



Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609-2000

March 11, 2002

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Mail Stop OWFN, P1-35  
Washington, D.C. 20555-0001

Gentlemen:

In the Matter of	)	Docket Nos. 50-259
Tennessee Valley Authority	)	50-260
		50-296

**BROWNS FERRY NUCLEAR PLANT (BFN) - UNITS 1, 2, AND 3 - ANNUAL OCCUPATIONAL RADIATION EXPOSURE REPORT (AORER) - JANUARY THROUGH DECEMBER 2001**

This letter provides the AORER for Units 1, 2, and 3 in accordance with BFN's Technical Specifications (TS), Section 5.6.1. This report covers the period from January through December 2001.

TS Section 5.6.1 requires that a report containing a tabulation on an annual basis of the number of station employees (including contractors), for whom monitoring was performed, receiving an annual deep dose equivalent greater than 0.100 roentgen equivalent man (100 millirem). As required by TS, Section 5.6.1, the report provides the associated deep dose equivalent (reported in person-rem) according to work and job function. The enclosed tabulation supplements the requirements of 10 CFR 20.2206.

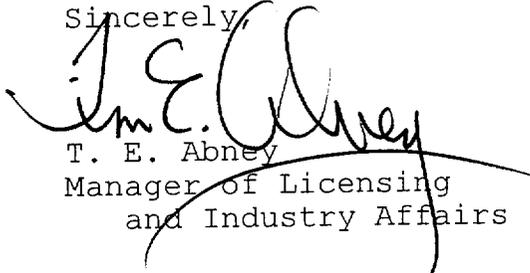
The enclosed tabulation report reflects radiation exposure data as tracked by electronic dosimeters on Radiation Work Permits.

IE56

U.S. Nuclear Regulatory Commission  
Page 2  
March 11, 2002

There are no commitments contained in this letter. If you have any questions, please contact me at (256) 729-2636.

Sincerely,



T. E. Abney  
Manager of Licensing  
and Industry Affairs

Enclosure

cc (Enclosure):

(Via NRC Electronic Distribution)

Mr. Kahtan N. Jabbour, Senior Project Manager  
U.S. Nuclear Regulatory Commission  
(MS 08G9)  
One White Flint, North  
11555 Rockville Pike  
Rockville, Maryland 20852

Mr. Paul E. Fredrickson, Branch Chief  
U.S. Nuclear Regulatory Commission  
Region II  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, S.W., Suite 23T85  
Atlanta, Georgia 030303-8931

NRC Resident Inspector  
Browns Ferry Nuclear Plant  
P.O. Box 149  
Athens, Alabama 35611

Mr. Ronald Sanacore  
American Nuclear Insurers  
Town Center, Suite 300S  
29 South Main Street  
West Hartford, Connecticut 06107-2430

U. S. Nuclear Regulatory Commission  
Attn: REIRS Project Manager  
Office of Nuclear Regulatory Research  
Washington, D.C. 20555-0001

ENCLOSURE

TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT  
UNITS 1, 2, AND 3

ANNUAL OCCUPATIONAL RADIATION EXPOSURE REPORT  
JANUARY THROUGH DECEMBER 2001

---

See Attached:

P. O. BOX 2000  
 DECATUR, ALABAMA 35601-2000  
 LICENSE: DPR-33, DPR-52, DPR-68

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
ROUTINE OPERATIONS AND SURVEILLANCE						
MAINTENANCE PERSONNEL	17.401	1.181	2.947	5.019	0.350	0.835
OPERATIONS PERSONNEL	19.614	0.026	0.012	6.792	0.009	0.005
HEALTH PHYSICS PERSONNEL	14.166	3.124	1.543	5.748	0.717	0.402
SUPERVISORY PERSONNEL	5.056	0.382	0.000	1.160	0.200	0.000
ENGINEERING PERSONNEL	7.118	0.027	0.198	1.456	0.007	0.047
ROUTINE PLANT MAINTENANCE						
MAINTENANCE PERSONNEL	61.388	6.133	100.911	20.635	1.650	35.168
OPERATIONS PERSONNEL	43.141	0.430	2.009	13.814	0.193	2.991
HEALTH PHYSICS PERSONNEL	9.507	1.061	3.439	4.480	0.271	3.247
SUPERVISORY PERSONNEL	7.098	0.048	0.463	1.667	0.025	0.219
ENGINEERING PERSONNEL	11.473	0.135	11.981	3.113	0.028	1.615
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	0.275	0.164	17.284	0.093	0.026	7.697
OPERATIONS PERSONNEL	0.000	0.000	0.000	0.000	0.000	0.000
HEALTH PHYSICS PERSONNEL	0.022	0.000	0.047	0.009	0.000	0.032
SUPERVISORY PERSONNEL	0.000	0.000	0.000	0.000	0.000	0.000
ENGINEERING PERSONNEL	0.138	4.654	10.709	0.027	1.106	2.726
SPECIAL PLANT MAINTENANCE						
MAINTENANCE PERSONNEL	5.048	1.290	7.344	2.055	0.326	2.912
OPERATIONS PERSONNEL	2.923	0.000	0.000	0.765	0.000	0.000
HEALTH PHYSICS PERSONNEL	2.260	0.083	0.642	0.922	0.030	0.158
SUPERVISORY PERSONNEL	0.443	0.000	0.321	0.088	0.000	0.163
ENGINEERING PERSONNEL	2.414	0.008	0.000	0.653	0.603	0.000
WASTE PROCESSING						
MAINTENANCE PERSONNEL	0.989	0.000	3.814	0.329	0.000	1.567
OPERATIONS PERSONNEL	4.488	0.000	0.942	1.821	0.000	0.397
HEALTH PHYSICS PERSONNEL	1.755	0.017	1.576	0.584	0.006	0.430
SUPERVISORY PERSONNEL	2.152	0.000	0.004	0.623	0.000	0.001
ENGINEERING PERSONNEL	0.034	0.000	0.047	0.023	0.000	0.012

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	52.857	20.322	281.269	16.119	3.942	95.609
OPERATIONS PERSONNEL	29.211	1.545	1.815	10.701	0.377	0.507
HEALTH PHYSICS PERSONNEL	10.516	12.874	18.176	5.856	4.223	5.918
SUPERVISORY PERSONNEL	6.289	0.412	4.212	1.602	0.216	1.563
ENGINEERING PERSONNEL	8.436	0.192	2.065	1.931	0.047	0.366
Totals						
MAINTENANCE PERSONNEL	137.998	29.000	413.569	44.250	6.294	143.788
OPERATIONS PERSONNEL	99.377	2.000	4.778	33.893	0.579	3.810
HEALTH PHYSICS PERSONNEL	38.226	17.156	25.422	17.607	5.247	10.187
SUPERVISORY PERSONNEL	21.028	0.842	5.000	5.140	0.441	1.946
ENGINEERING PERSONNEL	29.613	5.017	25.000	7.203	1.191	4.766
Grand Totals:	326.242	54.017	473.769	108.093	13.752	164.497

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