



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

April 4, 2000

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

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 1999

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 1999.

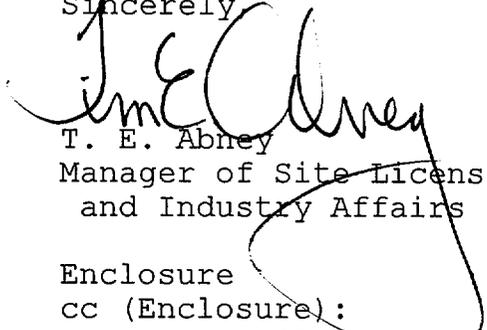
TS Section 5.6.1 requires that a report containing a tabulation on an annual basis of the number of station employees (including contractors), for whom monitoring was performed, receiving an annual deep dose equivalent greater than 0.100 roentgen equivalent man (100 millirem). As required by Technical 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 is provided in the format specified by Regulatory Guide 1.16 and 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.

TESO

U.S. Nuclear Regulatory Commission
Page 2
April 4, 2000

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):

Mr. William O Long, Senior Project Manager
U.S. Nuclear Regulatory Commission
One White Flint, North
11555 Rockville Pike
Rockville, Maryland 020852

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

NRC Resident Inspector
Browns Ferry Nuclear Plant
10833 Shaw Road
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 1999

See Attached:

Date: March 2, 2000

**TENNESSEE VALLEY AUTHORITY
BFN RADIATION EXPOSURE SYSTEM**

**NUMBER OF PERSONNEL AND MAN-REM BY WORK JOB FUNCTION
TOTAL NUMBER OF INDIVIDUALS**

Work and Job Function	Number of Personnel > 100 mrem			Total man-rem*		
	Station	Utility	Contractor	Station	Utility	Contractor
ROUTINE OPERATIONS AND SURVEILLANCE						
MAINTENANCE PERSONNEL	3	1	3	1.569	0.181	1.041
OPERATIONS PERSONNEL	82	4	7	28.594	1.147	3.075
HEALTH PHYSICS PERSONNEL	32	3	10	10.508	1.242	3.309
SUPERVISORY PERSONNEL	15	3	0	2.726	0.677	0.215
ENGINEERING PERSONNEL	15	0	3	5.236	0.015	0.888
ROUTINE PLANT MAINTENANCE						
MAINTENANCE PERSONNEL	135	15	436	47.167	4.856	232.911
OPERATIONS PERSONNEL	27	2	9	9.651	0.372	3.456
HEALTH PHYSICS PERSONNEL	14	3	6	4.011	0.786	1.670
SUPERVISORY PERSONNEL	15	2	10	4.796	0.290	3.915
ENGINEERING PERSONNEL	18	0	15	5.519	0.056	8.203
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	0	1	48	0.029	0.820	19.223
OPERATIONS PERSONNEL	0	1	3	0.053	0.159	1.123
HEALTH PHYSICS PERSONNEL	0	4	0	0.008	2.672	0.027
SUPERVISORY PERSONNEL	0	0	1	0.000	0.000	0.273
ENGINEERING PERSONNEL	1	3	18	0.783	1.924	11.417
SPECIAL PLANT MAINTENANCE						
MAINTENANCE PERSONNEL	0	0	8	0.033	0.000	3.438
OPERATIONS PERSONNEL	4	0	0	0.818	0.000	0.000
HEALTH PHYSICS PERSONNEL	1	0	0	0.321	0.000	0.000
SUPERVISORY PERSONNEL	0	0	0	0.063	0.000	0.000
ENGINEERING PERSONNEL	0	0	0	0.011	0.000	0.000

Date: March 2, 2000

**TENNESSEE VALLEY AUTHORITY
BFN RADIATION EXPOSURE SYSTEM**

**NUMBER OF PERSONNEL AND MAN-REM BY WORK JOB FUNCTION
TOTAL NUMBER OF INDIVIDUALS**

Work and Job Function	Number of Personnel > 100 mrem			Total man-rem*		
	Station	Utility	Contractor	Station	Utility	Contractor
WASTE PROCESSING						
MAINTENANCE PERSONNEL	1	0	30	0.657	0.002	11.519
OPERATIONS PERSONNEL	15	0	14	6.577	0.000	14.496
HEALTH PHYSICS PERSONNEL	7	1	6	2.675	0.292	2.406
SUPERVISORY PERSONNEL	5	0	0	2.317	0.000	0.000
ENGINEERING PERSONNEL	0	0	0	0.029	0.000	0.000
REFUELING						
MAINTENANCE PERSONNEL	2	0	46	0.682	0.006	17.298
OPERATIONS PERSONNEL	5	2	5	2.007	0.451	1.224
HEALTH PHYSICS PERSONNEL	3	1	0	0.839	0.286	0.098
SUPERVISORY PERSONNEL	2	1	0	0.508	0.297	0.034
ENGINEERING PERSONNEL	0	0	7	0.144	0.088	1.899
TOTALS						
MAINTENANCE PERSONNEL	141	17	571	50.137	5.865	285.430
OPERATIONS PERSONNEL	133	9	38	47.700	2.129	23.374
HEALTH PHYSICS PERSONNEL	57	12	22	18.362	5.278	7.510
SUPERVISORY PERSONNEL	37	6	11	10.410	1.264	4.437
ENGINEERING PERSONNEL	34	3	43	11.722	2.083	22.407
GRAND TOTALS	402	47	685	138.331	16.619	343.158

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