



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

April 1, 2003

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 2002**

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 2002.

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 Technical Specification 5.6.1, the report provides the associated deep dose equivalent (reported in man-rem) according to work and job function. The enclosed tabulation supplements the requirements of 10 CFR 20.2206.

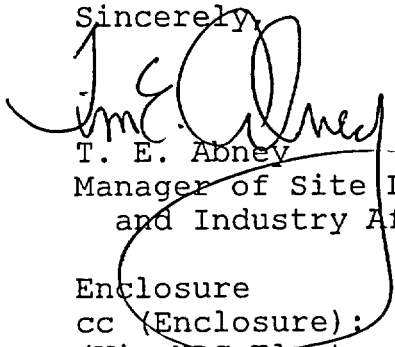
The enclosed tabulation report reflects radiation exposure data as tracked by electronic dosimeters on Radiation Work Permits.

JES6

U.S. Nuclear Regulatory Commission  
Page 2  
April 1, 2003

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 Site 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 20852-2739

Mr. Stephen J. Cahill, Branch Chief  
U.S. Nuclear Regulatory Commission  
Region II  
61 Forsyth Street, S.W., Suite 23T85  
Atlanta, Georgia 30303-8930

NRC Resident Inspector  
Browns Ferry Nuclear Plant  
10833 Shaw Road  
Athens, Alabama 35611-6970

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 (BFN)  
UNITS 1, 2, AND 3

ANNUAL OCCUPATIONAL RADIATION EXPOSURE REPORT (AORER),  
JANUARY THROUGH DECEMBER 2002

---

(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 2002

Work and Job Function	Number of Personnel > 100 mrem			Total man-rem *		
	Station	Utility	Contractor	Station	Utility	Contractor
<b>ROUTINE OPERATIONS AND SURVEILLANCE</b>						
MAINTENANCE PERSONNEL	0.722	0.017	1.176	0.208	0.006	0.241
OPERATIONS PERSONNEL	27.306	0.000	1.385	8.288	0.000	0.190
HEALTH PHYSICS PERSONNEL	9.670	0.376	8.285	3.689	0.135	3.856
SUPERVISORY PERSONNEL	3.276	0.000	0.136	0.562	0.000	0.014
ENGINEERING PERSONNEL	6.783	0.044	0.681	1.210	0.007	0.191
<b>ROUTINE PLANT MAINTENANCE</b>						
MAINTENANCE PERSONNEL	73.019	3.070	108.012	22.273	0.905	36.039
OPERATIONS PERSONNEL	35.657	0.000	0.000	10.817	0.000	0.000
HEALTH PHYSICS PERSONNEL	7.018	0.508	5.354	2.380	0.111	2.404
SUPERVISORY PERSONNEL	3.531	0.000	0.953	0.529	0.000	0.291
ENGINEERING PERSONNEL	7.905	6.117	1.616	1.584	0.947	0.352
<b>INSERVICE INSPECTION</b>						
MAINTENANCE PERSONNEL	0.104	0.321	18.416	0.045	0.059	7.103
OPERATIONS PERSONNEL	0.089	0.000	0.000	0.036	0.000	0.000
HEALTH PHYSICS PERSONNEL	0.051	0.000	0.061	0.028	0.000	0.044
SUPERVISORY PERSONNEL	0.000	0.000	0.125	0.000	0.000	0.016
ENGINEERING PERSONNEL	0.525	2.932	9.596	0.154	0.494	1.981
<b>SPECIAL PLANT MAINTENANCE</b>						
MAINTENANCE PERSONNEL	5.673	0.631	213.609	1.831	0.139	66.385
OPERATIONS PERSONNEL	10.198	0.000	9.747	2.840	0.000	1.567
HEALTH PHYSICS PERSONNEL	4.762	1.449	8.781	2.419	0.701	4.039
SUPERVISORY PERSONNEL	0.576	0.000	2.012	0.230	0.000	0.609
ENGINEERING PERSONNEL	4.902	0.063	45.458	1.135	0.011	9.724
<b>WASTE PROCESSING</b>						
MAINTENANCE PERSONNEL	1.288	0.010	11.403	0.454	0.002	4.312
OPERATIONS PERSONNEL	13.021	0.000	1.968	4.519	0.000	1.547
HEALTH PHYSICS PERSONNEL	3.757	0.833	4.495	1.528	0.132	3.512
SUPERVISORY PERSONNEL	2.589	0.000	0.021	0.797	0.000	0.014
ENGINEERING PERSONNEL	0.137	0.000	0.000	0.030	0.000	0.000
<b>REFUELING</b>						
MAINTENANCE PERSONNEL	39.194	23.951	219.096	13.246	6.502	83.482
OPERATIONS PERSONNEL	28.741	1.000	0.000	8.488	0.126	0.000
HEALTH PHYSICS PERSONNEL	6.751	11.834	14.563	2.591	3.469	6.017
SUPERVISORY PERSONNEL	4.028	0.000	0.753	1.077	0.000	0.454
ENGINEERING PERSONNEL	9.707	3.843	5.420	2.465	0.609	0.728
<b>Totals</b>						
MAINTENANCE PERSONNEL	120.000	28.000	571.712	38.057	7.613	197.562
OPERATIONS PERSONNEL	115.012	1.000	13.099	34.988	0.126	3.304
HEALTH PHYSICS PERSONNEL	32.009	15.000	41.540	12.635	4.548	19.872
SUPERVISORY PERSONNEL	14.000	0.000	4.000	3.195	0.000	1.398
ENGINEERING PERSONNEL	29.959	13.000	62.772	6.578	2.068	12.976
<b>Grand Totals</b>	<b>310.980</b>	<b>57.000</b>	<b>693.123</b>	<b>95.453</b>	<b>14.355</b>	<b>235.112</b>

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