NRC FORM 195 (2-76)

U.S. NUCLEAR REGULATORY COMMISSION

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DESCRIPTION

LETTER TRANS THE FOLLOWING:

PLANT NAME: BROWN FERRY # 1,2 & 3

ENCLOSURE

MONTHLY REPORT FOR JANUARY 1977
PLANT & COMPONENT OPERABILITY & [illegible]
AVAILABILITY. THIS REPORT TO BE USED IN
PREPARING GRAY BOOK BY PLANS & OPERATIONS.

ACKNOWLEDGED

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NRC FORM 195 (2-76)

Browns Ferry Nuclear Plant
P. O. Box 2000
Decatur, Alabama 35602

February 9, 1977

50-259/260/296

Nuclear Regulatory Commission
Office of Management Information
and Program Control
Washington, D. C. 20555

Gentlemen:

Enclosed is the January 1977 report on plant and component operability and availability for Browns Ferry Nuclear Plant units 1, 2, and 3.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

H. J. Green
Plant Superintendent

Enclosures
CC: Director, Region II
Nuclear Regulatory Commission
Office of Inspection and Enforcement
230 Peachtree Street, NW
Suite 818
Atlanta, GA 30303
(1 copy)

Director, Office of Inspection & Enforcement
Nuclear Regulatory Commission
Washington, D. C. 20555
(10 copies)

1648

UNIT NAME Br[redacted]s Ferry I

DATE 2/5/77

COMPLETED BY: Harold Walls

TELEPHONE 729-8316

OPERATING STATUS:

1. Reporting Period: 0000770101 to 2400770131
   Gross Hours in Reporting Period: 744
2. Currently Authorized Power Level MWt 3293 MWe-net 1065
   Max. Depend. capacity (MWe-net) 1065
3. Power Level to which restricted (if any): NA
4. Reasons for restrictions (if any):

		This Month	Yr-To-Date	Cumulative To Date
5.	Hours Reactor Was Critical	597.63	597.63	7,692.14
6.	Reactor Reserve Shutdown Hours	146.37	146.37	3,937.71
7.	Hours Generator On-Line	568.18	568.18	7,393.97
8.	Unit Reserve Shutdown Hours	0	0	0
9.	Gross Thermal Power Generated (MWH)	1,347,624	1,347,624	18,127,534
10.	Gross Electrical Power Generated (MWH)	433,870	433,870	6,041,820
11.	Net Electrical Power Generated (MWH)	422,816	422,816	5,867,901
12.	Reactor Service Factor	80.3	80.3	35.0
13.	Reactor Available Factor	100	100	53.0
14.	Unit Service Factor	76.4	76.4	33.7
15.	Unit Availability Factor	76.4	76.4	33.7
16.	Unit Capacity Factor (using MDC)	53.4	53.4	25.1
17.	Unit Capacity Factor (using Design MWe)	53.4	53.4	25.1
18.	Forced Outage Rate	23.6	23.6	63.2

19. Shutdowns scheduled to begin in next 6 months (state type, date and duration of each):

20. If shutdown at end of report period, estimated date of startup:

21. Plants in Test Status (prior to commercial operation) Report the Following:

	Forecast	Achieved
Initial Criticality		
Initial Electrical Power Generation		
Commercial Operation		

SUMMARY:

Unit operated at an average load of 763 MWe

UNIT NAME Browns Ferry I

DATE 2/5/77

COMPLETED BY Harold Walls

REPORT MONTH JANUARY

PLANT SHUTDOWNS

NO.	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	COMMENTS
1. 770104	F	150.13	A	B	Torus vacuum bar failure
2. 770110	F	.27	A	No shutdown	High moisture sep. level
3. 770120	F	13.12	A	B	EHC oil leak
4. 770127	F	12.30	A	C	EHC malfunction

(1) REASON:
A-EQUIPMENT FAILURE (EXPLAIN)
B-MAINT, OR TEST
C-REFUELING
D-REGULATORY RESTRICTION
E-OPERATOR TRAINING AND LICENSING EXAMINATION
F-ADMINISTRATIVE
G-OPERATIONAL ERROR (EXPLAIN)

(2) METHOD:
A-MANUA
B-MANUA SCRA
C-AUTOM SCRA

UNIT Browns Ferry I

DATE 2/7/77

COMPLETED BY Jim Steele

DAILY UNIT POWER OUTPUT

MONTH JANUARY

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	1064	25	641
2	1066	26	728
3	928	27	537
4	1033	28	264
5	-10	29	509
6	-12	30	697
7	- 7	31	799
8	- 8		
9	-11		
10	-10		
11	382		
12	614		
13	709		
14	768		
15	867		
16	956		
17	1024		
18	1082		
19	1063		
20	574		
21	279		
22	413		
23	452		
24	533		

Note: Negative values indicate station use when unit is off line.

UNIT NAME Browns Ferry II

DATE 2/5/77

COMPLETED BY: Harold Walls

TELEPHONE 729-8316

OPERATING STATUS:

1. Reporting Period: 0000770101 to 2400770131

   Gross Hours in Reporting Period: 744

2. Currently Authorized Power Level MWt 3293 MWe-net 1065

   Max. Depend. capacity (MWe-net) 1065

3. Power Level to which restricted (if any): NA

4. Reasons for restrictions (if any):

		This Month	Yr-To-Date	Cumulative To Date
5.	Hours Reactor Was Critical	736.28	736.28	4,090.10
6.	Reactor Reserve Shutdown Hours	7.72	7.72	10,381.90
7.	Hours Generator On-Line	704.95	704.95	3,770.68
8.	Unit Reserve Shutdown Hours	0	0	0
9.	Gross Thermal Power Generated (MWH)	2,143,056	2,143,056	8,783,517
10.	Gross Electrical Power Generated (MWH)	692,360	692,360	2,870,750
11.	Net Electrical Power Generated (MWH)	675,510	675,510	2,793,296
12.	Reactor Service Factor	99.0	99.0	24.2
13.	Reactor Available Factor	100	100	85.8
14.	Unit Service Factor	94.8	94.8	22.3
15.	Unit Availability Factor	94.8	94.8	22.3
16.	Unit Capacity Factor (using MDC)	85.3	85.3	15.5
17.	Unit Capacity Factor (using Design MWe)	85.3	85.3	15.5
18.	Forced Outage Rate	5.2	5.2	75.4

19. Shutdowns scheduled to begin in next 6 months (state type, date and duration of each):

20. If shutdown at end of report period, estimated date of startup:

21. Plants in Test Status (prior to commercial operation) Report the Following:

	Forecast	Achieved
Initial Criticality		
Initial Electrical Power Generation		
Commercial Operation		

SUMMARY:

Unit operated at an average load of 982 MWe.

UNIT NAME Browns Ferry II

DATE 2/5/77

COMPLETED BY Harold Walls

REPORT MONTH JANUARY

PLANT SHUTDOWNS

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	COMMENTS
1	770112	F				Derated for feedwater heater repair
2	770124	F	39.05	A	B	Drywell leakage

(1) REASON:
A-EQUIPMENT FAILURE (EXPLAIN)
B-MAINT, OR TEST
C-REFUELING
D-REGULATORY RESTRICTION
E-OPERATOR TRAINING AND LICENSING EXAMINATION
F-ADMINISTRATIVE
G-OPERATIONAL ERROR (EXPLAIN)

(2) METHOD:
A-MANUAL
B-MANUAL SCRAM
C-AUTOMATIC SCRAM

UNIT Browns Ferry II

DATE 2/7/77

COMPLETED BY Jim Steele

DAILY UNIT POWER OUTPUT

MONTH JANUARY

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	961	25	-9
2	1033	26	136
3	986	27	340
4	1065	28	411
5	1053	29	636
6	1061	30	749
7	1050	31	848
8	1065		
9	1065		
10	1065		
11	1038		
12	1068		
13	1049		
14	1057		
15	1063		
16	1082		
17	1044		
18	1075		
19	1045		
20	1080		
21	1052		
22	1071		
23	1064		
24	809		

Note: Negative values indicate station use when unit is off line.

UNIT NAME Browns Ferry III

DATE 2/5/77

COMPLETED BY: Harold Walls

TELEPHONE 729-8316

OPERATING STATUS:

1. Reporting Period: 0000770101 to 2400770131
   Gross Hours in Reporting Period: 744
2. Currently Authorized Power Level MWt 3293 MWe-net 1065
   Max. Depend. capacity (MWe-net) 1065
3. Power Level to which restricted (if any): NA
4. Reasons for restrictions (if any):

		This Month	Yr-To-Date	Cumulative To Date
5.	Hours Reactor Was Critical	717.25	717.25	3,000.79
6.	Reactor Reserve Shutdown Hours	26.75	26.75	347.99
7.	Hours Generator On-Line	706.90	706.90	2,765.10
8.	Unit Reserve Shutdown Hours	0	0	0
9.	Gross Thermal Power Generated (MWH)	2,054,520	2,054,520	6,511,006
10.	Gross Electrical Power Generated (MWH)	749,410	749,410	2,216,220
11.	Net Electrical Power Generated (MWH)	731,781	731,781	2,148,672
12.	Reactor Service Factor	96.4	96.4	88.2
13.	Reactor Available Factor	100	100	98.5
14.	Unit Service Factor	95.0	95.0	81.3
15.	Unit Availability Factor	95.0	95.0	81.3
16.	Unit Capacity Factor (using MDC)	92.4	92.4	59.3
17.	Unit Capacity Factor (using Design MWe)	92.4	92.4	59.3
18.	Forced Outage Rate	5.0	5.0	7.5

19. Shutdowns scheduled to begin in next 6 months (state type, date and duration of each):

20. If shutdown at end of report period, estimated date of startup:

21. Plants in Test Status (prior to commercial operation) Report the Following:

	Forecast	Achieved
Initial Criticality		
Initial Electrical Power Generation		
Commercial Operation		

SUMMARY:

Unit completed 300 hr. warranty run on 1/8/77

UNIT NAME Browns Ferry III

DATE 2/5/77

COMPLETED BY Harold Walls

REPORT MONTH JANUARY

PLANT SHUTDOWNS

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	COMMENTS
1	770126	F	36.52	G	C	Operator error during SI
2	770128	F	.58	A	C	False HI vibration ann. on turbine

(1) REASON:
A-EQUIPMENT FAILURE (EXPLAIN)
B-MAINT, OR TEST
C-REFUELING
D-REGULATORY RESTRICTION
E-OPERATOR TRAINING AND LICENSING EXAMINATION
F-ADMINISTRATIVE
G-OPERATIONAL ERROR (EXPLAIN)

(2) METHOD:
A-MANUAL
B-MANUAL SCRAM
C-AUTOMA SCRAM

UNIT Browns Ferry III

DATE 2/7/77

COMPLETED BY Jim Steele

DAILY UNIT POWER OUTPUT

MONTH JANUARY

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	1075E	25	1057
2	1033E	26	878
3	994	27	-17
4	1079	28	210
5	1055	29	813
6	1086	30	971
7	1060	31	1065
8	1076		
9	1070		
10	1050		
11	1075		
12	1046		
13	1035		
14	1022		
15	1047		
16	1081		
17	1054		
18	1040		
19	999		
20	1063		
21	1074		
22	1091		
23	1038		
24	1062.		

Note: Negative values indicate station use when unit is off line.

E - Estimate