



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

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

NOV 13 1996

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

Gentlemen:

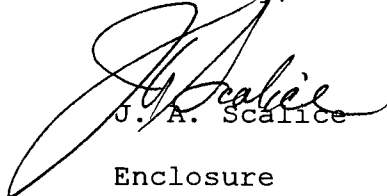
In the Matter of )  
Tennessee Valley Authority ) Docket No. 50-390

WATTS BAR NUCLEAR PLANT (WBN) - OCTOBER 1996 MONTHLY OPERATING  
REPORT

The enclosure provides the October 1996 Monthly Operating Report  
as required by WBN Technical Specification 5.9.4.

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):

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ENCLOSURE

TENNESSEE VALLEY AUTHORITY  
WATTS BAR NUCLEAR PLANT UNIT 1

MONTHLY OPERATING REPORT  
TO THE  
NUCLEAR REGULATORY COMMISSION  
OCTOBER 1996

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

OPERATIONAL SUMMARY  
OCTOBER 1996  
UNIT 1

Watts Bar Nuclear Plant Unit 1 began October in a planned maintenance outage. Following the outage, criticality was achieved at 0408 on October 16, and the generator was synchronized to the grid at 1346 on October 16. Turbine trip tests were conducted on the morning of October 17, and the generator was again synchronized to the grid at 0244 on October 17. The unit achieved full power operation on October 19. On October 20, WBN successfully conducted a 50 percent load reduction test. Following this test, the unit returned to full power on October 20 and 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 October 1996.

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-390 UNIT No. One DATE: 11/6/96

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

MONTH: October 1996

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) |
|-----|--|
| 1   | 0                                      |
| 2   | 0                                      |
| 3   | 0                                      |
| 4   | 0                                      |
| 5   | 0                                      |
| 6   | 0                                      |
| 7   | 0                                      |
| 8   | 0                                      |
| 9   | 0                                      |
| 10  | 0                                      |
| 11  | 0                                      |
| 12  | 0                                      |
| 13  | 0                                      |
| 14  | 0                                      |
| 15  | 0                                      |
| 16  | 36.7                                   |

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) |
|-----|--|
| 17  | 157.1                                  |
| 18  | 514.8                                  |
| 19  | 1104.3                                 |
| 20  | 925.9                                  |
| 21  | 1132.6                                 |
| 22  | 1132.6                                 |
| 23  | 1134.3                                 |
| 24  | 1135.6                                 |
| 25  | 1135.7                                 |
| 26  | 1112.1                                 |
| 27  | 1120.2                                 |
| 28  | 1111.2                                 |
| 29  | 1105.0                                 |
| 30  | 1112.1                                 |
| 31  | 1126.4                                 |

# OPERATING DATA REPORT

DOCKET NO.: 50-390  
 DATE: 11/6/96  
 COMPLETED BY: R. D. Tolley  
 TELEPHONE: (423) 365-3550

## OPERATING STATUS

1. Unit Name: Watts Bar Unit One
2. Reporting Period: October 1996
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): 1150
7. Maximum Dependable Capacity (Net MWe): 1095
8. If Changes Occur in Capacity Ratings (Item Numbers 3 through 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     | Yr-to-Date      | Cumulative      |
|--|----------------|-----------------|-----------------|
| 11. Hours in Reporting Period  | <u>745.0</u>   | <u>3793.0</u>   | <u>3793.0</u>   |
| 12. Number of Hours Reactor Was Critical                                       | <u>380.9</u>   | <u>3361.4</u>   | <u>3361.4</u>   |
| 13. Reactor Reserve Shutdown Hours   | <u>0.0</u>     | <u>0.0</u>      | <u>0.0</u>      |
| 14. Hours Generator On-Line  | <u>369.0</u>   | <u>3340.1</u>   | <u>3340.1</u>   |
| 15. Unit Reserve Shutdown Hours  | <u>0.0</u>     | <u>0.0</u>      | <u>0.0</u>      |
| 16. Gross Thermal Energy Generated (MWh)                                       | <u>1114619</u> | <u>11105548</u> | <u>11105548</u> |
| 17. Gross Electrical Energy Generated (MWh)                                    | <u>382915</u>  | <u>3754246</u>  | <u>3754246</u>  |
| 18. Net Electrical Energy Generated (MWh)                                      | <u>357161</u>  | <u>3560764</u>  | <u>3560764</u>  |
| 19. Unit Service Factor  | <u>49.5</u>    | <u>88.1</u>     | <u>88.1</u>     |
| 20. Unit Availability Factor   | <u>49.5</u>    | <u>88.1</u>     | <u>88.1</u>     |
| 21. Unit Capacity Factor (Using MDC Net)                                       | <u>43.8</u>    | <u>85.7</u>     | <u>85.7</u>     |
| 22. Unit Capacity Factor (Using DER Net)                                       | <u>41.3</u>    | <u>80.9</u>     | <u>80.9</u>     |
| 23. Unit Forced Outage Rate  | <u>0.0</u>     | <u>0.3</u>      | <u>0.3</u>      |
| 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): | <u>N/A</u>     |                 |                 |
| 25. If Shut Down at End of Report Period, Estimated Date of Startup:           | <u>N/A</u>     |                 |                 |

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: October 1996

DOCKET NO: 50-390  
 UNIT NAME: WBN-1  
 DATE: 10/6/96  
 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>5</sup> | Cause and Corrective Action to Prevent Recurrence  |
|-----|----------|-------------------|------------------|---------------------|--|---------------------------|--------------------------|-----------------------------|--|
| 17  | 9/28/96  | S                 | 373.8            | B                   | 2  | N/A                       | N/A                      | N/A                         | Maintenance outage for ice weighing, and periodic surveillances. No corrective actions required. |
| 18  | 10/17/96 | S                 | 2.2              | B                   | N/A  | N/A                       | N/A                      | N/A                         | Turbine Trip Test. No corrective actions required.   |
| 19  | 10/20/96 | S                 | 0                | B                   | N/A  | N/A                       | N/A                      | N/A                         | Power Reduction for a planned 50% load reduction test. No corrective actions required.           |

<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>Exhibit G - Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) File (NUREG - 1022)

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