u>72.8</u>        |
| 21. | Unit Capacity Factor (Using MDC Net)  | <u>97.8</u>       | <u>89.2</u>       | <u>68.3</u>        |
| 22. | Unit Capacity Factor (Using DER Net)  | <u>97.6</u>       | <u>89.0</u>       | <u>68.2</u>        |
| 23. | Unit Forced Outage Rate               | <u>0.0</u>        | <u>0.8</u>        | <u>12.9</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: AUGUST 2000**

**DOCKET NO:** 50-259  
**UNIT NAME:** BFN-1  
**DATE:** September 7, 2000  
**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: AUGUST 2000**

**DOCKET NO:** 50-260  
**UNIT NAME:** BFN-2  
**DATE:** September 7, 2000  
**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   |
|-----|---------|------|------------------|---------------------|--|---------------------------|--------------------------|-----------------------------|---|
| 2   | 8/25/00 | S    | 0                | B                   | 5  | N/A                       | N/A                      | N/A                         | Unit 2 reduced load on August 25, 2000, at 2300 hours to perform scram time testing, control rod adjustments, RPS surveillance testing, and various scheduled maintenance and repairs. The Unit returned to 100 percent power at 0000 hours on August 29, 2000. |

<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: AUGUST 2000**

**DOCKET NO:** 50-296  
**UNIT NAME:** BFN-3  
**DATE:** September 7, 2000  
**COMPLETED BY:** J. E. Wallace  
**TELEPHONE:** (256) 729-7874

| No. | Date | Type <sup>1</sup> | Duration<br>(Hours) | Reason <sup>2</sup> | Method of<br>Shutting<br>Down<br>Reactor <sup>3</sup> | Licensee<br>Event Report<br>No. | System<br>Code <sup>4</sup> | Component<br>Code <sup>4</sup> | Cause and Corrective Action to Prevent<br>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)**