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DESCRIPTION

LETTER TRANS THE FOLLOWING:

PLANT NAME: BROWNS FERRY # 1 & 2 & 3

ENCLOSURE

MONTHLY REPORT FOR NOVEMBER 1976
PLANT & COMPONENT OPERABILITY &
AVAILABILITY. THIS REPORT TO BE USED IN
PREPARING GRAY BOOK BY PLANS & OPERATIONS.

DO NOT REMOVE

ACKNOWLEDGED

SAFETY

FOR ACTION/INFORMATION

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Browns Ferry Nuclear Plant

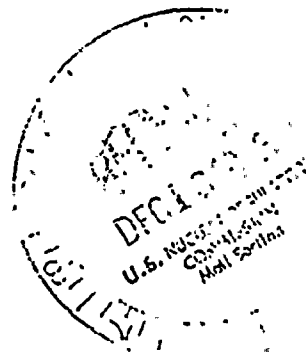
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December 9, 1976

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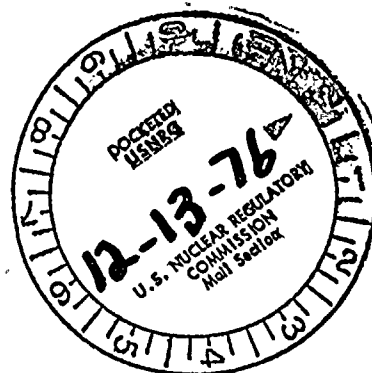
Gentlemen:

Enclosed is the November 1976 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
H. J. Green
Plant Superintendent



Enclosures: 2

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
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1. 2. 3. 4. 5. 6. 7. 8. 9. 10.



UNIT NAME Browns Ferry I
DATE 12/6/76
COMPILED BY: Harold Walls
TELEPHONE (205) 729-6202

OPERATING STATUS:

1. Reporting Period: 0000761101 to 2400761130

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	<u>665.75</u>	<u>1,591.19</u>	<u>6,350.51</u>
6. Reactor Reserve Shutdown Hours	<u>54.25</u>	<u>3,185.81</u>	<u>3,791.34</u>
7. Hours Generator On-Line	<u>652.65</u>	<u>1,431.23</u>	<u>6,081.79</u>
8. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
9. Gross Thermal Power Generated (MWH)	<u>1,137,048</u>	<u>2,063,158</u>	<u>14,808,238</u>
10. Gross Electrical Power Generated (MWH)	<u>369,850</u>	<u>680,220</u>	<u>4,942,620</u>
11. Net Electrical Power Generated (MWH)	<u>359,137</u>	<u>651,085</u>	<u>4,794,987</u>
12. Reactor Service Factor	<u>92.5</u>	<u>19.8</u>	<u>31.0</u>
13. Reactor Available Factor	<u>100</u>	<u>59.4</u>	<u>49.5</u>
14. Unit Service Factor	<u>90.6</u>	<u>17.8</u>	<u>29.7</u>
15. Unit Availability Factor	<u>90.6</u>	<u>17.8</u>	<u>29.7</u>
16. Unit Capacity Factor (using MDC)	<u>46.8</u>	<u>7.6</u>	<u>22.0</u>
17. Unit Capacity Factor (using Design MWe)	<u>46.8</u>	<u>7.6</u>	<u>22.0</u>
18. Forced Outage Rate	<u>9.4</u>	<u>79.0</u>	<u>67.3</u>
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:

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

REMARKS:

Fuel preconditioning to test
condition 4E-continued.

UNIT NAME BROWN PERRY 1

DATE 12/6/76

COMPLETED BY Harold Walls

REPORT MONTH November

PLANT SHUTDOWNS

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	COMMENTS
9	761117	F	52.83	B	C	
10	761124	F	14.52	A	C	Loss of control air
(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

1

DATE

12/4/76

COMPLETED BY

Jim Steele

DAILY UNIT POWER OUTPUTMONTH November 1976

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>557</u>	25	<u>229</u>
2	<u>452</u>	26	<u>339</u>
3	<u>328</u>	27	<u>441</u>
4	<u>369</u>	28	<u>432</u>
5	<u>453</u>	29	<u>553</u>
6	<u>203</u>	30	<u>635</u>
7	<u>887</u>	31	<u> </u>
8	<u>586</u>		
9	<u>794</u>		
10	<u>711E</u>		
11	<u>804</u>		
12	<u>836</u>		
13	<u>834</u>		
14	<u>822</u>		
15	<u>819</u>		
16	<u>814</u>		
17	<u>74</u>		
18	<u>-8</u>		
19	<u>175</u>		
20	<u>349</u>		
21	<u>462</u>		
22	<u>429</u>		
23	<u>458</u>		
24	<u>262</u>		

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

E - Estimate

UNIT NAME Browns Ferry IIDATE 12/6/76COMPLETED BY: Harold WallsTELEPHONE (205) 729-6202OPERATING STATUS:1. Reporting Period: 0000761101 to 2400761130Gross Hours in Reporting Period: 7202. Currently Authorized Power Level MWh 3293 MWe-net 1065Max. Depend. capacity (MWe-net) 10653. 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	705.93	2,152.19	2,669.19
6. Reactor Reserve Shutdown Hours	14.07	5,887.81	10,314.81
7. Hours Generator On-Line	696.93	1,881.28	2,398.28
8. Unit Reserve Shutdown Hours	0	0	0
9. Gross Thermal Power Generated (MWH)	1,608,264	3,456,417	5,146,809
10. Gross Electrical Power Generated (MWH)	529,430	1,112,170	1,678,310
11. Net Electrical Power Generated (MWH)	516,285	1,080,398	1,631,014
12. Reactor Service Factor	98.0	26.8	17.3
13. Reactor Available Factor	100	100	84.4
14. Unit Service Factor	96.8	23.4	15.6
15. Unit Availability Factor	96.8	23.4	15.6
16. Unit Capacity Factor (using MDC)	67.3	12.6	10.0
17. Unit Capacity Factor (using Design MWe)	67.3	12.6	10.0
18. Forced Outage Rate	3.2	70.1	82.4

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		

UNIT NAME Brown Perry II
DATE 12/6/76
COMPLETED BY Harold Walls

PLANT SHUTDOWNS.

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	COMMENTS
	761117	F	23.07	A	C	SFAE pressure regulator failure
						<p>(1) REASON:</p> <p>A-EQUIPMENT FAILURE (EXPLAIN)</p> <p>B-MAINT, OR TEST</p> <p>C-REFUELING</p> <p>D-REGULATORY RESTRICTION</p> <p>E-OPERATOR TRAINING AND LICENSING EXAMINATION</p> <p>F-ADMINISTRATIVE</p> <p>G-OPERATIONAL ERROR. (EXPLAIN)</p>
						<p>(2) METHOD:</p> <p>A-MANUAL</p> <p>B-MANUAL SCRAM</p> <p>C-AUTOMAT SCRAM</p>



UNIT

2

DATE

12/4/76

COMPLETED BY

Jim Steele

DAILY UNIT POWER OUTPUTMONTH November

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>521</u>	25	<u>890</u>
2	<u>571</u>	26	<u>965</u>
3	<u>511</u>	27	<u>695</u>
4	<u>628</u>	28	<u>76</u>
5	<u>675</u>	29	<u>336</u>
6	<u>1061</u>	30	<u>402</u>
7	<u>452</u>	31	<u> </u>
8	<u>820</u>		
9	<u>850</u>		
10	<u>846</u>		
11	<u>824</u>		
12	<u>806</u>		
13	<u>806E</u>		
14	<u>570</u>		
15	<u>619</u>		
16	<u>570</u>		
17	<u>753</u>		
18	<u>782</u>		
19	<u>850</u>		
20	<u>940</u>		
21	<u>960E</u>		
22	<u>851</u>		
23	<u>902</u>		
24	<u>845</u>		

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

E - Estimate

UNIT NAME Browns Ferry IIIDATE 12/6/76COMPLETED BY: Harold WallsTELEPHONE (205) 729-6202OPERATING STATUS:1. Reporting Period: 0000761101 to 2400761130Gross Hours in Reporting Period: 7202. Currently Authorized Power Level Mwt 3293 MWe-net 1065Max. Depend. capacity (MWe-net) 10653. 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	630.58	1,645.91	1,645.91
6. Reactor Reserve Shutdown Hours	36.80	214.87	214.87
7. Hours Generator On-Line	603.50	1,441.30	1,441.30
8. Unit Reserve Shutdown Hours	0	0	0
9. Gross Thermal Power Generated (MTH)	1,593,768	2,753,206	2,753,206
10. Gross Electrical Power Generated (MWH)	526,170	806,170	806,170
11. Net Electrical Power Generated (MWH)	512,830	817,100	817,100
12. Reactor Service Factor	87.6	86.0	86.0
13. Reactor Available Factor	92.7	97.2	97.2
14. Unit Service Factor	83.8	75.3	75.3
15. Unit Availability Factor	83.8	75.3	75.3
16. Unit Capacity Factor (using MDC)	66.9	40.1	40.1
17. Unit Capacity Factor (using Design MWe)	66.9	40.1	40.1
18. Forced Outage Rate	6.2	10.8	10.8

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		



Startup test continued

DATE 12/6/76

COMPLETED BY Harold Walls

REPORT MONTH November

PLANT SHUTDOWNS

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	COMMENTS
11	761101	F	7.70	A	C	Recirc M-G set failure
12	761109	S	62.63	B	C	
13	761116	F	20.20	A	C	MSIV control failure during SI 4.1.A-10
14	761125	S	13.88	B	C	
15	761127	F	12.00	B	C	
						(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

3

DATE

12/4/76

COMPLETED BY

Jim Steele

DAILY UNIT POWER OUTPUTMONTH November

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>284</u>	25	<u>539</u>
2	<u>742</u>	26	<u>335</u>
3	<u>814</u>	27	<u>294</u>
4	<u>805</u>	28	<u>637</u>
5	<u>814</u>	29	<u>925</u>
6	<u>831</u>	30	<u>1061</u>
7	<u>782</u>	31	<u> </u>
8	<u>893</u>		
9	<u>865</u>		
10	<u>-11</u>		
11	<u>-11</u>		
12	<u>337</u>		
13	<u>786</u>		
14	<u>931</u>		
15	<u>1005</u>		
16	<u>568</u>		
17	<u>251</u>		
18	<u>864E</u>		
19	<u>990</u>		
20	<u>1026E</u>		
21	<u>1080E</u>		
22	<u>871</u>		
23	<u>1080E</u>		
24	<u>1080E</u>		

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

E - Estimate

