TVA

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R. D. (Rick) Machon
Vice President, Browns Ferry Nuclear Plant

March 15, 1996

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 FEBRUARY 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 February 1996 in the enclosure.

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

Sincerely,

R. D. Machon

Enclosure
cc: See page 2

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1/1

Enclosure
cc (Enclosure):
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ENCLOSURE

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

MONTHLY OPERATING REPORT
FEBRUARY 1996

(SEE ATTACHED)

OPERATIONAL SUMMARY
FEBRUARY 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 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 92.2 percent and generated 701,330 megawatt hours gross electrical power. As of February 29, 1996, Unit 2 has operated continuously for 193 days. Unit 2 is presently in coast-down for the cycle 8 refueling outage scheduled to begin on March 22, 1996.

BROWNS FERRY 3

During the month Unit 3 operated at a capacity factor of 98.7 percent and generated 750,150 megawatt hours gross electrical power. After 91 days of continuous operation, Unit 3 reactor scrammed at 0158 hours on February 29, 1996. The initiating event was a failed turbine speed feedback card in the Electro-Hydraulic Control system. The failed card caused fluctuations in the turbine control valves and turbine bypass valves, causing a reactor pressure spike, which in turn caused an Average Power Range Monitor high flux spike, scramming the reactor.

AVERAGE DAILY UNIT POWER LEVEL

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

MONTH FEBRUARY 1996

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	0
12	0	27	0
13	0	28	0
14	0	29	0
15	0		

AVERAGE DAILY UNIT POWER LEVEL

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

MONTH FEBRUARY 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1053	16	988
2	1023	17	984
3	1066	18	982
4	1073	19	943
5	1011	20	965
6	1028	21	932
7	1022	22	916
8	1036	23	963
9	1011	24	950
10	1016	25	958
11	1043	26	938
12	988	27	899
13	1018	28	861
14	980	29	831
15	992		

AVERAGE DAILY UNIT POWER LEVEL

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

MONTH FEBRUARY 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1091	16	1069
2	1071	17	1089
3	1069	18	1084
4	1075	19	1093
5	1070	20	1090
6	1091	21	1093
7	1081	22	1089
8	1084	23	1090
9	1086	24	1086
10	1067	25	1089
11	1038	26	1087
12	1077	27	1087
13	1087	28	1071
14	1088	29	192
15	1088		

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: FEBRUARY 1996

DOCKET NO: 50-259
UNIT: BROWNS FERRY 1
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	06/01/85	S	696	F	4				Administrative hold to resolve various TVA and NRC concerns.

[1]F-Forced
S-Scheduled

[2]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 Licensee Event Reports (NUREG-1022)

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: FEBRUARY 1996

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

No.	Date	Type[1]	,m 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									

[1]F-Forced
S-Scheduled

[2]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 Licensee Event Reports (NUREG-1022)

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: NOVEMBER 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
1	02/29/96	F	22	A	3	296/96001	JJ	CNV	A failed turbine speed feedback card in the Electro-Hydraulic Control system caused fluctuations in the turbine control and bypass valves. This caused a reactor pressure spike, which in turn caused an Average Power Range Monitor high flux spike that scrammed the reactor.

[1]F-Forced
S-Scheduled

[2]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 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: **FEBRUARY 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: **FEBRUARY 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	696.0	1440.0	132271
12. Hours Reactor Was Critical	696.0	1440.0	92219
13. Reactor Reserve Shutdown Hours	0.0	0.0	14200
14. Hours Generator On Line	696.0	1440.0	89928
15. Unit Reserve Shutdown Hours	0.0	0.0	0
16. Gross Thermal Generation (MWh)	2142864.0	4566432	263906764
17. Gross Electrical Generation (MWh)	701330.0	1506600	87671918
18. Net Electrical Generation (MWh)	683269.0	1469115	85255986
19. Unit Service Factor	100.0	100.0	68.0
20. Unit Availability Factor	100.0	100.0	68.0
21. Unit Capacity Factor (MDC Net)	92.2	95.8	60.5
22. Unit Capacity Factor (DER net)	92.2	95.8	60.5
23. Unit Forced Outage Rate	0.0	0.0	15.7

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): **Refueling Outage, March 22, 1996, 35 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: J. W. Davenport
TELEPHONE: (205) 729-2690

OPERATING STATUS

1. Unit Name: **BROWNS FERRY UNIT 3**
2. Reporting Period: **FEBRUARY 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	696.0	1440	75515
12. Hours Reactor Was Critical	674.0	1418	47713
13. Reactor Reserve Shutdown Hours	0.0	0	5150
14. Hours Generator On Line	674.0	1418	46423
15. Unit Reserve Shutdown Hours	0.0	0	0
16. Gross Thermal Generation (MWh	2213520.0	4644864	138915145
17. Gross Electrical Generation (MWh)	750150.0	1571540	45835730
18. Net Electrical Generation (MWh)	731352.0	1533633	44412260
19. Unit Service Factor	96.8	98.5	61.5
20. Unit Availability Factor	96.8	98.5	61.5
21. Unit Capacity Factor (MDC Net)	98.7	100.0	55.2
22. Unit Capacity Factor (DER net)	98.7	100.0	55.2
23. Unit Forced Outage Rate	3.2	1.5	20.8

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)