



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

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

OCT 15 1996

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

Gentlemen:

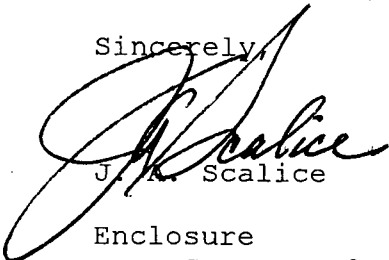
In the Matter of) Docket No. 50-390
Tennessee Valley Authority)

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

The enclosure provides the September 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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U.S. Nuclear Regulatory Commission
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cc (Enclosure):

NRC Resident Inspector
Watts Bar Nuclear Plant
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Region II
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ENCLOSURE

TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT UNIT 1

MONTHLY OPERATING REPORT
TO THE
NUCLEAR REGULATORY COMMISSION
SEPTEMBER 1996

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

OPERATIONAL SUMMARY
SEPTEMBER 1996
UNIT 1

Watts Bar Nuclear Plant Unit 1 began September at full power. Power was reduced approximately 7% on September 2 as result of a failed level control switch in the A2 Heater level control circuit. The unit returned to full power on September 2 and operated at or near full power until September 13. At approximately 1730 on September 13, power was reduced to approximately 65% due to a minor oil fire in the insulation installed on the A Main Feed Pump Turbine. The unit returned to full power operation on September 15 and the unit operated at or near full power until September 28. On September 28, WBN began the load reduction for a planned 17 day outage with the performance of a 50% load rejection test. In accordance with a preplanned contingency, a manual reactor trip was initiated during the test at 0431 when Condenser Zone C backpressure exceeded 7" Hga. The unit entered Mode 4 at 0614 on September 29 and Mode 5 on September 30. The unit remained in Mode 5 through the end of September for planned maintenance and periodic surveillance testing.

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 1996.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-390 UNIT No. One DATE: 10/4/96

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

MONTH: September 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1088.0
2	1048.7
3	1085.3
4	1084.9
5	1083.1
6	1078.9
7	1080.5
8	1082.9
9	1082.3
10	1078.3
11	1081.8
12	1094.2
13	1004.0
14	922.6
15	1079.6
16	1019.5

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	1096.8
18	1101.8
19	1105.0
20	1102.1
21	1099.0
22	1102.7
23	1097.4
24	1100.2
25	1098.2
26	1093.7
27	1088.4
28	168.9
29	0
30	0
31	N/A

OPERATING DATA REPORT

DOCKET NO.: 50-390
 DATE: 10/4/96
 COMPLETED BY: R. D. Tolley
 TELEPHONE: (423) 365-3550

OPERATING STATUS

1. Unit Name: Watts Bar Unit one
2. Reporting Period: September 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>720.0</u>	<u>3048.0</u>	<u>3048.0</u>
12. Number of Hours Reactor Was Critical	<u>652.5</u>	<u>2980.5</u>	<u>2980.5</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>652.5</u>	<u>2971.1</u>	<u>2971.1</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>2,184,725</u>	<u>9,990,929</u>	<u>9,990,929</u>
17. Gross Electrical Energy Generated (MWh)	<u>738,635</u>	<u>3,371,331</u>	<u>3,371,331</u>
18. Net Electrical Energy Generated (MWh)	<u>700,840</u>	<u>3,203,603</u>	<u>3,203,603</u>
19. Unit Service Factor	<u>90.6</u>	<u>97.5</u>	<u>97.5</u>
20. Unit Availability Factor	<u>90.6</u>	<u>97.5</u>	<u>97.5</u>
21. Unit Capacity Factor (Using MDC Net)	<u>88.9</u>	<u>96.0</u>	<u>96.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>83.9</u>	<u>90.6</u>	<u>90.6</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>.3</u>	<u>.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>October 15, 1996</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: September 1996

DOCKET NO: 50-390
 UNIT NAME: WBN-1
 DATE: 10/4/96
 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
16	9/13/96	F	N/A	H	9	N/A	SL	LU	Beginning at 1731 on 9/13/96, load was reduced to approximately 65% due to an oil fire in the insulation installed on the A Main Feed Pump Turbine. The cause of the fire was a loose drain plug on a bearing. The plug was tightened and other plugs were checked for leakage and tightness.
17	9/28/96	S	67.5	B	2	N/A	N/A	N/A	Power reduction for a scheduled outage began on 9/28/96 with the performance of a 50% load reduction test. In accordance with contingencies in the test procedure, a manual reactor trip was initiated during the test at 0431 due to high condenser backpressure.

¹F: Forced
 S: Scheduled

²Reason:
 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)

³Method
 1-Manual
 2-Manual Scram
 3-Automatic Scram
 4-Continuation of Existing Outage
 5-Reduction
 9-Other

⁴Exhibit G - Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) File (NUREG - 1022)

⁵Exhibit I-Same Source