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

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

July 7, 1997

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

Gentlemen:

In the Matter of)
Tennessee Valley Authority)

Docket No. 50-390

WATTS BAR NUCLEAR PLANT (WBN) - JUNE 1997 MONTHLY OPERATING REPORT

The enclosure provides the June 1997 Monthly Operating Report as required by WBN Technical Specification Section 5.9.4.

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

Sincerely,

R. Purcell for
J. A. Scalice

Enclosure
cc: See page 2

1/1
IE24

9707250246 970630
PDR ADOCK 05000390
R PDR

PLP:RAS
cc (Enclosure):

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

Mr. Robert E. Martin, Senior Project Manager
U.S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike
Rockville, Maryland 20852

U.S. Nuclear Regulatory Commission
Region II
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, Georgia 30323

ENCLOSURE

TENNESSEE VALLEY AUTHORITY

WATTS BAR NUCLEAR PLANT (WBN)

MONTHLY OPERATING REPORT

JUNE 1997

UNIT 1

DOCKET NUMBER 50-390

LICENSE NUMBER NPF-90

OPERATIONAL SUMMARY
JUNE 1997

I. WATTS BAR UNIT 1 OPERATIONAL SUMMARY

Watts Bar Nuclear Plant Unit 1 began June 1997 at full power. The unit operated at or near full power until June 17. At 06:35 on June 17, unit power was reduced to 80 percent due to Main Feedwater Pump B shaft failure. Full power operation was resumed at 18:44 on June 30. The unit operated at or near full power for the remainder of the month.

II. 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 June 1997.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-390 UNIT NO. ONE DATE: July 2, 1997

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

MONTH: June 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	1120.8	17.	931.1
2.	1124.7	18.	879.6
3.	1125.3	19.	887.1
4.	1122.4	20.	883.0
5.	1131.2	21.	883.4
6.	1131.9	22.	883.8
7.	1132.5	23.	881.1
8.	1131.9	24.	882.0
9.	1132.1	25.	881.5
10.	1126.1	26.	884.2
11.	1122.8	27.	930.4
12.	1114.6	28.	877.6
13.	1112.9	29.	848.6
14.	1117.2	30.	995.4
15.	1116.8		
16.	1113.1		

OPERATING DATA REPORT

Docket No.	50-390
Date:	July 2, 1997
Completed By:	R. D. Tolley
Telephone:	(423) 365-3550

1. Unit Name: **WBN Unit 1**
2. Reporting Period: **June 1997**
3. Licensed Thermal Power (MWt): **3411**
4. Nameplate Rating (Gross Mwe): **1269.8**
5. Design Electrical Rating (Net Mwe): **1150.9**
6. Maximum Dependable Capacity (Gross MWe): **1172**
7. Maximum Dependable Capacity (Net MWe): **1117**
8. If changes Occur in Capacity Rating (Item Numbers 3 & 7) Since Last Report, Give Reasons: **N/A**
9. Power Level To Which Restricted, If any (net MWe): **N/A**
10. Reasons for Restrictions, If any: **N/A**

		This Month	Year-to-Date	Cumulative
11.	Hours in Reporting Period	720.0	4343.0	9600.0
12.	Number of Hours Reactor was Critical	720.0	3960.6	8786.0
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator On-Line	720.0	3920.0	8724.2
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWh)	2237128	12742579	28573481
17.	Gross Electric Energy Generated (MWh)	770777	4449304	9859849
18.	Net Electrical Energy Generated (MWh)	732119	4223719	9365112
19.	Unit Service Factor	100.0	90.3	90.9
20.	Unit Availability Factor	100.0	90.3	90.9
21.	Unit Capacity Factor (Using MDC Net)	91.0	87.1	87.3
22.	Unit Capacity Factor (Using DER Net)	88.4	84.5	84.8
23.	Unit Forced Outage Rate	0.0	9.7	4.7

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): **Refueling Outage, 9/5/97, 40 days**

25. If Shutdown at End of Report Period, Estimate Date of Startup: **N/A**

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: June 1997

DOCKET NO: **50-390**
UNIT NAME: **WBN-1**
DATE: **7/2/97**
COMPLETED BY: **R. D. Tolley**
TELEPHONE: **(423) 365-3550**

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report No.	System Code[4]	Component Code[5]	Cause and Corrective Action to Prevent Recurrence
31	970617	F	0.0	A	5	N/A	SJ	P	Power reduction due to main feedwater pump B shaft failure. The cause for the failure was determined to be corrosion assisted fatigue. The shaft was replaced. New shaft was machined with radius at keyway edge. New alignment tolerances were obtained from the vendor. TVA is currently pursuing shafts made of more corrosion resistant/robust design.

[1] **F: Force**
S: Scheduled

[2] **Reason:**
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] **Exhibit G - Instructions for (NUREG Preparation of Data Entry sheets for Licensee Event Report (LER) File - NUREG - 1022**

[5] **Exhibit I-Same Source**