



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

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

NOV 06 1997

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) - OCTOBER 1997 MONTHLY OPERATING REPORT

Enclosure 1 provides the October 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. J. Pucell for
J. A. Scalice

Enclosure
cc: See page 2

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Page 2

NOV 06 1997

cc (Enclosure):

NRC Resident Inspector
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ENCLOSURE 1

TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT (WBN)

MONTHLY OPERATING REPORT

OCTOBER 1997

UNIT 1

DOCKET NUMBER 50-390

LICENSE NUMBER NPF-90

**OPERATIONAL SUMMARY
OCTOBER 1997**

I. WATTS BAR UNIT 1 OPERATIONAL SUMMARY

Watts Bar Nuclear Plant Unit 1 began October 1997 in the unit's first refueling outage. The unit achieved criticality at 1505 on October 18. The reactor was manually tripped at 0950 on October 19 due to a feedwater deficiency. (See Licensee Event Report 97015.) The feedwater concern was corrected and the unit again achieved criticality at 2255 on October 19. The generator was synchronized to the grid at 0646 on October 20 resulting in a Unit 1 Cycle 1 outage duration of 44 days, 6 hours, and 42 minutes. A turbine overspeed trip test was conducted at 1544 on October 20 and the generator was again synchronized to the grid at 1819 on October 20. The unit achieved full power operation at 0100 on October 27 and 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 October 1997.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-390 UNIT NO. ONE DATE: November 4, 1997

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

MONTH: October 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	0	17.	0
2.	0	18.	0
3.	0	19.	0
4.	0	20.	47.6
5.	0	21.	226.1
6.	0	22.	254.4
7.	0	23.	375.6
8.	0	24.	715.9
9.	0	25.	989.4
10.	0	26.	1075.3
11.	0	27.	1139.9
12.	0	28.	1149.7
13.	0	29.	1148.0
14.	0	30.	1145.0
15.	0	31.	1141.9
16.	0		

OPERATING DATA REPORT

Docket No. 50-390
 Date: November 4, 1997
 Completed By: R. D. Tolley
 Telephone: (423) 365-3550

1. Unit Name: WBN Unit 1
2. Reporting Period: October 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	745.0	7296.0	12553.0
12. Number of Hours Reactor was Critical	308.8	5877.6	10703.0
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	279.6	5807.7	10611.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWh)	709914	18049082	33879984
17. Gross Electric Energy Generated (MWh)	239300	6250105	11660650
18. Net Electrical Energy Generated (MWh)	214604	5909315	11050708
19. Unit Service Factor	37.5	79.6	84.5
20. Unit Availability Factor	37.5	79.6	84.5
21. Unit Capacity Factor (Using MDC Net)	25.8	72.5	78.8
22. Unit Capacity Factor (Using DER Net)	25.0	70.4	76.5
23. Unit Forced Outage Rate	0.0	6.8	3.9
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: OCTOBER 1997**

DOCKET NO: 50-390
 UNIT NAME: WBN-1
 DATE: 11/5/97
 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
32	970906	S	462.8	C	4	97-015	N/A	N/A	Cycle 1 Refueling outage. Prior to placing the generator on line, the reactor was manually tripped at 0950 on 10/19 due to loss of feedwater. The root cause was inadequate procedural instructions to address a sensitive period for placing feedwater heaters in service. Recurrence control actions include procedure revision and training.
33	971020	S	2.6	B	9	N/A	N/A	N/A	Turbine Overspeed Trip Test

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