



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

MAR 14 2002

10 CFR 50.4

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) - 2001 ANNUAL OCCUPATIONAL  
RADIATION EXPOSURE REPORT

Enclosed is the 2001 Annual Occupational Radiation Exposure Report. This report contains a summary of occupational exposure data for the period of January 1, 2001, to December 31, 2001. Submittal of this report fulfills the requirements of Technical Specification 5.9.1.

If you should have any questions, please contact me at (423) 365-1824.

Sincerely,

P. L. Pace, Manager,  
Site Licensing and Industry Affairs

Enclosure  
cc: See page 2

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cc (Enclosure):

NRC Resident Inspector  
Watts Bar Nuclear Plant  
1260 Nuclear Plant Road  
Spring City, Tennessee 37381

Mr. L. Mark Padovan, Senior Project Manager  
U.S. Nuclear Regulatory Commission  
MS 08G9  
One White Flint North  
11555 Rockville Pike  
Rockville, Maryland 20852-2738

U.S. Nuclear Regulatory Commission  
Region II  
Sam Nunn Atlanta Federal Center  
61 Forsyth St., SW, Suite 23T85  
Atlanta, Georgia 30303

REIRS Project Manager  
Office of Nuclear Regulatory Research  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

ENCLOSURE

TENNESSEE VALLEY AUTHORITY  
WATTS BAR NUCLEAR PLANT UNIT 1

2001 ANNUAL OCCUPATIONAL RADIATION EXPOSURE REPORT

JANUARY 1, 2001 TO DECEMBER 31, 2001

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

## WATTS BAR NUCLEAR PLANT (WBN)

### 2001 ANNUAL OCCUPATIONAL RADIATION EXPOSURE REPORT

#### Occupational Exposure Data:

Enclosed is the exposure data for personnel at WBN that received greater than 100 millirem between January 1, 2001 and December 31, 2001. The major special maintenance tasks for which exposure data is provided includes:

- Modification of the waste gas analyzer.
- Modification and maintenance of the refueling machine.
- Installation of a permanent ladder outside the pressurizer doghouse.
- Modification of the Radiation Monitoring System (System 90).
- Modification and upgrade of the polar crane.



Regulatory Guide 1.16 Information  
End of Year Report 2001

Work and Job Function	Number of Personnel > 100 mrem			Total man-rem *		
	Station	Utility	Contractor	Station	Utility	Contractor
REFUELING						
MAINTENANCE PERSONNEL	0.000	0.000	0.000	0.000	0.000	0.000
OPERATIONS PERSONNEL	0.000	0.000	0.000	0.000	0.000	0.000
HEALTH PHYSICS PERSONNEL	0.000	0.000	0.000	0.000	0.000	0.000
SUPERVISORY PERSONNEL	0.000	0.000	0.000	0.000	0.000	0.000
ENGINEERING PERSONNEL	0.000	0.000	0.000	0.000	0.000	0.000
Totals						
MAINTENANCE PERSONNEL	7.000	0.000	2.000	0.863	0.000	0.253
OPERATIONS PERSONNEL	0.000	0.000	0.000	0.000	0.000	0.000
HEALTH PHYSICS PERSONNEL	6.000	0.000	0.000	1.122	0.000	0.000
SUPERVISORY PERSONNEL	0.000	0.000	0.000	0.000	0.000	0.000
ENGINEERING PERSONNEL	0.000	0.000	0.000	0.000	0.000	0.000
Grand Totals	13.000	0.000	2.000	1.985	0.000	0.253

\* The man-rem totals include dose only from individuals receiving more than 100 mrem throughout the year at the site.