

ENCLOSURE

TENNESSEE VALLEY AUTHORITY  
WATTS BAR NUCLEAR PLANT UNIT 1

1998 ANNUAL OCCUPATIONAL RADIATION EXPOSURE REPORT

JANUARY 1, 1998 TO DECEMBER 31, 1998

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

9903110376 990304  
PDR ADOCK 05000390  
R PDR

WATTS BAR NUCLEAR PLANT (WBN)

1998 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, 1998 and December 31, 1998. Exposure data for special maintenance is based on the following activities:

- Replacement of a control rod drive mechanism (CRDM) fan motor.
- Installation of a containment sump level transmitter modification.

Tennessee Valley Authority - WBN Radiation Exposure System

Number of Personnel and Man-REM by Work Job Function

Total Number of Individuals

Number of Personnel (> 100 M-REM)

Total Man-REM

MO=Reactor OPS Surveillance

Group	Station	Utility	Contract	Total	Station	Utility	Contract	Total
	Employees	Employees	and Others	Persons	Employees	Employees	and Others	M-REMS
Maintenance Personnel	0	0	0	0	0.000	0.000	0.000	0.000
Operating Personnel	1	0	0	1	0.009	0.000	0.000	0.009
Health Physics Personnel	3	1	0	4	0.063	0.000	0.000	0.063
Supervisory Personnel	0	0	0	0	0.000	0.000	0.000	0.000
Engineering Personnel	0	0	0	0	0.000	0.000	0.000	0.000
MO	4	1	0	5	0.072	0.000	0.000	0.072

MO=Routine Maintenance

Group	Station	Utility	Contract	Total	Station	Utility	Contract	Total
	Employees	Employees	and Others	Persons	Employees	Employees	and Others	M-REMS
Maintenance Personnel	0	0	0	0	0.000	0.000	0.000	0.000
Operating Personnel	1	0	0	1	0.079	0.000	0.000	0.079
Health Physics Personnel	3	0	0	3	0.280	0.000	0.000	0.280
Supervisory Personnel	0	0	0	0	0.000	0.000	0.000	0.000
Engineering Personnel	0	0	0	0	0.000	0.000	0.000	0.000
MO	4	0	0	4	0.359	0.000	0.000	0.359

MO=Inservice Inspection

Group	Station	Utility	Contract	Total	Station	Utility	Contract	Total
	Employees	Employees	and Others	Persons	Employees	Employees	and Others	M-REMS
Maintenance Personnel								
Operating Personnel								
Health Physics Personnel	2	0	0	2	0.001	0.000	0.000	0.001
Supervisory Personnel	0	0	0	0	0.000	0.000	0.000	0.000
Engineering Personnel	0	0	0	0	0.000	0.000	0.000	0.000
MO	2	0	0	2	0.001	0.000	0.000	0.001

Tennessee Valley Authority - WBN Radiation Exposure System  
 Number of Personnel and Man-REM by Work Job Function  
 Total Number of Individuals

MO=Special Maintenance Group	Number of Personnel (> 100 M-REM)				Total Man-REM			
	Station Employees	Utility Employees	Contract and Others	Total Persons	Station Employees	Utility Employees	Contract and Others	Total M-REMS
Maintenance Personnel	0	0	0	0	0.000	0.000	0.000	0.000
Operating Personnel	1	0	0	1	0.000	0.000	0.000	0.000
Health Physics Personnel	3	0	0	3	0.029	0.000	0.000	0.029
Supervisory Personnel	0	0	0	0	0.000	0.000	0.000	0.000
Engineering Personnel	0	0	0	0	0.000	0.000	0.000	0.000
MO	<u>4</u>	<u>0</u>	<u>0</u>	<u>4</u>	<u>0.029</u>	<u>0.000</u>	<u>0.000</u>	<u>0.029</u>
MO=Waste Processing Group	Station Employees	Utility Employees	Contract and Others	Total Persons	Station Employees	Utility Employees	Contract and Others	Total M-REMS
Maintenance Personnel								
Operating Personnel	1	0	0	1	0.024	0.000	0.000	0.024
Health Physics Personnel	3	0	0	3	0.043	0.000	0.000	0.043
Supervisory Personnel	0	0	0	0	0.000	0.000	0.000	0.000
Engineering Personnel	0	0	0	0	0.000	0.000	0.000	0.000
MO	<u>4</u>	<u>0</u>	<u>0</u>	<u>4</u>	<u>0.067</u>	<u>0.000</u>	<u>0.000</u>	<u>0.067</u>
MO=Refuel Group	Station Employees	Utility Employees	Contract and Others	Total Persons	Station Employees	Utility Employees	Contract and Others	Total M-REMS
Maintenance Personnel	0	0	0	0	0.000	0.000	0.000	0.000
Operating Personnel	0	0	0	0	0.000	0.000	0.000	0.000
Health Physics Personnel	0	0	0	0	0.000	0.000	0.000	0.000
Supervisory Personnel								
Engineering Personnel	0	0	0	0	0.000	0.000	0.000	0.000
MO	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>
	<u>18</u>	<u>1</u>	<u>0</u>	<u>19</u>	<u>0.528</u>	<u>0.000</u>	<u>0.000</u>	<u>0.528</u>

Tennessee Valley Authority - WBN Radiation Exposure System  
 Number of Personnel and Man-REM by Work Job Function  
 Total Number of Individuals

Group	Number of Personnel (> 100 M-REM)				Total Man-REM			
	Station Employees	Utility Employees	Contract and Others	Total Persons	Station Employees	Utility Employees	Contract and Others	Total M-REMS
Maintenance Personnel	0	0	0	0	0.000	0.000	0.000	0.000
Operating Personnel	4	0	0	4	0.112	0.000	0.000	0.112
Health Physics Personnel	14	1	0	15	0.416	0.000	0.000	0.416
Supervisory Personnel	0	0	0	0	0.000	0.000	0.000	0.000
Engineering Personnel	0	0	0	0	0.000	0.000	0.000	0.000
	18	1	0	19	0.528	0.000	0.000	0.528