



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

OCT 0 6 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) - SEPTEMBER 1999 MONTHLY
OPERATING REPORT

The enclosure provides the September 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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R PDR

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U.S. Nuclear Regulatory Commission

Page 2

OCT 0 6 1999

PLP:RAS

cc 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 30303

ENCLOSURE

TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT (WBN)

MONTHLY OPERATING REPORT

SEPTEMBER 1999

UNIT 1

DOCKET NUMBER 50-390

LICENSE NUMBER NPF-90

**OPERATIONAL SUMMARY
SEPTEMBER 1999**

I. WATTS BAR UNIT 1 OPERATIONAL SUMMARY

Watts Bar Nuclear Plant (WBN) Unit 1 began September 1999 at full power. The unit operated at full power for 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 September 1999.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-390 UNIT NO. ONE DATE: October 4, 1999
 COMPLETED BY: R. D. Tolley TELEPHONE: (423) 365-3550
 MONTH: September 1999

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|-----|--|
| 1. | 1,118.3 | 17. | 1,139.6 |
| 2. | 1,118.8 | 18. | 1,131.4 |
| 3. | 1,119.5 | 19. | 1,118.4 |
| 4. | 1,117.3 | 20. | 1,134.1 |
| 5. | 1,117.4 | 21. | 1,138.5 |
| 6. | 1,116.4 | 22. | 1,133.5 |
| 7. | 1,110.2 | 23. | 1,147.5 |
| 8. | 1,117.7 | 24. | 1,138.9 |
| 9. | 1,117.5 | 25. | 1,135.0 |
| 10. | 1,125.5 | 26. | 1,130.5 |
| 11. | 1,130.0 | 27. | 1,127.2 |
| 12. | 1,119.2 | 28. | 1,122.4 |
| 13. | 1,122.7 | 29. | 1,129.5 |
| 14. | 1,129.8 | 30. | 1,142.1 |
| 15. | 1,130.6 | | |
| 16. | 1,133.2 | | |

OPERATING DATA REPORT

Docket No. 50-390
 Date: October 4, 1999
 Completed By: R. D. Tolley
 Telephone: (423) 365-3550

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

| | This Month | Year-to-Date | Cumulative |
|--|------------|--------------|------------|
| 11. Hours in Reporting Period | 720.0 | 6551.0 | 29328.0 |
| 12. Number of Hours Reactor was Critical | 720.0 | 5433.9 | 26284.37 |
| 13. Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. Hours Generator On-Line | 720.0 | 5397.3 | 26146.0 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. Gross Thermal Energy Generated (MWh) | 2455157 | 17296578 | 85258892 |
| 17. Gross Electric Energy Generated (MWh) | 849919 | 6014022 | 29581300 |
| 18. Net Electrical Energy Generated (MWh) | 811505 | 5717360 | 28139826 |
| 19. Unit Service Factor | 100.0 | 82.4 | 89.2 |
| 20. Unit Availability Factor | 100.0 | 82.4 | 89.2 |
| 21. Unit Capacity Factor (Using MDC Net) | 100.8 | 78.1 | 85.8 |
| 22. Unit Capacity Factor (Using DER Net) | 97.9 | 75.8 | 83.4 |
| 23. Unit Forced Outage Rate | 0.0 | 0.0 | 1.95 |
| 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: SEPTEMBER 1999**

DOCKET NO: 50-390
 UNIT NAME: WBN-1
 DATE: October 4, 1999
 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 ⁴ | Cause and Corrective Action to Prevent Recurrence |
|-----|------|-------------------|------------------|---------------------|--|---------------------------|--------------------------|-----------------------------|---|
| | | | | | | | | | No significant power reductions or shutdowns occurred during this reporting period. |

¹ **F: Forced**
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 **Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) (NUREG - 1022)**