



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

JUN 08 1999

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) - MAY 1999 MONTHLY OPERATING  
REPORT

The enclosure provides the May 1999 Monthly Operating  
Report as required by WBN Technical Specification  
Section 5.9.4.

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

Sincerely,

P. L. Pace  
Manager, Licensing and Industry Affairs

Enclosure  
cc: See Page 2

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PDR ADOCK 05000390  
R PDR

U.S. Nuclear Regulatory Commission

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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., Suite 23T85  
Atlanta, Georgia 30303

ENCLOSURE

TENNESSEE VALLEY AUTHORITY  
WATTS BAR NUCLEAR PLANT (WBN)  
MONTHLY OPERATING REPORT  
MAY 1999

UNIT 1

DOCKET NUMBER 50-390

LICENSE NUMBER NPF-90

**OPERATIONAL SUMMARY  
MAY 1999**

**I. WATTS BAR UNIT 1 OPERATIONAL SUMMARY**

Watts Bar Nuclear Plant Unit 1 began May 1999 at full power and operated at or near full power for the duration of the entire 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 May 1999.

## AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-390 UNIT NO. ONE DATE: June 2, 1999

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

MONTH: May 1999

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	1140.1	17.	1123.8
2.	1142.9	18.	1124.4
3.	1130.7	19.	1134.0
4.	1128.9	20.	1125.2
5.	1125.4	21.	1119.8
6.	1123.9	22.	1118.9
7.	1129.4	23.	1119.7
8.	1135.2	24.	1129.2
9.	1127.2	25.	1140.6
10.	1134.2	26.	1127.1
11.	1117.6	27.	1130.2
12.	1122.8	28.	1138.5
13.	1129.4	29.	1124.6
14.	1126.7	30.	1113.2
15.	1131.6	31.	1133.2
16.	1125.1		

## OPERATING DATA REPORT

Docket No. **50-390**  
 Date: **June 2, 1999**  
 Completed By: **R. D. Tolley**  
 Telephone: **(423) 365-3550**

- |   |                          |
|---|--------------------------|
| 1. Unit Name:   | <b><u>WBN Unit 1</u></b> |
| 2. Reporting Period:  | <b><u>May 1999</u></b>   |
| 3. Licensed Thermal Power (MWt):  | <b><u>3411</u></b>       |
| 4. Nameplate Rating (Gross Mwe):  | <b><u>1269.8</u></b>     |
| 5. Design Electrical Rating (Net Mwe):  | <b><u>1150.9</u></b>     |
| 6. Maximum Dependable Capacity (Gross MWe):   | <b><u>1173</u></b>       |
| 7. Maximum Dependable Capacity (Net MWe):   | <b><u>1118</u></b>       |
| 8. If changes Occur in Capacity Rating<br>(Item Numbers 3 through 7) Since Last Report, Give Reasons: |                          |
| 9. Power Level To Which Restricted, If any (net MWe):   | <b><u>N/A</u></b>        |
| 10. Reasons for Restrictions, If any:   | <b><u>N/A</u></b>        |

	<b>This Month</b>	<b>Year-to-Date</b>	<b>Cumulative</b>
11. Hours in Reporting Period	744	3623	26400
12. Number of Hours Reactor was Critical	744	2505.9	23356.4
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	744	2469.3	23218.0
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWh)	2454763	7323204	75285518
17. Gross Electric Energy Generated (MWh)	877729	2592532	26159810
18. Net Electrical Energy Generated (MWh)	839358	2454084	24876550
19. Unit Service Factor	100.0	68.16	87.95
20. Unit Availability Factor	100.0	68.16	87.95
21. Unit Capacity Factor (Using MDC Net)	100.91	60.64	84.28
22. Unit Capacity Factor (Using DER Net)	98.02	58.86	81.87
23. Unit Forced Outage Rate	0.0	0.0	2.19
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	See Note below.		
25. If Shutdown at End of Report Period, Estimate Date of Startup:	See Note below.		

Note: In accordance with Generic Letter 97-02, this information is currently not needed by NRC.

**UNIT SHUTDOWNS AND POWER REDUCTIONS  
REPORT MONTH: MAY 1999**

DOCKET NO: 50-390  
 UNIT NAME: WBN-1  
 DATE: June 2, 1999  
 COMPLETED BY: R. D. Tolley  
 TELEPHONE: (423) 365-3550

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>4</sup>	Cause and Corrective Action to Prevent Recurrence
									No significant power reductions or shutdowns occurred during this reporting period.

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

<sup>2</sup> **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)

<sup>3</sup> **Method**  
 1-Manual  
 2-Manual Scram  
 3-Automatic Scram  
 4-Continuation of Existing Outage  
 5-Reduction  
 9-Other

<sup>4</sup> **Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) (NUREG - 1022)**