



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

May 15, 1996

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 APRIL 1996**

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 April 1996 in the
enclosure.

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

Sincerely,



Pedro Salas
Manager of Site Licensing

Enclosure
cc: See page 2

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U.S. Nuclear Regulatory Commission

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May 15, 1996

Enclosure

cc (Enclosure):

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ENCLOSURE

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

MONTHLY OPERATING REPORT
APRIL 1996

(SEE ATTACHED)

**OPERATIONAL SUMMARY
APRIL 1996**

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 zero 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

At the beginning of the month, Unit 2 continued its Cycle 8 refueling outage that began on March 23, 1996. Unit 2 restarted on April 24, 1996. For the month of April, the unit operated at a capacity factor of 15.4 percent and generated 124,010 megawatt hours gross electrical power. As of April 30, 1996, the unit has operated continuously for seven days.

BROWNS FERRY 3

During the month, Unit 3 operated at a capacity factor of 93.5 percent and generated 733,400 megawatt hours gross electrical power. The unit scrambled on April 21, 1996, due to the trip of the "3C" reactor feedwater pump and failure of the "3C" reactor feedwater pump discharge check valve. This produced a rapid drop in reactor water level, resulting in a reactor protection system actuation scram on low water level. The unit resumed operation on April 22, 1996. As of April 30, 1996, the unit has operated continuously for nine days.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-259
UNIT: BROWNS FERRY 1
PREPARED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

MONTH APRIL 1996

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	<u>0</u>
17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-260
UNIT: BROWNS FERRY 2
PREPARED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

MONTH APRIL 1996

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	<u>0</u>
17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>161</u>
25	<u>323</u>
26	<u>545</u>
27	<u>857</u>
28	<u>969</u>
29	<u>1071</u>
30	<u>1091</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-296
UNIT: BROWNS FERRY 3
PREPARED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

MONTH APRIL 1996

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1078</u>
2	<u>1081</u>
3	<u>1091</u>
4	<u>1069</u>
5	<u>1092</u>
6	<u>1085</u>
7	<u>1028</u>
8	<u>1085</u>
9	<u>1089</u>
10	<u>1087</u>
11	<u>1091</u>
12	<u>1080</u>
13	<u>1088</u>
14	<u>1067</u>
15	<u>1086</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	<u>1091</u>
17	<u>1082</u>
18	<u>1084</u>
19	<u>1089</u>
20	<u>1090</u>
21	<u>163</u>
22	<u>221</u>
23	<u>784</u>
24	<u>781</u>
25	<u>909</u>
26	<u>1004</u>
27	<u>1090</u>
28	<u>1063</u>
29	<u>1087</u>
30	<u>1088</u>

DOCKET NO: 50-259
UNIT: BROWNS FERRY 1
PREPARED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

[illegible]

⁴Instructions for Preparation of Licensee Event Reports (NUREG-1022)

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: APRIL 1996

DOCKET NO: 50-260
UNIT: BROWNS FERRY 2
PREPARED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

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	04/01/96	S	554*	C	1	N/A	N/A	N/A	Unit 2 Reactor shutdown for Refueling at 0200 hours on March 23, 1996. The unit resumed operation on April 24, 1996.
*Includes Correction for changing to Daylight Savings Time on 04/01/96									

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: APRIL 1996

DOCKET NO: 50-296
UNIT: BROWNS FERRY 3
PREPARED BY: J. W. Davenport
TELEPHONE: (205) 729-2690

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
3	04/21/96	F	33.1	A	3	296/96002	SJ	FCV	Reactor Scram due to the inadvertent transfer of oil from the "3C" reactor feedwater pump turbine oil tank, resulting in a trip of "3C" feedwater pump. Failure of the "3C" reactor feedwater pump discharge check valve resulted in reactor feedwater flow from the two remaining pumps being short cycled through the idle feedwater pump. The subsequent partial loss of feedwater flow produced a quick drop in reactor water level resulting in a reactor protection system actuation scram on low water level.

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: J. W. Davenport
TELEPHONE: (205) 729-2690

OPERATING STATUS

1. Unit Name: **BROWNS FERRY UNIT 1**
2. Reporting Period: **APRIL 1996**
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*

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: J. W. Davenport
TELEPHONE: (205) 729-2690

OPERATING STATUS

1. Unit Name: BROWNS FERRY UNIT 2
2. Reporting Period: APRIL 1996
3. Licensed Thermal Power (Mwt): 3293
4. Nameplate Rating (Gross MWe): 1112
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*

11. Hours in Reporting Period	719.0	2903.0	133734
12. Hours Reactor Was Critical	219.0	2189.0	92968
13. Reactor Reserve Shutdown Hours	0.0	0.0	14200
14. Hours Generator On Line	165.0	2135.0	90623
15. Unit Reserve Shutdown Hours	0.0	0.0	0
16. Gross Thermal Generation (MWh)	394176.0	6423000	265763332
17. Gross Electrical Generation (MWh)	124010.0	2109090	88274408
18. Net Electrical Generation (MWh)	117992.0	2050733	85837604
19. Unit Service Factor	22.9	73.5	67.8
20. Unit Availability Factor	22.9	73.5	67.8
21. Unit Capacity Factor (MDC Net)	15.4	81.2	60.3
22. Unit Capacity Factor (DER net)	15.4	81.2	60.3
23. Unit Forced Outage Rate	0.0	0.0	15.6

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: 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: J. W. Davenport
TELEPHONE: (205) 729-2690

OPERATING STATUS

1. Unit Name: BROWNS FERRY UNIT 3
2. Reporting Period: APRIL 1996
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*

11. Hours in Reporting Period	719.0	2903.0	76956
12. Hours Reactor Was Critical	693.4	2818.3	49113
13. Reactor Reserve Shutdown Hours	0.0	0	5150
14. Hours Generator On Line	685.9	2804.2	47809
15. Unit Reserve Shutdown Hours	0.0	0	0
16. Gross Thermal Generation (MWh)	2179728.0	8990280	143260561
17. Gross Electrical Generation (MWh)	733400.0	3039080	48037410
18. Net Electrical Generation (MWh)	715783.0	2965814	45844441
19. Unit Service Factor	95.4	96.6	62.1
20. Unit Availability Factor	95.4	96.6	62.1
21. Unit Capacity Factor (MDC Net)	93.5	68.4	55.9
22. Unit Capacity Factor (DER net)	93.5	68.4	55.9
23. Unit Forced Outage Rate	4.6	28.6	20.4
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)