



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

December 14, 1995

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) - MONTHLY OPERATING REPORT
FOR THE MONTH OF NOVEMBER 1995**

In accordance with the requirements of BFN Units 1, 2, and 3 Technical Specifications, Section 6.9.1.3, TVA is submitting the Monthly Operating Report for the month of November 1995 in the enclosure.

If you have any questions, please call me at (205) 729-2636.

Sincerely,



Redro Salas
Manager of Site Licensing

Enclosure
cc: See page 2

280032

9512280251	951130
PDR	ADOCK 05000259
R	PDR

JEH

U.S. Nuclear Regulatory Commission

Page 2

December 14, 1995

Enclosure

cc (Enclosure):

Mr. Mark S. Lesser, Branch Chief
U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Mr. Frederick J. Hebdon, Director
Project Directorate II-4
Division of Reactor Projects I-II
Office of Nuclear Reactor
Regulation, Mail 13 H3
Washington, D.C. 20555

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

Mr. Jim Lang
Director of Engineering and Operations
Electric Power Research Institute
P. O. Box 10412
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
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Mr. Fred Yost, Director of Research
Utility Data Institute
1200 G Street, NW
Washington, D.C. 20005-3802

ENCLOSURE

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT (BFN)
UNITS 1, 2, AND 3

MONTHLY OPERATING REPORT
NOVEMBER 1995

(SEE ATTACHED)

OPERATIONAL SUMMARY
NOVEMBER 1995

BROWNS FERRY 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 of 0 MWe. Accordingly, TVA does not consider cumulative reporting period hours for the period beginning June 1, 1985, when calculating the operating status variables.

BROWNS FERRY 2

During the month Unit 2 operated at a capacity factor of 101.6 percent and generated 797,470 megawatt hours gross electrical power. As of November 30, 1995, Unit 2 has operated continuously for 102 days.

BROWNS FERRY 3

After being shutdown and on administrative hold since June 1, 1985, the Unit 3 reactor was restarted and declared critical at 1203 hours on November 19, 1995. During the month Unit 3 operated at a capacity factor of 24.2 percent and generated 24,020 megawatt hours gross electrical power. The unit was online for 66.72 hours. The remainder of the period (209.23 hours) was spent in scheduled power ascension testing.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-259
 UNIT: BROWNS FERRY 1
 PREPARED BY: T. R. Smith
 TELEPHONE: (205) 729-2955

MONTH NOVEMBER 1995

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	16	<u>0</u>
2	<u>0</u>	17	<u>0</u>
3	<u>0</u>	18	<u>0</u>
4	<u>0</u>	19	<u>0</u>
5	<u>0</u>	20	<u>0</u>
6	<u>0</u>	21	<u>0</u>
7	<u>0</u>	22	<u>0</u>
8	<u>0</u>	23	<u>0</u>
9	<u>0</u>	24	<u>0</u>
10	<u>0</u>	25	<u>0</u>
11	<u>0</u>	26	<u>0</u>
12	<u>0</u>	27	<u>0</u>
13	<u>0</u>	28	<u>0</u>
14	<u>0</u>	29	<u>0</u>
15	<u>0</u>	30	<u>0</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-260
 UNIT: BROWNS FERRY 2
 PREPARED BY: T. R. Smith
 TELEPHONE: (205) 729-2955

MONTH NOVEMBER 1995

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1124</u>	16	<u>1102</u>
2	<u>1080</u>	17	<u>1063</u>
3	<u>1082</u>	18	<u>1044</u>
4	<u>1084</u>	19	<u>1111</u>
5	<u>1078</u>	20	<u>1072</u>
6	<u>1088</u>	21	<u>1085</u>
7	<u>1101</u>	22	<u>1072</u>
8	<u>1110</u>	23	<u>1085</u>
9	<u>1043</u>	24	<u>1087</u>
10	<u>1086</u>	25	<u>1082</u>
11	<u>1013</u>	26	<u>1081</u>
12	<u>1105</u>	27	<u>1091</u>
13	<u>1069</u>	28	<u>1084</u>
14	<u>1078</u>	29	<u>1084</u>
15	<u>1091</u>	30	<u>1083</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-296
 UNIT: BROWNS FERRY 3
 PREPARED BY: T. R. Smith
 TELEPHONE: (205) 729-2955

MONTH NOVEMBER 1995

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	16	0
2	0	17	0
3	0	18	0
4	0	19	0
5	0	20	0
6	0	21	0
7	0	22	0
8	0	23	0
9	0	24	0
10	0	25	0
11	0	26	190
12	0	27	209
13	0	28	0
14	0	29	44
15	0	30	496

UNIT SHUTDOWNS AND POWER REDUCTIONS
 REPORT MONTH: NOVEMBER 1995

DOCKET NO: 50-259
 UNIT: BROWNS FERRY 1
 PREPARED BY: T. R. Smith
 TELEPHONE: (205) 729-2955

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	License Event Report No.	System Code ⁴	Component Code ⁴	Cause and Corrective Action to Prevent Recurrence
1	06/01/85	S	720	F	4				Administrative hold to resolve various TVA and MRC concerns.

¹F-Forced
 S-Scheduled

²A-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 Licensee Event Reports (NUREG-1022)

UNIT SHUTDOWNS AND POWER REDUCTIONS
 REPORT MONTH: NOVEMBER 1995

DOCKET NO: 50-260
 UNIT: BROWNS FERRY 2
 PREPARED BY: T. R. Smith
 TELEPHONE: (205) 729-2955

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	License Event Report No.	System Code ⁴	Component Code ⁴	Cause and Corrective Action to Prevent Recurrence
N/A									

¹F-Forced
 S-Scheduled

²A-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 Licensee Event Reports (NUREG-1022)

UNIT SHUTDOWNS AND POWER REDUCTIONS
 REPORT MONTH: NOVEMBER 1995

DOCKET NO: 50-296
 UNIT: BROWNS FERRY 3
 PREPARED BY: T. R. Smith
 TELEPHONE: (205) 729-2955

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	License Event Report No.	System Code ⁴	Component Code ⁴	Cause and Corrective Action to Prevent Recurrence
1	11/23/95	F	7	B	5				Tripped main turbine due to excessive vibration
2	11/26/95	F	1	B	5				Tripped main turbine for maintenance on main generator current transformer circuits
3	11/26/95	S	2	B	5				Tripped main turbine to perform overspeed test
4	11/27/95	S	48	B	2				Manual scram of unit 3 reactor required by testing schedule. Also main generator had insufficient cooling flow through the exciter cooler.

¹F-Forced
 S-Scheduled

²A-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 Licensee Event Reports (NUREG-1022)

OPERATING DATA REPORT

DOCKET: 50-259
 UNIT: BROWNS FERRY 1
 PREPARED BY: T. R. SMITH
 TELEPHONE: (205) 729-2955

OPERATING STATUS

1. Unit Name: BROWNS FERRY UNIT 1
2. Reporting Period: NOVEMBER 1995
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 Ratings (Items Number 3 Through 7) Since Last Report, Give Reason: N/A
9. Power Level To Which Restricted, If Any (Net MWe): 0
10. Reason For Restrictions, If Any: Administrative Hold

THIS MONTH YEAR TO DATE CUMULATIVE*

	THIS MONTH	YEAR TO DATE	CUMULATIVE*
11. Hours in Reporting Period	0	0	95743
12. 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 Generation (MWh)	0	0	168066787
17. Gross Electrical Generation (MWh)	0	0	55398130
18. Net Electrical Generation (MWh)	0	0	53796427
19. Unit Service Factor	0	0	60.9
20. Unit Availability Factor	0	0	60.9
21. Unit Capacity Factor (MDC Net)	0	0	52.8
22. Unit Capacity Factor (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 Shut Down At End Of Reporting Period, Estimated Date of Startup: To be determined			

* Excludes hours under administrative hold
(June 1, 1985 to present)

OPERATING DATA REPORT

DOCKET: 50-260
 UNIT: BROWNS FERRY 2
 PREPARED BY: T. R. SMITH
 TELEPHONE: (205) 729-2955

OPERATING STATUS

1. Unit Name: BROWNS FERRY UNIT 2
2. Reporting Period: NOVEMBER 1995
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 Reason: N/A
9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reason For Restrictions, If Any: N/A

THIS MONTH YEAR TO DATE CUMULATIVE*

	THIS MONTH	YEAR TO DATE	CUMULATIVE*
11. Hours in Reporting Period	720	8016	130087
12. Hours Reactor Was Critical	720	7908	90035
13. Reactor Reserve Shutdown Hours	0	0	14200
14. Hours Generator On Line	720	7884	87744
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Generation (MWh)	2360902	25751931	256920846
17. Gross Electrical Generation (MWh)	797470	8606960	85350138
18. Net Electrical Generation (MWh)	779010	8400922	82990758
19. Unit Service Factor	100.0	98.4	67.4
20. Unit Availability Factor	100.0	98.4	67.4
21. Unit Capacity Factor (MDC Net)	101.6	98.4	59.9
22. Unit Capacity Factor (DER net)	101.6	98.4	59.9
23. Unit Forced Outage Rate	0.0	1.6	16.1

24. Shutdowns Scheduled Over Next 6 Months
 Refueling Outage; March 23, 1996; 30 days

25. If Shut Down At End Of Reporting Period,
 Estimated Date of Startup: N/A

* Excludes hours under administrative hold
 (June 1, 1985 to May 24, 1991)

OPERATING DATA REPORT

DOCKET: 50-296
 UNIT: BROWNS FERRY 3
 PREPARED BY: T. R. SMITH
 TELEPHONE: (205) 729-2955

OPERATING STATUS

1. Unit Name: BROWNS FERRY UNIT 3
2. Reporting Period: NOVEMBER 1995
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 Reason: Items 6 and 7 changed from 0 to 1098.4 and 1065 respectively due to Unit 3 restarting after being shutdown and on administrative hold from June 1, 1985 to November 19, 1995.
9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reason For Restrictions, If Any: N/A

	THIS MONTH	YEAR TO DATE	CUMULATIVE*
11. Hours in Reporting Period	276.0	276	73331
12. Hours Reactor Was Critical	244.8	245	45551
13. Reactor Reserve Shutdown Hours	0.0	0	5150
14. Hours Generator On Line	66.7	67	44261
15. Unit Reserve Shutdown Hours	0.0	0	0
16. Gross Thermal Generation (MWh)	135744.0	135744	132004011
17. Gross Electrical Generation (MWh)	24020.0	24020	43497780
18. Net Electrical Generation (MWh)	15993.0	15993	42130002
19. Unit Service Factor	24.2	24.2	60.4
20. Unit Availability Factor	24.2	24.2	60.4
21. Unit Capacity Factor (MDC Net)	5.4	5.4	53.9
22. Unit Capacity Factor (DER net)	5.4	5.4	53.9
23. Unit Forced Outage Rate	0.0	0.0	21.5
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	N/A		
25. If Shut Down At End Of Reporting Period, Estimated Date of Startup:	N/A		

* Excludes hours under administrative hold (June 1, 1985 to November 19, 1995)