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U.S. Nuclear Regulatory Commission

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cc (Enclosure):

NRC Resident Inspector
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ENCLOSURE 1

TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT (WBN)
MONTHLY OPERATING REPORT
DECEMBER 1997

UNIT 1

DOCKET NUMBER 50-390

LICENSE NUMBER NPF-90

**OPERATIONAL SUMMARY
DECEMBER 1997**

I. WATTS BAR UNIT 1 OPERATIONAL SUMMARY

Watts Bar Nuclear Plant Unit 1 began December 1997 at full power. The unit operated at or near full power through the end 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 December 1997.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-390 UNIT NO. ONE DATE: January 5, 1998

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

MONTH: December 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	<u>1,156.6</u>	17.	<u>1,156.3</u>
2.	<u>1,160.0</u>	18.	<u>1,159.6</u>
3.	<u>1,152.8</u>	19.	<u>1,152.2</u>
4.	<u>1,154.7</u>	20.	<u>1,154.2</u>
5.	<u>1,162.6</u>	21.	<u>1,156.8</u>
6.	<u>1,166.3</u>	22.	<u>1,151.3</u>
7.	<u>1,161.4</u>	23.	<u>1,157.6</u>
8.	<u>1,151.9</u>	24.	<u>1,154.3</u>
9.	<u>1,155.3</u>	25.	<u>1,152.1</u>
10.	<u>1,155.3</u>	26.	<u>1,157.9</u>
11.	<u>1,157.8</u>	27.	<u>1,160.3</u>
12.	<u>1,155.3</u>	28.	<u>1,162.0</u>
13.	<u>1,151.9</u>	29.	<u>1,160.1</u>
14.	<u>1,152.0</u>	30.	<u>1,163.8</u>
15.	<u>1,165.8</u>	31.	<u>1,155.2</u>
16.	<u>1,157.9</u>		

OPERATING DATA REPORT

Docket No. **50-390**
 Date: **January 5, 1998**
 Completed By: **R. D. Tolley**
 Telephone: **(423) 365-3550**

1. Unit Name: **WBN Unit 1**
2. Reporting Period: **December 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**

	<u>This Month</u>	<u>Year-to-Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	<u>744.0</u>	<u>8760.0</u>	<u>14017.0</u>
12. Number of Hours Reactor was Critical	<u>744.0</u>	<u>7341.6</u>	<u>12167.0</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>744.0</u>	<u>7271.7</u>	<u>12075.8</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>2527971</u>	<u>23026707</u>	<u>38857609</u>
17. Gross Electric Energy Generated (MWh)	<u>898894</u>	<u>8015309</u>	<u>13425854</u>
18. Net Electrical Energy Generated (MWh)	<u>860908</u>	<u>7600092</u>	<u>12741485</u>
19. Unit Service Factor	<u>100.0</u>	<u>83.0</u>	<u>86.2</u>
20. Unit Availability Factor	<u>100.0</u>	<u>83.0</u>	<u>86.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>103.6</u>	<u>77.7</u>	<u>81.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>100.5</u>	<u>75.4</u>	<u>79.0</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>5.5</u>	<u>3.5</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	<u>N/A</u>		
25. If Shutdown at End of Report Period, Estimate Date of Startup:	<u>N/A</u>		

**UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH: DECEMBER 1997**

DOCKET NO: 50-390
UNIT NAME: WBN-1
DATE: 1/5/98
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
									No unit shutdowns or power reductions occurred during December 1997.

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