



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

March 15, 2001

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

Gentlemen:

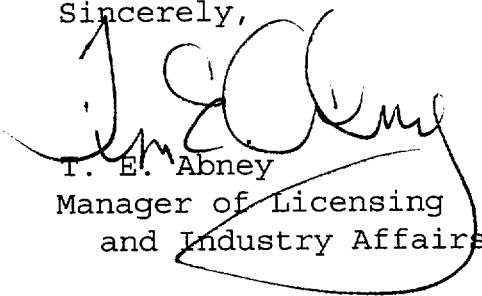
| | | | |
|----------------------------|---|-------------|--------|
| In the Matter of |) | Docket Nos. | 50-259 |
| Tennessee Valley Authority |) | | 50-260 |
| | | | 50-296 |

**BROWNS FERRY NUCLEAR PLANT (BFN) - FEBRUARY 2001 MONTHLY
OPERATING REPORT**

The enclosure provides the February 2001 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

IE24

U.S. Nuclear Regulatory Commission

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March 15, 2001

Enclosure

cc (Enclosure):

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ENCLOSURE

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT (BFN)

MONTHLY OPERATING REPORT

FEBRUARY 2001

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 2001

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 750,080 megawatt hours gross electrical power and operated at a net capacity factor of 97.5 percent MDC. As of February 28, 2001, Unit 2 has operated continuously for 241 days.

BROWNS FERRY NUCLEAR PLANT UNIT 3

For the month of February, Unit 3 generated 777,270 megawatt hours gross electrical power and operated at a net capacity factor of 101.2 percent MDC. As of February 28, 2001, Unit 3 has operated continuously for 279 days.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-259 UNIT NO. ONE DATE: March 6, 2001
COMPLETED BY: J. E. Wallace TELEPHONE 256-729-7874
MONTH FEBRUARY 2001

| 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 | | |
| 14. | 0 | | |
| 15. | 0 | | |
| 16. | 0 | | |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-260 UNIT NO. TWO DATE: March 6, 2001

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

MONTH February 2001

| AVERAGE DAILY POWER LEVEL | | AVERAGE DAILY POWER LEVEL | |
|---------------------------|-----------|---------------------------|-----------|
| DAY | (MWe-Net) | DAY | (MWe-Net) |
| 1. | 1119 | 17. | 1092 |
| 2. | 1116 | 18. | 1085 |
| 3. | 1112 | 19. | 1086 |
| 4. | 1102 | 20. | 1075 |
| 5. | 1101 | 21. | 1069 |
| 6. | 1104 | 22. | 1073 |
| 7. | 1105 | 23. | 1067 |
| 8. | 1118 | 24. | 1055 |
| 9. | 1118 | 25. | 1064 |
| 10. | 1116 | 26. | 1048 |
| 11. | 1115 | 27. | 1026 |
| 12 | 1114 | 28. | 1017 |
| 13. | 1113 | | |
| 14. | 1110 | | |
| 15. | 1098 | | |
| 16. | 1095 | | |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-296 UNIT NO. THREE DATE: March 6, 2001
COMPLETED BY: J. E. Wallace TELEPHONE 256-729-7874
MONTH February 2001

| AVERAGE DAILY POWER LEVEL | | AVERAGE DAILY POWER LEVEL | |
|---------------------------|-----------|---------------------------|-----------|
| DAY | (MWe-Net) | DAY | (MWe-Net) |
| 1. | 1101 | 17. | 1133 |
| 2. | 1130 | 18. | 1133 |
| 3. | 1133 | 19. | 1134 |
| 4. | 1133 | 20. | 1132 |
| 5. | 1132 | 21. | 1133 |
| 6. | 1132 | 22. | 1134 |
| 7. | 1123 | 23. | 1133 |
| 8. | 1136 | 24. | 1133 |
| 9. | 1132 | 25. | 1135 |
| 10. | 1133 | 26. | 1135 |
| 11. | 1133 | 27. | 1135 |
| 12. | 1133 | 28. | 1135 |
| 13. | 1133 | | |
| 14. | 1133 | | |
| 15. | 1134 | | |
| 16. | 1136 | | |

OPERATING DATA REPORT

Docket No. 50-259
 Date: March 6, 2001
 Completed By: J. E. Wallace
 Telephone: (256) 729-7874

1. Unit Name: **BFN Unit 1**
2. Reporting Period: **FEBRUARY 2001**
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: March 6, 2001
 Completed By: J. E. Wallace
 Telephone: (256) 729-7874

1. Unit Name: **BFN Unit 2**
2. Reporting Period: **FEBRUARY 2001**
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>672</u> | <u>1416</u> | <u>176095</u> |
| 12. Number of Hours Reactor was Critical | <u>672</u> | <u>1416</u> | <u>133726</u> |
| 13. Reactor Reserve Shutdown Hours | <u>0</u> | <u>0.0</u> | <u>44823</u> |
| 14. Hours Generator On-Line | <u>672</u> | <u>1416</u> | <u>131272</u> |
| 15. Unit Reserve Shutdown Hours | <u>0</u> | <u>0</u> | <u>0</u> |
| 16. Gross Thermal Energy Generated (MWh) | <u>2277631</u> | <u>4845562</u> | <u>399936444</u> |
| 17. Gross Electric Energy Generated (MWh) | <u>750080</u> | <u>1604190</u> | <u>132871988</u> |
| 18. Net Electrical Energy Generated (MWh) | <u>732324</u> | <u>1567654</u> | <u>129394560</u> |
| 19. Unit Service Factor | <u>100.0</u> | <u>100.0</u> | <u>74.5</u> |
| 20. Unit Availability Factor | <u>100.0</u> | <u>100.0</u> | <u>74.5</u> |
| 21. Unit Capacity Factor (Using MDC Net) | <u>97.5</u> | <u>99.0</u> | <u>68.7</u> |
| 22. Unit Capacity Factor (Using DER Net) | <u>97.3</u> | <u>98.8</u> | <u>68.6</u> |
| 23. Unit Forced Outage Rate | <u>0.0</u> | <u>0.0</u> | <u>11.7</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, 2001 |
| Completed By: | J. E. Wallace |
| Telephone: | (256) 729-7874 |

- | | |
|---|-----------------------------|
| 1. Unit Name: | <u>BFN Unit 3</u> |
| 2. Reporting Period: | <u>FEBRUARY 2001</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>672</u> | <u>1416</u> | <u>119317</u> |
| 12. Number of Hours Reactor was Critical | <u>672</u> | <u>1416</u> | <u>89486</u> |
| 13. Reactor Reserve Shutdown Hours | <u>0</u> | <u>0</u> | <u>31245</u> |
| 14. Hours Generator On-Line | <u>672</u> | <u>1416</u> | <u>88072</u> |
| 15. Unit Reserve Shutdown Hours | <u>0</u> | <u>0</u> | <u>0</u> |
| 16. Gross Thermal Energy Generated (MWh) | <u>2318479</u> | <u>4876817</u> | <u>274896536</u> |
| 17. Gross Electric Energy Generated (MWh) | <u>777270</u> | <u>1630220</u> | <u>91747450</u> |
| 18. Net Electrical Energy Generated (MWh) | <u>760642</u> | <u>1594986</u> | <u>88514421</u> |
| 19. Unit Service Factor | <u>100.0</u> | <u>100.0</u> | <u>73.8</u> |
| 20. Unit Availability Factor | <u>100.0</u> | <u>100.0</u> | <u>73.8</u> |
| 21. Unit Capacity Factor (Using MDC Net) | <u>101.2</u> | <u>100.8</u> | <u>69.5</u> |
| 22. Unit Capacity Factor (Using DER Net) | <u>101.1</u> | <u>100.6</u> | <u>69.4</u> |
| 23. Unit Forced Outage Rate | <u>0.0</u> | <u>0.0</u> | <u>12.4</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 2001**

DOCKET NO: 50-259
UNIT NAME: BFN-1
DATE: March 6, 2001
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 | 672 | 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 2001**

DOCKET NO: 50-260
UNIT NAME: BFN-2
DATE: March 6, 2001
COMPLETED BY: J. E. Wallace
TELEPHONE: (256) 729-7874

| No. | Date | Type | 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: FEBRUARY 2001**

DOCKET NO: 50-296
UNIT NAME: BFN-3
DATE: March 6, 2001
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 | 01/31/01 | S | 0 | B | 5 | N/A | N/A | N/A | On January 31, 2001, at 1100 hours, Operators began to lower reactor power to 70 percent to support repair on a leaking Unit 3-A1 moisture separator drain pump valve. Repairs on the valve were completed, and on February 1, 2001, at 0600 hours, reactor power level was returned to 100 percent. |

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)