

Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381-2000

John A. Scalice Site Vice President, Watts Bar Nuclear Plant

MAR 1 7 1997

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D.C. 20555

Gentlemen:

In the Matter of ) Docket No. 50-390 Tennessee Valley Authority )

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1 - FEBRUARY 1997 MONTHLY OPERATING REPORT

The enclosure provides the February 1997 Monthly Operating Report as required by WBN Technical Specification 5.9.4. Also included is a revised January 1997 summary sheet to reflect the adjustment in the maximum dependable capacity, from 1122 to 1117 (Net MWe).

If you have any questions concerning this matter, please call  $P.\ L.\ Pace$  at (423) 365-1824.

Sincerely,

J. A. Scalice

Enclosure

cc: See page 2

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# cc (Enclosure):

NRC Resident Inspector Watts Bar Nuclear Plant 1260 Nuclear Plant Road Spring City, Tennessee 37381

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U.S. Nuclear Regulatory Commission Region II 101 Marietta Street, NW, Suite 2900 Atlanta, Georgia 30323

# ENCLOSURE

TENNESSEE VALLEY AUTHORITY WATTS BAR NUCLEAR PLANT UNIT 1

MONTHLY OPERATING REPORT

TO THE

NUCLEAR REGULATORY COMMISSION

FEBRUARY 1997

UNIT 1
DOCKET NUMBER 50-390
LICENSE NUMBER NPF-90

# OPERATIONAL SUMMARY FEBRUARY 1997

### WATTS BAR NUCLEAR PLANT UNIT 1

Watts Bar Nuclear Plant Unit 1 began February 1997 with the reactor critical and the generator off line for condenser maintenance. The unit was synchronized to the grid at 03:33 on February 1. The unit achieved full power on February 5 and operated at or near full power until February 18. On February 18, power reduction to approximately 40% was initiated for plugging of a leaking condenser tube.

Following condenser maintenance, power ascension began on February 20 and full power was achieved on February 21. The unit operated at or near full power for the remainder of the month.

CHALLENGES TO THE PRESSURIZER POWER OPERATED RELIEF VALVES OR PRESSURIZER SAFETY VALVES

There were no challenges to the pressurizer power operated relief valves or pressurizer safety valves during the month of February 1997.

### AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-390 UNIT No. One DATE: 3/3/97 COMPLETED BY: Randy D. Tolley TELEPHONE: (423) 365-3550 MONTH: February 1997 AVERAGE DAILY POWER LEVEL AVERAGE DAILY POWER LEVEL DAY (MWe-Net) DAY (MWe-Net) 278.7 1149.3 891.3 18 1131.5 19 534.7 1103.2 1096.0 20 \_\_\_\_839.8 1126.5 5 21 \_\_\_\_\_1118.0 1150.2 22 \_\_\_\_ 1143.2 7 23 1144.9 1147.9 1131.0 24 \_\_\_\_\_1124.7 1139.6 25 \_\_\_\_\_1134.4 10 \_\_\_\_\_1155.8\_\_\_\_ 26 \_\_\_\_\_1123.7\_\_\_ 11 \_\_\_\_\_1155.0 27 1106.9 12 \_\_\_\_\_1151.3 28 1114.9 13 \_\_1150.2 14 \_\_\_\_\_1147.4 15 \_\_\_\_\_150.2 16 \_\_\_\_\_1149.5

# OPERATING DATA REPORT

DOCKET NO.: 50-390
DATE: 3/3/97
COMPLETED BY: R. D. Tolley TELEPHONE: (423)365-3550

## OPERATING STATUS

1. Unit Name: Watts Bar Unit One

2. Reporting Period: February 1997

3. Licensed Thermal Power (MWt): 3411

4. Nameplate Rating (Gross MWe): 1269.8

5. Design Electrical Rating (Net MWe): 1160

6. Maximum Dependable Capacity (Gross MWe): 1172

7. Maximum Dependable Capacity (Net MWe): 1117

- 8. If Changes Occur in Capacity Ratings (Item Numbers 3 through 7) Since Last Report, Give Reasons: Items 6 and 7 revised to more accurately reflect actual plant operating capacities.
- 9. Power Level To Which Restricted, If Any (Net MWe): N/A
- 10. Reasons for Restrictions, If Any: N/A

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	672.0	1416.0	6673.0
12. Number of Hours Reactor Was Critical	672.0	1287.5	6112.9
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	668.5	1263.3	6067.5
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWh)	2147746	4104385	19935287
17. Gross Electrical Energy Generated (MWh)	749594	1441137	6851682
18. Net Electrical Energy Generated (MWh)	714955	1367859	6509252
19. Unit Service Factor	99.5	89.2	90.9
20. Unit Availability Factor	99.5	89.2	90.9
21. Unit Capacity Factor (Using MDC Net)	95.2	86.5	87.3
22. Unit Capacity Factor (Using DER Net)	91.7	83.3	84.1
23. Unit Forced Outage Rate	0.5	10.8	2.6

- 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): N/A
- 25. If Shut Down at End of Report Period, Estimated Date of Startup: N/A

### REVISED OPERATING DATA REPORT

DOCKET NO.: 50-390
DATE: 3/3/97
COMPLETED BY: R. D. Tolley

TELEPHONE: (423)365-3550

#### OPERATING STATUS

1. Unit Name: Watts Bar Unit One

2. Reporting Period: January 1997

3. Licensed Thermal Power (MWt): 3411

4. Nameplate Rating (Gross MWe): 1269.8

5. Design Electrical Rating (Net MWe): 1160

6. Maximum Dependable Capacity (Gross MWe): 1172

7. Maximum Dependable Capacity (Net MWe): 1117

- 8. If Changes Occur in Capacity Ratings (Item Numbers 3 through 7) Since Last Report, Give Reasons: Items 6 and 7 have been revised principally due to a thermal performance improvement achieved by identifying and isolating a leakage path through the feedwater long cycle recirculation line.
- 9. Power Level To Which Restricted, If Any (Net MWe): N/A
- 10. Reasons for Restrictions, If Any: N/A

•	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	744.0	744.0	6001.0
12. Number of Hours Reactor Was Critical	615.5	615.5	5440.9
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	594.9	594.9	5399.0
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWh)	1956638	1956638	17787540
17. Gross Electrical Energy Generated (MWh)	691543	691543	6102088
18. Net Electrical Energy Generated (MWh)	652904	652904	5794297
19. Unit Service Factor	80.0	80.0	90.0
20. Unit Availability Factor	80.0	80.0	90.0
21. Unit Capacity Factor (Using MDC Net)	78.6	78.6	86.4
22. Unit Capacity Factor (Using DER Net)	75.7	75.7	83.2
23. Unit Forced Outage Rate	20.0	20.0	2.9

- 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): N/A
- 25. If Shut Down at End of Report Period, Estimated Date of Startup: N/A

#### UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: February 1997

DOCKET NO: 50-390 UNIT NAME: WBN-1 DATE: 3/3/97

R. D. Tolley COMPLETED BY: (423)365-3550 TELEPHONE:

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause and Corrective Action to Prevent Recurrence
25	970127	F	3.5	А .	1	N/A	SG	TBG	Forced outage caused by a ruptured condenser tube. Corrective action involved the plugging of the ruptured tube and additional tubes in the area adjacent to the ruptured tube.
26	970218	F	0	А	5	N/A	SG	TBG	Power reduced to approximately 40% for condenser tube plugging.

<sup>1</sup>F: Forced S: Scheduled

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)

<sup>3</sup>Method

1-Manual

2-Manual Scram

3-Automatic Scram

4-Continuation of Existing Outage

5-Reduction

9-Other

<sup>4</sup>Exhibit G - Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) File

(NUREG - 1022)

<sup>5</sup>Exhibit I-Same Source