

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

5N 157B Lookout Place

APR 13 1990

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

Gentlemen:

In the Matter of )  
Tennessee Valley Authority )

Docket Nos. 50-259  
50-260  
50-296


BROWNS FERRY NUCLEAR PLANT (BFN) - MONTHLY OPERATING REPORT FOR THE MONTH OF MARCH 1990

In accordance with the requirements of the BFN Technical Specifications (TS) section 6.9.1.3, the Monthly Operating Report for the month of March 1990 is enclosed.

If you have any questions, please telephone Patrick P. Carier, BFN,  
(205) 729-3570.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

  
E. G. Wallace, Manager  
Nuclear Licensing and  
Regulatory Affairs

Enclosure  
cc (Enclosure):

INPO Records Center  
Institute of Nuclear Power Operations  
1100 Circle 75 Parkway, Suite 1500  
Atlanta, Georgia 30389

Regional Administration  
U.S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Region II  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

Mr. B. D. Liaw, Director  
TVA Projects Division  
One White Flint, North  
11555 Rockville Pike  
Rockville, Maryland 20852

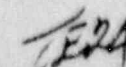
Mr. Ted Marston, Director  
Electric Power Research Institute  
P.O. Box 10412  
Palo Alto, California 94304

Mr. B. A. Wilson, Assistant Director  
for Inspection Programs  
TVA Projects Division  
U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

NRC Resident Inspector  
Browns Ferry Nuclear Plant  
Route 12, Box 637  
Athens, Alabama 35609-2000

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R PDC

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MONTHLY OPERATING REPORT  
BROWNS FERRY NUCLEAR PLANT  
TENNESSEE VALLEY AUTHORITY

MARCH 1990

DOCKET NUMBERS 50-259, 50-260, AND 50-296  
LICENSE NUMBERS DPR-33, DPR-52, AND DPR-68

OPERATIONAL SUMMARY  
MARCH 1990

UNIT 1

Unit remains on administrative hold to resolve various TVA and NRC concerns.

UNIT 2

Unit remains on administrative hold to resolve various TVA and NRC concerns. Modification, operation, and maintenance work continues to support restart.

UNIT 3

Unit remains on administrative hold to resolve various TVA and NRC concerns.

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-259

Unit One

PREPARED BY S. A. Ratliff

TELEPHONE (205) 729-2937

MONTH MARCH 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>-2</u>
2	<u>-2</u>
3	<u>-2</u>
4	<u>-6</u>
5	<u>-2</u>
6	<u>-1</u>
7	<u>-2</u>
8	<u>-2</u>
9	<u>-1</u>
10	<u>-1</u>
11	<u>-1</u>
12	<u>-2</u>
13	<u>-2</u>
14	<u>-2</u>
15	<u>-2</u>
16	<u>-1</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>-1</u>
18	<u>-1</u>
19	<u>-1</u>
20	<u>-2</u>
21	<u>-2</u>
22	<u>-2</u>
23	<u>-2</u>
24	<u>-2</u>
25	<u>-2</u>
26	<u>-2</u>
27	<u>-2</u>
28	<u>-2</u>
29	<u>-2</u>
30	<u>-6</u>
31	<u>-4</u>

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# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-260

Unit Two

PREPARED BY S. A. Ratliff

TELEPHONE (205) 729-2937

MONTH MARCH 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>-7</u>
2	<u>-7</u>
3	<u>-7</u>
4	<u>-7</u>
5	<u>-7</u>
6	<u>-7</u>
7	<u>-8</u>
8	<u>-8</u>
9	<u>-9</u>
10	<u>-8</u>
11	<u>-7</u>
12	<u>-8</u>
13	<u>-7</u>
14	<u>-8</u>
15	<u>-8</u>
16	<u>-4</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>-4</u>
18	<u>-4</u>
19	<u>-15</u>
20	<u>-7</u>
21	<u>-8</u>
22	<u>-7</u>
23	<u>-7</u>
24	<u>-8</u>
25	<u>-7</u>
26	<u>-8</u>
27	<u>-7</u>
28	<u>-8</u>
29	<u>-7</u>
30	<u>-7</u>
31	<u>-15</u>

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# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-296

UNIT Three

PREPARED BY S. A. Ratliff

TELEPHONE (205) 729-2937

MONTH MARCH 1990

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	-3
2	-3
3	-3
4	-3
5	-3
6	-2
7	-3
8	-2
9	-2
10	-2
11	-2
12	-3
13	-2
14	-2
15	-2
16	-2

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	-2
18	-2
19	-5
20	-2
21	-2
22	-3
23	-2
24	-2
25	-2
26	-3
27	-3
28	-3
29	-3
30	-3
31	-5

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# OPERATING DATA REPORT

DOCKET NO. 50-259  
PREPARED BY S. A. Rattiff  
TELEPHONE (205) 729-2937

## OPERATING STATUS

	Notes
1. Unit Name: Browns Ferry Unit One	!
2. Reporting Period: March 1990	!
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): 1098.4	!
7. Maximum Dependable Capacity (Net Mwe): 1065	!
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: N/A	!

9. Power Level To Which Restricted, Any (Net Mwe): N/A

10. Reasons For Restrictions, If Any: N/A

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	744	2160	137384
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 Electrical Energy Generated (MWH)	0	0	55398130
18. Net Electrical Energy Generated (MWH)	-1505	-4021	53579067
19. Unit Service Factor	0	0	42.4
20. Unit Availability Factor	0	0	42.4
21. Unit Capacity Factor (Using MDC Net)	0	0	36.6
22. Unit Capacity Factor (Using DER Net)	0	0	36.6
23. Unit Forced Outage Rate	100	100	50.9
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): N/A			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: To be determined

# OPERATING DATA REPORT

DOCKET NO. 50-260  
PREPARED BY S. A. Rattiff  
TELEPHONE (205) 729-2937

## OPERATING STATUS

	Notes
1. Unit Name: Browns Ferry Unit Two	!
2. Reporting Period: March 1990	!
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): 1098.4	!
7. Maximum Dependable Capacity (Net Mwe): 1065	!
8. If Changes Occur in Capacity Ratings (Items Number 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

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	744	2160	132271
12. Number of Hours Reactor Was Critical	0	0	55860
13. Reactor Reserve Shutdown Hours	0	0	14200
14. Hours Generator On-Line	0	0	54338
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	0	153245167
17. Gross Electrical Energy Generated (MWH)	0	0	50771798
18. Net Electrical Energy Generated (MWH)	-5706	-16741	49097683
19. Unit Service Factor	0	0	41.1
20. Unit Availability Factor	0	0	41.1
21. Unit Capacity Factor (Using MDC Net)	0	0	34.9
22. Unit Capacity Factor (Using DER Net)	0	0	34.9
23. Unit Forced Outage Rate	100	100	50.9
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): N/A			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: September 1990



# OPERATING DATA REPORT

DOCKET NO. 50-296  
PREPARED BY S. A. Rattiff  
TELEPHONE (205) 729-2937

## OPERATING STATUS

	Notes
1. Unit Name: Browns Ferry Unit Three	!
2. Reporting Period: March 1990	!
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): 1098.4	!
7. Maximum Dependable Capacity (Net MWe): 1065	!
8. If Changes Occur in Capacity Ratings (Items Number 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

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	744	2160	114696
12. Number of Hours Reactor Was Critical	0	0	45306
13. Reactor Reserve Shutdown Hours	0	0	5150
14. Hours Generator On-Line	0	0	44195
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWh)	0	0	131868267
17. Gross Electrical Energy Generated (MWh)	0	0	43473760
18. Net Electrical Energy Generated (MWh)	-1877	-3980	41989053
19. Unit Service Factor	0	0	38.5
20. Unit Availability Factor	0	0	38.5
21. Unit Capacity Factor (Using MDC Net)	0	0	34.4
22. Unit Capacity Factor (Using DER Net)	0	0	34.4
23. Unit Forced Outage Rate	100	100	54.9
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): N/A			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: To be determined

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UNIT: SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: March 1990

DOCKET NO: 50-259  
 UNIT NAME: One  
 PREPARED BY: S. A. Ratliff  
 TELEPHONE: (205) 729 2937

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>5</sup>	Cause and Corrective Action to Prevent Recurrence
315	06/01/85	F	672	F	4				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>Exhibit G-Instructions  
 for Preparation of Data  
 Entry sheets for Licensee  
 Event Report (LER) File  
 (NUREG-061)

<sup>5</sup>Exhibit I-Same Source

REPORT MONTH: March 1990

DOCKET NO: 50-260  
UNIT NAME: Two  
COMPLETED BY: S. A. Ratliff  
TELEPHONE: (205) 729-2937

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>5</sup>	Cause and Corrective Action to Prevent Recurrence
305	09/15/84	F	672	F	4				Administrative hold to resolve various TVA and NRC concerns.

<sup>5</sup>Exhibit I-Same Source



## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: March 1990DOCKET NO: 50-296UNIT NAME: ThreeCOMPLETED BY: S. A. RatliffTELEPHONE: (205) 729-2937

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>5</sup>	Cause and Corrective Action to Prevent Recurrence
157	03/03/85	F	672	F	4				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>Exhibit G-Instructions  
 for Preparation of Data  
 Entry sheets for Licensee  
 Event Report (LER) File  
 (NUREG-061)
<sup>5</sup>Exhibit I-Same Source