

**TENNESSEE VALLEY AUTHORITY
DIVISION OF NUCLEAR SERVICES
RADIOLOGICAL CONTROL**

**RADIOLOGICAL IMPACT ASSESSMENT REPORT
BROWNS FERRY NUCLEAR PLANT**

JULY THROUGH DECEMBER 1986

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JULY THROUGH DECEMBER 1986

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Radiological Impact Assessment
Browns Ferry Nuclear Plant
July - December 1986

Introduction

Potential doses to individuals and populations have been calculated for the time period July through December in compliance with the requirements of Radiological Effluent Technical Specification 6.7.3.A. Dose calculations are based on Regulatory Guides 1.109, 1.111, 1.113, and NUREG/CR-1004 to determine compliance with the dose objectives contained in 10 C.F.R. 50, Appendix I, and 40 CFR 190. Measured plant releases (listed in tables 1-3 for radioactivity in both gaseous and liquid effluents) for the reporting period are used as input in the Gaseous Effluent Licensing Code (for gaseous releases) and the Quarterly Water Assessment Code (for liquid releases) to estimate dose. Dispersion of radioactive effluents in the environment has been calculated using meteorological data and riverflow data measured during this period.

Meteorological Data

Meteorological data were measured, and average quarterly joint frequency distributions (JFDs) for ground-level, split-level, and stack releases were calculated. The ground-level JFD was derived from windspeeds and directions measured 10 meters above ground-level and from the vertical temperature gradient between 10 and 45 meters. The ground-level portion of the split-level JFD was based on wind speeds and directions measured with a sensor located 10 meters above ground-level and from the vertical temperature gradient between 10 and 45 meters. The elevated portion of the split-level JFD was based on wind speeds and direction measurements at the 46-meter level and the vertical temperature gradient between 45 and 90 meters. The JFDs for elevated releases were based on wind directions and wind speeds measured at 93 meters. Stability class D was assumed to persist at the effluent release level of 180 meters for the entire period. For the period January 1, 1978 - December 31, 1980, stable conditions (E, F, or G stability) existed in the layer from 45 to 90 meters at Browns Ferry Nuclear Plant (BFN) about 43 percent of the time. Neutral conditions existed about 56 percent of the time. This suggests that the use of a D stability for stack releases is conservative or realistic about 99 percent of the time. Also, temperature data taken between 110 and 275 meters at the Colbert Steam Plant during the spring and summer of 1976 indicated that for that layer stable conditions existed 53 percent of the time and neutral conditions existed 45 percent of the time. Thus, the 98 percent occurrence of stable or neutral conditions in the elevated layer at Colbert is comparable to the BFN upper layer percent. Although these data are limited to spring and summer, the small percentage of unstable conditions in the 3-year data set suggests that the results are reasonable throughout the year. For an elevated release, assumption of class D instead of E yields conservative results.

The wind speeds were divided into nine wind speed ranges. Calms (0-0.5 mph) were not distributed by direction. The quarterly JFDs are listed in tables 4 and 5 for ground-level releases, tables 6 and 7 for split-level releases, and in tables 8 and 9 for elevated releases.

Gaseous Effluents

Ground-level and elevated dispersion models were applied to turbine building and stack releases respectively. Releases from the reactor building and radwaste building were treated as split-level releases, i.e., partly elevated and partly ground-level. The split-level dispersion approach was implemented using a model that required for each effluent vent two complete average annual JFDs, one for the elevated releases and one for the ground-level releases. Radionuclides in gaseous effluents were assumed to be released continuously. The generally open terrain around BFN is not believed to cause any significant effects on the transport and dispersion of gaseous effluents from the plant. Within 30 kilometers of BFN, the terrain is mostly gently rolling hills (30-60 meters). Between 30 and 80 kilometers the hills become larger to the north and south, and mountainous to the east and northeast. Terrain may have a small effect on transport and dispersion during periods of southeasterly and southerly winds, overcast skies, and relatively high wind speeds. Then, the lower layer (10-45 meters) tends to be more stable than would be expected. However, during this infrequent condition, dose estimates will be conservative.

Dose estimates for external air exposures were made at and beyond the site boundary. External doses to the skin and total body were estimated for the nearest residence in each sector. Internal doses to organs were estimated from the ingestion, inhalation, and ground contamination exposure pathways. The internal doses were calculated for farms where milk is consumed without commercial preparation. All receptor locations and points of interest are listed in table 3a. Doses are given in tables 10 and 11 for these individual exposure pathways at the maximum exposure locations.

Population doses were calculated for an estimated 627,000 persons living within a 50-mile radius of the plant site. Population doses were calculated assuming that each individual consumes vegetables and meat produced with the sector annulus in which he resides. Doses from milk ingestion were calculated from data on milk production within 50 miles of the plant site. Doses from external pathways, inhalation, and beef and vegetable ingestion are based on the 50-mile human population distribution. Population dose estimates for the gaseous effluents are presented in table 12.

Liquid Effluents

Doses from liquid effluents were calculated using measured hydraulic data. The average river flows at the plant site were 17,500 ft³/s for the third quarter and 45,800 ft³/s for the fourth quarter. Radioactivity concentrations in the Tennessee River were calculated assuming that releases in liquid effluents were continuous.

Doses were calculated for recreation, consumption of fish, and drinking water from public water supplies between the plant site and the mouth of the Tennessee River. The maximum individual dose from drinking water was assumed to be that calculated at the nearest downstream public water supply (Champion Paper Company). The maximum potential recreation dose was calculated for a location immediately downstream from the plant outfall. Dose estimates for the liquid effluents are presented in tables 13 and 14.

Direct Radiation

External gamma radiation levels were measured by thermoluminescent dosimeters (TLDs) deployed around BFN. The quarterly gamma radiation levels determined from these TLDs during this reporting period averaged approximately 18.9 mR/quarter at onsite stations and approximately 15.5 mR/quarter at offsite stations, or approximately 3.4 mR/quarter higher onsite than at offsite stations. This is consistent with levels reported at TVA's nonoperating nuclear power plant construction sites where the average radiation levels onsite are generally 2-6 mR/quarter higher than the levels offsite. This may be attributable to natural variations in environmental radiation levels, earth moving activities onsite, the mass of concrete employed in the construction of the plants, or other undetermined influences. Fluctuations in natural background dose rates and in TLD readings tend to mask any small increments which may be due to plant operations. Thus, there was no identifiable increase in dose rate levels attributable to direct radiation from plant equipment and/or gaseous effluents.

Dose Summary

Doses calculated for this semiannual period result from the low-level effluent releases of units 1, 2, and 3. For gaseous effluents released in the third quarter, the maximum gamma and beta air doses were calculated to be <.001 and <.001 mrad, respectively. During the fourth quarter, the gamma and beta air doses were <.001 and <.001 mrad, respectively. These quarterly doses are well below the annual air dose guidelines (as specified in Appendix I to 10 CFR 50) of 30 and 60 mrad for gamma and beta radiation, respectively, for three reactor units. The maximum doses from noble gases to the skin and total body during the third quarter were calculated to be 0.0 and 0.0 mrem. During the fourth quarter, the skin and total body doses were 0.0 and 0.0 mrem respectively. The dose to the maximum exposed organ was <0.001 mrem to the liver for the third quarter and <.001 mrem to the liver for the fourth quarter. These can be compared with annual dose guidelines of 45 mrem to the skin and maximum exposed organ and 15 mrem to the total body. These doses result from ingestion, inhalation, and ground contamination pathways and can be compared to a natural background radiation dose to an individual of about 90 mrem/yr.

For liquid effluents released in the third quarter, the maximum individual doses to the total body and the maximum exposed organ (i.e., liver) were calculated to be 0.15 and 0.19 mrem, respectively. In the fourth

quarter, the maximum doses to the total body and liver were 0.026 and 0.036 mrem, respectively. These compare with annual dose guidelines as specified in Appendix I to 10 CFR 50 of 9 and 30 mrem to the total body and maximum exposed organ, respectively, for three units.

Population doses from gaseous effluents during the third quarter were estimated to be <0.001 man-rem to the liver and <0.001 man-rem to the bone. For the fourth quarter, population doses were <0.001 man-rem to the liver and <0.001 man-rem to the bone.

From liquid releases during the third quarter, the total population along the Tennessee River was estimated to receive 11 man-rem to the total body and 20 man-rem to the maximum exposed organ (liver). For the fourth quarter, the Tennessee River population was estimated to receive 2.1 man-rem to the total body and 3.7 man-rem to the maximum exposed organ (liver).

Population doses can be compared to the natural background dose to the 627,000 persons living within 50 miles of the plant of about 56,430 man-rem/yr. In summary, all doses calculated were below the guidelines of Appendix I to 10 CFR 50 and below the limits specified in the BFN Technical Specifications for plant operation.

A summary for the quarterly doses over a 5-year period is tabulated in table 15 and presented graphically in Figures 1 through 5.

TABLE 1

BROWNS FERRY NUCLEAR PLANT - GASEOUS EFFLUENT RELEASES
3RD QUARTER 1986

BFN REACTOR BLDG. RELEASES

NUCLIDE RELEASE (CURIES)

1 TRITIUM 6.86E-01
2 CS-137 3.13E-05
3 CE-60 2.28E-05

TOTAL RELEASE 6.86E-01

BFN STACK RELEASES

NUCLIDE RELEASE (CURIES)

1 11/05/86 0.00E+00

TOTAL RELEASE 0.00E+00

BFN RADWASTE BUILDING RELEASES

NUCLIDE RELEASE (CURIES)

1 TRITIUM 5.05E-02

TOTAL RELEASE 5.05E-02

BFN TURBINE BUILDING RELEASES

NUCLIDE RELEASE (CURIES)

1 TRITIUM 6.65E-02

TOTAL RELEASE 6.65E-02

TABLE 2

BROWNS FERRY NUCLEAR PLANT - GASEOUS EFFLUENT RELEASES
4TH QUARTER 1986

BFN REACTOR BLDG. RELEASES

NUCLIDE RELEASE	(CURIES)
1 TRITIUM	5.38E-01
2 CS-137	7.62E-06
3 CO-60	5.32E-05
4 MN-54	3.09E-06

TOTAL RELEASE ***** 5.38E-01

BFN TURBINE BUILDING RELEASES

NUCLIDE RELEASE	(CURIES)
1 TRITIUM	3.62E-02

TOTAL RELEASE ***** 3.62E-02

BFN RADWASTE BUILDING RELEASES

NUCLIDE RELEASE	(CURIES)
1 TRITIUM	9.04E-03
TOTAL RELEASE *****	9.04E-03

BFN STACK RELEASES

NUCLIDE RELEASE	(CURIES)
1 ZN-65	1.17E-04
2 CE-141	9.37E-06
3 TRITIUM	1.06E-03

TOTAL RELEASE ***** 1.19E-03

TABLE 3

1986 BROWNS FERRY NUCLEAR PLANT LIQUID EFFLUENT RELEASESCURIES

<u>Nuclide</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
H-3	1.34E+00	2.10E+00
Cr-51	<1.34E-02	4.71E-06
Mn-54	5.75E-04	2.73E-04
Co-58	<1.55E-03	<1.46E-03
Fe-59	<2.93E-03	<2.99E-03
Co-57	1.24E-05	1.62E-05
Co-60	1.79E-02	8.94E-03
Zn-65	2.30E-02	1.21E-02
Kr-85	0.00E+00	1.50E-04
Sr-89	<8.31E-04	<7.56E-04
Sr-90	<1.97E-04	<3.76E-04
Nb-95	<1.39E-03	<1.52E-03
Zr-95	<2.35E-03	<2.32E-03
Mo/Tc-99m	<1.10E-03	<1.17E-03
Ag-110m	4.74E-05	0.00E+00
Sb-125	4.68E-04	3.14E-04
I-131	<1.78E-03	<1.32E-03
Xe-133	<3.49E-03	<2.84E-03
Cs-134	3.15E-02	1.66E-02
Xe-135	<8.51E-04	<7.19E-04
Cs-137	7.40E-02	4.06E-02
Ba-140	<6.70E-03	<5.05E-03
La-140	<4.07E-04	<3.57E-04
Ce-141	<1.98E-03	<1.47E-03

TABLE 3a

BROWNS FERRY NUCLEAR PLANT - RECEPTOR
LOCATIONS AND POINTS OF INTEREST

POINT	SECTOR	DISTANCE (M)
1 SITE BOUNDARY	N	1525.
2 SITE BOUNDARY	NNE	1300.
3 SITE BOUNDARY	NE	1250.
4 SITE BOUNDARY	ENE	1450.
5 SITE BOUNDARY	E	1375.
6 SITE BOUNDARY	ESN	1575.
7 SITE BOUNDARY	SE	5600.
8 SITE BOUNDARY	SE	2975.
9 SITE BOUNDARY	S	2550.
10 SITE BOUNDARY	SSW	2425.
11 SITE BOUNDARY	SW	2300.
12 SITE BOUNDARY	WSW	2500.
13 SITE BOUNDARY	W	2550.
14 SITE BOUNDARY	WNW	3325.
15 SITE BOUNDARY	NW	2275.
16 SITE BOUNDARY	NNW	1650.
17 AIR DOSE POINT	NW	5100.
18 AIR DOSE POINT	NW	5500.
19 AIR DOSE POINT	NW	5100.
20 AIR DOSE POINT	NW	5500.
21 AIR DOSE POINT	NW	6800.
22 AIR DOSE POINT	NW	7100.
23 RESIDENT, GARDEN	N	1620.
24 RESIDENT	NNE	2845.
25 RESIDENT	NE	4075.
26 RESIDENT, GARDEN	ENE	1960.
27 RESIDENT, GARDEN	E	4437.
28 RESIDENT	EST	4655.
29 RESIDENT	SE	8100.
30 RESIDENT, GARDEN	SE	7155.
31 RESIDENT, GARDEN	S	4460.
32 RESIDENT, GARDEN	SSW	4155.
33 RESIDENT	SW	4936.
34 RESIDENT, GARDEN	WSW	4131.
35 RESIDENT	W	2550.
36 RESIDENT, GARDEN	WNW	4425.
37 RESIDENT, GARDEN	NW	3500.
38 RESIDENT, GARDEN	NNW	1650.
39 GARDEN	NE	4475.
40 GARDEN	NNE	2930.
41 GARDEN	SW	5430.
42 GARDEN	W	2675.
43 MILK COW CHILD	N	5045.
44 MILK COW INFANT	ENE	2450.
45 MILK COW CHILD	NNW	10775.
46 GOAT CHILD	NE	10975.

TABLE 4

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
GROUND-LEVEL JOINT
FREQUENCY DISTRIBUTION IN PERCENT
3RD QUARTER 1986

STABILITY CLASS A

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.000	0.429	0.043	0.000	0.000	0.477
NNE	0.000	0.000	0.000	0.000	0.143	0.476	0.143	0.000	0.000	0.762
NE	0.000	0.000	0.000	0.046	0.000	0.143	0.095	0.000	0.000	0.286
ENE	0.000	0.000	0.000	0.000	0.048	0.048	0.000	0.000	0.000	0.096
E	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.048
ESE	0.000	0.000	0.143	0.476	0.286	0.000	0.000	0.000	0.000	0.905
SE	0.000	0.000	0.762	2.381	0.238	0.000	0.000	0.000	0.000	3.476
SSE	0.000	0.000	0.333	0.286	0.048	0.000	0.000	0.000	0.000	0.667
S	0.000	0.000	0.046	0.333	0.095	0.000	0.000	0.000	0.000	0.476
SSW	0.000	0.000	0.043	0.143	0.000	0.000	0.000	0.000	0.000	0.191
SW	0.000	0.000	0.000	0.095	0.095	0.000	0.000	0.000	0.000	0.190
WSW	0.000	0.000	0.000	0.095	0.190	0.143	0.000	0.000	0.000	0.428
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.095
NW	0.000	0.000	0.000	0.000	0.000	0.286	0.333	0.000	0.000	0.619
NNW	0.000	0.000	0.000	0.000	0.000	0.190	0.000	0.000	0.000	0.190
TOTALS	0.000	0.000	1.334	3.857	1.286	1.810	0.619	0.000	0.000	8.906

STABILITY CLASS B

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.046	0.286	0.238	0.000	0.000	0.000	0.572
NNE	0.000	0.000	0.000	0.000	0.095	0.381	0.000	0.000	0.000	0.476
NE	0.000	0.000	0.000	0.046	0.000	0.381	0.000	0.000	0.000	0.429
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.095
ESE	0.000	0.000	0.333	0.095	0.048	0.000	0.000	0.000	0.000	0.476
SE	0.000	0.000	0.762	0.524	0.000	0.000	0.000	0.000	0.000	1.286
SSE	0.000	0.000	0.333	0.095	0.143	0.000	0.000	0.000	0.000	0.571
S	0.000	0.000	0.143	0.190	0.048	0.000	0.000	0.000	0.000	0.381
SSW	0.000	0.000	0.000	0.238	0.000	0.000	0.000	0.000	0.000	0.238
SW	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.095
WSW	0.000	0.000	0.000	0.143	0.238	0.143	0.000	0.000	0.000	0.572
W	0.000	0.000	0.000	0.000	0.043	0.000	0.000	0.000	0.000	0.048
WNW	0.000	0.000	0.000	0.000	0.095	0.190	0.000	0.000	0.000	0.286
NW	0.000	0.000	0.000	0.000	0.190	0.143	0.000	0.000	0.000	0.333
NNW	0.000	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.095
TOTALS	0.000	0.000	1.571	1.476	1.429	1.476	0.000	0.000	0.000	5.952

TABLE 4 (continued)

STABILITY CLASS C

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.190	0.143	0.190	0.000	0.000	0.000	0.523
NNE	0.000	0.000	0.043	0.048	0.233	0.190	0.095	0.000	0.000	0.619
NE	0.000	0.000	0.000	0.143	0.095	0.095	0.000	0.000	0.000	0.333
ENE	0.000	0.000	0.043	0.143	0.000	0.048	0.000	0.000	0.000	0.239
E	0.000	0.000	0.000	0.048	0.095	0.000	0.000	0.000	0.000	0.143
ESE	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.095
SE	0.000	0.000	0.752	0.333	0.000	0.000	0.000	0.000	0.000	1.095
SSE	0.000	0.000	0.423	0.236	0.043	0.000	0.000	0.000	0.000	0.715
S	0.000	0.000	0.143	0.143	0.000	0.000	0.000	0.000	0.000	0.286
SSW	0.000	0.000	0.143	0.000	0.095	0.000	0.000	0.000	0.000	0.238
SW	0.000	0.000	0.048	0.333	0.143	0.048	0.000	0.000	0.000	0.572
WSW	0.000	0.000	0.000	0.333	0.236	0.000	0.000	0.000	0.000	0.572
W	0.000	0.000	0.048	0.048	0.095	0.095	0.000	0.000	0.000	0.286
WNW	0.000	0.000	0.000	0.236	0.286	0.143	0.143	0.000	0.000	0.310
NW	0.000	0.000	0.000	0.095	0.286	0.190	0.048	0.000	0.000	0.619
NNW	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.048
TOTALS	0.000	0.000	1.657	2.428	1.762	1.333	0.286	0.000	0.000	7.478

STABILITY CLASS D

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.003	0.000	0.423	0.752	0.714	0.571	0.000	0.000	0.000	2.479
NNE	0.001	0.048	0.143	0.333	0.381	0.391	0.000	0.000	0.000	1.287
NE	0.002	0.048	0.286	0.524	0.333	0.238	0.000	0.000	0.000	1.431
ENE	0.002	0.000	0.286	0.410	0.143	0.000	0.000	0.000	0.000	1.241
E	0.005	0.000	0.714	1.286	0.429	0.000	0.000	0.000	0.000	2.434
ESE	0.005	0.048	0.952	0.610	0.429	0.143	0.000	0.000	0.000	2.197
SE	0.021	0.048	3.223	1.286	0.143	0.000	0.000	0.000	0.000	4.736
SSE	0.010	0.048	1.524	0.236	0.048	0.000	0.000	0.000	0.000	1.916
S	0.015	0.286	2.233	0.714	0.000	0.000	0.000	0.000	0.000	3.254
SSW	0.009	0.190	1.233	0.333	0.000	0.000	0.000	0.000	0.000	1.770
SW	0.007	0.143	0.005	0.571	0.000	0.000	0.000	0.000	0.000	1.626
WSW	0.007	0.048	1.000	1.143	0.052	0.381	0.000	0.000	0.000	3.531
W	0.004	0.048	0.524	0.571	0.190	0.238	0.000	0.000	0.000	1.575
WNW	0.001	0.000	0.095	0.333	0.286	0.190	0.000	0.000	0.000	0.905
NW	0.001	0.000	0.190	0.286	0.381	0.286	0.000	0.000	0.000	1.144
NNW	0.001	0.000	0.143	0.236	0.381	0.095	0.048	0.000	0.000	0.954
TOTALS	0.096	0.955	13.705	10.143	4.813	2.523	0.048	0.000	0.000	32.479

TABLE 4 (continued)

STABILITY CLASS E

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.020	0.143	0.475	1.048	0.286	0.048	0.000	0.000	0.000	2.021
NNE	0.016	0.048	0.420	0.714	0.381	0.238	0.000	0.000	0.000	1.826
NE	0.017	0.190	0.333	0.296	0.095	0.048	0.000	0.000	0.000	0.969
ENE	0.025	0.286	0.310	0.571	0.095	0.000	0.000	0.000	0.000	1.798
E	0.024	0.143	1.000	1.276	0.143	0.000	0.000	0.000	0.000	2.610
ESE	0.027	0.762	2.170	0.391	0.524	0.000	0.000	0.000	0.000	3.954
SE	0.069	0.571	1.524	0.238	0.000	0.000	0.000	0.000	0.000	2.402
SSE	0.045	0.476	0.305	0.143	0.000	0.000	0.000	0.000	0.000	1.569
S	0.041	0.571	0.667	0.095	0.048	0.000	0.000	0.000	0.000	1.422
SSW	0.023	0.286	0.714	0.048	0.000	0.000	0.000	0.000	0.000	1.081
SW	0.017	0.190	0.333	0.000	0.000	0.000	0.000	0.000	0.000	0.540
WSW	0.025	0.190	0.571	0.147	0.048	0.048	0.000	0.000	0.000	1.025
W	0.031	0.143	0.310	0.310	0.095	0.048	0.000	0.000	0.000	1.937
WW	0.011	0.048	0.286	0.095	0.190	0.000	0.000	0.000	0.000	0.630
NW	0.003	0.048	0.190	0.095	0.095	0.000	0.000	0.000	0.000	0.436
NNW	0.020	0.048	0.571	0.910	0.190	0.143	0.000	0.000	0.000	1.782
TOTALS	0.524	4.143	11.809	6.762	2.190	0.573	0.000	0.000	0.000	26.001

STABILITY CLASS F

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.122	0.333	0.310	0.257	0.190	0.000	0.000	0.000	0.000	2.407
NNE	0.107	0.333	0.667	1.524	0.524	0.048	0.000	0.000	0.000	3.203
NE	0.082	0.381	0.361	0.377	0.190	0.000	0.000	0.000	0.000	1.367
ENE	0.124	0.476	1.233	0.238	0.000	0.000	0.000	0.000	0.000	2.136
E	0.117	0.095	1.000	0.333	0.000	0.000	0.000	0.000	0.000	1.545
ESE	0.051	0.238	0.233	0.048	0.000	0.000	0.000	0.000	0.000	0.575
SE	0.045	0.238	0.190	0.000	0.000	0.000	0.000	0.000	0.000	0.474
SSE	0.010	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.105
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.005	0.000	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.053
SW	0.010	0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.105
WSW	0.010	0.048	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.106
W	0.010	0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.105
WW	0.010	0.048	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.106
NW	0.015	0.048	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.158
NNW	0.077	0.095	0.619	0.147	0.048	0.000	0.000	0.000	0.000	0.982
TOTALS	0.356	2.424	5.572	3.577	0.752	0.048	0.000	0.000	0.000	13.427

TABLE 4 (continued)

STABILITY CLASS G										
WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED										
SECTOR	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	TOTALS
N	0.073	0.524	0.224	0.286	0.000	0.000	0.000	0.000	0.000	1.169
NNE	0.081	0.333	0.571	0.410	0.095	0.030	0.000	0.000	0.000	1.390
NE	0.087	0.476	0.476	0.238	0.000	0.000	0.000	0.000	0.000	1.275
ENE	0.047	0.095	0.429	0.170	0.000	0.000	0.000	0.000	0.000	0.761
E	0.017	0.000	0.190	0.075	0.000	0.000	0.000	0.000	0.000	0.302
ESE	0.000	0.000	0.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.095	0.050	0.000	0.000	0.000	0.000	0.000	0.104
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.004	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.004	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052
NNW	0.013	0.095	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.156
TOTALS	0.322	1.610	2.095	1.419	0.095	0.000	0.000	0.000	0.000	5.761

TABLE 5

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
GROUND-LEVEL JOINT
FREQUENCY DISTRIBUTION IN PERCENT
4 TH QUARTER 1986

STABILITY CLASS A

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.191	0.000	0.000	0.191
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.096	0.000	0.000	0.096
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.096	0.143	0.000	0.000	0.000	0.000	0.239
SE	0.000	0.000	0.043	0.430	0.143	0.000	0.000	0.000	0.000	0.621
SSE	0.000	0.000	0.000	0.191	0.000	0.000	0.000	0.000	0.000	0.191
S	0.000	0.000	0.096	0.143	0.000	0.000	0.000	0.000	0.000	0.239
SSW	0.000	0.000	0.000	0.000	0.043	0.000	0.000	0.000	0.000	0.048
SW	0.000	0.000	0.000	0.048	0.048	0.000	0.000	0.000	0.000	0.096
WSW	0.000	0.000	0.000	0.096	0.000	0.000	0.000	0.000	0.000	0.096
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.048
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.000	0.000	0.144	1.004	0.392	0.048	0.287	0.000	0.000	1.865

STABILITY CLASS B

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.096	0.048	0.043	0.000	0.000	0.192
NNE	0.000	0.000	0.000	0.000	0.191	0.048	0.000	0.000	0.000	0.239
NE	0.000	0.000	0.000	0.048	0.096	0.000	0.000	0.000	0.000	0.144
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.048	0.048	0.000	0.000	0.000	0.000	0.096
SE	0.000	0.000	0.096	0.335	0.096	0.000	0.000	0.000	0.000	0.527
SSE	0.000	0.000	0.096	0.143	0.000	0.000	0.000	0.000	0.000	0.239
S	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.048
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.048	0.096	0.000	0.000	0.000	0.144
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.048
NW	0.000	0.000	0.000	0.000	0.000	0.191	0.000	0.000	0.000	0.191
NNW	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.048
TOTALS	0.000	0.000	0.240	0.622	0.623	0.383	0.043	0.000	0.000	1.916

TABLE 5 (continued)

STABILITY CLASS C

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.096	0.096	0.000	0.000	0.000	0.192
NNE	0.000	0.000	0.000	0.048	0.096	0.191	0.000	0.000	0.000	0.335
NE	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.048
ENE	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.048
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.096	0.191	0.000	0.000	0.000	0.000	0.000	0.287
SE	0.000	0.000	0.239	0.237	0.048	0.000	0.000	0.000	0.000	0.574
SSE	0.000	0.000	0.096	0.096	0.000	0.000	0.000	0.000	0.000	0.192
S	0.000	0.000	0.191	0.191	0.000	0.000	0.000	0.000	0.000	0.382
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.143	0.000	0.048	0.000	0.000	0.000	0.191
WSW	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.048
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.096	0.048	0.239	0.000	0.000	0.000	0.383
NNW	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.048
TOTALS	0.000	0.000	0.622	1.100	0.384	0.622	0.000	0.000	0.000	2.728

STABILITY CLASS D

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.430	1.004	1.912	1.625	0.574	0.000	0.000	5.544
NNE	0.000	0.000	0.430	1.291	2.008	2.055	0.043	0.000	0.000	5.831
NE	0.000	0.000	0.287	0.765	0.717	0.287	0.000	0.000	0.000	2.056
ENE	0.000	0.000	0.143	0.430	0.335	0.430	0.000	0.000	0.000	1.338
E	0.000	0.000	0.430	0.239	0.287	0.143	0.000	0.000	0.000	1.099
ESE	0.000	0.000	0.287	0.621	0.382	0.096	0.000	0.000	0.000	1.386
SE	0.000	0.096	1.243	1.243	2.390	0.621	0.000	0.000	0.000	5.592
SSE	0.000	0.096	2.438	0.478	0.143	0.000	0.000	0.000	0.000	3.155
S	0.000	0.000	1.769	0.956	0.048	0.000	0.000	0.000	0.000	2.773
SSW	0.000	0.048	0.526	0.048	0.000	0.000	0.000	0.000	0.000	0.622
SW	0.000	0.048	0.237	0.526	0.000	0.048	0.000	0.000	0.000	0.909
WSW	0.000	0.000	0.237	0.621	0.191	0.239	0.000	0.000	0.000	1.290
W	0.000	0.000	0.096	0.621	0.908	1.099	0.000	0.000	0.000	2.724
WNW	0.000	0.048	0.143	1.052	1.052	1.721	0.430	0.000	0.000	4.445
NW	0.000	0.048	0.191	0.335	0.621	0.813	0.143	0.000	0.000	2.151
NNW	0.000	0.048	0.239	0.332	0.621	0.765	0.048	0.000	0.000	2.103
TOTALS	0.000	0.432	9.177	10.611	11.614	9.941	1.243	0.000	0.000	43.017

TABLE 5 (continued)

STABILITY CLASS E										
SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.019	0.096	0.621	0.755	0.382	0.430	0.000	0.000	0.000	2.313
NNE	0.025	0.096	0.313	0.860	1.195	0.765	0.000	0.000	0.000	3.754
NE	0.026	0.096	0.860	1.004	0.621	0.096	0.000	0.000	0.000	2.703
ENE	0.030	0.287	0.313	0.669	0.287	0.000	0.000	0.000	0.000	2.096
E	0.018	0.000	0.669	1.099	0.382	0.096	0.000	0.000	0.000	2.264
ESE	0.030	0.143	0.956	1.243	0.430	0.000	0.000	0.000	0.000	2.802
SE	0.063	0.621	1.721	1.386	0.621	0.048	0.000	0.000	0.000	4.459
SSE	0.031	0.526	0.621	0.287	0.096	0.000	0.000	0.000	0.000	1.561
S	0.012	0.048	0.382	0.430	0.526	0.239	0.000	0.000	0.000	1.637
SSW	0.005	0.048	0.143	0.000	0.096	0.048	0.000	0.000	0.000	0.340
SW	0.006	0.048	0.191	0.000	0.000	0.000	0.000	0.000	0.000	0.245
WSW	0.008	0.048	0.239	0.096	0.048	0.143	0.000	0.000	0.000	0.582
W	0.009	0.048	0.287	0.430	0.048	0.000	0.000	0.000	0.000	0.822
WNW	0.017	0.096	0.526	0.191	0.143	0.048	0.000	0.000	0.000	1.021
NW	0.010	0.048	0.335	0.430	0.335	0.048	0.000	0.000	0.000	1.206
NNW	0.026	0.048	0.904	1.052	0.574	0.335	0.000	0.000	0.000	2.943
TOTALS	0.335	2.297	10.084	9.941	5.793	2.296	0.000	0.000	0.000	30.735

STABILITY CLASS F										
SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.087	0.239	0.765	0.621	0.000	0.000	0.000	0.000	0.000	1.712
NNE	0.037	0.096	0.335	0.621	0.382	0.048	0.000	0.000	0.000	1.519
NE	0.029	0.096	0.239	0.191	0.048	0.048	0.000	0.000	0.000	0.651
ENE	0.054	0.143	0.473	0.297	0.000	0.000	0.000	0.000	0.000	0.962
E	0.053	0.239	0.430	0.574	0.048	0.000	0.000	0.000	0.000	1.349
ESE	0.029	0.048	0.287	0.000	0.000	0.000	0.000	0.000	0.000	0.364
SE	0.054	0.239	0.382	0.096	0.143	0.000	0.000	0.000	0.000	0.914
SSE	0.021	0.048	0.191	0.239	0.096	0.048	0.000	0.000	0.000	0.691
S	0.008	0.000	0.096	0.000	0.335	0.191	0.000	0.000	0.000	0.630
SSW	0.004	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052
SW	0.004	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052
WSW	0.004	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052
W	0.004	0.000	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.104
WNW	0.003	0.000	0.096	0.000	0.000	0.000	0.000	0.000	0.000	0.412
NW	0.029	0.048	0.287	0.000	0.048	0.000	0.000	0.000	0.000	1.192
NNW	0.046	0.143	0.382	0.430	0.191	0.000	0.000	0.000	0.000	1.192
TOTALS	0.476	1.483	4.015	3.059	1.291	0.335	0.048	0.000	0.000	10.707

TABLE 5 (continued)

STABILITY CLASS G										
SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.222	0.191	1.333	0.143	0.048	0.000	0.000	0.000	0.000	1.942
NNE	0.249	0.335	1.386	0.382	0.191	0.000	0.000	0.000	0.000	2.543
NE	0.159	0.191	0.903	0.000	0.000	0.000	0.000	0.000	0.000	1.253
ENE	0.139	0.143	0.313	0.335	0.000	0.000	0.000	0.000	0.000	1.430
E	0.014	0.000	0.096	0.000	0.000	0.000	0.000	0.000	0.000	0.110
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.035	0.096	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.274
SSE	0.021	0.096	0.343	0.143	0.096	0.000	0.000	0.000	0.000	0.404
S	0.014	0.048	0.343	0.000	0.000	0.000	0.000	0.000	0.000	0.110
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.007	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.007	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055
WNW	0.007	0.000	0.343	0.000	0.000	0.000	0.000	0.000	0.000	0.055
NW	0.014	0.000	0.096	0.000	0.000	0.000	0.000	0.000	0.000	0.110
NNW	0.069	0.191	0.287	0.096	0.048	0.000	0.000	0.000	0.000	0.691
TOTALS	0.957	1.387	5.210	1.099	0.383	0.000	0.000	0.000	0.000	9.036

TABLE 6

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA

SPLIT-LEVEL IN PERCENT

GROUND-LEVEL PORTION

3RD QUARTER 1986

STABILITY CLASS A

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.000	0.066	0.010	0.000	0.000	0.076
NNE	0.000	0.000	0.000	0.000	0.011	0.071	0.029	0.000	0.000	0.111
NE	0.000	0.000	0.000	0.001	0.000	0.023	0.019	0.000	0.000	0.043
ENE	0.000	0.000	0.000	0.000	0.005	0.007	0.000	0.000	0.000	0.012
E	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.005
ESE	0.000	0.000	0.005	0.051	0.036	0.000	0.000	0.000	0.000	0.092
SE	0.000	0.000	0.023	0.073	0.040	0.000	0.000	0.000	0.000	0.162
SSE	0.000	0.000	0.023	0.012	0.010	0.000	0.000	0.000	0.000	0.046
S	0.000	0.000	0.000	0.032	0.016	0.000	0.000	0.000	0.000	0.049
SSW	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.005
SW	0.000	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.013
WSW	0.000	0.000	0.000	0.000	0.023	0.023	0.000	0.000	0.000	0.054
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.011
NW	0.000	0.000	0.000	0.000	0.000	0.040	0.065	0.000	0.000	0.105
NNW	0.000	0.000	0.000	0.000	0.000	0.028	0.000	0.000	0.000	0.028
TOTALS	0.000	0.000	0.057	0.203	0.159	0.269	0.123	0.000	0.000	0.811

STABILITY CLASS B

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.027	0.030	0.000	0.000	0.000	0.057
NNE	0.000	0.000	0.000	0.000	0.007	0.053	0.000	0.000	0.000	0.060
NE	0.000	0.000	0.000	0.000	0.000	0.057	0.000	0.000	0.000	0.057
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.011
ESE	0.000	0.000	0.002	0.008	0.005	0.000	0.000	0.000	0.000	0.015
SE	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.017
SSE	0.000	0.000	0.004	0.000	0.029	0.000	0.000	0.000	0.000	0.033
S	0.000	0.000	0.002	0.008	0.014	0.000	0.000	0.000	0.000	0.024
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.004	0.024	0.025	0.000	0.000	0.000	0.063
W	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.005
WNW	0.000	0.000	0.000	0.000	0.008	0.024	0.000	0.000	0.000	0.032
NW	0.000	0.000	0.000	0.000	0.014	0.015	0.000	0.000	0.000	0.029
NNW	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.008
TOTALS	0.000	0.000	0.004	0.027	0.162	0.204	0.000	0.000	0.000	0.411

TABLE 6 (continued)

STABILITY CLASS C

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.98	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.002	0.011	0.023	0.000	0.000	0.000	0.037
NNE	0.000	0.000	0.000	0.000	0.016	0.023	0.020	0.000	0.000	0.064
NE	0.000	0.000	0.000	0.000	0.005	0.011	0.000	0.000	0.000	0.016
ENE	0.000	0.000	0.000	0.002	0.000	0.006	0.000	0.000	0.000	0.008
E	0.000	0.000	0.000	0.002	0.011	0.000	0.000	0.000	0.000	0.013
ESE	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.002
SE	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006
SSE	0.000	0.000	0.015	0.016	0.010	0.000	0.000	0.000	0.000	0.041
S	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
SSW	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
SW	0.000	0.000	0.000	0.000	0.005	0.010	0.000	0.000	0.000	0.020
WSW	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.009
W	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.016
WNW	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.017
NW	0.000	0.000	0.000	0.000	0.000	0.021	0.010	0.000	0.000	0.031
NNW	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.009
TOTALS	0.000	0.000	0.016	0.044	0.149	0.188	0.059	0.000	0.000	0.455

STABILITY CLASS D

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.98	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.012	0.045	0.084	0.000	0.000	0.000	0.162
NNE	0.000	0.000	0.000	0.005	0.021	0.063	0.000	0.000	0.000	0.093
NE	0.000	0.000	0.000	0.002	0.021	0.036	0.000	0.000	0.000	0.066
ENE	0.000	0.000	0.000	0.007	0.011	0.000	0.000	0.000	0.000	0.048
E	0.000	0.000	0.000	0.001	0.045	0.000	0.000	0.000	0.000	0.117
ESE	0.000	0.000	0.019	0.002	0.009	0.029	0.000	0.000	0.000	0.212
SE	0.000	0.000	0.121	0.129	0.029	0.000	0.000	0.000	0.000	0.339
SSE	0.000	0.000	0.067	0.032	0.010	0.000	0.000	0.000	0.000	0.109
S	0.000	0.000	0.067	0.060	0.000	0.000	0.000	0.000	0.000	0.127
SSW	0.000	0.000	0.045	0.027	0.000	0.000	0.000	0.000	0.000	0.072
SW	0.000	0.000	0.013	0.005	0.000	0.000	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.024	0.004	0.000	0.000	0.000	0.000	0.000	0.273
W	0.000	0.000	0.000	0.011	0.009	0.040	0.000	0.000	0.000	0.070
WNW	0.000	0.000	0.000	0.000	0.022	0.028	0.000	0.000	0.000	0.055
NW	0.000	0.000	0.000	0.002	0.025	0.040	0.000	0.000	0.000	0.067
NNW	0.000	0.000	0.000	0.004	0.003	0.016	0.010	0.000	0.000	0.063
TOTALS	0.000	0.000	1.362	0.627	0.522	0.401	0.010	0.000	0.000	1.925

TABLE 6 (continued)

STABILITY CLASS E

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.79	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.012	0.086	0.033	0.008	0.000	0.000	0.000	0.144
NNE	0.000	0.000	0.017	0.076	0.057	0.045	0.000	0.000	0.000	0.189
NE	0.000	0.001	0.005	0.021	0.012	0.009	0.000	0.000	0.000	0.049
NNE	0.000	0.008	0.017	0.051	0.011	0.000	0.000	0.000	0.000	0.087
E	0.000	0.000	0.025	0.105	0.020	0.000	0.000	0.000	0.000	0.150
ESE	0.000	0.011	0.115	0.032	0.105	0.000	0.000	0.000	0.000	0.264
SE	0.000	0.011	0.116	0.032	0.000	0.000	0.000	0.000	0.000	0.160
SSE	0.000	0.009	0.073	0.021	0.000	0.000	0.000	0.000	0.000	0.100
S	0.000	0.000	0.036	0.015	0.010	0.000	0.000	0.000	0.000	0.070
SSW	0.000	0.000	0.023	0.004	0.000	0.000	0.000	0.000	0.000	0.027
SW	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003
WSW	0.000	0.000	0.015	0.005	0.007	0.009	0.000	0.000	0.000	0.036
W	0.000	0.000	0.003	0.034	0.009	0.009	0.000	0.000	0.000	0.060
WNW	0.000	0.000	0.000	0.002	0.022	0.000	0.000	0.000	0.000	0.024
NW	0.000	0.000	0.004	0.004	0.011	0.000	0.000	0.000	0.000	0.019
NNW	0.000	0.000	0.012	0.056	0.027	0.027	0.000	0.000	0.000	0.122
TOTALS	0.000	0.049	0.472	0.545	0.330	0.107	0.000	0.000	0.000	1.503

STABILITY CLASS F

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.79	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.041	0.116	0.030	0.000	0.000	0.000	0.000	0.188
NNE	0.000	0.006	0.034	0.200	0.079	0.009	0.000	0.000	0.000	0.339
NE	0.000	0.010	0.015	0.042	0.073	0.000	0.000	0.000	0.000	0.101
NNE	0.000	0.014	0.027	0.034	0.000	0.000	0.000	0.000	0.000	0.076
E	0.000	0.000	0.020	0.017	0.000	0.000	0.000	0.000	0.000	0.038
ESE	0.000	0.008	0.013	0.003	0.000	0.000	0.000	0.000	0.000	0.025
SE	0.000	0.009	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.013
SSE	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.007
SW	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002
WSW	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.010	0.017	0.019	0.007	0.000	0.000	0.000	0.000	0.043
TOTALS	0.000	0.039	0.123	0.401	0.150	0.009	0.000	0.000	0.000	0.847

TABLE 6 (continued)

STABILITY CLASS G

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.95	2.88	4.45	6.91	9.59	10.95	
N	0.001	0.007	0.010	0.038	0.000	0.000	0.000	0.000	0.000	0.056
NNE	0.002	0.004	0.025	0.113	0.016	0.000	0.000	0.000	0.000	0.161
NE	0.001	0.001	0.005	0.034	0.000	0.000	0.000	0.000	0.000	0.042
NNE	0.001	0.000	0.010	0.019	0.000	0.000	0.000	0.000	0.000	0.030
E	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.004
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.001	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.005	0.020	0.052	0.204	0.016	0.000	0.000	0.000	0.000	0.308

TABLE 6

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
SPLIT-LEVEL IN PERCENT
ELEVATED PORTION
3 RD QUARTER 1986

STABILITY CLASS A

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.89	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

STABILITY CLASS B

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.89	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TABLE 6 (continued)

STABILITY CLASS C

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.79	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.014	0.060	0.000	0.000	0.084
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000	0.039
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.000	0.000	0.000	0.000	0.000	0.034	0.039	0.000	0.000	0.123

STABILITY CLASS D

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.79	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.191	0.374	0.700	1.605	0.157	0.000	0.000	2.987
NNE	0.000	0.000	0.143	0.374	0.722	2.051	0.618	0.038	0.000	4.106
NE	0.000	0.000	0.191	0.392	0.724	0.502	0.116	0.000	0.000	1.515
ENE	0.000	0.000	0.095	0.430	0.182	0.158	0.000	0.000	0.000	0.875
E	0.000	0.000	0.286	0.171	0.683	0.523	0.000	0.000	0.000	1.683
ESE	0.000	0.000	0.181	0.239	0.444	0.726	0.000	0.000	0.000	1.800
SE	0.000	0.000	0.575	2.100	1.017	1.929	0.618	0.146	0.000	7.394
SSE	0.000	0.048	1.300	1.394	1.058	1.993	1.046	0.074	0.000	6.652
S	0.000	0.000	0.563	1.422	1.253	1.566	0.504	0.000	0.000	5.423
SSW	0.000	0.000	0.266	1.623	1.011	0.461	0.348	0.072	0.000	3.896
SW	0.000	0.143	0.359	1.337	1.013	1.158	0.315	0.000	0.000	4.835
WSW	0.000	0.000	0.430	1.623	0.707	0.790	0.513	0.000	0.000	4.143
W	0.000	0.000	0.191	0.811	0.934	0.596	0.156	0.000	0.000	2.638
WNW	0.000	0.000	0.143	0.477	0.542	0.932	0.115	0.000	0.000	2.209
NW	0.000	0.000	0.143	0.286	0.936	1.059	0.351	0.000	0.000	2.675
NNW	0.000	0.048	0.239	0.374	0.368	0.635	0.117	0.027	0.000	1.768
TOTALS	0.000	0.334	6.680	13.316	10.123	16.702	4.974	0.357	0.000	54.486

TABLE 6 (continued)

STABILITY CLASS E

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.17	0.45	1.10	1.99	2.98	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.143	0.143	0.542	1.207	0.079	0.000	0.000	2.217
NNE	0.000	0.000	0.143	0.573	0.460	1.713	0.430	0.000	0.000	3.322
NE	0.000	0.048	0.043	0.239	0.000	0.423	0.157	0.000	0.000	1.007
ENE	0.000	0.000	0.239	0.199	0.127	0.126	0.000	0.000	0.000	0.699
E	0.000	0.000	0.095	0.296	0.700	0.597	0.000	0.000	0.000	1.490
ESE	0.000	0.000	0.382	0.355	1.061	0.638	0.000	0.000	0.000	3.044
SE	0.010	0.143	0.716	1.432	1.064	0.258	0.000	0.000	0.000	3.631
SSE	0.015	0.000	0.716	0.621	0.760	0.874	0.119	0.000	0.000	3.085
S	0.010	0.143	0.334	0.525	0.276	0.592	0.116	0.000	0.000	1.996
SSW	0.000	0.000	0.334	0.334	0.550	0.463	0.000	0.000	0.000	1.689
SW	0.000	0.043	0.191	0.716	0.193	0.342	0.039	0.000	0.000	1.574
WSW	0.004	0.000	0.191	0.558	0.197	0.215	0.039	0.000	0.000	1.304
W	0.000	0.000	0.233	0.276	0.604	0.044	0.000	0.000	0.000	1.179
WNW	0.000	0.000	0.143	0.525	0.322	0.168	0.039	0.000	0.000	1.200
NW	0.004	0.000	0.191	0.621	0.741	0.255	0.038	0.000	0.000	1.850
NNW	0.004	0.000	0.191	0.477	0.224	0.510	0.000	0.000	0.000	1.406
TOTALS	0.000	0.342	4.226	8.501	7.780	8.424	1.056	0.000	0.000	30.627

STABILITY CLASS F

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.17	0.45	1.10	1.99	2.98	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.126	0.253	0.000	0.000	0.000	0.389
NNE	0.000	0.000	0.043	0.048	0.184	1.318	0.159	0.000	0.000	1.756
NE	0.000	0.000	0.000	0.239	0.193	0.460	0.079	0.000	0.000	0.960
ENE	0.000	0.000	0.000	0.239	0.139	0.290	0.000	0.000	0.000	0.667
E	0.000	0.000	0.000	0.048	0.228	0.213	0.000	0.000	0.000	0.489
ESE	0.000	0.000	0.000	0.095	0.275	0.086	0.000	0.000	0.000	0.456
SE	0.000	0.048	0.095	0.392	0.000	0.000	0.000	0.000	0.000	0.525
SSE	0.000	0.000	0.143	0.239	0.043	0.126	0.000	0.000	0.000	0.556
S	0.000	0.000	0.000	0.000	0.045	0.213	0.000	0.000	0.000	0.353
SSW	0.000	0.000	0.000	0.048	0.140	0.169	0.000	0.000	0.000	0.357
SW	0.000	0.000	0.043	0.143	0.000	0.000	0.000	0.000	0.000	0.191
WSW	0.000	0.000	0.043	0.048	0.045	0.000	0.000	0.000	0.000	0.142
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.048	0.046	0.000	0.000	0.000	0.000	0.094
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.043	0.048	0.044	0.000	0.000	0.000	0.000	0.140
TOTALS	0.000	0.048	0.430	1.720	1.513	3.128	0.236	0.000	0.000	7.074

TABLE 6 (continued)

STABILITY CLASS G										
WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED										
SECTOR	0.13	0.45	1.10	1.99	2.98	4.45	6.91	9.59	10.95	TOTALS
N	0.000	0.000	0.000	0.000	0.000	0.084	0.000	0.000	0.000	0.084
NNE	0.000	0.000	0.048	0.000	0.229	0.536	0.000	0.000	0.000	0.813
NE	0.000	0.000	0.000	0.000	0.136	0.128	0.000	0.000	0.000	0.264
ENE	0.000	0.000	0.000	0.000	0.000	0.034	0.000	0.000	0.000	0.034
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.044	0.000	0.000	0.000	0.044
SE	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.048
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.048
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.000	0.000	0.048	0.048	0.413	0.875	0.000	0.000	0.000	1.385

TABLE 7

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
 SPLIT-LEVEL JFD IN PERCENT
 GROUND LEVEL PORTION
 4TH QUARTER 1986

STABILITY CLASS A

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.038
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.000	0.000	0.018
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.003	0.018	0.030	0.000	0.000	0.000	0.021
SE	0.000	0.000	0.000	0.018	0.018	0.000	0.000	0.000	0.000	0.036
SSE	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
S	0.000	0.000	0.004	0.012	0.000	0.000	0.000	0.000	0.000	0.016
SSW	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.008
SW	0.000	0.000	0.000	0.006	0.008	0.000	0.000	0.000	0.000	0.014
WSW	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.000	0.000	0.014
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.008
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.000	0.000	0.004	0.061	0.052	0.008	0.056	0.000	0.000	0.181

STABILITY CLASS B

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.009	0.006	0.010	0.000	0.000	0.025
NNE	0.000	0.000	0.000	0.000	0.014	0.006	0.000	0.000	0.000	0.020
NE	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.009
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.002	0.007	0.000	0.000	0.000	0.000	0.009
SE	0.000	0.000	0.000	0.004	0.012	0.000	0.000	0.000	0.000	0.016
SSE	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.003
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.008	0.017	0.000	0.000	0.000	0.025
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.000	0.000	0.030
NNW	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.004
TOTALS	0.000	0.000	0.000	0.009	0.063	0.059	0.010	0.000	0.000	0.141

TABLE 7 (continued)

STABILITY CLASS C

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.006	0.015	0.000	0.000	0.000	0.021
NNE	0.000	0.000	0.000	0.000	0.006	0.026	0.000	0.000	0.000	0.032
NE	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.003
ENE	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.003
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.005
SE	0.000	0.000	0.002	0.012	0.009	0.000	0.000	0.000	0.000	0.023
SSE	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.007
S	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.018	0.000	0.009	0.000	0.000	0.000	0.027
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.004	0.029	0.000	0.000	0.000	0.033
NNW	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.007
TOTALS	0.000	0.000	0.009	0.041	0.031	0.086	0.000	0.000	0.000	0.167

STABILITY CLASS D

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.015	0.154	0.241	0.115	0.000	0.000	0.525
NNE	0.000	0.000	0.000	0.012	0.164	0.292	0.009	0.000	0.000	0.477
NE	0.000	0.000	0.000	0.011	0.053	0.042	0.000	0.000	0.000	0.106
ENE	0.000	0.000	0.000	0.012	0.032	0.061	0.000	0.000	0.000	0.105
E	0.000	0.000	0.002	0.008	0.035	0.022	0.000	0.000	0.000	0.067
ESE	0.000	0.000	0.000	0.034	0.051	0.015	0.000	0.000	0.000	0.100
SE	0.000	0.000	0.032	0.100	0.456	0.148	0.000	0.000	0.000	0.736
SSE	0.000	0.000	0.103	0.064	0.027	0.000	0.000	0.000	0.000	0.199
S	0.000	0.000	0.059	0.101	0.006	0.000	0.000	0.000	0.000	0.166
SSW	0.000	0.000	0.018	0.007	0.000	0.000	0.000	0.000	0.000	0.025
SW	0.000	0.000	0.005	0.017	0.000	0.009	0.000	0.000	0.000	0.031
WSW	0.000	0.000	0.009	0.052	0.027	0.043	0.000	0.000	0.000	0.131
W	0.000	0.000	0.000	0.025	0.093	0.180	0.000	0.000	0.000	0.298
WNW	0.000	0.000	0.000	0.005	0.069	0.259	0.083	0.000	0.000	0.416
NW	0.000	0.000	0.000	0.003	0.045	0.128	0.033	0.000	0.000	0.209
NNW	0.000	0.000	0.000	0.002	0.053	0.114	0.009	0.000	0.000	0.184
TOTALS	0.000	0.000	0.233	0.474	1.265	1.554	0.249	0.000	0.000	3.775

TABLE 7 (continued)

STABILITY CLASS E

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.013	0.046	0.051	0.074	0.000	0.000	0.000	0.184
NNE	0.000	0.000	0.013	0.075	0.144	0.117	0.000	0.000	0.000	0.349
NE	0.000	0.000	0.011	0.096	0.072	0.014	0.000	0.000	0.000	0.183
ENE	0.001	0.000	0.027	0.059	0.037	0.000	0.000	0.000	0.000	0.124
E	0.001	0.000	0.017	0.096	0.050	0.014	0.000	0.000	0.000	0.178
ESE	0.000	0.000	0.009	0.095	0.067	0.000	0.000	0.000	0.000	0.171
SE	0.004	0.028	0.100	0.183	0.112	0.018	0.000	0.000	0.000	0.445
SSE	0.002	0.010	0.042	0.042	0.038	0.000	0.000	0.000	0.000	0.134
S	0.001	0.000	0.041	0.069	0.164	0.127	0.000	0.000	0.000	0.402
SSW	0.000	0.000	0.007	0.000	0.019	0.018	0.000	0.000	0.000	0.044
SW	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.007
WSW	0.000	0.000	0.000	0.010	0.007	0.027	0.000	0.000	0.000	0.044
W	0.000	0.000	0.003	0.027	0.005	0.000	0.000	0.000	0.000	0.035
WNW	0.000	0.000	0.001	0.012	0.017	0.007	0.000	0.000	0.000	0.037
NW	0.000	0.000	0.000	0.028	0.044	0.009	0.000	0.000	0.000	0.081
NNW	0.000	0.000	0.009	0.066	0.073	0.057	0.000	0.000	0.000	0.205
TOTALS	0.009	0.038	0.300	0.894	0.900	0.492	0.000	0.000	0.000	2.623

STABILITY CLASS F

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.021	0.069	0.000	0.000	0.000	0.000	0.000	0.090
NNE	0.000	0.001	0.019	0.066	0.054	0.009	0.000	0.000	0.000	0.148
NE	0.000	0.009	0.000	0.020	0.008	0.008	0.000	0.000	0.000	0.045
ENE	0.000	0.010	0.008	0.022	0.000	0.000	0.000	0.000	0.000	0.040
E	0.000	0.001	0.009	0.046	0.008	0.000	0.000	0.000	0.000	0.064
ESE	0.000	0.006	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.017
SE	0.000	0.017	0.026	0.015	0.024	0.000	0.000	0.000	0.000	0.082
SSE	0.000	0.007	0.024	0.054	0.039	0.035	0.009	0.000	0.000	0.168
S	0.000	0.000	0.018	0.000	0.112	0.070	0.000	0.000	0.000	0.200
SSW	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.004	0.000	0.007	0.000	0.000	0.000	0.000	0.011
NNW	0.000	0.000	0.013	0.047	0.030	0.000	0.000	0.000	0.000	0.090
TOTALS	0.000	0.057	0.152	0.339	0.282	0.122	0.009	0.000	0.000	0.961

TABLE 7 (continued)

STABILITY CLASS G

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.001	0.000	0.026	0.018	0.008	0.000	0.000	0.000	0.000	0.053
NNE	0.001	0.000	0.017	0.044	0.031	0.000	0.000	0.000	0.000	0.093
NE	0.001	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.025
ENE	0.001	0.000	0.014	0.024	0.000	0.000	0.000	0.000	0.000	0.039
E	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.028	0.032	0.000	0.000	0.000	0.000	0.060
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.003	0.014	0.008	0.000	0.000	0.000	0.000	0.025
TOTALS	0.004	0.000	0.086	0.128	0.079	0.000	0.000	0.000	0.000	0.297

TABLE 7 (continued)

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
 SPLIT-LEVEL JFD IN PERCENT
 ELEVATED PORTION
 4 TH QUARTER 1986

STABILITY CLASS A

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE						SECTORS INDICATED			TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

STABILITY CLASS B

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE						SECTORS INDICATED			TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047
SE	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047

TABLE 7 (continued)

STABILITY CLASS C

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
WSW	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
W	0.000	0.000	0.000	0.000	0.000	0.042	0.000	0.000	0.000	0.042
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.000	0.000	0.000	0.141	0.000	0.042	0.000	0.000	0.000	0.183

STABILITY CLASS D

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.002	0.000	0.237	0.352	1.282	2.837	1.034	0.036	0.000	6.280
NNE	0.003	0.047	0.284	1.038	2.182	4.259	0.779	0.000	0.000	8.643
NE	0.001	0.000	0.142	0.426	0.870	0.635	0.000	0.000	0.000	2.074
ENE	0.003	0.000	0.284	0.142	0.314	0.501	0.000	0.000	0.000	1.244
E	0.002	0.000	0.237	0.379	0.316	0.497	0.039	0.000	0.000	1.470
ESE	0.003	0.047	0.284	0.757	0.864	0.945	0.000	0.000	0.000	2.900
SE	0.009	0.095	0.352	1.136	1.009	1.608	2.613	0.063	0.010	7.396
SSE	0.005	0.000	0.521	0.331	0.678	1.373	0.652	0.098	0.000	3.658
S	0.005	0.047	0.521	0.521	0.548	1.372	0.382	0.411	0.000	3.807
SSW	0.002	0.000	0.237	0.189	0.553	0.958	0.116	0.057	0.000	2.112
SW	0.002	0.000	0.237	0.379	0.364	0.835	0.389	0.000	0.000	2.206
WSW	0.001	0.000	0.142	0.426	0.089	0.534	0.267	0.000	0.000	1.461
W	0.002	0.000	0.237	0.331	0.368	0.951	0.954	0.000	0.000	2.743
WNW	0.003	0.047	0.237	0.710	0.775	1.499	0.616	0.000	0.000	3.887
NW	0.002	0.000	0.237	0.426	0.497	1.365	0.467	0.032	0.000	3.026
NNW	0.002	0.000	0.189	0.426	0.597	1.497	0.155	0.000	0.000	2.866
TOTALS	0.047	0.283	4.378	8.520	11.307	21.668	9.366	0.697	0.010	55.775

TABLE 7 (continued)

STABILITY CLASS E

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE						SECTORS INDICATED			TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.008	0.000	0.189	0.379	0.499	0.539	0.079	0.000	0.000	1.693
NNE	0.000	0.000	0.000	0.426	0.216	0.954	0.079	0.000	0.000	2.274
NE	0.008	0.047	0.142	0.237	0.318	1.171	0.000	0.000	0.000	2.423
ENE	0.021	0.047	0.426	0.142	0.324	0.376	0.000	0.000	0.000	1.336
E	0.008	0.000	0.189	0.426	0.772	1.096	0.000	0.000	0.000	2.491
ESE	0.021	0.000	0.473	0.805	0.900	1.016	0.039	0.000	0.000	3.254
SE	0.025	0.095	0.473	0.757	1.231	1.049	0.233	0.026	0.000	3.889
SSE	0.016	0.142	0.237	0.331	0.135	0.423	0.039	0.048	0.000	1.370
S	0.008	0.047	0.142	0.142	0.403	0.248	0.457	0.111	0.000	1.563
SSW	0.004	0.047	0.047	0.237	0.094	0.168	0.078	0.017	0.000	0.692
SW	0.014	0.047	0.284	0.237	0.139	0.086	0.000	0.000	0.000	0.807
WSW	0.014	0.095	0.237	0.189	0.044	0.042	0.000	0.000	0.000	0.621
W	0.006	0.000	0.142	0.095	0.317	0.128	0.000	0.000	0.000	0.688
WNW	0.006	0.047	0.095	0.237	0.045	0.168	0.000	0.000	0.000	0.598
NW	0.021	0.142	0.331	0.047	0.093	0.167	0.079	0.000	0.000	0.980
NNW	0.008	0.047	0.142	0.379	0.451	0.916	0.236	0.000	0.000	2.179
TOTALS	0.188	0.803	3.549	5.066	7.087	8.548	1.317	0.202	0.000	26.760

STABILITY CLASS F

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE						SECTORS INDICATED			TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.004	0.000	0.047	0.142	0.045	0.336	0.000	0.000	0.000	0.574
NNE	0.000	0.000	0.000	0.095	0.091	0.411	0.113	0.000	0.000	0.715
NE	0.004	0.000	0.047	0.142	0.226	0.377	0.039	0.000	0.000	0.835
ENE	0.008	0.000	0.095	0.331	0.137	0.212	0.000	0.000	0.000	0.783
E	0.017	0.047	0.142	0.189	0.123	0.292	0.000	0.000	0.000	1.010
ESE	0.029	0.047	0.284	0.237	0.182	0.044	0.000	0.000	0.000	0.823
SE	0.021	0.047	0.189	0.237	0.137	0.044	0.000	0.000	0.000	0.675
SSE	0.017	0.095	0.095	0.000	0.044	0.084	0.000	0.000	0.000	0.335
S	0.008	0.000	0.095	0.000	0.046	0.081	0.000	0.000	0.000	0.230
SSW	0.025	0.047	0.237	0.047	0.044	0.000	0.000	0.000	0.000	0.400
SW	0.013	0.047	0.095	0.047	0.000	0.000	0.000	0.000	0.000	0.202
WSW	0.013	0.047	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.155
W	0.004	0.000	0.047	0.095	0.000	0.000	0.000	0.000	0.000	0.146
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.013	0.000	0.142	0.000	0.000	0.000	0.000	0.000	0.000	0.155
NNW	0.013	0.047	0.095	0.047	0.000	0.123	0.000	0.000	0.000	0.325
TOTALS	0.189	0.424	1.705	1.609	1.275	2.004	0.157	0.000	0.000	7.364

TABLE 7 (continued)

STABILITY CLASS G

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.000	0.000	0.000	0.095	0.093	0.129	0.000	0.000	0.000	0.317
NNE	0.005	0.047	0.000	0.000	0.044	0.204	0.000	0.000	0.000	0.300
NE	0.000	0.000	0.000	0.000	0.047	0.041	0.000	0.000	0.000	0.088
ENE	0.005	0.000	0.047	0.047	0.044	0.000	0.000	0.000	0.000	0.143
E	0.000	0.000	0.000	0.000	0.047	0.042	0.000	0.000	0.000	0.089
ESE	0.005	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.052
SE	0.005	0.000	0.047	0.189	0.047	0.000	0.000	0.000	0.000	0.288
SSE	0.009	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.103
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.005	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052
SW	0.009	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.104
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
NNW	0.005	0.000	0.047	0.095	0.000	0.000	0.000	0.000	0.000	0.147
TOTALS	0.043	0.236	0.235	0.426	0.363	0.416	0.000	0.000	0.000	1.729

TABLE 8

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
ELEVATED JFD IN PERCENT
3 RD QUARTER 1986

STABILITY CLASS D

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.43	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.001	0.000	0.188	0.470	0.987	3.103	2.586	0.376	0.000	7.712
NNE	0.002	0.047	0.188	0.376	0.752	2.539	3.714	1.175	0.000	8.794
NE	0.002	0.047	0.188	0.232	0.517	1.316	1.363	0.470	0.000	4.185
ENE	0.002	0.000	0.235	0.122	0.141	0.705	0.946	0.000	0.000	2.258
E	0.002	0.047	0.188	0.122	0.517	1.787	0.329	0.000	0.000	3.293
ESE	0.003	0.047	0.423	1.191	0.246	2.774	1.593	0.047	0.000	6.915
SE	0.004	0.047	0.611	2.162	1.316	3.385	2.163	0.752	0.047	10.489
SSE	0.007	0.034	1.034	1.222	1.316	4.043	2.116	0.235	0.000	10.068
S	0.004	0.047	0.564	1.222	1.740	3.009	1.363	0.141	0.000	8.091
SSW	0.004	0.000	0.564	0.940	1.175	1.740	1.222	0.376	0.000	6.022
SW	0.004	0.034	0.564	1.175	1.269	2.586	2.398	0.235	0.000	8.326
WSW	0.003	0.000	0.423	1.081	1.175	1.787	1.787	0.141	0.000	6.398
W	0.004	0.034	0.470	0.937	1.175	1.222	0.235	0.141	0.047	4.375
WNW	0.002	0.034	0.141	0.705	1.174	3.056	0.176	0.141	0.000	5.550
NW	0.002	0.047	0.282	0.470	1.129	1.740	0.517	0.188	0.000	4.374
NNW	0.002	0.047	0.329	0.292	0.517	1.222	0.705	0.047	0.000	3.151
TOTALS	0.043	0.752	6.393	13.209	15.606	36.017	23.415	4.465	0.094	100.000

TABLE 9

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
ELEVATED JFD IN PERCENT
4 TH QUARTER 1986

STABILITY CLASS 0										
SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED									TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95	
N	0.023	0.097	0.386	0.676	1.208	4.058	2.367	1.304	0.000	10.119
NNE	0.025	0.048	0.483	0.725	2.174	4.638	3.043	0.435	0.000	11.571
NE	0.021	0.145	0.290	0.531	1.014	2.560	2.271	0.242	0.000	7.074
ENE	0.007	0.000	0.145	0.386	0.435	1.159	0.966	0.000	0.000	3.098
E	0.037	0.097	0.676	0.580	0.628	1.546	1.111	0.000	0.000	4.675
ESE	0.037	0.097	0.676	1.208	1.111	2.319	2.350	0.870	0.000	9.168
SE	0.032	0.097	0.580	1.063	1.304	2.850	3.189	2.995	0.628	12.737
SSE	0.025	0.097	0.435	0.386	0.676	3.043	1.691	0.580	0.048	6.981
S	0.023	0.145	0.339	0.386	0.386	1.884	1.159	1.353	0.290	5.964
SSW	0.027	0.000	0.580	0.435	0.580	1.643	0.725	0.242	0.000	4.232
SW	0.018	0.000	0.386	0.580	0.193	1.208	1.304	0.145	0.000	3.934
WSW	0.011	0.000	0.242	0.290	0.290	0.773	0.242	0.097	0.000	1.945
W	0.023	0.048	0.435	0.628	0.386	0.725	1.353	0.386	0.000	3.984
WNW	0.014	0.000	0.290	0.628	1.111	1.739	1.159	0.242	0.000	5.183
NW	0.039	0.145	0.676	0.290	0.676	1.063	1.449	0.193	0.000	4.531
NNW	0.025	0.048	0.433	0.290	0.725	1.691	1.208	0.435	0.000	4.905
TOTALS	0.387	1.064	7.101	9.082	12.997	32.899	25.086	9.519	0.966	100.001

TABLE 10
BROWNS FERRY NUCLEAR PLANT - INDIVIDUAL DOSES FROM
GASEOUS EFFLUENTS
THIRD QUARTER 1986

<u>Effluent</u>	<u>Pathway</u>	<u>Guideline*</u>	<u>Point</u>	<u>Dose</u>
Noble gases	γ Air dose	30	Max. Exp. ¹	5.4×10^{-9} mrad
	β Air dose	60	Max. Exp.	9.5×10^{-7} mrad
	Total body ²	15	Residence	0.0 mrem
	Skin ²	45	Residence	0.0 mrem
Iodines/				
Particulates	Liver	45	Real ³	6.2×10^{-4} mrem
	(critical organ)		Pathway	

Breakdown of Iodine/Particulate Exposures (mrem)

	<u>Child</u>	<u>Adult</u>
Vegetable ingestion	4.93×10^{-4}	1.83×10^{-4}
Beef ingestion ⁴	1.61×10^{-5}	1.62×10^{-5}
Inhalation	1.37×10^{-5}	1.04×10^{-5}
Ground contamination	9.79×10^{-5}	9.79×10^{-5}
Total	6.21×10^{-4}	3.08×10^{-4}

*These are the annual guidelines per unit defined by Appendix I to 10 CFR 50.

1. Maximum offsite exposure point is 1525 meters in the N sector.
2. Dose from air submersion.
3. Real receptor is located at 1650 meters in the NNW sector.
4. Beef ingestion dose is calculated at the site boundary at 1650 meters in the NNW sector.

TABLE 11

BROWNS FERRY NUCLEAR PLANT - INDIVIDUAL DOSES FROM
GASEOUS EFFLUENTS
FOURTH QUARTER 1986

<u>Effluent</u>	<u>Pathway</u>	<u>Guideline*</u>	<u>Point</u>	<u>Dose</u>
Noble gases	γ Air dose	30	Max. Exp. ¹	1.1×10^{-8} mrad
	β Air dose	60	Max. Exp. ¹	7.0×10^{-7} mrad
	Total body ²	15	Residence	0.0 mrem
	Skin ²	45	Residence	0.0 mrem
Iodines/				
Particulates	Liver	45	Real	2.9×10^{-4} mrem
	(critical organ)		Pathway ³	

Breakdown of Iodine/Particulate Exposures (mrem)

	<u>Child</u>	<u>Adult</u>
Vegetable ingestion	1.7×10^{-4}	7.2×10^{-5}
Beef ingestion ¹	1.3×10^{-5}	1.5×10^{-5}
Inhalation	1.1×10^{-5}	8.5×10^{-6}
Ground contamination	1.0×10^{-4}	1.0×10^{-4}
Total	2.9×10^{-4}	2.0×10^{-4}

*These are the annual guidelines per unit defined by Appendix I to 10 CFR 50.

1. Maximum offsite exposure point is at 2275 meters in the E/W sector.
2. Dose from air submersion.
3. Receptor is located at 1620 meters in the N sector.

TABLE 12

BROWNS FERRY NUCLEAR PLANT

BFN -- 3Q86 QUARTERLY ASSESSMENT

SUMMATION OF POPULATION DOSES

	INFANT	CHILD	LIVER TEEN	ADULT	TOTALS	INFANT	BONE CHILD	TEEN	ADULT	TOTALS
SUBMERSION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	4.45E-06	2.77E-05	1.76E-05	8.17E-05	1.32E-04	4.45E-06	2.77E-05	1.76E-05	8.17E-05	1.32E-04
INHALATION	2.35E-06	3.77E-05	1.82E-05	8.44E-05	1.43E-04	5.70E-08	8.72E-07	2.76E-07	9.24E-07	2.13E-06
COW MILK	1.86E-05	6.86E-05	2.19E-05	9.08E-05	2.00E-04	7.40E-06	2.89E-05	6.29E-06	2.08E-05	6.33E-05
BEEF INGESTION	0.00E+00	1.22E-05	6.16E-05	3.91E-05	5.74E-05	0.00E+00	7.17E-06	2.49E-06	1.32E-05	2.29E-05
VEG INGESTION	0.00E+00	8.99E-06	4.63E-06	2.87E-05	4.23E-05	0.00E+00	4.27E-06	1.50E-06	7.56E-06	1.33E-05
TOTAL MAN-REM	2.54E-05	1.55E-04	6.86E-05	3.25E-04	5.74E-04	1.19E-05	6.89E-05	2.82E-05	1.24E-04	2.33E-04

BFN -- 4Q86 QUARTERLY ASSESSMENT

SUMMATION OF POPULATION DOSES

	INFANT	CHILD	LIVER TEEN	ADULT	TOTALS	INFANT	BONE CHILD	TEEN	ADULT	TOTALS
SUBMERSION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	6.04E-06	3.76E-05	2.40E-05	1.11E-04	1.79E-04	6.04E-06	3.76E-05	2.40E-05	1.11E-04	1.79E-04
INHALATION	1.75E-06	2.81E-05	1.36E-05	6.32E-05	1.07E-04	1.79E-08	2.85E-07	9.36E-08	3.24E-07	7.21E-07
COW MILK	2.80E-05	1.03E-04	3.53E-05	1.35E-04	3.01E-04	7.31E-06	3.27E-05	8.44E-06	3.21E-05	8.06E-05
BEEF INGESTION	0.00E+00	1.41E-05	7.63E-06	4.71E-05	6.88E-05	0.00E+00	4.86E-06	1.94E-06	1.16E-05	1.84E-05
VEG INGESTION	0.00E+00	7.29E-06	3.93E-06	2.43E-05	3.55E-05	0.00E+00	1.99E-06	7.76E-07	4.27E-06	7.03E-06
TOTAL MAN-REM	3.57E-05	1.90E-04	8.44E-05	3.80E-04	6.91E-04	1.34E-05	7.75E-05	3.52E-05	1.59E-04	2.85E-04

TABLE 13

BROWNS FERRY NUCLEAR PLANT

LIQUID EFFLUENT DOSCS
BROWNS FERRY NUCLEAR PLANT ROUTINE RELEASES 3RD QUARTER-1986

T. WATER INGESTION AT U.S. PLAYBOY-CHAMPION PAPER		BONE =====	GI TRACT =====	THYROID =====	TOTAL BODY =====	LIVER =====	SKIN =====
A. MAXIMUM INDIVIDUAL CHILD (MREM)	5.2E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	5.8E-03	1.0E-03
B. MAXIMUM INDIVIDUAL ADULT (MREM)	1.0E-03	3.0E-03	2.1E-03	2.1E-03	2.1E-03	3.0E-03	2.1E-03
C. TENNESSEE RIVER POPULATION (MAN-REM)	3.6E-02	3.3E-03	2.7E-02	2.7E-02	2.7E-02	4.0E-02	2.3E-02
II. FISH INGESTION FROM WHEELER LAKE BELOW BFW							
A. MAXIMUM INDIVIDUAL CHILD (MREM)	1.4E-01	1.6E-03	2.6E-02	2.6E-02	2.6E-02	1.9E-01	2.6E-02
B. MAXIMUM INDIVIDUAL ADULT (MREM)	1.0E-01	6.1E-03	1.2E-01	1.2E-01	1.2E-01	1.7E-01	1.2E-01
C. TENNESSEE RIVER POPULATION (MAN-REM)	1.3E+01	5.2E-01	1.1E+01	1.1E+01	1.1E+01	1.0E+01	1.1E+01
III. RECREATION AT WHEELER LAKE BELOW BFW							
A. SHOPELINE INDIVIDUAL (MREM)	2.2E-02	2.4E-02	1.9E-02	1.9E-02	2.4E-02	2.0E-02	2.9E-02
B. IN-WATER INDIVIDUAL (MREM)	6.1E-01	4.2E-01	4.2E-01	4.2E-01	5.1E-01	4.4E-01	6.3E-01
C. ABOVE-WATER INDIVIDUAL (MREM)	1.3E-04	1.0E-04	8.8E-05	8.8E-05	1.1E-04	9.2E-05	1.3E-04
D. TENNESSEE RIVER POPULATION (MAN-REM)	2.8E-04	2.2E-04	1.9E-04	1.9E-04	2.4E-04	2.0E-04	2.9E-04
IV. TOTAL							
A. MAXIMUM INDIVIDUAL CHILD (MREM)	1.7E-01	2.4E-02	4.6E-02	4.6E-02	5.1E-02	1.9E-01	5.6E-02
B. MAXIMUM INDIVIDUAL ADULT (MREM)	1.0E-01	2.9E-02	1.4E-01	1.4E-01	1.5E-01	1.9E-01	1.2E-01
C. TENNESSEE RIVER POPULATION (MAN-REM)	1.4E+01	1.0E+00	1.1E+01	1.1E+01	1.1E+01	2.0E+01	1.2E+01

(0300c)

TABLE 14

BROWNS FERRY NUCLEAR PLANT

LIQUID EFFLUENT DOSES
BROWNS FERRY NUCLEAR PLANT ROUTINE RELEASES 4TH QUARTER-1986

	BONE =====	GI TRACT =====	THYROID =====	TOTAL BODY =====	LIVER =====	SKIN =====
I. WATER INGESTION AT U.S. PLYWOOD-CHAMPION PAPER						
A. MAXIMUM INDIVIDUAL CHILD (MREM)	1.0E-03	5.1E-05	2.2E-04	2.2E-04	1.1E-03	2.2E-04
B. MAXIMUM INDIVIDUAL ADULT (MREM)	3.7E-04	6.8E-05	4.3E-04	4.3E-04	5.9E-04	4.3E-04
C. TENNESSEE RIVER POPULATION (MAN-REM)	6.5E-03	7.3E-04	4.3E-03	4.3E-03	8.9E-03	4.3E-03
II. FISH INGESTION FROM WHEELER LAKE BELOW BFN						
A. MAXIMUM INDIVIDUAL CHILD (MREM)	2.7E-02	3.1E-04	5.1E-03	5.1E-03	3.1E-02	5.1E-03
B. MAXIMUM INDIVIDUAL ADULT (MREM)	2.1E-02	1.2E-03	2.4E-02	2.4E-02	3.3E-02	2.4E-02
C. TENNESSEE RIVER POPULATION (MAN-REM)	2.5E+00	1.1E-01	2.1E+00	2.1E+00	3.7E+00	2.1E+00
III. RECREATION AT WHEELER LAKE BELOW BFN						
A. SHOPELINE INDIVIDUAL (MREM)	2.9E-03	2.2E-03	1.9E-03	2.4E-03	2.0E-03	2.9E-03
POPULATION (MAN-REM)	5.7E-02	4.4E-02	3.8E-02	4.7E-02	4.0E-02	5.6E-02
B. IN-WATER INDIVIDUAL (MREM)	1.3E-05	1.0E-05	8.8E-06	1.1E-05	9.2E-06	1.3E-05
POPULATION (MAN-REM)	2.6E-05	2.0E-05	1.8E-05	2.2E-05	1.9E-05	2.7E-05
C. ABOVE-WATER INDIVIDUAL (MREM)	1.3E-05	9.9E-06	8.6E-06	1.1E-05	9.0E-06	1.3E-05
POPULATION (MAN-REM)	6.8E-05	5.4E-05	4.7E-05	5.7E-05	4.8E-05	7.0E-05
IV. TOTAL						
A. MAXIMUM INDIVIDUAL CHILD (MREM)	3.1E-02	2.6E-03	7.3E-03	7.7E-03	3.4E-02	8.3E-03
B. MAXIMUM INDIVIDUAL ADULT (MREM)	2.4E-02	3.5E-03	2.6E-02	2.6E-02	3.6E-02	2.7E-02
C. TENNESSEE RIVER POPULATION (MAN-REM)	2.6E+00	1.5E-01	2.1E+00	2.1E+00	3.7E+00	2.1E+00

(0300c)

TABLE 15

BROWNS FERRY NUCLEAR PLANT

FIVE-YEAR SUMMARY OF QUARTERLY DOSES*

Year	Quarter	Air- γ (mrad)	Air- β (mrad)	Air Submersion		Real Pathway Max. Organ (mrem)	Liquids Effluents	
				Skin (mrem)	TB (mrem)		TB (mrem)	Max. Organ (mrem)
1982	1	.11	.16	.09	.07	.13 Bone	.11	.13 Liver
	2	.33	.52	.23	.17	.11 Bone	.06	.07 Liver
	3	.27	.35	.37	.27	.24 Bone	.10	.12 Liver
	4	.19	.23	.20	.13	.16 Bone	.07	.08 Liver
1983	1	.47	.45	.24	.16	.25 Bone	.07	.09 Liver
	2	.48	.42	.32	.19	.31 Thy.	.09	.11 Liver
	3	.18	.34	.16	.10	.30 Bone	.25	.33 Liver
	4	.39	.85	.24	.14	.04 Thy.	.54	.73 Liver
1984	1	.39	.66	.47	.30	.41 Thy.	.58	.79 Liver
	2	1.19	2.09	1.48	.98	.09 Thy.	.11	.15 Liver
	3	.51	.98	.48	.31	.08 Thy.	.10	.12 Liver
	4	.30	.58	.17	.10	.06 Thy.	.31	.41 Liver
1985	1	.07	.12	.10	.06	.03 Thy.	.09	.12 Liver
	2	<.001	<.001	<.001	<.001	.017 Bone	.18	.24 Liver
	3	<.001	<.001	0.0	0.0	.01 Bone	.05	.07 Liver
	4	<.001	<.001	0.0	0.0	.01 Bone	.10	.14 Liver
1986	1	<.001	<.001	0.0	0.0	.01 Bone	.08	.11 Liver
	2	<.001	<.001	<.001	<.001	<.001 Liver	.23	.31 Liver
	3	<.001	<.001	0.0	0.0	<.001 Liver	.15	.19 Liver
	4	<.001	<.001	0.0	0.0	<.001 Liver	.03	.04 Liver

*Note: All calculated doses are below limits specified in Appendix I to 10 CFR 50.

(0300c)

Figure 1
Browns Ferry Quarterly Gaseous Doses
Five-Year Summary of Gamma-air Doses

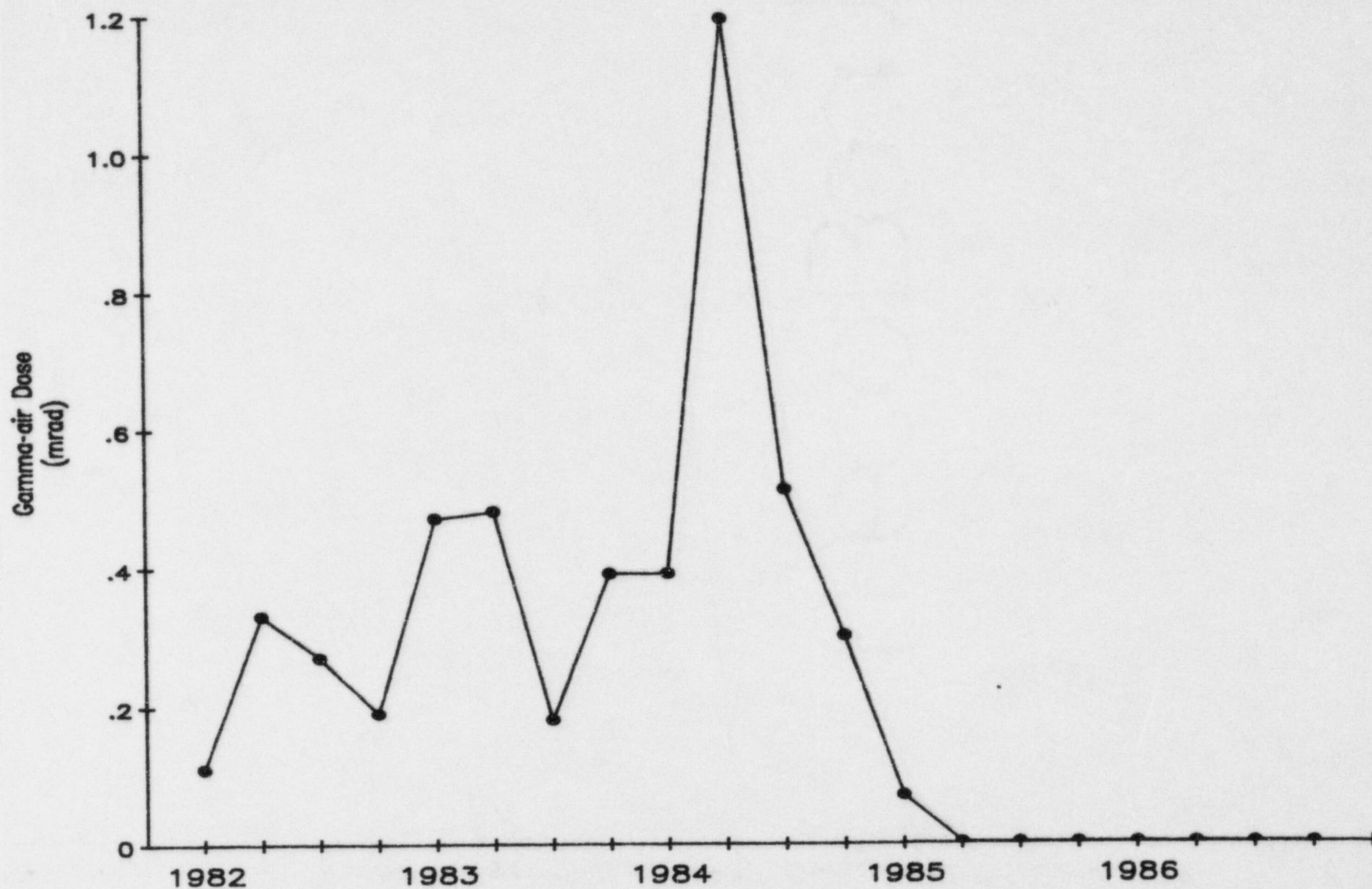


Figure 2
Browns Ferry Quarterly Gaseous Doses
Five-Year Summary of Beta-air Doses

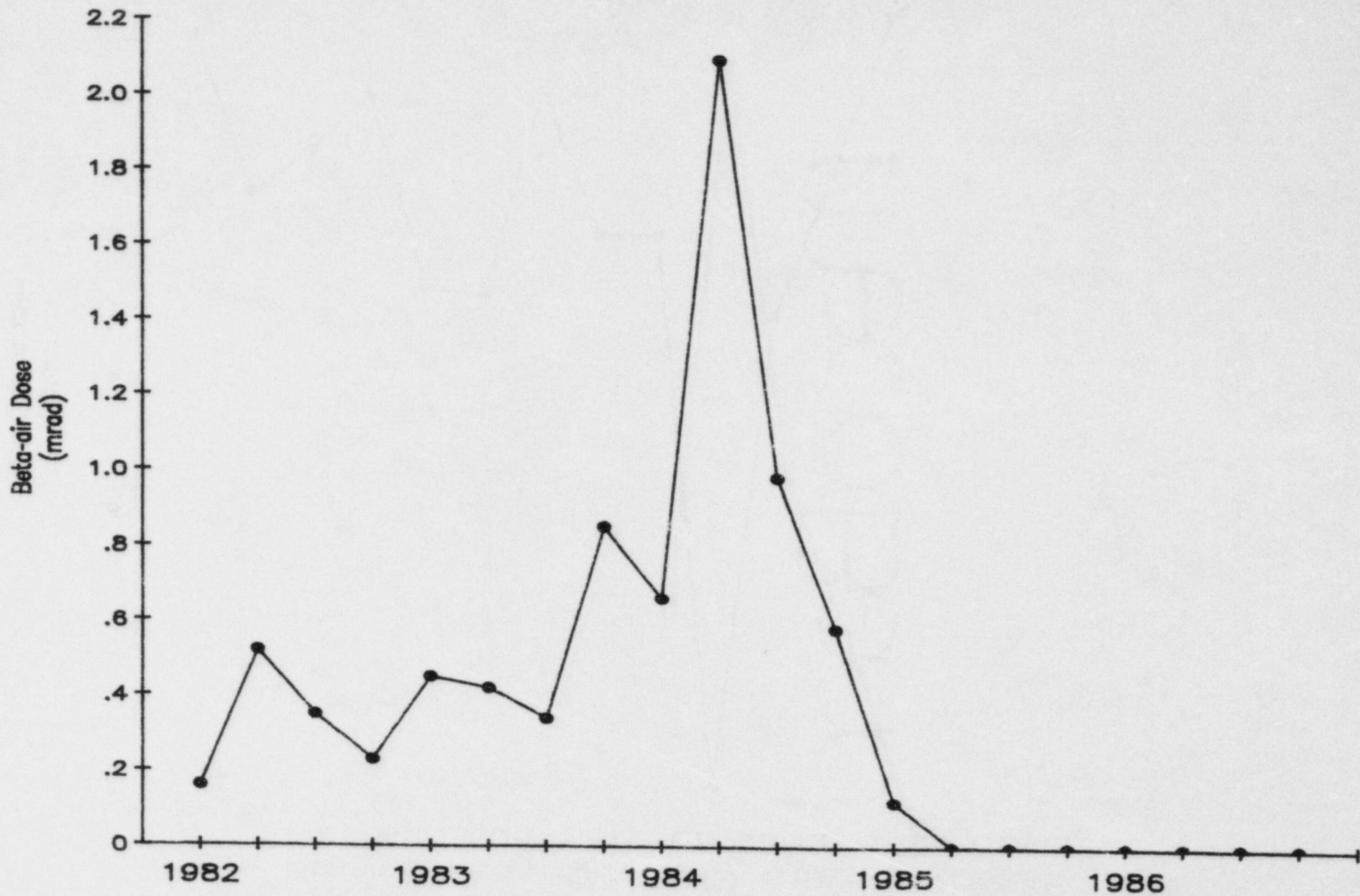


Figure 3
 Browns Ferry Quarterly Gaseous Doses
 Five-Year Summary of Maximum Organ Doses

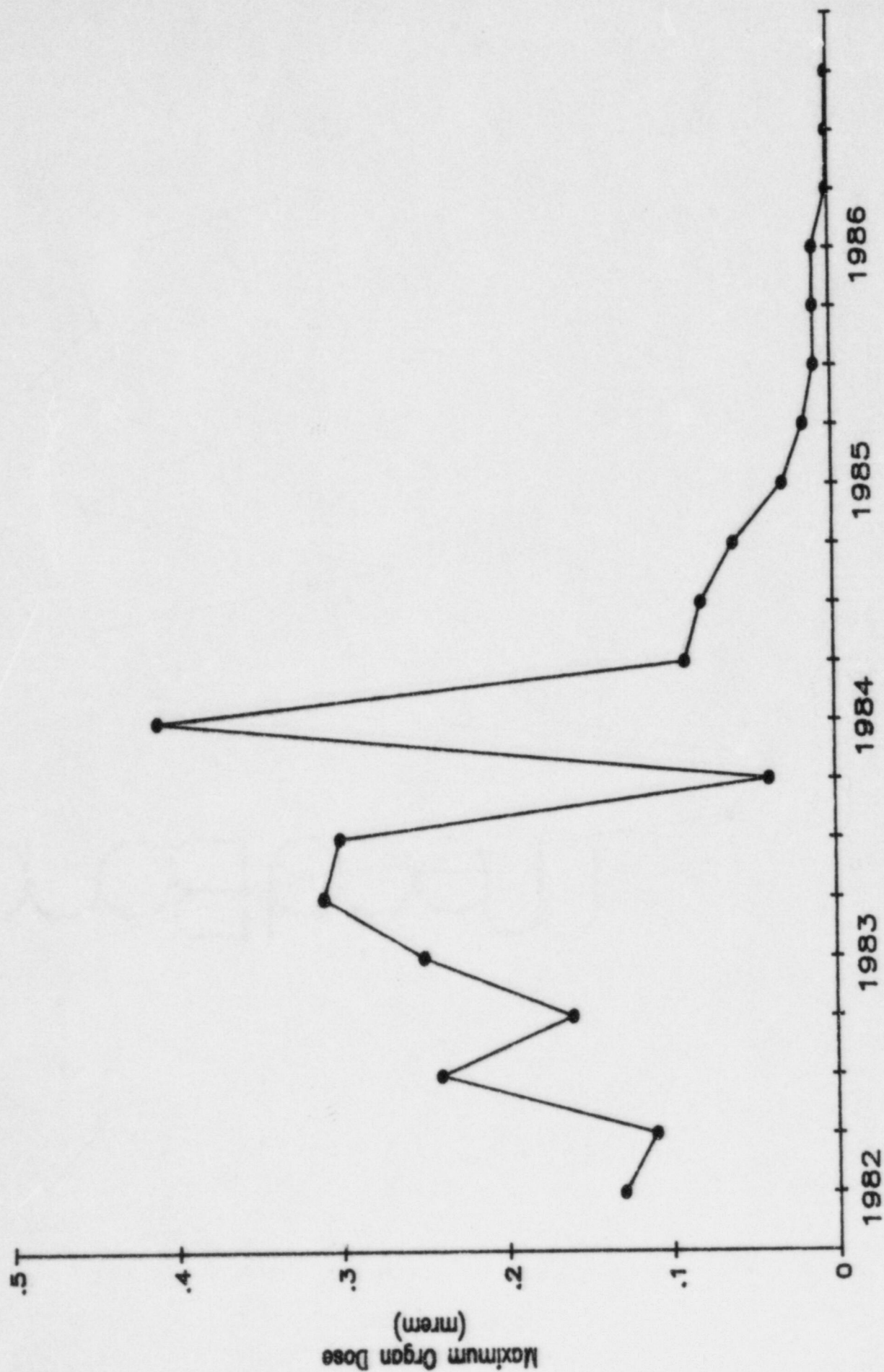


Figure 4
 Browns Ferry Quarterly Liquid Doses
 Five-Year Summary of Total Body Doses

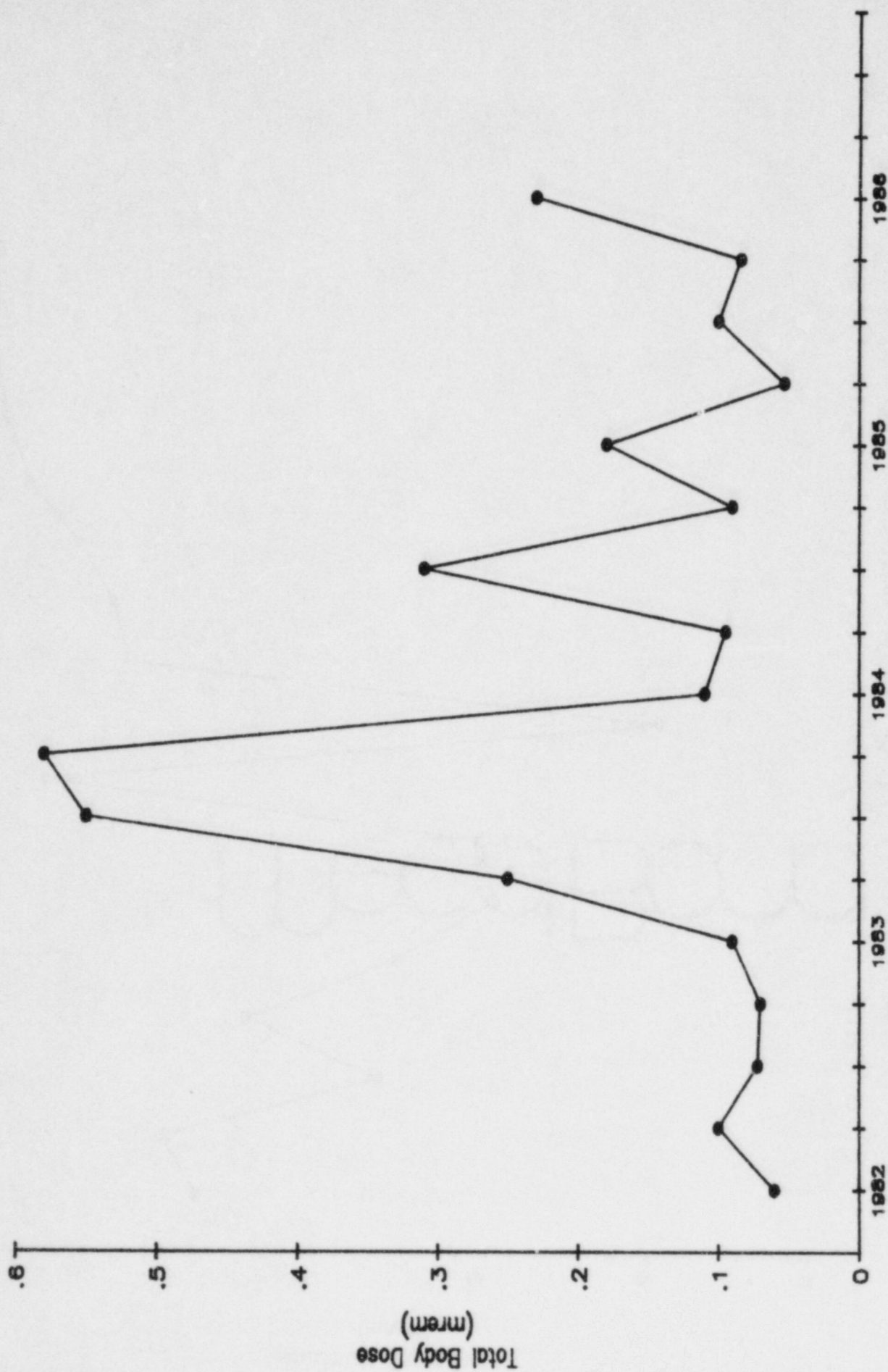
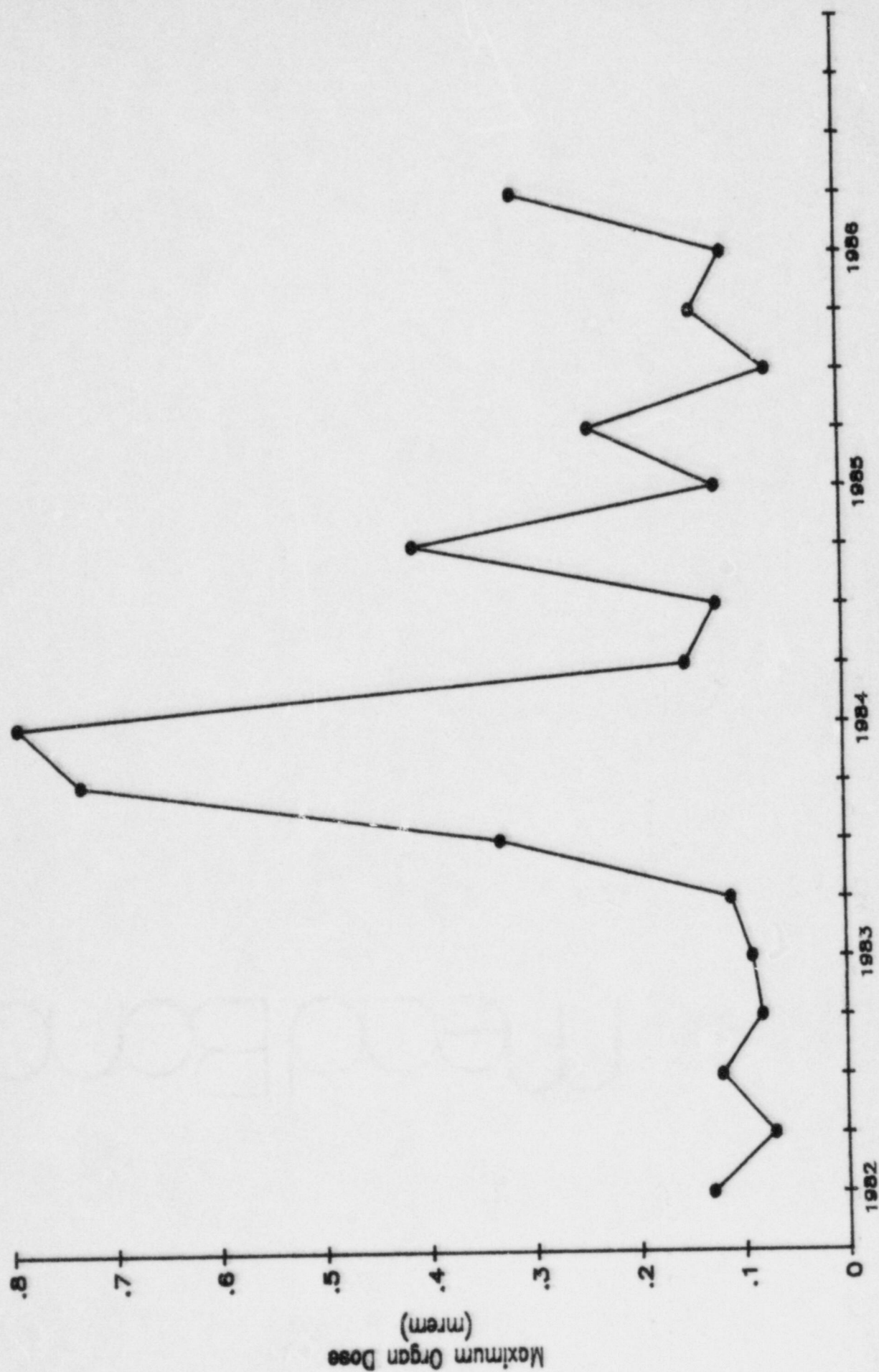


Figure 5
 Browns Ferry Quarterly Liquid Doses
 Five-Year Summary of Maximum Organ Doses



TENNESSEE VALLEY AUTHORITY

5N 157 Lookout Place

MAR 03 1987

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Office of Nuclear Reactor Regulation
Washington, D.C. 20555

Attention: Dr. J. Nelson Grace

In the Matter of the Application of)
Tennessee Valley Authority)

Docket Nos. 50-259
50-260
50-296

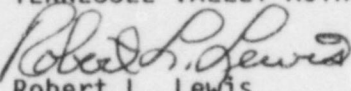
BROWNS FERRY NUCLEAR PLANT - RADIOLOGICAL IMPACT ASSESSMENT - JULY THROUGH
DECEMBER 1986

In accordance with Technical Specification 6.7.3.A and Regulatory Guide 1.21,
Revision 1, we are submitting the enclosed report of radiological impact for
Browns Ferry during the period of July 31, 1986 through December 31, 1986.

The corresponding report on radioactive discharges was submitted separately on
February 25, 1987.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



Robert L. Lewis
Plant Manager

Enclosure

cc (Enclosure):

U.S. Nuclear Regulatory Commission
Region II
Attn: Dr. J. Nelson Grace, Regional Administrator
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