

50-2597260/296  
FILE NUMBER  
MONTHLY REPORT

## NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

TO:  N. R. C.	FROM: Tennessee Valley Authority Chattanooga, Tennessee J. G. Dewease	DATE OF DOCUMENT Not Dated  DATE RECEIVED 7/18/77
---------------------	--------------------------------------------------------------------------------	---------------------------------------------------------------

<input checked="" type="checkbox"/> LETTER <input type="checkbox"/> ORIGINAL <input checked="" type="checkbox"/> COPY	<input type="checkbox"/> NOTORIZED <input checked="" type="checkbox"/> UNCLASSIFIED	PROP	INPUT FORM	NUMBER OF COPIES RECEIVED  1 cc
-----------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------	------	------------	---------------------------------------

## DESCRIPTION

Letter trans the following:

(1-P)

PLANT NAME:  
Browns Ferry Units 1-2-3  
RJL 7/18/77

## ENCLOSURE

Monthly Report for JUNE 1977  
Plant & Component Operability & Availability.  
This Report to be used in preparing Gray Book  
by Plans & Operations.

DO NOT REMOVE

(9-2) ACKNOWLEDGED

10 cys ENCL Rec'd

## FOR ACTION/INFORMATION

MIPC W/2 CYS FOR ACTION

## INTERNAL DISTRIBUTION

(Reg Files)

NRC PDR

Branch Chief (L) SchwencerLic Asst Sheppard

## EXTERNAL DISTRIBUTION

LPDR: Athens, Ala.

TIC

NSIC

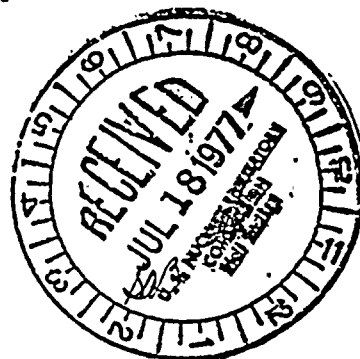
## CONTROL NUMBER

771990250



Browns Ferry Nuclear Plant  
P. O. Box 2000  
Decatur, Alabama 35601

Regulatory Docket File



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

Gentlemen:

Enclosed is the June 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

J. G. Deweaze  
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)

771990250

UNIT NAME Browns Ferry IDATE 7-7-77COMPLETED BY: Harold WallsTELEPHONE 729-6846OPERATING STATUS:1. Reporting Period: 0000770601 to 2400770631Gross Hours in Reporting Period: 7202. Currently Authorized Power Level MWe 3293 MWe-net 1065Max. Depend. capacity (MWe-net) 10653. Power Level to which restricted (if any): N/A

4. Reasons for restrictions (if any):

	<u>This Month</u>	<u>Yr-To-Date</u>	<u>Cumulative To Date</u>
5. Hours Reactor Was Critical	<u>712.85</u>	<u>4093.24</u>	<u>11,187.75</u>
6. Reactor Reserve Shutdown Hours	<u>7.15</u>	<u>249.76</u>	<u>4,041.10</u>
7. Hours Generator On-Line	<u>709.57</u>	<u>4031.88</u>	<u>10,857.67</u>
8. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
9. Gross Thermal Power Generated (MWH)	<u>1,998,466</u>	<u>11,106,428</u>	<u>27,886,338</u>
10. Gross Electrical Power Generated (MWH)	<u>664,440</u>	<u>3,718,720</u>	<u>9,326,670</u>
11. Net Electrical Power Generated (MWH)	<u>641,113</u>	<u>3,610,722</u>	<u>9,055,807</u>
12. Reactor Service Factor	<u>99.0</u>	<u>94.2</u>	<u>43.8</u>
13. Reactor Available Factor	<u>100</u>	<u>100</u>	<u>59.6</u>
14. Unit Service Factor	<u>98.6</u>	<u>92.8</u>	<u>42.5</u>
15. Unit Availability Factor	<u>98.6</u>	<u>92.8</u>	<u>42.5</u>
16. Unit Capacity Factor (using MDC)	<u>83.6</u>	<u>78.1</u>	<u>33.3</u>
17. Unit Capacity Factor (using Design MWe)	<u>83.6</u>	<u>78.1</u>	<u>33.3</u>
18. Forced Outage Rate	<u>1.4</u>	<u>6.3</u>	<u>54.0</u>
19. Shutdowns scheduled to begin in next 6 months (state type, date and duration of each):			

Refueling outage, September, 1977

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

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

	<u>Forecast</u>	<u>Achieved</u>
Initial Criticality	_____	_____
Initial Electrical Power Generation	_____	_____
Commercial Operation	_____	_____

## SUMMARY:

Unit operated at an average  
load of 936 MWe

UNIT NAME Browns FerryDATE 7-7-77COMPLETED BY Harold WallsREPORT MONTH June

## PLANT SHUTDOWNS

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	COMMENTS
13	770606	F	10.43	A	C	EHC System malfunction
14	770628	F				Derated for river water temp. limitations.
						(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 1DATE 7-7-77COMPLETED BY Harold Walls.DAILY UNIT POWER OUTPUTMONTH June 1977

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>1009</u>	25	<u>929</u>
2	<u>1021</u>	26	<u>770</u>
3	<u>1029</u>	27	<u>703</u>
4	<u>990</u>	28	<u>604</u>
5	<u>986</u>	29	<u>531</u>
6	<u>792</u>	30	<u>542</u>
7	<u>356</u>	31	<u>      </u>
8	<u>723</u>		
9	<u>970</u>		
10	<u>1001</u>		
11	<u>936</u>		
12	<u>1001</u>		
13	<u>1001</u>		
14	<u>998</u>		
15	<u>1002</u>		
16	<u>998</u>		
17	<u>1019</u>		
18	<u>947</u>		
19	<u>992</u>		
20	<u>997</u>		
21	<u>977</u>		
22	<u>965</u>		
23	<u>962</u>		
24	<u>950</u>		

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

UNIT NAME Browns Ferry II  
DATE 7-7-77  
COMPLETED BY: Harold Walls  
TELEPHONE 729-6846

OPERATING STATUS:

1. Reporting Period: 0000770601 to 2400770630

Gross Hours in Reporting Period: 720

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

Max. Depend. capacity (MWe-net) 1065

3. Power Level to which restricted (if any): N/A

4. Reasons for restrictions (if any):

	This Month	Yr-To-Date	Cumulative To Date
5. Hours Reactor Was Critical	713.83	4,123.22	7,477.04
6. Reactor Reserve Shutdown Hours	6.17	219.78	10,593.96
7. Hours Generator On-Line	712.38	4,042.00	7,107.73
8. Unit Reserve Shutdown Hours	0	0	0
9. Gross Thermal Power Generated (MWH)	1,967.342	11,506.099	18,146.560
10. Gross Electrical Power Generated (MWH)	651.930	3,792.610	5,971.000
11. Net Electrical Power Generated (MWH)	630.646	3,686.791	5,804.577
12. Reactor Service Factor	99.1	94.9	36.5
13. Reactor Available Factor	100	100	88.3
14. Unit Service Factor	98.9	93.1	34.7
15. Unit Availability Factor	98.9	93.1	34.7
16. Unit Capacity Factor (using MDC)	82.2	79.7	26.6
17. Unit Capacity Factor (using Design MWe)	82.2	79.7	26.6
18. Forced Outage Rate	1.1	6.9	62.4

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

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 915 MWe

UNIT NAME Browns Ferry IIDATE 7-7-77COMPLETED BY Harold WallsREPORT MONTH June

## PLANT SHUTDOWNS

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	COMMENTS
12	770611	F	7.62	A	B	EHC oil leak
13	770610	F		A		Derated for recirc. pump maintenance
14	770611	F		A		Derated for recirc. pump maintenance
15	770624	F				Rod swap

(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 2DATE 7-7-77COMPLETED BY Harold WallsDAILY UNIT POWER OUTPUTMONTH June 1977

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>1037</u>	25	<u>442</u>
2	<u>1020</u>	26	<u>537</u>
3	<u>1029</u>	27	<u>562</u>
4	<u>1002</u>	28	<u>666</u>
5	<u>999</u>	29	<u>753</u>
6	<u>990</u>	30	<u>848</u>
7	<u>996</u>	31	<u>      </u>
8	<u>1018</u>		
9	<u>1010</u>		
10	<u>801</u>		
11	<u>337</u>		
12	<u>553</u>		
13	<u>927</u>		
14	<u>1031</u>		
15	<u>1024</u>		
16	<u>1058</u>		
17	<u>1000</u>		
18	<u>917</u>		
19	<u>1013</u>		
20	<u>1023</u>		
21	<u>1014</u>		
22	<u>1010</u>		
23	<u>1005</u>		
24	<u>610</u>		

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

UNIT NAME Browns Ferry III  
DATE 7-7-77  
COMPLETED BY: Harold Walls  
TELEPHONE 729-6846

OPERATING STATUS:

1. Reporting Period: 0000770601 to 2400770630  
Gross Hours in Reporting Period: 720  
2. Currently Authorized Power Level MWe 3293 MWe-net 1065  
Max. Depend. capacity (MWe-net) 1065  
3. Power Level to which restricted (if any): N/A  
4. Reasons for restrictions (if any):

	This Month	Yr-To-Date	Cumulative To Date
5. Hours Reactor Was Critical	654.02	2,674.20	2,674.20
6. Reactor Reserve Shutdown Hours	65.98	252.80	252.80
7. Hours Generator On-Line	643.0	2,607.15	2,607.15
8. Unit Reserve Shutdown Hours	0	0	0
9. Gross Thermal Power Generated (MWH)	1,820,360	7,458,944	7,458,944
10. Gross Electrical Power Generated (MWH)	578,030	2,432,370	2,432,370
11. Net Electrical Power Generated (MWH)	558,387	2,356,448	2,356,448
12. Reactor Service Factor	90.8	91.4	91.4
13. Reactor Available Factor	100	100	100
14. Unit Service Factor	89.3	89.1	89.1
15. Unit Availability Factor	89.3	89.1	89.1
16. Unit Capacity Factor (using MDC)	72.8	75.6	75.6
17. Unit Capacity Factor (using Design MWe)	72.8	75.6	75.6
18. Forced Outage Rate	10.7	10.9	10.9
19. Shutdowns scheduled to begin in next 6 months (state type, date and duration of each):	N A		

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 899 MWe

UNIT NAME Browns Ferry IIIDATE 7-7-77COMPLETED BY Harold WallsREPORT MONTH June

## PLANT SHUTDOWNS

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	COMMENTS
14	770617	F	64.57	B	B	Maintenance outage
15	770624	F	12.43	A	C	Main steam high flow ann.
16	770626	F				Cooling tower lineup
17	770628	F				River temp. limitations
						(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 3DATE 7-7-77COMPLETED BY Harold WallsDAILY UNIT POWER OUTPUTMONTH June 1977

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>967</u>	25	<u>558</u>
2	<u>976</u>	26	<u>781</u>
3	<u>988</u>	27	<u>685</u>
4	<u>961</u>	28	<u>555</u>
5	<u>937</u>	29	<u>636</u>
6	<u>998</u>	30	<u>556</u>
7	<u>975</u>	31	<u>      </u>
8	<u>1002</u>		
9	<u>1023</u>		
10	<u>1021</u>		
11	<u>887</u>		
12	<u>958</u>		
13	<u>986</u>		
14	<u>986</u>		
15	<u>980E</u>		
16	<u>972</u>		
17	<u>464</u>		
18	<u>-10</u>		
19	<u>-10</u>		
20	<u>230</u>		
21	<u>675</u>		
22	<u>902</u>		
23	<u>971</u>		
24	<u>597</u>		

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

E=Estimate