

ENCLOSURE 1

TENNESSEE VALLEY AUTHORITY
SEMIANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
BROWNS FERRY NUCLEAR PLANT

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

JULY THROUGH DECEMBER 1987

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EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SUPPLEMENTAL INFORMATION

SECOND HALF 1987

I. Regulatory Limits

A. Fission and Activation Gases in Gaseous Effluent:

1. The average release rate of fission and activation gases is regulated by the dose limits of 10CFR50 Appendix I. The air dose to areas at and beyond the site boundary due to noble gases released in gaseous effluents per unit shall be limited during any calendar quarter to \leq 5 mrad for gamma radiation and \leq 10 mrad for beta radiation; and during any calendar year to \leq 10 mrad for gamma radiation and \leq 20 mrad for beta radiation.

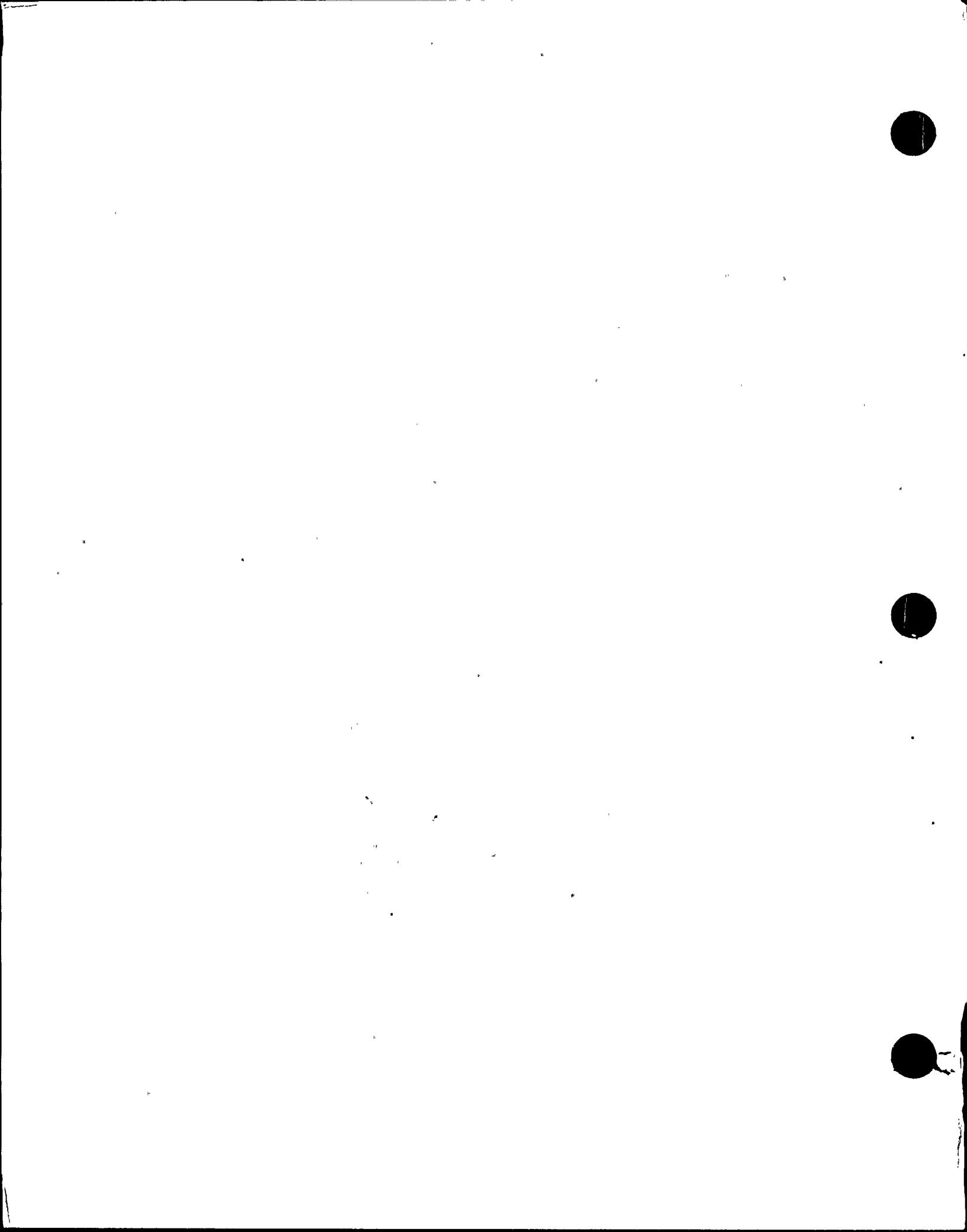
B and C. Iodines and Particulates with half lives greater than 8 days in gaseous effluents.

1. The average release rate of iodines and particulates in gaseous effluent is regulated by the dose limits of 10CFR50 Appendix I. The dose to a member of the public from radioiodines, radioactive materials in particulate form, and radionuclides other than noble gases with half live greater than 8 days in gaseous effluent released per unit to area at and beyond the site boundary shall be limited to any organ during any calendar quarter to \leq 7.5 mrem, and during any calendar year to \leq 15 mrem.

D. Liquid Effluents

1. The average release rate of radioactive liquid effluents is regulated by the dose limits of 10CFR50 Appendix I. The doses or dose commitment to a member of the public from radioactive materials in liquid effluents released from each unit to unrestricted areas shall be limited during any calendar quarter to \leq 1.5 mrem to the total body and \leq 5 mrem to any organ and, during any calendar year to \leq 3 mrem to the total body and \leq 10 mrem to any organ.

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EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SUPPLEMENTAL INFORMATION

SECOND HALF 1987

II. Maximum Permissible Concentrations

A. Fission and Activation Gases in Gaseous Effluent

1. The instantaneous release rate of fission and activation gases is regulated by the dose rate limit of 10CFR20 Appendix B. The dose rate at any time to areas at and beyond the site boundary due to noble gases released in gaseous effluents from the site shall be limited to < 500 mrem/year to the total body and < 3000 mrem/year to the skin.
2. The BFN Offsite Dose Calculation Manual (ODCM) determines the maximum noble gas release rate based upon the dose rate limits in II.A.1. The instantaneous noble gas release rates are limited by the following equation:

$$\frac{Q_1}{0.15} + \frac{Q_2}{14.4} \leq 1$$

Q_1 = The release rate from the building exhaust vents in Ci/sec.

Q_2 = The release rate from the main stack in Ci/sec.

B and C. Iodines and Particulates with Half Lives Greater than 8 Days in Gaseous Effluents

1. The instantaneous release rate of particulates and iodines is regulated by the dose rate limit of 10CFR20 Appendix B. The dose rate at any time to areas at and beyond the site boundary due to I-131, I-133, H-3 and particulates with greater than eight days half-lives released in gaseous effluents from the site shall be limited to <1500 mrem/yr to any organ.
2. The BFN ODCM determines the maximum particulate and iodine release rate based upon the dose rate limit of II. B and C.1. The instantaneous iodine and particulate release rates are limited by the following equation:

$$\frac{Q_3}{2.19} + \frac{Q_4}{35.7} \leq 1$$

Q_3 = The release rate from the building exhaust vents in mCi/sec

Q_4 = The release rate from the main stack in mCi/sec.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SUPPLEMENTAL INFORMATION

SECOND HALF 1987

D. Liquid Effluents

1. The concentration of radionuclides in liquid effluents released at any time from the site to unrestricted areas shall be limited to the concentrations specified in 10CFR 20, Appendix B, Table II, Column 2 for radionuclides other than dissolved or entrained noble gases.
2. For dissolved or entrained noble gases, the concentration shall be limited to 2E-4 mCi/ml total activity.

III. Average Energy - Not applicable

IV. Measurements and Approximations of Total Radioactivity

A. Fission and Activation Gases:

1. Noble gases in the building vent and stack, gaseous effluent are continuously monitored. The flow rate of the stack is continuously monitored and the building vent effluent flow rates are calculated once a shift based on the configuration of operating exhaust fans. The flow rate data is consolidated weekly to determine the volume of airborne effluent released from the plant. The noble gas monitor data is consolidated monthly to determine the total curies of noble gases released during the month.
2. Gas grab samples are taken and analyzed monthly to determine the relative noble gas activity concentrations. This information is used to apportion the total curies of noble gases released between different noble gas radionuclides.
3. The tritium concentration is determined by the analysis of a monthly grab sample for each release point.

B and C. Iodines and Particulates

1. Iodines and particulates are continuously sampled on impregnated charcoal filters and particulate filters, respectively. The charcoal and particulate samples are replaced at least weekly and analyzed to determine specific activity concentrations. The specific activity concentrations and vent flow rate data are used weekly to verify that release rate limits were not exceeded. The specific activity concentrations and total volume of gaseous effluent are used on a monthly basis to determine the total curies of each particulate and iodine released during the month.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SUPPLEMENTAL INFORMATION

SECOND HALF 1987

IV. Measurements and Approximations of Total Radioactivity (Continued)

2. The gross alpha concentration is determined by analysis of a monthly particulate filter composite sample and strontium -89 and -90 are determined by analysis of a quarterly particulate filter composite sample for each release point.

D. Liquid Effluents

1. The gamma ray emitting radionuclide concentrations are determined for each batch by gamma ray spectroscopy analysis of a grab sample. The allowable release rate is calculated for each batch based upon the known dilution flow. The flow rate of the liquid effluent is continuously monitored and the total volume released in each batch is determined. The total gamma activity released in each batch is determined by multiplying the radionuclide concentrations by the total volume discharged. The total gamma activity released during the month is then determined by summing the gamma activity content of each batch discharged during the month.
2. The gross alpha and tritium concentrations are measured on a monthly composite sample. The strontium -89 and -90 and iron -55 are measured on a quarterly composite sample.

V.	<u>Batch</u>	<u>Value</u>	<u>Units</u>
		third fourth Quarter	
A. Liquid			
1.	Number of batches released	88 83	Each
2.	Total time period for batch releases	24424 21715	Minutes
3.	Maximum time period for a batch release	380 345	Minutes
4.	Average time period for batch releases	274 262	Minutes
5.	Minimum time period for a batch release	145 172	Minutes
6.	Average stream flow during period of release of effluent into a flowing stream	25380 20462	ft ³ /sec
B. Gaseous			
None			

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SECOND HALF 1987

LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

		<u>Unit</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>	<u>% Error</u>
A.	Fission and Activation Products				
1.	Total Releases	Curies	7.43E-02	1.04E-01	9
2.	Average Diluted Concentration During Period	$\mu\text{Ci}/\text{ml}$	1.38E-09	2.38E-09	
3.	Percent of Applicable Limit (1.00E-7 $\mu\text{Ci}/\text{ml}$)	%	1.38E+00	2.38E+00	
B.	Tritium				
1.	Total Releases	Curies	4.20E-01	2.43E-01	6
2.	Average Diluted Concentration During Period	$\mu\text{Ci}/\text{ml}$	7.79E-09	5.56E-09	
3.	Percent of Applicable Limit (3E-03 $\mu\text{Ci}/\text{ml}$)	%	2.60E-04	1.85E-04	
C.	Dissolved and Entrained Noble Gases ¹				
1.	Total Releases	Curies	<3.82E-03	<3.94E-03	8
2.	Average Diluted Concentration During Period	$\mu\text{Ci}/\text{ml}$	<7.09E-11	<9.02E-11	
3.	Percent of Applicable Limit (2E-04 $\mu\text{Ci}/\text{ml}$)	%	0	0	
D.	Gross Alpha Radioactivity				
1.	Total Releases	Curies	2.79E-04	2.19E-03	48
2.	Average Diluted Concentration During Period	$\mu\text{Ci}/\text{ml}$	5.18E-12	5.01E-11	
E.	Volume of Waste Release (Before dilution)	Liters	9.51E+06	8.34E+06	3
F.	Volume of Dilution Water for Period	Liters	5.39E+10	4.37E+10	10
G.	Total CCW flow for Six Months	180	gigagallons		

¹ Includes Xe-133, Xe-135, and others.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

LIQUID RELEASES FOR SECOND HALF 1987 - BATCH MODE

<u>Isotope</u> (Required by REG Guide 1.21)	<u>Third Quarter Unit Curies</u>	<u>Fourth Quarter Unit Curies</u>
1. Cr-51	<1.17E-02	<9.53E-03
2. Mn-54	1.47E-04	1.03E-04
3. Co-58	<1.24E-03	<8.27E-04
4. Fe-59	<2.61E-03	<1.65E-03
5. Co-60	1.26E-02	1.29E-02
6. Zn-65	2.03E-03	4.57E-03
7. Nb-95	<1.22E-03	<8.40E-04
8. Zr-95	<2.07E-03	<1.48E-03
9. Mo-Tc-99m	<9.47E-04	<8.62E-04
10. I-131	<1.59E-03	<1.33E-03
11. Xe-133	<2.95E-03	<3.25E-03
12. Cs-134	1.37E-02	1.99E-02
13. Xe-135	<8.62E-04	<6.94E-04
14. Cs-137	4.55E-02	6.69E-02
15. Ba-140	<6.00E-03	<4.53E-03
16. La-140	<4.25E-04	<3.07E-04
17. Ce-141	<1.69E-03	<1.50E-03
18. Sr-89	<3.22E-04	<1.75E-04
19. Sr-90	<1.73E-04	<1.09E-04

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
LIQUID RELEASES FOR SECOND HALF 1987 - BATCH MODE

<u>Isotope</u> Others (Not Required by REG Guide 1.21)	Third Quarter <u>Unit Curies</u>	Fourth Quarter <u>Unit Curies</u>
1. Sb-125	2.42E-04	1.76E-05
2. Ce-144		2.90E-05

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EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SECOND HALF 1987¹

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

<u>Summation of All Releases</u>	<u>Unit</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>	<u>% Error</u>
A. Fission and Activation Gases				
1. Total Releases	Ci	<3.60E+02	3.14E-01	45
2. Average Release Rate for Period	$\mu\text{Ci/sec}$	<4.58E+01	3.99E-02	
3. Percent of T.S. limit (.15 Ci/sec)	%	0	2.66E-05	
B. Iodines				
1. Total Iodine-131	Ci	<1.33E-01	<8.46E+01	36
2. Average Release Rate for Period	$\mu\text{Ci/sec}$	<1.69E-02	<1.08E+01	
3. Percent of T.S. Limit (2.19 $\mu\text{Ci/sec}$)	%	0	0	
C. Particulates				
1. Particulates with half-lives >8 days	Ci	3.63E-04	5.32E-04	35
2. Avg. release rate for period	$\mu\text{Ci/sec}$	4.62E-05	6.77E-05	
3. Percent of T.S. limit (2.19 $\mu\text{Ci/sec}$)	%	2.11E-03	3.09E-03	
4. Gross alpha radioactivity	Ci	1.46E-05	1.36E-05	
D. Tritium				
1. Total release	Ci	3.43E-01	1.71E-01	21
2. Average release rate for period	$\mu\text{Ci/sec}$	4.36E-02	2.18E-02	
3. Percent of T.S. limit (2.19 $\mu\text{Ci/sec}$)	%	1.90E-02	4.96E-02	
4. Ground level release	Ci	3.42E-01	1.69E-01	
5. Elevated release	Ci	1.62E-03	1.94E-03	

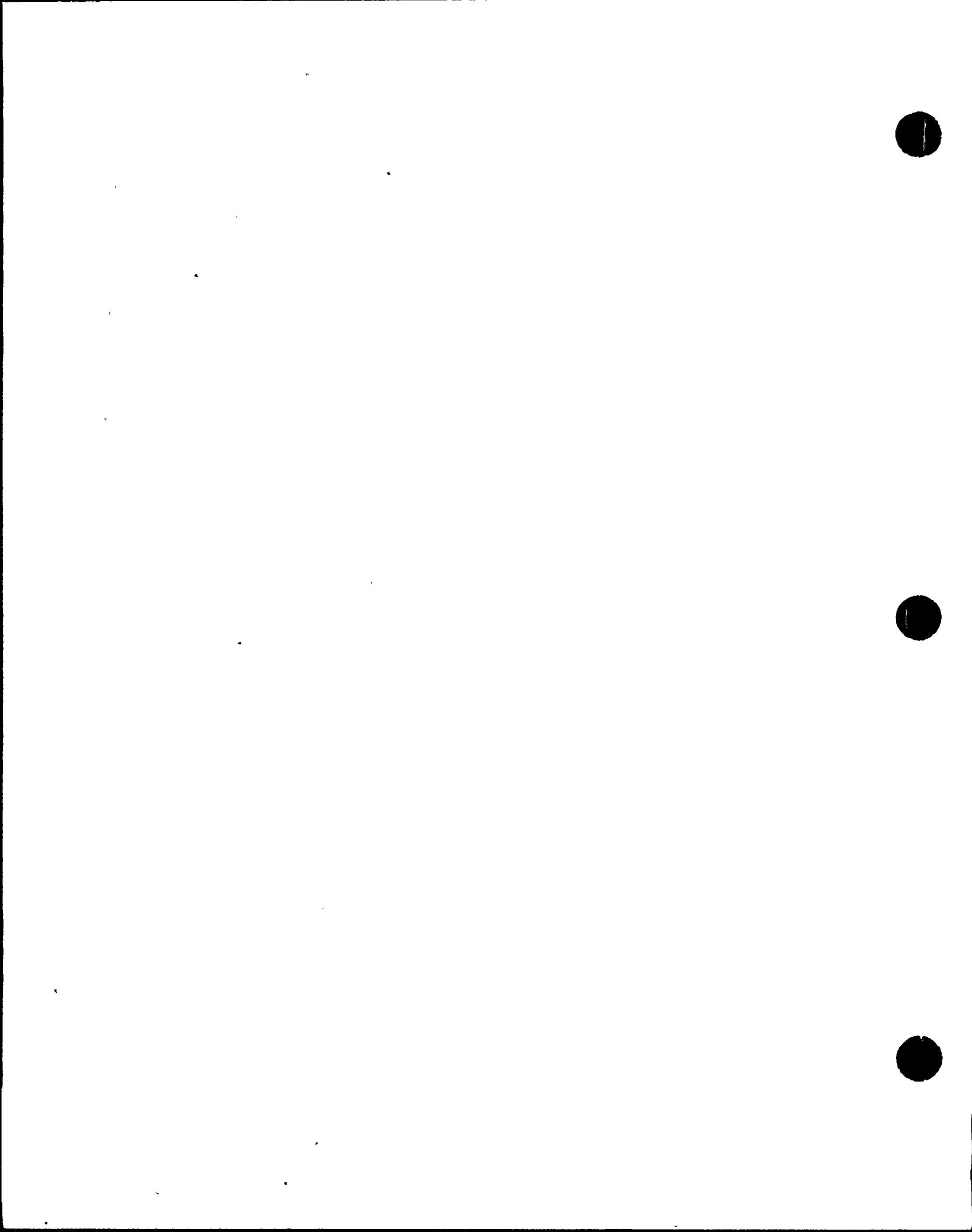
Reporting period - 182 days.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SECOND HALF 1987

GASEOUS EFFLUENTS - ELEVATED RELEASE

	<u>Unit</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>
1. Fission Gases			
Krypton-85	Ci	<1.50E+02	3.14E-01
Krypton-85m	Ci	<1.17E+00	<2.46E-01
Krypton-87	Ci	<2.21E-05	<3.78E-01
Krypton-88	Ci	<3.31E+00	<1.02E+00
Xenon-133	Ci	<1.58E-05	<6.70E-01
Xenon-135	Ci	<6.81E-06	<1.96E-01
Xenon-135m	Ci	<3.07E+00	<6.18E-01
Xenon-138	Ci	<4.50E-05	<1.45E+00
Total for Period	Ci	<1.58E+02	3.14E-01
Iodines			
Iodine-131	Ci	<2.82E-05	<8.46E+01
Iodine-133	Ci	<2.19E-04	<1.26E-02
Iodine-135	Ci	<1.88E-03	<7.62E-02
Total for Period	Ci	<2.13E-03	<8.59E+01



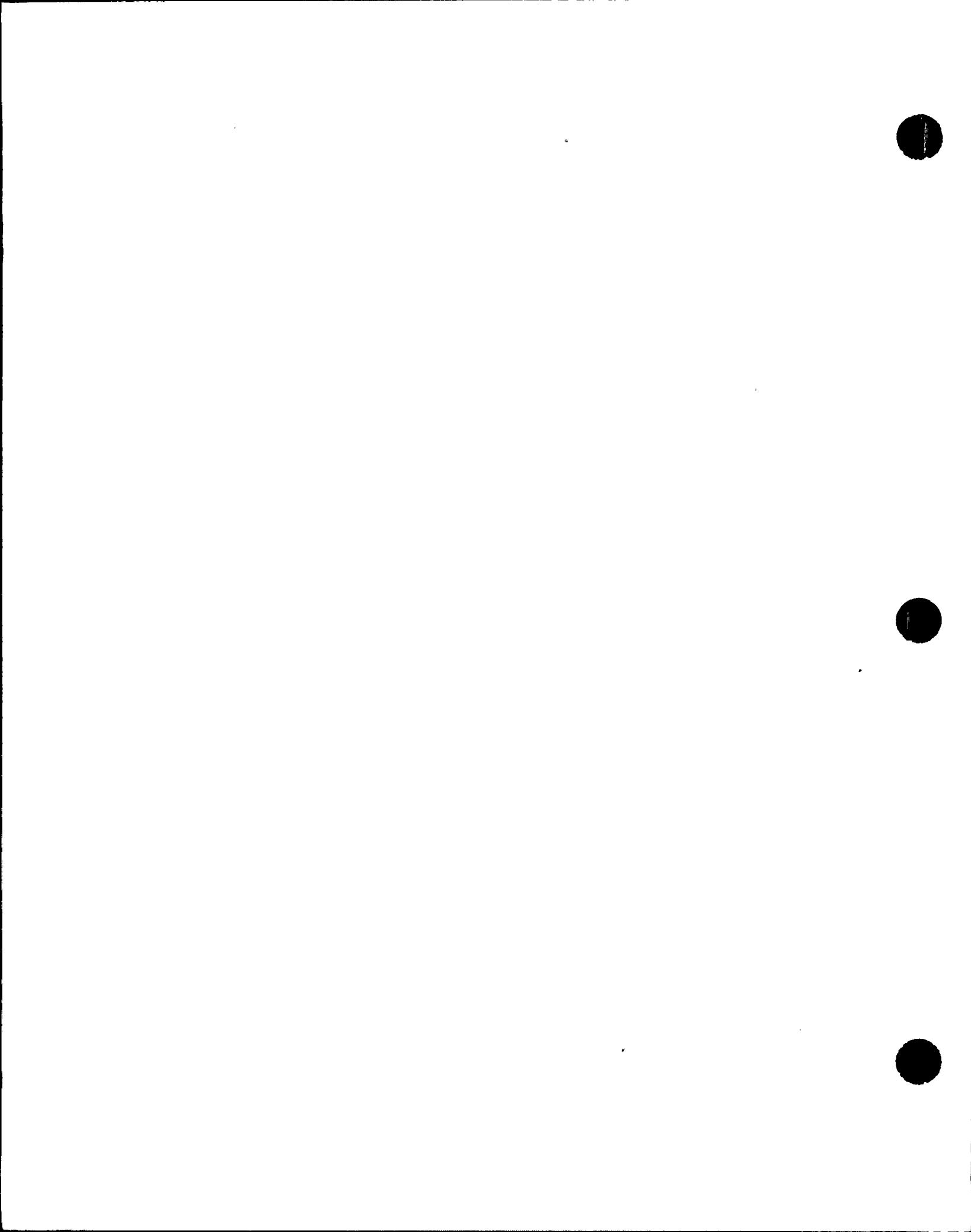
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SECOND HALF 1987

GASEOUS EFFLUENTS - ELEVATED RELEASE (Continued)

	<u>Unit</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>
3. Particulates			
Sr-89 ¹	Ci	<6.57E-07	<6.65E-07
Sr-90 ¹	Ci	<2.57E-07	<3.08E-07
Cs-134	Ci	<2.81E-05	<7.79E-06
Cs-137	Ci	<1.71E-05	<1.19E-05
Ba-140	Ci	<3.45E-04	<3.51E-05
La-140	Ci	<5.31E-05	<1.24E-05
<u>Total for Period</u>	Ci	<4.44E-04	<6.04E-05
4. Tritium	Ci	1.62E-03	1.94E-03

¹Predicted estimation of releases.



EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SECOND HALF 1987

GASEOUS EFFLUENTS - GROUND LEVEL RELEASE

	<u>Unit</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>
1. Fission Gases			
Krypton-85	Ci	<1.55E+02	<3.15E+02
Krypton-85m	Ci	<2.26E+00	<1.19E+00
Krypton-87	Ci	<4.94E+00	<2.43E+00
Krypton-88	Ci	<8.58E+00	<2.31E+00
Xenon-133	Ci	<7.65E+00	<2.96E+00
Xenon-135	Ci	<2.01E+00	<6.82E-01
Xenon-135m	Ci	<1.71E+00	<1.82E+00
Xenon-138	Ci	<1.99E+01	<8.63E+00
<u>Total for Period</u>	Ci	<2.02E+02	<3.35E+02
Iodines			
Iodine-131	Ci	<1.33E-01	<2.82E-04
Iodine-133	Ci	<6.72E-02	<2.11E-03
Iodine-135	Ci	<1.01E-03	<1.12E+00
<u>Total for Period</u>	Ci	<2.01E-01	<1.21E+00

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SECOND HALF 1987

GASEOUS EFFLUENTS - GROUND LEVEL RELEASE (Continued)

	<u>Unit</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>
3. Particulates			
Sr-89 ¹	Ci	<4.29E-02	<2.96E-05
Sr-90 ¹	Ci	<2.90E-02	<1.85E-05
Cs-134	Ci	<2.03E-03	5.25E-05
Cs-137	Ci	<1.85E-03	2.91E-04
Ba-140	Ci	<2.14E-05	<4.12E-04
La-140	Ci	<2.49E-05	<1.28E-04
Co-60	Ci	3.63E-04	1.88E-04
<u>Total for Period</u>	Ci	3.63E-04	5.32E-04
Tritium	Ci	3.42E-01	1.69E-01

¹ Predicted estimation of releases.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
SECOND HALF 1987
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. Solid Waste Shipped Off-Site for Burial or Disposal (Not Irradiated Fuel)

1. Type of Waste	Unit	6 Month Period	Error %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m3 Ci	1.07E+02 2.48E+02	1.50E+01
b. Dry compressible waste, " contaminated equip., etc	m3 Ci	4.29E+02 2.07E+01	1.50E+01
c. Irradiated components, control rods, etc.	m3 Ci	0.00E+00 0.00E+00	N/A
d. Other	m3 Ci	0.00E+00 0.00E+00	N/A

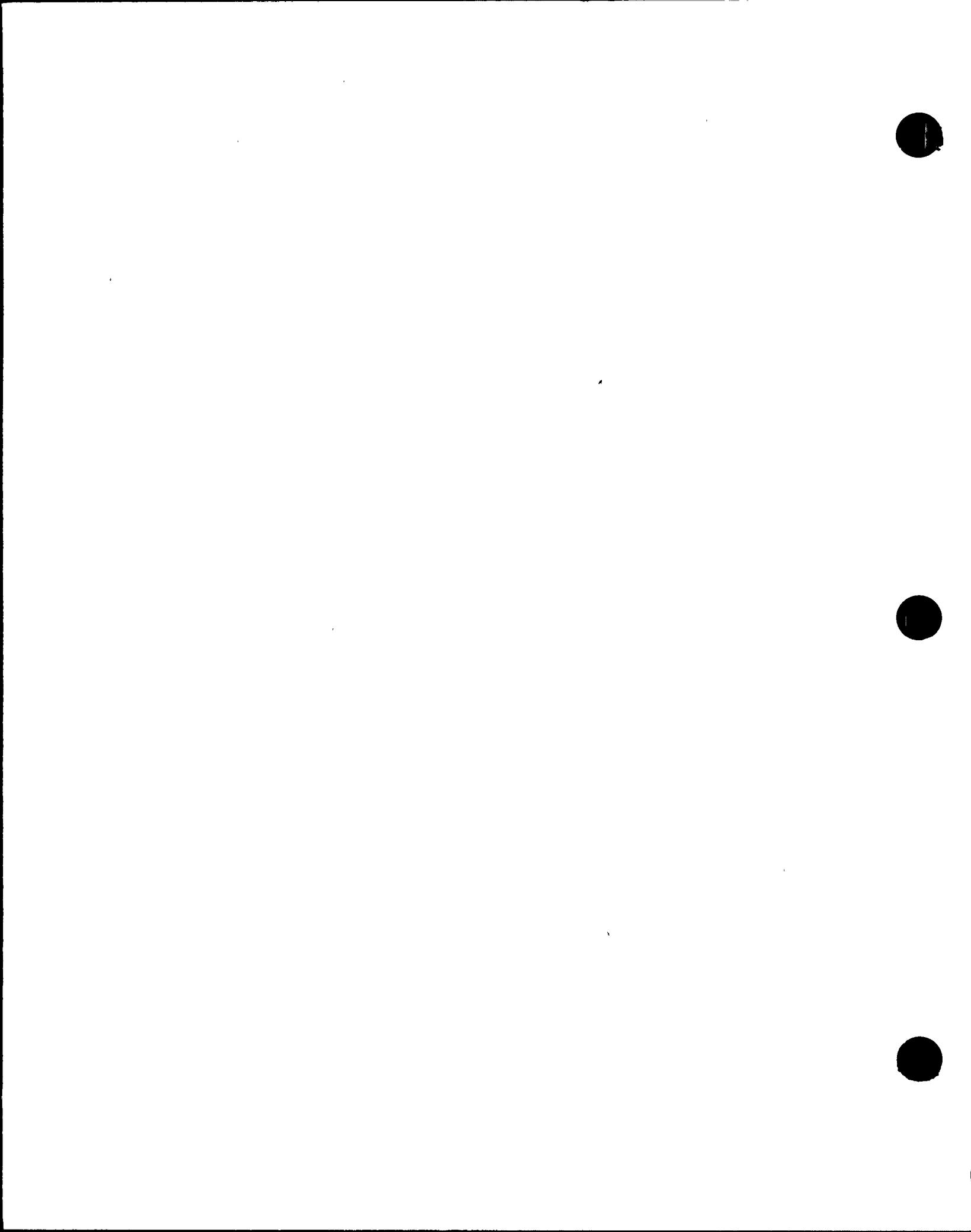
2. Estimate of major nuclide compositions (by type of waste)

a. Spent resins, filter sludges, evaporator bottoms, etc.

Nuclide	Unit	Unit
1. Zinc-65 (1)	%	1.99E+01 Ci 4.95E+01
2. Cesium-137 (1)	%	1.78E+01 Ci 4.42E+01
3. Cesium-134 (1)	%	6.03E+00 Ci 1.50E+01
4. Cobalt-60 (1)	%	3.66E+01 Ci 9.09E+01
5. Manganese-54 (1)	%	4.70E-01 Ci 1.17E+00
6. Iron-55 (2)	%	1.24E+01 Ci 3.07E+01
7. Other Nuclides (2)	%	6.76E+00 Ci 1.68E+01

(1) Measured

(2) Estimated thru use of scaling factors



EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
SECOND HALF 1987
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS (CONTINUED)

2. Estimate of major nuclide compositions (by type of waste) (cont'd)
b. Dry compressible waste, contaminated equipment, etc..

Nuclide	Unit	Unit
-----	----	-----
1. Zinc-65 (2)	%	1.78E+01 Ci
2. Cesium-137 (2)	%	6.66E+00 Ci
3. Cesium-134 (2)	%	6.60E+00 Ci
4. Chromium-51 (2)	%	1.11E+01 Ci
5. Cobalt-60 (2)	%	1.74E+01 Ci
6. Iron-55 (2)	%	2.36E+01 Ci
7. Iron-59 (2)	%	1.21E+00 Ci
8. Manganese-54 (2)	%	4.06E+00 Ci
9. Silver-110m (2)	%	1.21E+00 Ci
10. Niobium-95 (2)	%	2.12E+00 Ci
11. Other Nuclides (2)	%	8.27E+00 Ci

(1) Measured

(2) Estimated thru dose to curie and scaling factors

c. Irradiated components, control rods, etc - None

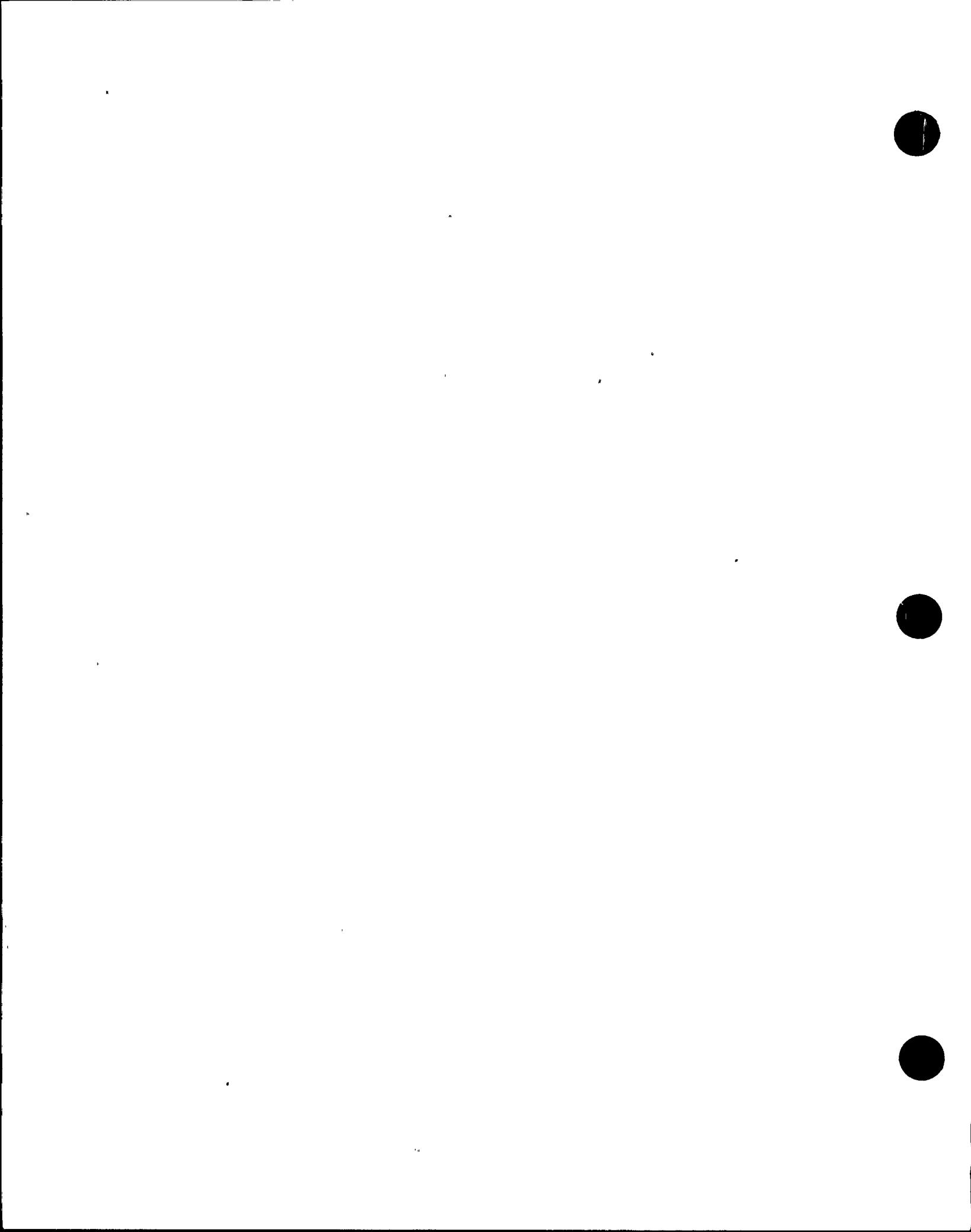
d. Other - None

3. Solid waste disposition

Number of Shipments	Mode of Transportation	Destination
41	Sole Use Truck	Barnwell, SC
1	Sole Use Truck	Richland, WA

. Irradiated Fuel Disposition

Number of Shipments	Mode of Transportation	Destination
NONE	N/A	N/A



EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
SECOND HALF 1987
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

C. Waste Sources, Burial Class and Type Quantity, Container type, Total Volume in Cubic Feet and Number of Containers Used.

Type of Waste	Type Quantity	Burial Class	Container Type	Number of Containers	Disposal Volume
DEWATERED					
(Resin)					
RX CLEANUP	B-LSA	A-Stable	HIC	5	601.5
CONDNS/WASTE	A-LSA	A-Stable	HIC	23	3877.9
(Filters)	A-LSA	A-Unstable	STC	13	98.0
DRY ACTIVE WASTE					
(Compacted)					
DRUM	A-LSA	A-Unstable	17H	46	345.0
BOX	A-LSA	A-Unstable	STC	64	5953.3
(Uncompacted)					
DRUM	N/A	" N/A	N/A	NONE	N/A
BOX	A-LSA	A-Unstable	STC	77	7779.7
SOLIDIFIED					
	N/A	N/A	N/A	NONE	N/A
ABSORBED					
Oil Pillows/Rags	A-LSA	A-Unstable	STC	10	980.0

Solidification agent used: NONE

Absorbents Used: Celite and Oil-Dry

TENNESSEE VALLEY AUTHORITY
DIVISION OF NUCLEAR SERVICES
RADIOLOGICAL CONTROL

RADIOLOGICAL IMPACT ASSESSMENT REPORT
BROWNS FERRY NUCLEAR PLANT

JULY THROUGH DECEMBER 1987



TENNESSEE VALLEY AUTHORITY
DIVISION OF NUCLEAR SERVICES
RADIOLOGICAL CONTROL

RADIOLOGICAL IMPACT ASSESSMENT REPORT
BROWNS FERRY NUCLEAR PLANT

JULY THROUGH DECEMBER 1987

Prepared by: Beth Eifel Lee

Reviewed by: John Russell

Approved by: Timothy J. Morris

Radiological Impact Assessment
Browns Ferry Nuclear Plant
July - December 1987

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 CFR 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 25,380 ft³/s for the third quarter and 20,462 ft³/s for the fourth quarter. Radioactivity concentrations in the Tennessee River were calculated assuming that releases in liquid effluents were continuous.
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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 20.2 mR/quarter at onsite stations and approximately 17.0 mR/quarter at offsite stations, or approximately 3.2 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 <0.001 and <0.001 mrem respectively. The dose to the maximum exposed organ was 0.0037 mrem to the g.i. tract for the third quarter and 0.0071 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 0.055 and 0.073 mrem, respectively. In the fourth

quarter, the maximum doses to the total body and liver were 0.089 and 0.12 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 0.0025 man-rem to the g.i. tract and 0.0029 man-rem to the lung. For the fourth quarter, population doses were 0.0026 man-rem to the liver and 0.0022 man-rem to the bone.

From liquid releases during the third quarter, the total population along the Tennessee River was estimated to receive 4.5 man-rem to the total body and 7.9 man-rem to the maximum exposed organ (liver). For the fourth quarter, the Tennessee River population was estimated to receive 7.4 man-rem to the total body and 13 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.

To determine compliance with 40 CFR 190, the annual dose contributions to the maximum individual from BFN radioactive effluents and all other nearby uranium fuel-cycle sources have been considered. No nearby fuel-cycle facilities other than BFN have been identified which would significantly expose the maximum individual. The dose to the maximum individual has been conservatively estimated by: first, summing the total body air submersion dose, the critical organ dose from gaseous effluents, the total body dose from liquid effluents, and the critical organ doses from liquid effluents (direct radiation, as reported above, is not identifiable over background levels) for each quarter; then, taking the sum for each quarter and summing over four quarters. Using this method, the total dose to the maximum individual for the twelve consecutive months in 1987 has been calculated to be 0.52 mrem. This is well below the limit of 40 CFR 190 (25 mrem/yr).

In addition, no routine activities within the site boundary by members of the public have been identified which would lead to their radiation exposure.

For the purposes of determining plant performance a summary of the quarterly doses for the past five years is presented in Table 15. Figures 1 through 5 present this data graphically.

In summary, all annual gaseous and liquid effluent doses calculated were below the guidelines of Appendix I to 10 CFR 50 and below the annual limits specified in the BFN Technical Specifications for plant operation.

TABLE 1

BROWNS FERRY NUCLEAR PLANT - GASEOUS EFFLUENT RELEASES
THIRD QUARTER 1987

Reactor Building Releases

Tritium 2.40E-01 Ci

Turbine Building Releases

Tritium 1.02E-01 Ci ..
Co-60 3.63E-04 Ci

Radwaste Building Releases

None

Stack Releases

Tritium 1.62E-03 Ci

TABLE 2

BROWNS FERRY NUCLEAR PLANT - GASEOUS EFFLUENT RELEASES
FOURTH QUARTER 1987

Reactor Building Releases

Tritium	1.62E-01 Ci
Cs-134	5.25E-05 Ci
Cs-137	2.91E-04 Ci
Co-60	1.88E-04 Ci

Turbine Building Releases

None

Radwaste Building Releases

Tritium	7.11E-03 Ci
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Stack Releases

Tritium	1.94E-03 Ci
Kr-85	3.14E-01 Ci

TABLE 3

1987 BROWNS FERRY NUCLEAR PLANT LIQUID EFFLUENT RELEASES

(CURIES)

<u>Nuclide</u>	<u>3RD QUARTER</u>	<u>4TH QUARTER</u>
H-3	4.20E-01	2.43E-01
Sr-89	<3.22E-04	<1.75E-04
Sr-90	<1.73E-04	<1.09E-04
Fe-55	0.00E+00	0.00E+00
Mn-54	1.47E-04	1.03E-04
Co-58	<1.24E-03	<8.27E-04
Fe-59	<2.61E-03	<1.65E-03
Co-60	1.26E-02	1.29E-02
Zn-65	2.03E-03	4.57E-03
Mo-99	<9.47E-04	<8.62E-04
I-131	<1.59E-03	<1.33E-03
Cs-134	1.37E-02	1.99E-02
Cs-137	4.55E-02	6.69E-02
Ce-141	<1.69E-03	<1.50E-03
Ce-144	0.00E+00	2.90E-05
Co-57	0.00E+00	0.00E+00
Sb-125	2.42E-04	1.76E-05
Tc-99m	<9.47E-04	<8.62E-04
Kr-87	0.00E+00	0.00E+00
Kr-88	0.00E+00	0.00E+00
Xe-133	<2.95E-03	<3.25E-03
Xe-133m	0.00E+00	0.00E+00
Xe-135	<8.62E-04	<6.94E-04
Xe-138	0.00E+00	0.00E+00

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	ESE	1575.
7 SITE BOUNDARY	SE	5600.
8 SITE BOUNDARY	SSE	2875.
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	NNW	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	6100.
20 AIR DOSE POINT	NW	6500.
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	ESE	4655.
29 RESIDENT	SE	8100.
30 RESIDENT.GARDEN	SSE	7155.
31 RESIDENT.GARDEN	S	4460.
32 RESIDENT.GARDEN	SSW	4155.
33 RESIDENT	SW	4896.
34 RESIDENT.GARDEN	WSW	4131.
35 RESIDENT	W	2550.
36 RESIDENT.GARDEN	NNW	4425.
37 RESIDENT.GARDEN	NW	3500.
38 RESIDENT.GARDEN	NNW	1650.
39 GARDEN	NE	4475.
40 GARDEN	NNE	2980.
41 GARDEN	SW	5430.
42 GARDEN	W	2675.
43 MILK COW CHILD	N	8045.
44 MILK COW INFANT	ENE	9450.
45 MILK COW CHILD	NNW	10975.
46 GOAT CHILD	NE	10975.

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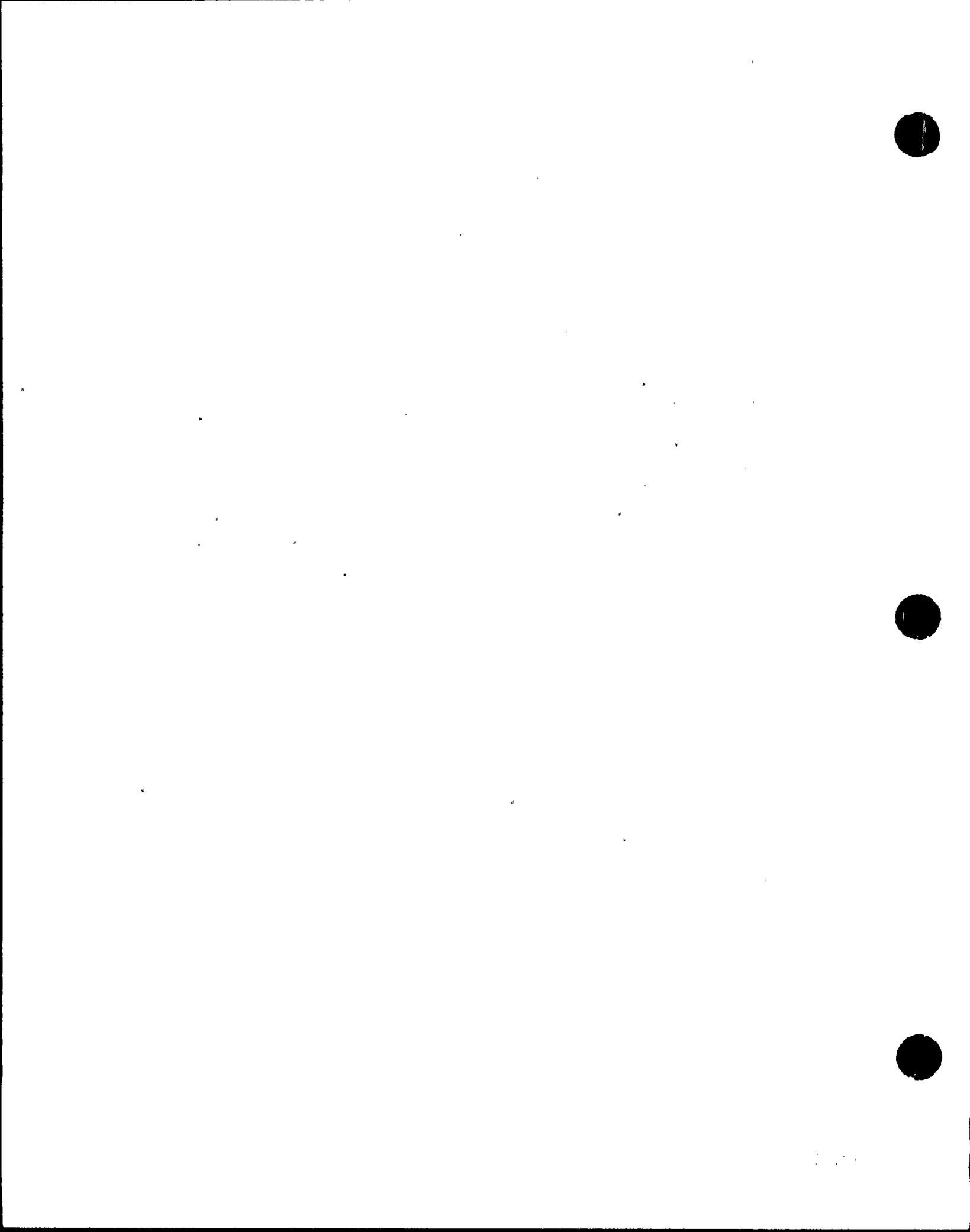


TABLE 4

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
GROUND-LEVEL JOINT
FREQUENCY DISTRIBUTION IN PERCENT
THIRD QUARTER 1987

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	0.237	0.000	0.000	0.000	0.237
NNE	0.000	0.000	0.000	0.000	0.047	0.142	0.000	0.000	0.000	0.189
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	0.047	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.095	0.427	0.095	0.000	0.000	0.000	0.047
SE	0.000	0.000	0.047	0.853	0.237	0.000	0.000	0.000	0.000	0.617
SSE	0.000	0.000	0.142	0.758	0.047	0.000	0.000	0.000	0.000	0.947
S	0.000	0.000	0.047	0.521	0.000	0.000	0.000	0.000	0.000	0.568
SSW	0.000	0.000	0.047	0.284	0.142	0.000	0.000	0.000	0.000	0.473
SW	0.000	0.000	0.000	0.190	0.047	0.000	0.000	0.000	0.000	0.237
WSW	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
W	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.047
NNW	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	0.332	0.047	0.000	0.000	0.379
NNW	0.000	0.000	0.000	0.047	0.142	0.047	0.000	0.000	0.000	0.236
TOTALS	0.000	0.000	0.283	2.748	1.183	0.900	0.047	0.000	0.000	5 161

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	0.047	0.190	0.000	0.000	0.000	0.237
NNE	0.000	0.000	0.000	0.000	0.190	0.190	0.000	0.000	0.000	0.380
NE	0.000	0.000	0.000	0.000	0.000	0.142	0.000	0.000	0.000	0.142
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	0.047	0.000	0.000	0.000	0.000	0.047
ESE	0.000	0.000	0.000	0.190	0.000	0.000	0.000	0.000	0.000	0.190
SE	0.000	0.000	0.047	0.237	0.000	0.000	0.000	0.000	0.000	0.284
SSE	0.000	0.000	0.095	0.142	0.000	0.000	0.000	0.000	0.000	0.237
S	0.000	0.000	0.047	0.427	0.000	0.000	0.000	0.000	0.000	0.474
SSW	0.000	0.000	0.000	0.237	0.000	0.000	0.000	0.000	0.000	0.237
SW	0.000	0.000	0.000	0.142	0.047	0.000	0.000	0.000	0.000	0.189
WSW	0.000	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.095
W	0.000	0.000	0.000	0.000	0.237	0.000	0.000	0.000	0.000	0.237
NNW	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	0.047	0.190	0.000	0.000	0.000	0.237
NNW	0.000	0.000	0.000	0.000	0.047	0.095	0.000	0.000	0.000	0.142
TOTALS	0.000	0.000	0.189	1.375	0.757	0.307	0.000	0.000	0.000	3.128

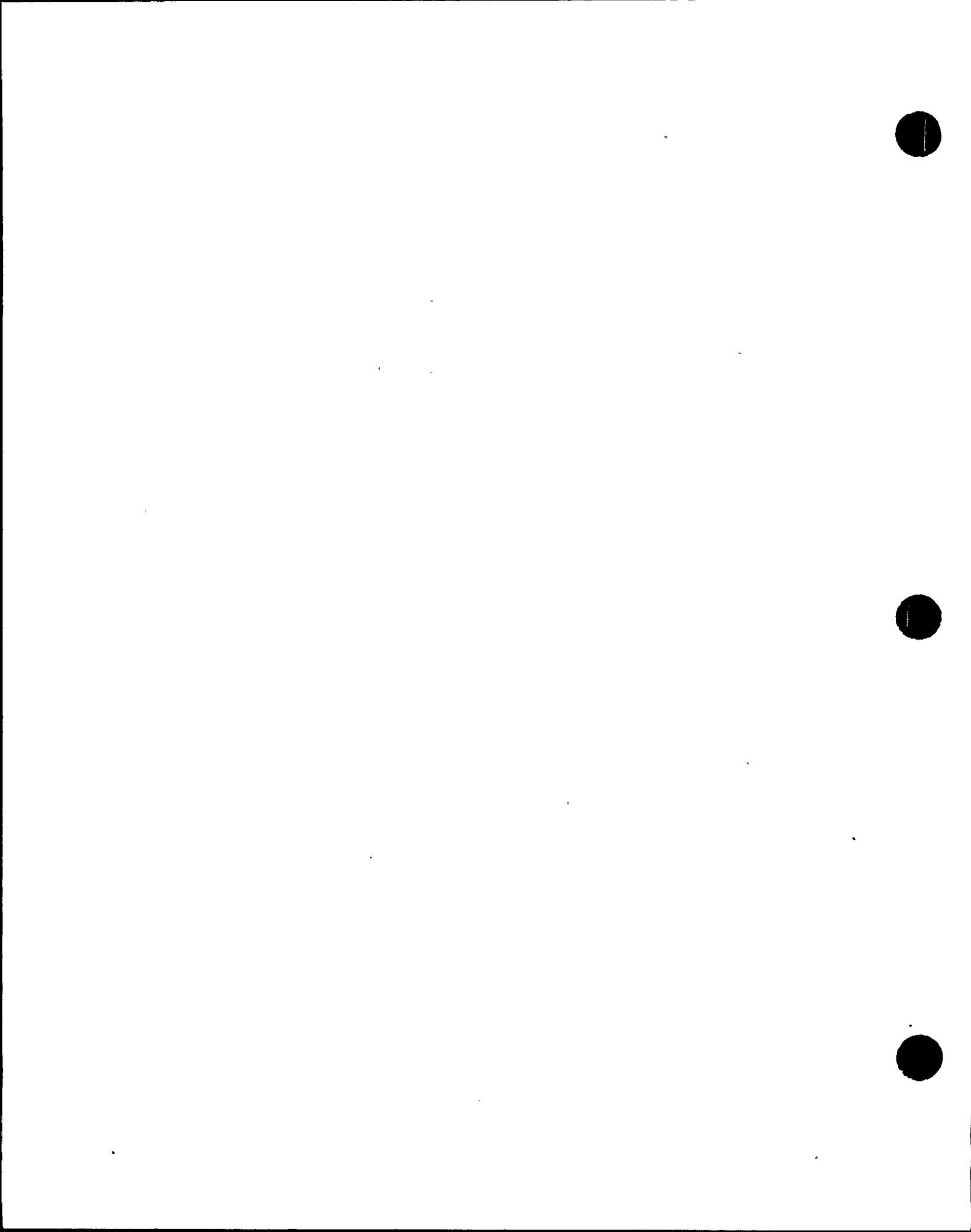


TABLE 4 (continued)

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	0.000	0.000	0.190	0.000	0.000	0.000	0.190	
NNE	0.000	0.000	0.000	0.095	0.095	0.142	0.000	0.000	0.000	0.332	
NE	0.000	0.000	0.000	0.000	0.095	0.047	0.000	0.000	0.000	0.142	
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	0.095	0.237	0.000	0.000	0.000	0.000	0.332	
SE	0.000	0.000	0.095	0.284	0.047	0.000	0.000	0.000	0.000	0.426	
SSE	0.000	0.000	0.190	0.284	0.000	0.000	0.000	0.000	0.000	0.474	
S	0.000	0.000	0.190	0.190	0.047	0.000	0.000	0.000	0.000	0.427	
SSW	0.000	0.000	0.000	0.427	0.000	0.000	0.000	0.000	0.000	0.427	
SW	0.000	0.000	0.000	0.142	0.000	0.000	0.000	0.000	0.000	0.142	
WSW	0.000	0.000	0.000	0.142	0.047	0.000	0.000	0.000	0.000	0.189	
W	0.000	0.000	0.000	0.000	0.190	0.047	0.000	0.000	0.000	0.237	
WNW	0.000	0.000	0.000	0.047	0.142	0.000	0.000	0.000	0.000	0.189	
NW	0.000	0.000	0.000	0.095	0.095	0.237	0.000	0.000	0.000	0.427	
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	0.475	1.801	0.995	0.853	0.000	0.000	0.000	4.124	

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	0.142	0.332	0.474	0.521	0.284	0.047	0.000	0.000	1.800	
NNE	0.000	0.000	0.474	0.379	0.474	0.237	0.000	0.000	0.000	1.564	
NE	0.000	0.047	0.237	0.427	0.237	0.095	0.000	0.000	0.000	1.043	
ENE	0.000	0.000	0.332	0.332	0.142	0.000	0.000	0.000	0.000	0.806	
E	0.000	0.047	0.237	0.190	0.237	0.000	0.000	0.000	0.000	0.711	
ESE	0.000	0.000	0.284	0.664	0.190	0.000	0.000	0.000	0.000	1.138	
SE	0.000	0.095	1.327	0.664	0.047	0.000	0.000	0.000	0.000	2.133	
SSE	0.000	0.000	2.844	0.758	0.000	0.000	0.000	0.000	0.000	3.602	
S	0.000	0.190	2.701	1.137	0.000	0.000	0.000	0.000	0.000	4.028	
SSW	0.000	0.095	1.659	0.995	0.047	0.000	0.000	0.000	0.000	2.796	
SW	0.000	0.142	0.711	0.853	0.000	0.000	0.000	0.000	0.000	1.706	
WSW	0.000	0.095	1.374	1.517	0.379	0.047	0.000	0.000	0.000	3.412	
W	0.000	0.000	0.284	1.137	1.327	0.237	0.000	0.000	0.000	2.985	
WNW	0.000	0.047	0.095	0.521	1.517	0.664	0.000	0.000	0.000	2.844	
NW	0.000	0.000	0.237	0.664	1.232	1.280	0.047	0.000	0.000	3.460	
NNW	0.000	0.000	0.095	0.427	0.284	0.427	0.000	0.000	0.000	1.233	
TOTALS	0.000	0.900	13.224	11.140	6.635	3.271	0.094	0.000	0.000	35.264	

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	0.026	0.237	0.806	0.806	0.190	0.190	0.000	0.000	0.000	2.255	
NNE	0.018	0.190	0.521	0.190	0.237	0.095	0.000	0.000	0.000	1.251	
NE	0.020	0.190	0.616	0.284	0.095	0.047	0.000	0.000	0.000	1.252	
ENE	0.016	0.047	0.569	0.142	0.047	0.000	0.047	0.000	0.000	0.868	
E	0.028	0.142	0.948	1.280	0.332	0.000	0.000	0.000	0.000	2.730	
ESE	0.040	0.332	1.232	1.280	0.190	0.000	0.000	0.000	0.000	3.074	
SE	0.041	0.616	0.995	0.948	0.142	0.000	0.000	0.000	0.000	2.742	
SSE	0.041	0.379	1.232	0.095	0.000	0.000	0.000	0.000	0.000	1.747	
S	0.041	0.616	0.995	0.379	0.000	0.000	0.000	0.000	0.000	2.031	
SSW	0.028	0.237	0.853	0.758	0.047	0.000	0.000	0.000	0.000	1.923	
SW	0.023	0.332	0.569	0.142	0.000	0.000	0.000	0.000	0.000	1.066	
WSW	0.037	0.237	1.232	0.379	0.047	0.000	0.000	0.000	0.000	1.932	
W	0.031	0.142	1.090	0.332	0.047	0.000	0.000	0.000	0.000	1.642	
WNW	0.010	0.000	0.379	0.284	0.190	0.047	0.000	0.000	0.000	0.910	
NW	0.008	0.095	0.237	0.521	0.000	0.095	0.000	0.000	0.000	0.956	
NNW	0.020	0.095	0.711	0.806	0.379	0.237	0.000	0.000	0.000	2.248	
TOTALS	0.428	3.887	12.986	8.627	1.943	0.711	0.047	0.000	0.000	28.630	

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	0.098	0.521	0.995	0.474	0.190	0.000	0.000	0.000	0.000	2.278	
NNE	0.055	0.332	0.521	0.806	0.284	0.047	0.000	0.000	0.000	2.045	
NE	0.052	0.521	0.284	0.332	0.000	0.000	0.000	0.000	0.000	1.189	
ENE	0.070	0.284	0.806	0.142	0.000	0.000	0.000	0.000	0.000	1.302	
E	0.083	0.237	1.043	0.853	0.000	0.000	0.000	0.000	0.000	2.216	
ESE	0.049	0.190	0.569	0.047	0.000	0.000	0.000	0.000	0.000	0.855	
SE	0.018	0.095	0.190	0.000	0.000	0.000	0.000	0.000	0.000	0.303	
SSE	0.006	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.101	
S	0.009	0.142	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.151	
SSW	0.003	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.050	
SW	0.006	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.100	
WSW	0.015	0.190	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.252	
W	0.015	0.095	0.142	0.000	0.000	0.000	0.000	0.000	0.000	0.252	
WNW	0.015	0.142	0.095	0.000	0.047	0.000	0.000	0.000	0.000	0.299	
NW	0.024	0.142	0.237	0.000	0.000	0.000	0.000	0.000	0.000	0.403	
NNW	0.049	0.379	0.379	0.616	0.095	0.000	0.000	0.000	0.000	1.518	
TOTALS	0.567	3.412	5.403	3.270	0.616	0.047	0.000	0.000	0.000	13.315	

TABLE 4 (continued)

STABILITY CLASS G

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED										TOTALS
	0.15	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95		
N	0.339	0.474	1.611	0.284	0.000	0.000	0.000	0.000	0.000	2.708	
NNE	0.239	0.664	0.806	1.137	0.142	0.000	0.000	0.000	0.000	2.988	
NE	0.177	0.711	0.379	0.047	0.047	0.000	0.000	0.000	0.000	1.361	
ENE	0.169	0.190	0.853	0.095	0.000	0.000	0.000	0.000	0.000	1.307	
E	0.085	0.047	0.474	0.095	0.000	0.000	0.000	0.000	0.000	0.701	
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
SE	0.023	0.095	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.165	
SSE	0.008	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.055	
S	0.008	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
SW	0.015	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.110	
WSW	0.008	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	
W	0.015	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.110	
WNW	0.015	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.109	
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
NNW	0.085	0.142	0.379	0.047	0.000	0.000	0.000	0.000	0.000	0.653	
TOTALS	1.186	2.654	4.643	1.705	0.189	0.000	0.000	0.000	0.000	10.378	

(0300c)

TABLE 5

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
GROUND-LEVEL JOINT
FREQUENCY DISTRIBUTION IN PERCENT
FOURTH QUARTER 1987

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	0.461	0.369	0.000	0.000	0.830
NNE	0.000	0.000	0.000	0.000	0.000	0.185	0.277	0.000	0.000	0.462
NE	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.092
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	0.046	0.046	0.000	0.000	0.000	0.000	0.092
SE	0.000	0.000	0.000	1.061	0.092	0.000	0.000	0.000	0.000	1.153
SSE	0.000	0.000	0.000	0.369	0.046	0.000	0.000	0.000	0.000	0.415
S	0.000	0.000	0.000	0.323	0.046	0.000	0.000	0.000	0.000	0.369
SSW	0.000	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.092
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	0.046	0.000	0.000	0.000	0.046
W	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	0.046	0.092	0.000	0.000	0.138
NW	0.000	0.000	0.000	0.000	0.000	0.138	0.415	0.000	0.000	0.553
NNW	0.000	0.000	0.000	0.000	0.000	0.046	0.323	0.000	0.000	0.369
TOTALS	0.000	0.000	0.000	1.846	0.230	1.060	1.476	0.000	0.000	4.612

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	0.138	0.138	0.000	0.000	0.276
NNE	0.000	0.000	0.000	0.046	0.000	0.092	0.000	0.000	0.000	0.138
NE	0.000	0.000	0.000	0.000	0.046	0.092	0.000	0.000	0.000	0.138
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	0.046	0.000	0.092	0.000	0.000	0.000	0.138
SE	0.000	0.000	0.231	0.277	0.000	0.000	0.000	0.000	0.000	0.508
SSE	0.000	0.000	0.000	0.092	0.046	0.000	0.000	0.000	0.000	0.138
S	0.000	0.000	0.092	0.231	0.000	0.046	0.000	0.000	0.000	0.369
SSW	0.000	0.000	0.000	0.138	0.092	0.000	0.000	0.000	0.000	0.230
SW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.092
W	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.277	0.000	0.000	0.277
NW	0.000	0.000	0.000	0.000	0.000	0.092	0.185	0.000	0.000	0.277
NNW	0.000	0.000	0.000	0.000	0.000	0.138	0.231	0.000	0.000	0.369
TOTALS	0.000	0.000	0.369	0.968	0.184	0.690	0.831	0.000	0.000	3.043

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	0.092	0.461	0.000	0.046	0.000	0.599	
NNE	0.000	0.000	0.000	0.092	0.046	0.000	0.000	0.000	0.000	0.138	
NE	0.000	0.000	0.000	0.000	0.000	0.138	0.000	0.000	0.000	0.138	
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	0.046	0.000	0.000	0.000	0.046	
SE	0.000	0.000	0.185	0.277	0.000	0.000	0.000	0.000	0.000	0.462	
SSE	0.000	0.000	0.138	0.185	0.000	0.000	0.000	0.000	0.000	0.323	
S	0.000	0.000	0.000	0.185	0.000	0.046	0.000	0.000	0.000	0.231	
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	0.092	0.000	0.000	0.000	0.000	0.000	0.092	
WSW	0.000	0.000	0.000	0.138	0.000	0.138	0.000	0.000	0.000	0.276	
W	0.000	0.000	0.000	0.000	0.000	0.138	0.000	0.000	0.000	0.138	
WNW	0.000	0.000	0.000	0.046	0.046	0.231	0.092	0.000	0.000	0.415	
NW	0.000	0.000	0.000	0.000	0.185	0.185	0.138	0.000	0.000	0.508	
NNW	0.000	0.000	0.000	0.000	0.046	0.092	0.092	0.000	0.000	0.230	
TOTALS	0.000	0.000	0.323	1.015	0.415	1.475	0.322	0.046	0.000	3.597	

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	0.092	0.369	0.461	1.061	0.692	0.138	0.000	2.814	
NNE	0.000	0.000	0.277	0.600	0.554	0.554	0.046	0.000	0.000	2.032	
NE	0.000	0.000	0.046	0.646	0.323	0.508	0.046	0.000	0.000	1.569	
ENE	0.000	0.000	0.323	0.369	0.231	0.138	0.000	0.000	0.000	1.061	
E	0.000	0.000	0.277	0.185	0.046	0.046	0.000	0.000	0.000	0.554	
ESE	0.000	0.000	0.415	0.369	0.323	0.231	0.000	0.000	0.000	1.338	
SE	0.000	0.000	1.246	0.784	0.046	0.092	0.000	0.000	0.000	2.169	
SSE	0.000	0.000	0.831	0.508	0.046	0.138	0.000	0.000	0.000	1.523	
S	0.000	0.046	0.323	0.231	0.092	0.092	0.000	0.000	0.000	0.784	
SSW	0.000	0.000	0.369	0.185	0.092	0.046	0.000	0.000	0.000	0.692	
SW	0.000	0.000	0.277	0.046	0.000	0.138	0.000	0.000	0.000	0.461	
WSW	0.000	0.000	0.092	0.508	0.600	0.185	0.138	0.000	0.000	1.523	
W	0.000	0.000	0.046	0.185	0.877	0.877	0.138	0.046	0.000	2.170	
WNW	0.000	0.000	0.046	0.323	0.692	1.292	0.508	0.185	0.000	3.047	
NW	0.000	0.000	0.185	0.508	0.277	0.877	1.246	0.138	0.000	3.232	
NNW	0.000	0.000	0.092	0.415	0.508	0.969	0.415	0.000	0.000	2.400	
TOTALS	0.000	0.046	4.939	6.233	5.170	7.246	3.230	0.507	0.000	27.370	



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	0.010	0.046	0.461	0.277	0.277	0.646	0.600	0.000	0.000	2.318	
NNE	0.006	0.000	0.323	0.185	0.092	0.277	0.046	0.000	0.000	0.929	
NE	0.005	0.046	0.231	0.369	0.277	0.046	0.000	0.000	0.000	0.974	
ENE	0.010	0.092	0.461	0.185	0.138	0.092	0.000	0.000	0.000	0.978	
E	0.017	0.185	0.738	0.554	0.277	0.000	0.000	0.000	0.000	1.772	
ESE	0.036	0.323	1.569	1.292	1.384	0.415	0.000	0.000	0.000	5.021	
SE	0.026	0.231	1.154	1.154	0.508	0.508	0.000	0.000	0.000	3.562	
SSE	0.022	0.277	0.877	1.246	0.554	0.138	0.000	0.000	0.000	3.115	
S	0.018	0.277	0.692	0.923	0.877	0.277	0.000	0.000	0.000	3.065	
SSW	0.004	0.138	0.092	0.277	0.046	0.000	0.000	0.000	0.000	0.557	
SW	0.001	0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.093	
WSW	0.004	0.000	0.231	0.231	0.046	0.138	0.092	0.000	0.000	0.742	
W	0.005	0.092	0.185	0.323	0.415	0.323	0.000	0.000	0.000	1.343	
WNW	0.006	0.000	0.323	0.231	0.369	0.185	0.046	0.000	0.000	1.160	
NW	0.006	0.092	0.231	0.600	0.369	0.646	0.277	0.000	0.000	2.222	
NNW	0.008	0.046	0.369	0.554	0.692	1.061	0.092	0.000	0.000	2.823	
TOTALS	0.184	1.892	7.939	8.450	6.323	4.753	1.153	0.000	0.000	30.694	

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	0.046	0.185	0.738	0.323	0.000	0.000	0.000	0.000	1.296	
NNE	0.004	0.092	0.138	0.369	0.323	0.000	0.000	0.000	0.000	0.926	
NE	0.003	0.046	0.138	0.185	0.046	0.046	0.000	0.000	0.000	0.464	
ENE	0.011	0.138	0.508	0.138	0.046	0.000	0.000	0.000	0.000	0.841	
E	0.020	0.092	1.061	0.692	0.046	0.000	0.000	0.000	0.000	1.912	
ESE	0.022	0.231	1.061	0.046	0.138	0.046	0.000	0.000	0.000	1.544	
SE	0.026	0.323	1.154	0.923	0.138	0.185	0.000	0.000	0.000	2.750	
SSE	0.016	0.323	0.600	0.784	0.415	0.323	0.046	0.000	0.000	2.508	
S	0.014	0.138	0.646	0.092	0.461	0.461	0.000	0.000	0.000	1.813	
SSW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046	
SW	0.001	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047	
WSW	0.001	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047	
W	0.002	0.000	0.138	0.000	0.000	0.000	0.000	0.000	0.000	0.140	
WNW	0.002	0.046	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.186	
NW	0.005	0.000	0.277	0.138	0.000	0.000	0.000	0.000	0.000	0.420	
NNW	0.007	0.046	0.369	0.554	0.277	0.046	0.000	0.000	0.000	1.299	
TOTALS	0.138	1.613	6.369	4.706	2.260	1.107	0.046	0.000	0.000	16.240	

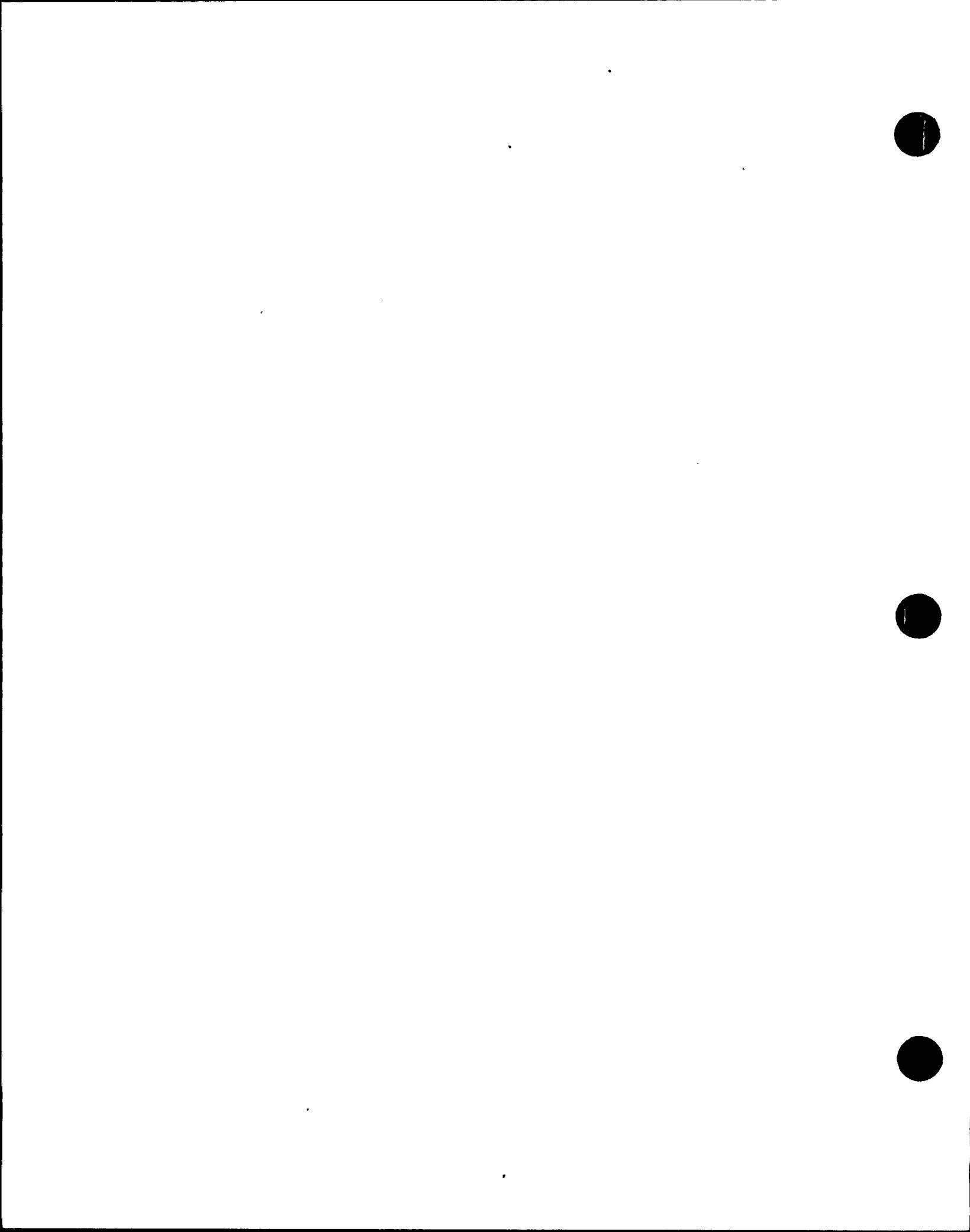


TABLE 5 (continued)

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	0.046	0.277	0.600	0.784	0.046	0.000	0.000	0.000	0.000	1.754	
NNE	0.087	0.508	1.154	0.877	0.185	0.000	0.000	0.000	0.000	2.912	
NE	0.046	0.231	0.646	0.092	0.000	0.000	0.000	0.000	0.000	1.015	
ENE	0.075	0.046	1.384	0.138	0.000	0.000	0.000	0.000	0.000	1.644	
E	0.092	0.185	1.569	0.646	0.000	0.000	0.000	0.000	0.000	2.493	
ESE	0.024	0.092	0.369	0.000	0.000	0.000	0.000	0.000	0.000	0.485	
SE	0.041	0.185	0.600	0.046	0.046	0.000	0.000	0.000	0.000	0.918	
SSE	0.044	0.369	0.461	0.831	0.000	0.046	0.000	0.000	0.000	1.752	
S	0.005	0.046	0.046	0.138	0.185	0.046	0.000	0.000	0.000	0.466	
SSW	0.002	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.048	
SW	0.002	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048	
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	0.002	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048	
NW	0.022	0.046	0.369	0.000	0.000	0.000	0.000	0.000	0.000	0.437	
NNW	0.019	0.138	0.231	0.092	0.046	0.000	0.000	0.000	0.000	0.526	
TOTALS	0.507	2.216	7.477	3.645	0.508	0.092	0.000	0.000	0.000	14.445	

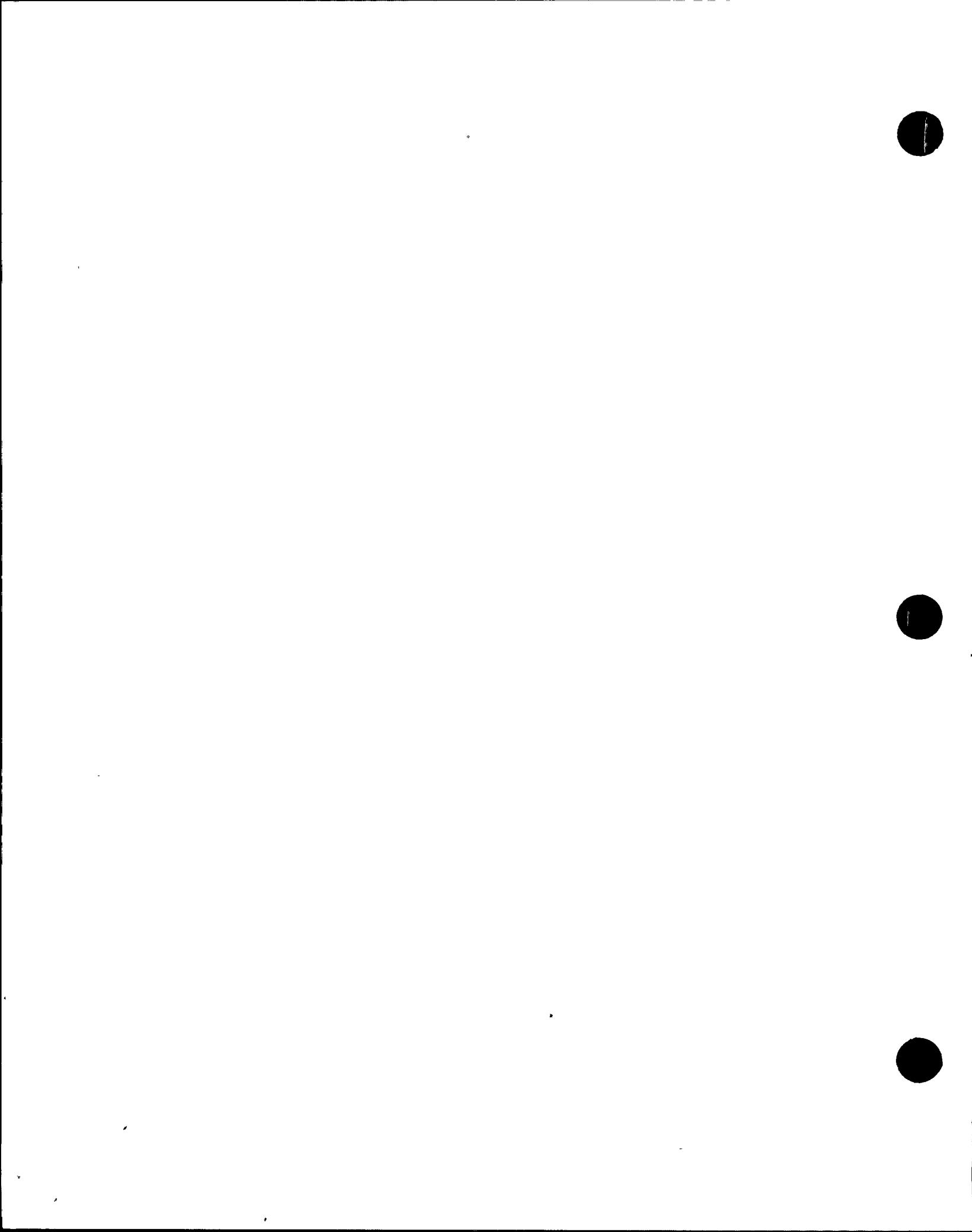


TABLE 6

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
SPLIT-LEVEL IN PERCENT
GROUND-LEVEL PORTION
THIRD QUARTER 1987

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	0.017	0.000	0.000	0.000	0.000	0.037
NNE	0.000	0.000	0.000	0.000	0.005	0.020	0.000	0.000	0.000	0.000	0.025
NE	0.000	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	0.003	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.007
ESE	0.000	0.000	0.000	0.008	0.057	0.016	0.000	0.000	0.000	0.000	0.081
SE	0.000	0.000	0.000	0.038	0.028	0.000	0.000	0.000	0.000	0.000	0.006
SSE	0.000	0.000	0.003	0.047	0.005	0.000	0.000	0.000	0.000	0.000	0.055
S	0.000	0.000	0.000	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.043
SSW	0.000	0.000	0.000	0.024	0.025	0.000	0.000	0.000	0.000	0.000	0.049
SW	0.000	0.000	0.000	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.023
WSW	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.005
W	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.006
WNW	0.000	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	0.042	0.009	0.000	0.000	0.000	0.055
NNW	0.000	0.000	0.000	0.005	0.008	0.005	0.000	0.000	0.000	0.000	0.018
TOTALS	0.000	0.000	0.003	0.180	0.148	0.130	0.009	0.000	0.000	0.470	

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	0.004	0.030	0.000	0.000	0.000	0.000	0.034
NNE	0.000	0.000	0.000	0.000	0.014	0.022	0.000	0.000	0.000	0.000	0.036
NE	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.016
ENE	0.000	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	0.006	0.000	0.000	0.000	0.000	0.000	0.006
ESE	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.006
SE	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.009
SSE	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
S	0.000	0.000	0.001	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.022
SSW	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.008
SW	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.002
WSW	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.007
W	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.017
WNW	0.000	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	0.023	0.000	0.000	0.000	0.000	0.027
NNW	0.000	0.000	0.000	0.000	0.004	0.011	0.000	0.000	0.000	0.000	0.015
TOTALS	0.000	0.000	0.001	0.045	0.058	0.101	0.000	0.000	0.000	0.205	

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	2.88	4.45	6.91	9.59	10.95		
N	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.024
NNE	0.000	0.000	0.000	0.001	0.007	0.023	0.000	0.000	0.000	0.000	0.031
NE	0.000	0.000	0.000	0.000	0.008	0.005	0.000	0.000	0.000	0.000	0.013
ENE	0.000	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	0.000
ESE	0.000	0.000	0.000	0.009	0.029	0.000	0.000	0.000	0.000	0.000	0.038
SE	0.000	0.000	0.000	0.008	0.008	0.000	0.000	0.000	0.000	0.000	0.016
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.300	0.000	0.000	0.000	0.000
S	0.000	0.000	0.003	0.010	0.009	0.000	0.000	0.000	0.000	0.000	0.022
SSW	0.000	0.000	0.000	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.025
SW	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
WSW	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.003
W	0.000	0.000	0.000	0.000	0.013	0.006	0.000	0.000	0.000	0.000	0.019
WNW	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006
NW	0.000	0.000	0.000	0.000	0.005	0.030	0.000	0.000	0.000	0.000	0.035
NNW	0.000	0.000	0.000	0.000	0.000	0.026	0.000	0.000	0.000	0.000	0.026
TOTALS	0	0.000	0.000	0.003	0.055	0.087	0.114	0.000	0.000	0.000	0.259

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	0.010	0.052	0.042	0.009	0.000	0.000	0.000	0.113
NNE	0.000	0.000	0.000	0.006	0.048	0.033	0.000	0.000	0.000	0.000	0.087
NE	0.000	0.000	0.000	0.002	0.013	0.011	0.000	0.000	0.000	0.000	0.026
ENE	0.000	0.000	0.000	0.005	0.009	0.000	0.000	0.000	0.000	0.000	0.014
E	0.000	0.000	0.000	0.002	0.023	0.000	0.000	0.000	0.000	0.000	0.025
ESE	0.000	0.000	0.007	0.055	0.025	0.000	0.000	0.000	0.000	0.000	0.087
SE	0.000	0.000	0.029	0.057	0.008	0.000	0.000	0.000	0.000	0.000	0.094
SSE	0.000	0.000	0.059	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.104
S	0.000	0.000	0.123	0.074	0.000	0.000	0.000	0.000	0.000	0.000	0.197
SSW	0.000	0.000	0.043	0.076	0.010	0.000	0.000	0.000	0.000	0.000	0.129
SW	0.000	0.000	0.001	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.047
WSW	0.000	0.000	0.004	0.049	0.058	0.008	0.000	0.000	0.000	0.000	0.119
W	0.000	0.000	0.000	0.013	0.091	0.027	0.000	0.000	0.000	0.000	0.131
WNW	0.000	0.000	0.000	0.004	0.101	0.084	0.000	0.000	0.000	0.000	0.189
NW	0.000	0.000	0.000	0.005	0.071	0.174	0.009	0.000	0.000	0.000	0.259
NNW	0.000	0.000	0.000	0.004	0.030	0.069	0.000	0.000	0.000	0.000	0.103
TOTALS	0	0.000	0.000	0.266	0.453	0.539	0.448	0.016	0.300	0.000	1.724

TABLE 6 (continued)

STABILITY CLASS E

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED										TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95		
N	0.000	0.000	0.005	0.080	0.029	0.030	0.000	0.000	0.000	0.144	
NNE	0.000	0.000	0.015	0.018	0.036	0.018	0.000	0.000	0.000	0.087	
NE	0.000	0.000	0.014	0.026	0.016	0.006	0.000	0.000	0.000	0.062	
ENE	0.000	0.000	0.013	0.018	0.005	0.000	0.032	0.000	0.000	0.068	
E	0.000	0.000	0.012	0.101	0.043	0.000	0.000	0.000	0.000	0.156	
ESE	0.000	0.003	0.046	0.121	0.026	0.000	0.000	0.000	0.000	0.196	
SE	0.000	0.012	0.074	0.143	0.026	0.000	0.000	0.000	0.000	0.255	
SSE	0.000	0.004	0.092	0.017	0.000	0.000	0.000	0.000	0.000	0.113	
S	0.000	0.011	0.075	0.062	0.000	0.000	0.000	0.000	0.000	0.148	
SSW	0.000	0.000	0.056	0.110	0.009	0.000	0.000	0.000	0.000	0.175	
SW	0.000	0.000	0.009	0.003	0.000	0.000	0.000	0.000	0.000	0.012	
WSW	0.000	0.000	0.005	0.022	0.006	0.000	0.000	0.000	0.000	0.033	
W	0.000	0.003	0.005	0.012	0.004	0.000	0.000	0.000	0.000	0.024	
WNW	0.000	0.000	0.000	0.010	0.014	0.007	0.000	0.000	0.000	0.031	
NW	0.000	0.000	0.000	0.017	0.000	0.016	0.000	0.000	0.000	0.033	
NNW	0.000	0.000	0.005	0.054	0.051	0.037	0.000	0.000	0.000	0.147	
TOTALS	0.000	0.033	0.426	0.814	0.265	0.114	0.032	0.000	0.000	1.684	

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	0.001	0.042	0.049	0.032	0.000	0.000	0.000	0.000	0.124	
NNE	0.000	0.001	0.010	0.100	0.047	0.009	0.000	0.000	0.000	0.167	
NE	0.000	0.002	0.012	0.043	0.000	0.000	0.000	0.000	0.000	0.057	
ENE	0.000	0.004	0.018	0.004	0.000	0.000	0.000	0.000	0.000	0.026	
E	0.000	0.000	0.011	0.055	0.000	0.000	0.000	0.000	0.000	0.066	
ESE	0.000	0.005	0.011	0.003	0.000	0.000	0.000	0.000	0.000	0.019	
SE	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.009	
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
S	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	
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	0.006	0.000	0.000	0.000	0.000	0.006	
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	0.009	0.075	0.015	0.000	0.000	0.000	0.000	0.099	
TOTALS	0.000	0.014	0.122	0.329	0.100	0.009	0.000	0.000	0.000	0.374	

TABLE 6 (continued)

STABILITY CLASS G

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED										TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95		
N	0.000	0.000	0.099	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.133
NNE	0.000	0.009	0.019	0.157	0.026	0.000	0.000	0.000	0.000	0.000	0.211
NE	0.000	0.000	0.003	0.007	0.009	0.000	0.000	0.000	0.000	0.000	0.019
ENE	0.000	0.000	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.012
E	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007
ESE	0.000	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	0.000
SSE	0.000	0.000	0.003	0.000	0.000	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	0.000
SSW	0.000	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	0.000
WSW	0.000	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	0.000
NNW	0.000	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	0.000
NNW	0.000	0.000	0.014	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.022
TOTALS	0.000	0.009	0.150	0.213	0.035	0.000	0.000	0.000	0.000	0.407	

TABLE 6

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
SPLIT-LEVEL IN PERCENT
ELEVATED PORTION
THIRD QUARTER 1987

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	0.000
NNE	0.000	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	0.000
ENE	0.000	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	0.000
ESE	0.000	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	0.000
SSE	0.000	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	0.000
SSH	0.000	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	0.000
WSW	0.000	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	0.000
WNW	0.000	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	0.000
NNW	0.000	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	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	0.000
NNE	0.000	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	0.000
ENE	0.000	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	0.000
ESE	0.000	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	0.000
SSE	0.000	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	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
SSH	0.000	0.000	0.000	0.000	0.000	0.082	0.000	0.000	0.000	0.000	0.082
SW	0.000	0.000	0.000	0.000	0.045	0.042	0.000	0.000	0.000	0.000	0.087
WSW	0.000	0.000	0.000	0.000	0.133	0.000	0.000	0.000	0.000	0.000	0.133
W	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000	0.000	0.000	0.041
WNW	0.000	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	0.000
NNW	0.000	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	0.047	0.178	0.165	0.300	0.000	0.000	0.390	

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	2.88	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	0.000
NNE	0.000	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	0.000
ENE	0.000	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	0.000
ESE	0.000	0.000	0.047	0.047	0.045	0.085	0.000	0.000	0.000	0.177	
SE	0.000	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.047	
SSE	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.095	
S	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.095	
SSW	0.000	0.000	0.047	0.142	0.000	0.083	0.000	0.000	0.000	0.272	
SW	0.000	0.000	0.000	0.237	0.137	0.000	0.000	0.000	0.000	0.374	
WSW	0.000	0.000	0.000	0.142	0.182	0.000	0.000	0.000	0.000	0.324	
W	0.000	0.000	0.000	0.047	0.045	0.127	0.000	0.000	0.000	0.219	
WNW	0.000	0.000	0.000	0.000	0.046	0.043	0.000	0.000	0.000	0.089	
NN	0.000	0.000	0.000	0.047	0.047	0.000	0.039	0.000	0.000	0.133	
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	0.142	0.804	0.502	0.338	0.039	0.000	0.000	1.825	

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	0.001	0.047	0.095	0.474	0.462	1.335	0.272	0.000	0.000	2.687	
NNE	0.003	0.142	0.379	0.284	0.408	1.004	0.038	0.037	0.000	2.296	
NE	0.001	0.047	0.095	0.190	0.183	0.341	0.000	0.000	0.000	0.857	
ENE	0.001	0.047	0.095	0.237	0.091	0.000	0.000	0.000	0.000	0.471	
E	0.001	0.095	0.142	0.237	0.181	0.084	0.000	0.000	0.000	0.740	
ESE	0.003	0.000	0.569	0.521	0.590	1.089	0.000	0.000	0.000	2.773	
SE	0.007	0.000	1.232	1.564	0.832	1.920	0.548	0.000	0.000	6.105	
SSE	0.008	0.190	1.090	1.327	1.327	1.223	0.273	0.029	0.000	5.468	
S	0.004	0.000	0.711	1.374	1.280	1.944	0.661	0.000	0.000	5.975	
SSW	0.005	0.000	0.806	1.232	0.552	0.753	0.273	0.037	0.000	3.659	
SW	0.003	0.047	0.521	1.090	0.184	0.617	0.079	0.000	0.000	2.542	
WSW	0.003	0.047	0.474	1.137	0.878	0.417	0.000	0.000	0.000	2.957	
W	0.002	0.000	0.332	0.900	1.319	0.720	0.000	0.000	0.000	3.274	
WNW	0.001	0.095	0.142	0.474	1.082	1.262	0.039	0.000	0.000	3.096	
NN	0.002	0.047	0.237	0.569	1.056	1.835	0.468	0.000	0.000	4.215	
NNW	0.001	0.095	0.000	0.284	0.273	0.875	0.117	0.000	0.000	1.645	
TOTALS	0.046	0.899	6.922	11.897	10.701	15.423	2.769	0.103	0.000	48.759	

TABLE 6 (continued)

STABILITY CLASS E

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED										TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95		
N	0.026	0.047	0.474	0.379	0.636	0.918	0.236	0.000	0.000	2.717	
NNE	0.014	0.047	0.237	0.237	0.279	0.992	0.078	0.000	0.000	1.884	
NE	0.007	0.000	0.142	0.284	0.509	0.463	0.039	0.000	0.000	1.444	
ENE	0.019	0.047	0.332	0.521	0.366	0.258	0.000	0.015	0.000	1.558	
E	0.019	0.000	0.379	0.521	0.323	0.849	0.000	0.000	0.000	2.092	
ESE	0.026	0.095	0.427	0.664	0.641	1.189	0.000	0.000	0.000	3.043	
SE	0.028	0.000	0.569	1.185	0.775	0.504	0.000	0.000	0.000	3.062	
SSE	0.049	0.190	0.806	0.521	0.410	0.499	0.118	0.000	0.000	2.594	
S	0.037	0.142	0.616	0.806	0.137	0.456	0.193	0.030	0.000	2.418	
SSW	0.023	0.047	0.427	0.569	0.178	0.205	0.156	0.000	0.000	1.605	
SW	0.023	0.047	0.427	0.853	0.229	0.209	0.000	0.000	0.000	1.788	
WSW	0.028	0.095	0.474	0.521	0.367	0.063	0.000	0.000	0.000	1.568	
W	0.021	0.000	0.427	0.569	0.325	0.127	0.000	0.000	0.000	1.469	
WNW	0.023	0.047	0.427	0.616	0.370	0.044	0.000	0.000	0.000	1.527	
NW	0.023	0.095	0.379	0.474	0.413	0.419	0.039	0.000	0.000	1.842	
NNW	0.014	0.095	0.190	0.237	0.409	0.792	0.039	0.000	0.000	1.776	
TOTALS	0.380	0.994	6.735	8.959	6.369	8.009	0.898	0.045	0.000	32.389	

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	0.009	0.000	0.095	0.190	0.225	0.462	0.039	0.000	0.000	1.020	
NNE	0.017	0.000	0.190	0.142	0.000	0.735	0.156	0.000	0.000	1.240	
NE	0.013	0.000	0.142	0.142	0.407	0.382	0.078	0.000	0.000	1.164	
ENE	0.017	0.047	0.142	0.237	0.273	0.042	0.000	0.000	0.000	0.758	
E	0.000	0.000	0.000	0.047	0.000	0.126	0.000	0.000	0.000	0.173	
ESE	0.017	0.142	0.047	0.095	0.414	0.168	0.000	0.000	0.000	0.883	
SE	0.022	0.000	0.237	0.284	0.091	0.043	0.000	0.000	0.000	0.677	
SSE	0.017	0.000	0.190	0.095	0.047	0.000	0.000	0.000	0.000	0.349	
S	0.004	0.000	0.047	0.000	0.045	0.082	0.000	0.000	0.000	0.178	
SSW	0.009	0.000	0.095	0.142	0.045	0.000	0.000	0.000	0.000	0.291	
SW	0.017	0.095	0.095	0.095	0.047	0.000	0.000	0.000	0.000	0.349	
WSW	0.017	0.047	0.142	0.095	0.044	0.000	0.000	0.000	0.000	0.345	
W	0.013	0.047	0.095	0.237	0.047	0.041	0.000	0.000	0.000	0.480	
WNW	0.009	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.103	
NW	0.004	0.000	0.047	0.142	0.046	0.000	0.000	0.000	0.000	0.239	
NNW	0.004	0.000	0.047	0.190	0.186	0.249	0.000	0.000	0.000	0.676	
TOTALS	0.189	0.425	1.658	2.134	1.917	2.331	0.273	0.000	0.000	8.927	

TABLE 6 (continued)

STABILITY CLASS G

SECTOR	WIND SPEEDS IN METERS PER SECOND FROM THE SECTORS INDICATED										TOTALS
	0.13	0.45	1.10	1.99	2.88	4.45	6.91	9.59	10.95		
N	0.000	0.000	0.000	0.095	0.000	0.209	0.000	0.000	0.000	0.304	
NNE	0.009	0.000	0.047	0.047	0.177	0.333	0.078	0.000	0.000	0.691	
NE	0.019	0.000	0.095	0.047	0.091	0.285	0.000	0.000	0.000	0.537	
ENE	0.000	0.000	0.000	0.047	0.000	0.085	0.000	0.000	0.000	0.132	
E	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.095	
ESE	0.009	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.056	
SE	0.019	0.000	0.095	0.047	0.000	0.000	0.000	0.000	0.000	0.161	
SSE	0.019	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.113	
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	0.093	0.000	0.000	0.000	0.000	0.093	
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
WSW	0.009	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.103	
W	0.009	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.056	
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	0.045	0.000	0.000	0.000	0.000	0.045	
TOTALS	0.093	0.047	0.425	0.425	0.406	0.912	0.078	0.000	0.000	2.387	

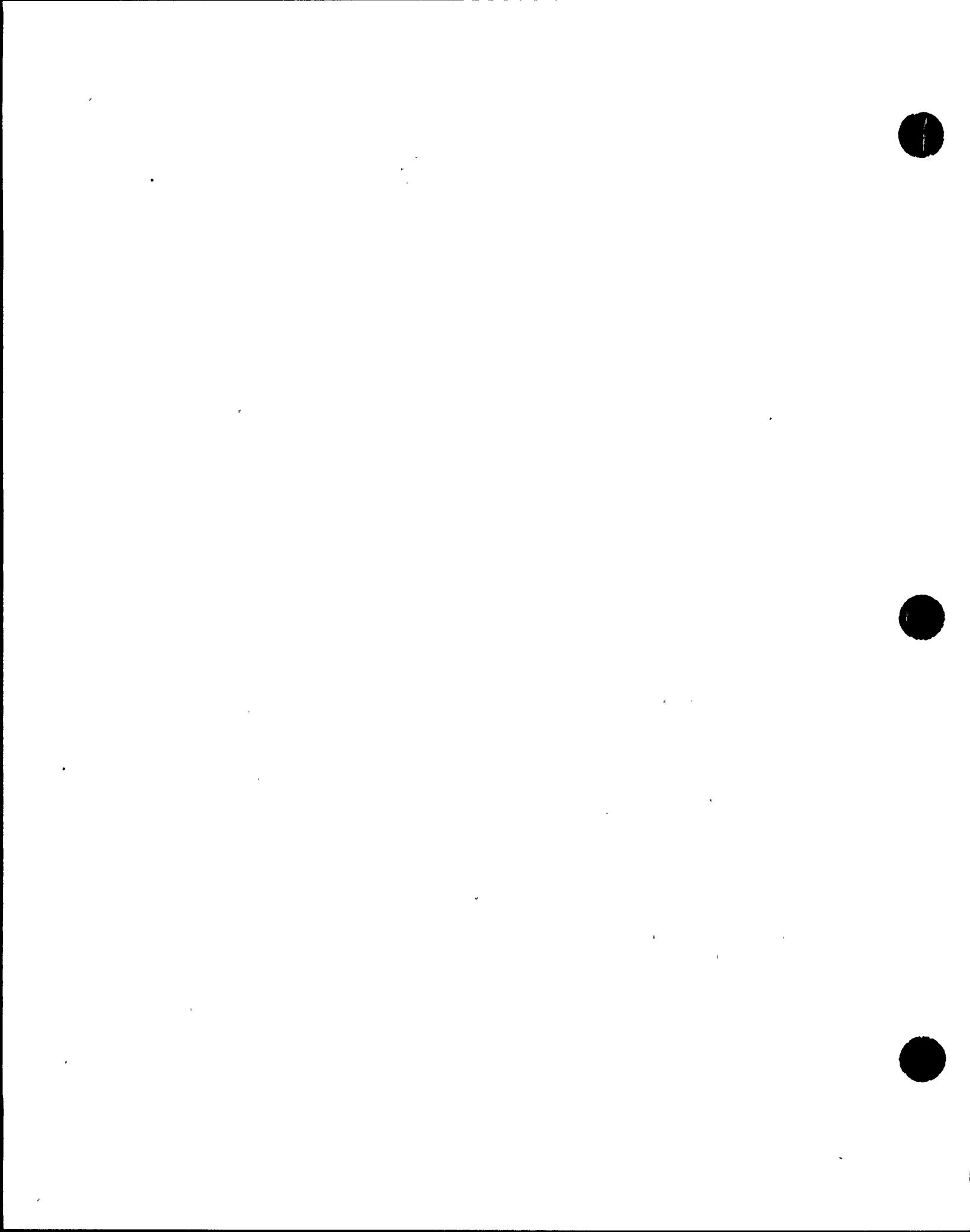


TABLE 7

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
SPLIT-LEVEL JFD IN PERCENT
GROUND LEVEL PORTION
FOURTH QUARTER 1987

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	0.082	0.134	0.000	0.000	0.216	
NNE	0.000	0.000	0.000	0.000	0.000	0.031	0.056	0.000	0.000	0.087	
NE	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000	0.000	0.012	
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	0.007	0.000	0.000	0.000	0.000	0.010	
SE	0.000	0.000	0.000	0.040	0.008	0.000	0.000	0.000	0.000	0.048	
SSE	0.000	0.000	0.000	0.047	0.009	0.000	0.000	0.000	0.000	0.056	
S	0.000	0.000	0.000	0.038	0.010	0.000	0.000	0.000	0.000	0.048	
SSW	0.000	0.000	0.000	0.002	0.000	0.009	0.000	0.000	0.000	0.011	
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	0.022	0.000	0.000	0.000	0.022	
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	0.008	0.039	0.000	0.000	0.047	
NW	0.000	0.000	0.000	0.000	0.000	0.024	0.100	0.000	0.000	0.124	
NNW	0.000	0.000	0.000	0.000	0.000	0.008	0.075	0.000	0.000	0.083	
TOTALS	0.000	0.000	0.000	0.130	0.034	0.196	0.404	0.000	0.000	0.764	

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	0.022	0.041	0.000	0.000	0.063	
NNE	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.000	0.000	0.015	
NE	0.000	0.000	0.000	0.000	0.001	0.012	0.000	0.000	0.000	0.013	
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	0.016	0.000	0.000	0.000	0.016	
SE	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.011	
SSE	0.000	0.000	0.000	0.014	0.009	0.000	0.000	0.000	0.000	0.023	
S	0.000	0.000	0.000	0.020	0.000	0.011	0.000	0.000	0.000	0.031	
SSW	0.000	0.000	0.000	0.006	0.018	0.000	0.000	0.008	0.000	0.024	
SW	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.003	
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	0.056	0.000	0.000	0.056	
NW	0.000	0.000	0.000	0.000	0.000	0.012	0.059	0.000	0.000	0.071	
NNW	0.000	0.000	0.000	0.000	0.000	0.024	0.047	0.000	0.000	0.071	
TOTALS	0.000	0.000	0.000	0.054	0.028	0.112	0.203	0.000	0.000	0.397	

(0300c)

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	0.008	0.076	0.000	0.037	0.000	0.121	
NNE	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.004	
NE	0.000	0.000	0.000	0.000	0.000	0.019	0.000	0.000	0.000	0.019	
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	0.008	0.000	0.000	0.000	0.008	
SE	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.005	
SSE	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003	
S	0.000	0.000	0.000	0.000	0.000	0.021	0.000	0.000	0.000	0.021	
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	0.009	0.000	0.000	0.000	0.000	0.000	0.009	
WSW	0.000	0.000	0.000	0.002	0.000	0.032	0.000	0.000	0.000	0.034	
W	0.000	0.000	0.000	0.000	0.000	0.023	0.000	0.000	0.000	0.023	
WWN	0.000	0.000	0.000	0.000	0.000	0.037	0.029	0.000	0.000	0.066	
NNW	0.000	0.000	0.000	0.000	0.013	0.029	0.039	0.000	0.000	0.081	
NNW	0.000	0.000	0.000	0.000	0.005	0.014	0.019	0.000	0.000	0.038	
TOTALS	0.000	0.000	0.003	0.016	0.030	0.259	0.087	0.037	0.000	0.432	

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	0.046	0.170	0.269	0.118	0.000	0.618	
NNE	0.000	0.000	0.000	0.011	0.056	0.085	0.039	0.000	0.000	0.191	
NE	0.000	0.000	0.000	0.014	0.020	0.077	0.009	0.000	0.000	0.120	
ENE	0.000	0.000	0.000	0.003	0.022	0.021	0.000	0.000	0.000	0.046	
E	0.000	0.000	0.002	0.003	0.006	0.007	0.000	0.000	0.000	0.018	
ESE	0.000	0.000	0.001	0.020	0.050	0.040	0.000	0.000	0.000	0.111	
SE	0.000	0.000	0.000	0.067	0.008	0.016	0.000	0.000	0.000	0.091	
SSE	0.000	0.000	0.007	0.037	0.008	0.038	0.000	0.000	0.000	0.090	
S	0.000	0.000	0.003	0.035	0.021	0.028	0.000	0.000	0.000	0.087	
SSW	0.000	0.000	0.014	0.030	0.018	0.012	0.000	0.000	0.000	0.074	
SW	0.000	0.000	0.008	0.000	0.000	0.029	0.000	0.000	0.000	0.037	
WSW	0.000	0.000	0.000	0.027	0.082	0.062	0.089	0.000	0.000	0.260	
W	0.000	0.000	0.000	0.011	0.090	0.132	0.074	0.046	0.000	0.353	
WWN	0.000	0.000	0.000	0.001	0.043	0.195	0.173	0.130	0.000	0.542	
NNW	0.000	0.000	0.000	0.002	0.025	0.142	0.343	0.110	0.000	0.622	
NNW	0.000	0.000	0.000	0.007	0.056	0.153	0.103	0.000	0.000	0.319	
TOTALS	0.000	0.000	0.035	0.283	0.551	1.207	1.099	0.404	0.000	3.579	

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	0.009	0.015	0.038	0.118	0.169	0.000	0.000	0.349
NNE	0.000	0.000	0.002	0.018	0.014	0.051	0.016	0.000	0.000	0.101
NE	0.000	0.000	0.005	0.025	0.039	0.007	0.000	0.000	0.000	0.076
ENE	0.000	0.000	0.000	0.014	0.020	0.015	0.000	0.000	0.000	0.049
E	0.000	0.000	0.010	0.044	0.042	0.000	0.000	0.000	0.000	0.096
ESE	0.000	0.000	0.048	0.127	0.204	0.073	0.000	0.000	0.000	0.452
SE	0.000	0.003	0.061	0.156	0.083	0.119	0.000	0.000	0.000	0.424
SSE	0.000	0.002	0.045	0.224	0.164	0.104	0.000	0.000	0.000	0.539
S	0.000	0.007	0.060	0.145	0.193	0.145	0.000	0.000	0.000	0.550
SSW	0.000	0.001	0.000	0.044	0.009	0.000	0.000	0.000	0.000	0.054
SW	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.007
WSW	0.000	0.000	0.008	0.025	0.008	0.027	0.072	0.000	0.000	0.140
W	0.000	0.002	0.004	0.030	0.050	0.060	0.000	0.000	0.000	0.146
WNW	0.000	0.000	0.001	0.018	0.044	0.033	0.014	0.000	0.000	0.110
NW	0.000	0.000	0.000	0.034	0.047	0.116	0.073	0.000	0.000	0.270
NNW	0.000	0.000	0.009	0.053	0.097	0.187	0.019	0.000	0.000	0.365
TOTALS	0.000	0.017	0.262	0.979	1.052	1.055	0.363	0.000	0.000	3.728

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	0.009	0.089	0.052	0.000	0.000	0.000	0.000	0.150
NNE	0.000	0.005	0.005	0.045	0.051	0.000	0.000	0.000	0.000	0.106
NE	0.000	0.000	0.003	0.020	0.007	0.008	0.000	0.000	0.000	0.038
ENE	0.000	0.003	0.018	0.014	0.007	0.000	0.000	0.000	0.000	0.042
E	0.000	0.002	0.014	0.036	0.008	0.000	0.000	0.000	0.000	0.060
ESE	0.000	0.003	0.036	0.005	0.022	0.009	0.000	0.000	0.000	0.075
SE	0.001	0.005	0.110	0.156	0.030	0.061	0.000	0.000	0.000	0.363
SSE	0.001	0.003	0.068	0.161	0.274	0.323	0.047	0.000	0.000	0.877
S	0.000	0.003	0.045	0.015	0.097	0.182	0.000	0.000	0.000	0.342
SSW	0.000	0.000	0.000	0.000	0.023	0.000	0.000	0.000	0.000	0.023
SW	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
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	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003
WNW	0.000	0.000	0.002	0.005	0.000	0.000	0.000	0.000	0.000	0.007
NW	0.000	0.000	0.002	0.011	0.000	0.000	0.000	0.000	0.000	0.013
NNW	0.000	0.000	0.009	0.067	0.045	0.008	0.000	0.000	0.000	0.129
TOTALS	0.002	0.025	0.324	0.624	0.616	0.591	0.047	0.000	0.000	2.229

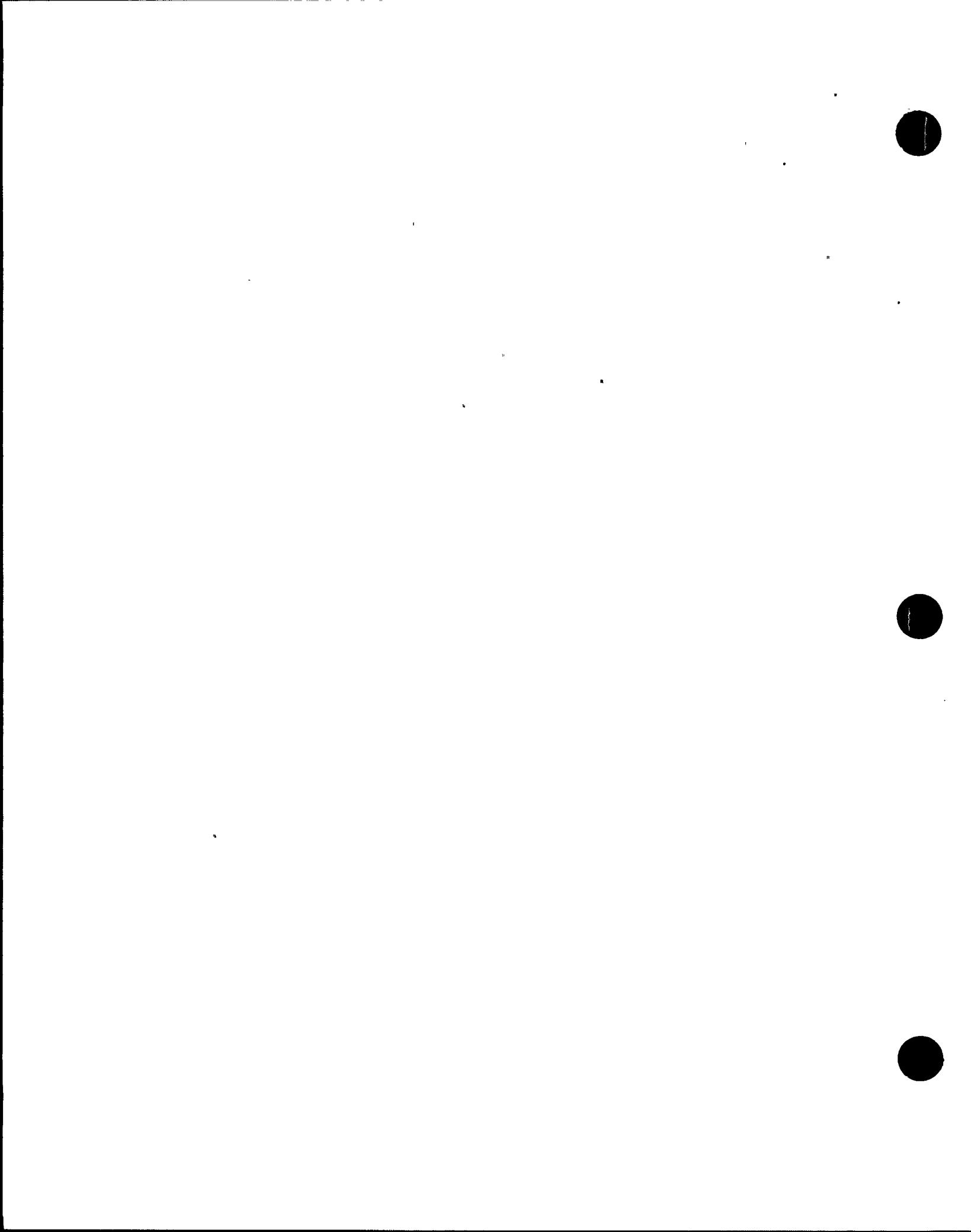


TABLE 7 (continued)

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	0.027	0.101	0.008	0.000	0.000	0.000	0.000	0.000	0.136
NNE	0.001	0.000	0.034	0.116	0.032	0.000	0.000	0.000	0.000	0.000	0.183
NE	0.000	0.000	0.013	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.026
ENE	0.000	0.000	0.010	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.014
E	0.000	0.000	0.020	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.036
ESE	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
SE	0.001	0.002	0.053	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.079
SSE	0.001	0.015	0.068	0.242	0.000	0.043	0.000	0.000	0.000	0.000	0.369
S	0.000	0.000	0.007	0.028	0.057	0.023	0.000	0.000	0.000	0.000	0.115
SSW	0.000	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	0.000
WSW	0.000	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	0.000
WNW	0.000	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	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016
NNW	0.000	0.000	0.006	0.014	0.008	0.000	0.000	0.000	0.000	0.000	0.028
TOTALS	0.003	0.017	0.264	0.543	0.119	0.066	0.000	0.000	0.000	1.012	

TABLE 7 (continued)

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
SPLIT-LEVEL JFD IN PERCENT
ELEVATED PORTION
FOURTH QUARTER 1987

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	0.000
NNE	0.000	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	0.000
ENE	0.000	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	0.000
ESE	0.000	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	0.000
SSE	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047
S	0.000	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	0.000
SW	0.000	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	0.000
W	0.000	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	0.000
NW	0.000	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	0.000
TOTALS	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047

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	0.000
NNE	0.000	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	0.000
ENE	0.000	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	0.000
ESE	0.000	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	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047
SSE	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047
S	0.000	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	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
SW	0.000	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	0.000
W	0.000	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	0.000
NW	0.000	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	0.000
TOTALS	0.000	0.000	0.047	0.094	0.000	0.000	0.000	0.000	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	0.000	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	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047
SSE	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
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	0.047	0.000	0.000	0.000	0.000	0.000	0.047
SW	0.000	0.000	0.000	0.000	0.045	0.042	0.000	0.000	0.000	0.087
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	0.041	0.000	0.000	0.000	0.041
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.029	0.000	0.000	0.029
NW	0.000	0.000	0.000	0.000	0.000	0.037	0.000	0.000	0.000	0.037
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	0.094	0.094	0.045	0.083	0.037	0.029	0.000	0.382

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	0.047	0.328	0.179	1.519	1.720	0.752	0.018	4.563
NNE	0.000	0.000	0.047	0.469	0.272	1.027	0.648	0.000	0.008	2.471
NE	0.000	0.000	0.187	0.281	0.634	0.700	0.193	0.000	0.000	1.995
ENE	0.000	0.047	0.187	0.234	0.230	0.209	0.039	0.000	0.000	0.946
E	0.000	0.000	0.094	0.281	0.091	0.164	0.000	0.000	0.000	0.630
ESE	0.000	0.047	0.515	0.469	0.631	0.403	0.271	0.000	0.000	2.336
SE	0.000	0.000	0.890	1.172	0.276	0.778	0.342	0.022	0.000	3.480
SSE	0.000	0.187	0.469	0.469	0.135	0.773	0.990	0.456	0.011	3.490
S	0.000	0.000	0.328	0.234	0.134	0.689	1.364	0.448	0.000	3.197
SSW	0.000	0.000	0.234	0.234	0.178	0.484	0.381	0.085	0.000	1.596
SW	0.000	0.000	0.094	0.187	0.309	0.209	0.303	0.100	0.000	1.202
WSW	0.000	0.000	0.047	0.234	0.181	0.785	0.307	0.116	0.010	1.680
W	0.000	0.000	0.141	0.094	0.273	1.304	0.421	0.127	0.001	2.361
WNW	0.000	0.000	0.094	0.375	0.409	1.432	0.912	0.224	0.029	3.475
NW	0.000	0.000	0.047	0.375	0.455	0.817	1.935	0.545	0.000	4.174
NNW	0.000	0.047	0.141	0.141	0.452	1.136	1.596	0.176	0.000	3.689
TOTALS	0.000	0.328	3.562	5.577	4.839	12.429	11.422	3.051	0.077	41.284

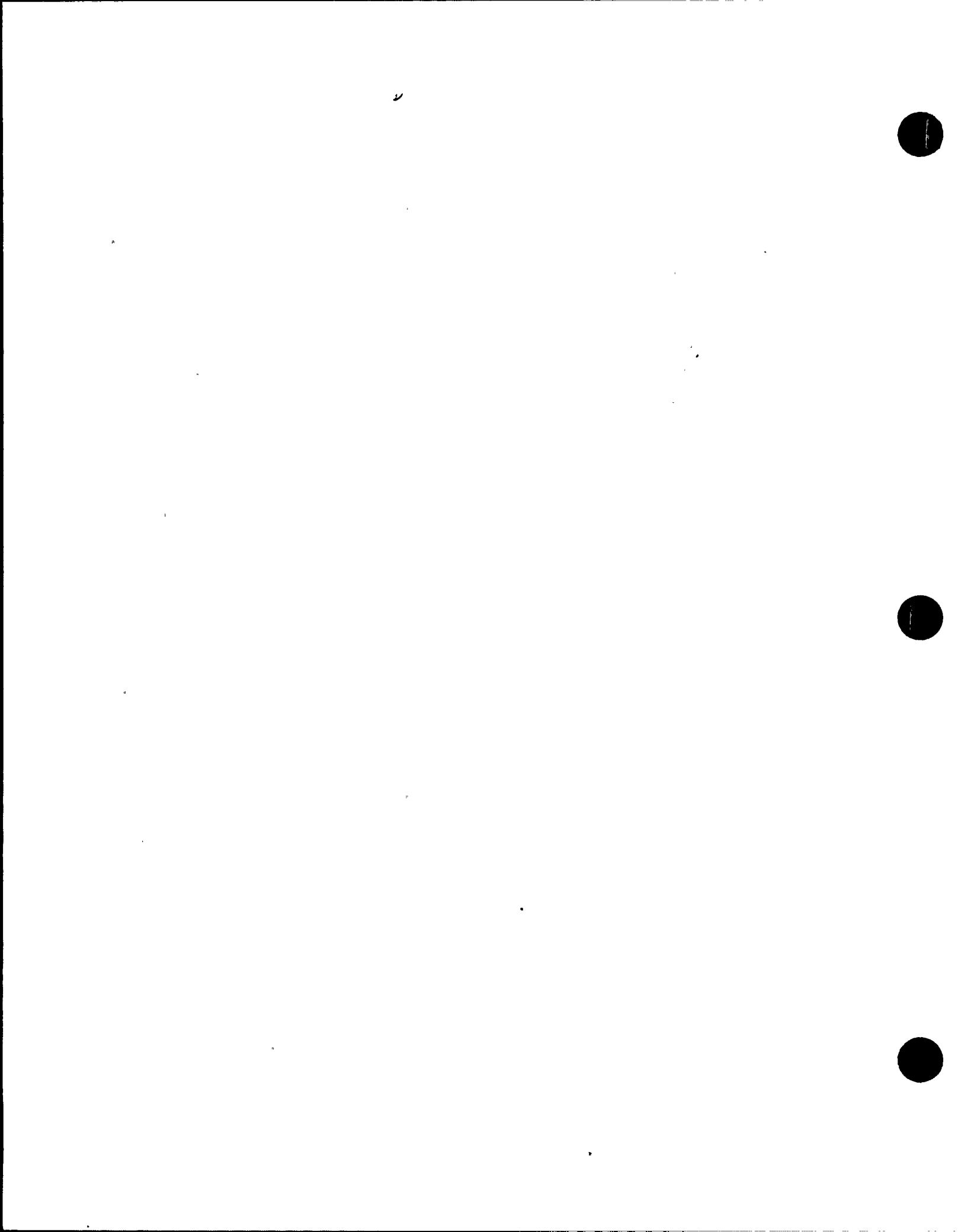


TABLE 7 (continued)

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	0.002	0.000	0.094	0.328	0.543	1.387	0.231	0.028	0.000	2.613	
NNE	0.002	0.000	0.094	0.141	0.632	0.404	0.039	0.067	0.000	1.379	
NE	0.002	0.000	0.094	0.328	0.229	0.657	0.039	0.000	0.000	1.349	
ENE	0.003	0.000	0.141	0.281	0.136	0.250	0.000	0.000	0.000	0.811	
E	0.009	0.094	0.328	0.187	0.487	0.370	0.039	0.000	0.000	1.514	
ESE	0.002	0.047	0.047	0.609	0.761	1.976	0.155	0.000	0.000	3.597	
SE	0.011	0.047	0.469	0.750	1.259	3.111	1.143	0.223	0.004	7.017	
SSE	0.004	0.000	0.187	0.375	0.639	1.348	0.907	0.292	0.013	3.765	
S	0.004	0.047	0.141	0.375	0.315	0.411	0.267	0.242	0.004	1.806	
SSW	0.000	0.000	0.000	0.141	0.178	0.083	0.310	0.000	0.000	0.712	
SW	0.001	0.000	0.047	0.000	0.000	0.082	0.038	0.000	0.000	0.168	
WSW	0.003	0.000	0.141	0.000	0.047	0.081	0.039	0.000	0.000	0.311	
W	0.001	0.000	0.047	0.094	0.135	0.420	0.230	0.000	0.000	0.927	
WNW	0.000	0.000	0.000	0.141	0.275	0.500	0.038	0.000	0.000	0.954	
NW	0.003	0.000	0.141	0.141	0.183	0.658	0.345	0.000	0.000	1.471	
NNW	0.001	0.000	0.047	0.141	0.411	1.111	0.232	0.000	0.000	1.943	
TOTALS	0.048	0.235	2.018	4.032	6.230	12.849	4.052	0.852	0.021	30.336	

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	0.000	0.094	0.045	0.940	0.156	0.000	0.000	1.235	
NNE	0.000	0.000	0.000	0.000	0.044	0.573	0.077	0.000	0.000	0.694	
NE	0.003	0.047	0.047	0.047	0.045	0.285	0.038	0.000	0.000	0.512	
ENE	0.000	0.000	0.000	0.000	0.045	0.285	0.077	0.000	0.000	0.407	
E	0.002	0.000	0.047	0.328	0.360	0.127	0.039	0.000	0.000	0.903	
ESE	0.011	0.000	0.328	0.562	0.544	0.336	0.000	0.000	0.000	1.781	
SE	0.006	0.000	0.187	0.890	0.455	0.212	0.000	0.000	0.000	1.750	
SSE	0.006	0.000	0.187	0.187	0.138	0.127	0.000	0.000	0.000	0.645	
S	0.005	0.000	0.141	0.234	0.181	0.166	0.000	0.000	0.000	0.727	
SSW	0.003	0.047	0.047	0.094	0.088	0.125	0.000	0.000	0.000	0.404	
SW	0.003	0.047	0.047	0.047	0.046	0.000	0.000	0.000	0.000	0.190	
WSW	0.003	0.000	0.094	0.047	0.000	0.042	0.000	0.000	0.000	0.186	
W	0.000	0.000	0.000	0.000	0.133	0.043	0.000	0.000	0.000	0.176	
WNW	0.003	0.000	0.094	0.000	0.045	0.041	0.000	0.000	0.000	0.183	
NW	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047	
NNW	0.003	0.000	0.094	0.094	0.090	0.079	0.000	0.000	0.000	0.360	
TOTALS	0.048	0.141	1.313	2.671	2.259	3.381	0.387	0.000	0.000	10.200	

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	0.094	0.000	0.000	0.081	0.000	0.000	0.000	0.000	0.175
NNE	0.000	0.000	0.000	0.000	0.045	0.040	0.077	0.000	0.000	0.000	0.162
NE	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.000	0.000	0.040
ENE	0.000	0.000	0.000	0.047	0.044	0.042	0.000	0.000	0.000	0.000	0.133
E	0.000	0.000	0.047	0.094	0.046	0.041	0.000	0.000	0.000	0.000	0.228
EE	0.000	0.000	0.469	1.031	0.325	0.127	0.000	0.000	0.000	0.000	1.952
ES	0.000	0.000	0.422	0.750	0.138	0.042	0.000	0.000	0.000	0.000	1.352
SSE	0.000	0.047	0.187	0.187	0.229	0.000	0.000	0.000	0.000	0.000	0.650
S	0.000	0.000	0.141	0.047	0.044	0.000	0.000	0.000	0.000	0.000	0.232
SSW	0.000	0.000	0.000	0.047	0.046	0.000	0.000	0.000	0.000	0.000	0.093
SW	0.000	0.000	0.047	0.047	0.045	0.000	0.000	0.000	0.000	0.000	0.139
WSW	0.000	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	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.047	0.000	0.047	0.047	0.128	0.000	0.000	0.000	0.000	0.269
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.000	0.094	1.454	2.297	1.009	0.541	0.077	0.000	0.000	5.472	

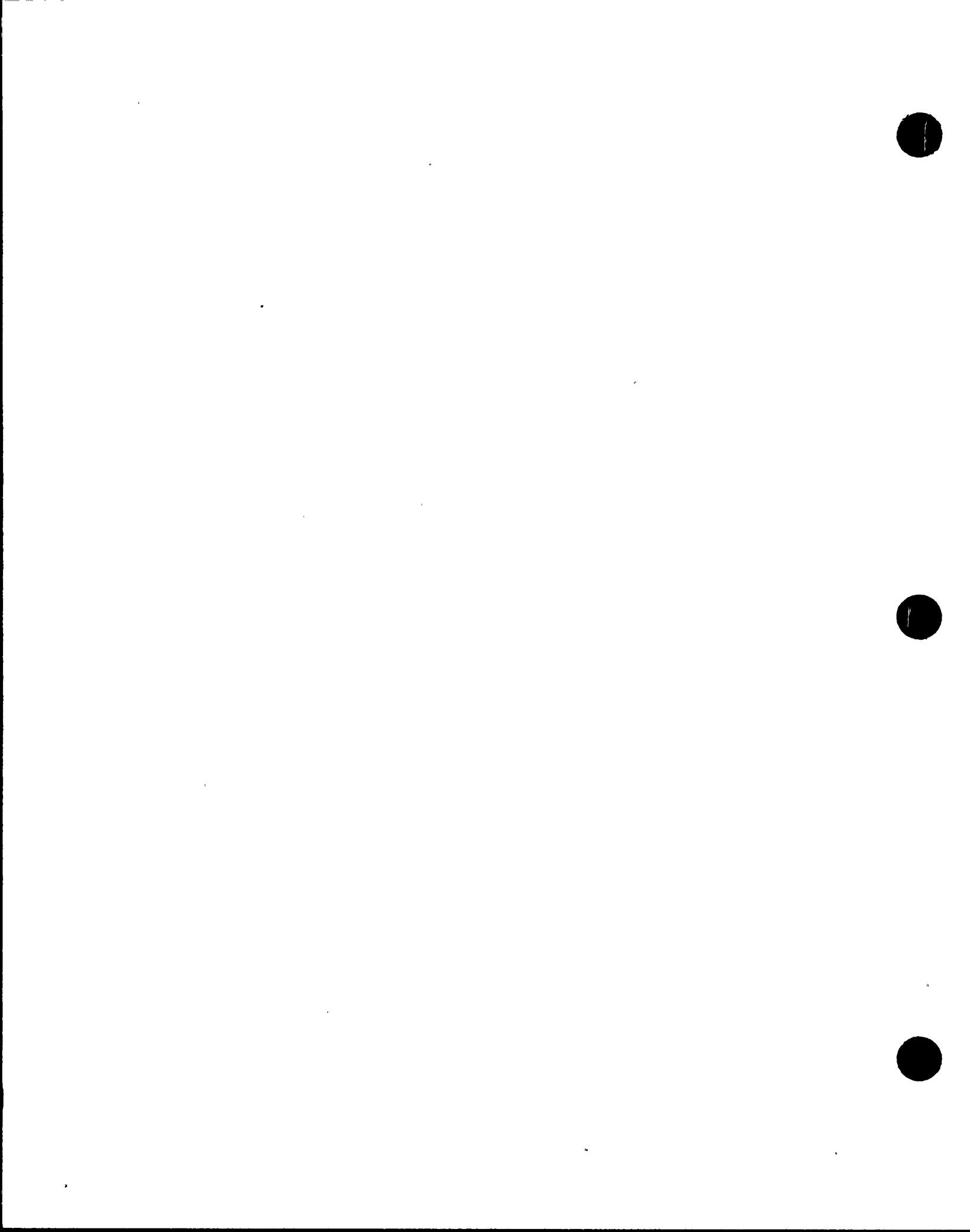


TABLE 8

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
ELEVATED JFD IN PERCENT
THIRD QUARTER 1987

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	0.008	0.048	0.190	0.476	0.618	2.758	1.950	0.333	0.000	6.381	
NNE	0.013	0.095	0.285	0.333	0.476	1.569	1.140	0.476	0.000	5.387	
NE	0.011	0.000	0.333	0.380	0.618	1.427	1.046	0.285	0.000	4.100	
ENE	0.005	0.000	0.143	0.238	0.476	1.374	0.571	0.000	0.048	2.860	
E	0.024	0.095	0.618	0.285	0.666	1.094	0.095	0.000	0.000	2.877	
ESE	0.028	0.048	0.808	1.046	0.808	1.712	1.310	0.428	0.000	7.208	
SE	0.043	0.190	1.094	2.378	1.950	3.376	3.376	0.360	0.000	12.786	
SSE	0.047	0.238	1.189	1.474	1.379	2.187	0.856	0.048	0.000	7.418	
S	0.024	0.048	0.666	1.427	0.999	3.233	1.522	0.285	0.000	8.204	
SSW	0.039	0.143	1.046	0.999	0.856	1.617	1.569	0.238	0.000	6.507	
SW	0.028	0.048	0.808	1.236	1.236	1.094	1.189	0.048	0.000	5.687	
WSW	0.021	0.000	0.618	1.664	1.236	1.759	0.571	0.000	0.000	5.869	
W	0.024	0.095	0.618	1.569	1.759	1.854	0.285	0.000	0.000	6.204	
WNW	0.014	0.000	0.428	0.951	1.236	2.425	0.476	0.000	0.000	5.530	
NW	0.033	0.238	0.761	1.331	1.569	2.853	1.046	0.048	0.000	7.879	
NNW	0.019	0.095	0.476	0.808	0.571	1.712	1.284	0.143	0.000	5.108	
TOTALS	0.381	1.381	10.080	16.594	16.452	32.047	20.305	2.712	0.048	100.000	

TABLE 9

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA
ELEVATED JFD IN PERCENT
FOURTH QUARTER 1987

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	0.007	0.138	0.092	0.184	0.415	1.890	4.749	1.936	0.461	9.872	
NNE	0.004	0.000	0.138	0.553	0.507	2.029	1.936	0.415	0.046	5.628	
NE	0.004	0.000	0.138	0.323	0.507	1.337	1.337	0.369	0.000	4.015	
ENE	0.005	0.000	0.184	0.461	0.231	1.199	0.369	0.184	0.000	2.633	
E	0.007	0.000	0.231	0.507	0.415	0.692	0.369	0.000	0.000	2.221	
ESE	0.014	0.000	0.461	0.692	1.060	2.213	1.475	0.922	0.046	6.883	
SE	0.023	0.138	0.645	1.107	1.660	3.781	3.504	2.674	1.614	15.146	
SSE	0.025	0.092	0.738	0.922	0.553	2.766	4.103	1.752	0.784	11.735	
S	0.016	0.000	0.553	0.415	0.738	2.075	2.259	1.660	0.138	7.854	
SSW	0.008	0.092	0.184	0.461	0.277	1.475	1.844	0.876	0.138	5.355	
SW	0.007	0.000	0.231	0.231	0.415	1.014	0.599	0.369	0.046	2.912	
WSW	0.007	0.000	0.231	0.461	0.046	0.784	0.692	0.231	0.369	2.821	
W	0.000	0.000	0.000	0.277	0.231	0.922	1.521	0.461	0.184	3.596	
WNW	0.004	0.000	0.138	0.231	0.507	2.121	1.568	0.784	0.369	5.722	
NW	0.004	0.046	0.092	0.184	0.507	1.153	2.536	1.982	0.231	6.735	
NNW	0.003	0.000	0.092	0.323	0.599	1.706	2.490	1.614	0.046	6.873	
TOTALS	0.138	0.506	4.148	7.332	8.668	27.157	31.351	16.229	4.472	100.001	

TABLE 10
BROWNS FERRY NUCLEAR PLANT - INDIVIDUAL DOSES FROM
GASEOUS EFFLUENTS
THIRD QUARTER 1987

<u>Effluent</u>	<u>Pathway</u>	<u>Guideline*</u>	<u>Point</u>	<u>Dose</u>
Noble gases	γ Air dose	30	Max. Exp. ¹	5.5×10^{-7} mrad
	β Air dose	60	Max. Exp. ¹	9.9×10^{-7} mrad
	Total body ²	15	Residence	0.0 mrem
	Skin ²	45	Residence	0.0 mrem
Iodines/				
Particulates	G.I. Tract (critical organ)	45	Real ³ Pathway	3.7×10^{-3} mrem

Breakdown of Iodine/Particulate Exposures (mrem)

	<u>Teen</u>	<u>Adult</u>
Vegetable ingestion	1.79×10^{-3}	1.65×10^{-3}
Beef ingestion ⁴	6.75×10^{-5}	1.25×10^{-4}
Inhalation	1.84×10^{-6}	1.91×10^{-5}
Ground contamination	1.88×10^{-3}	1.88×10^{-3}
Total	3.72×10^{-3}	3.62×10^{-3}

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

1. Maximum offsite exposure point is 2550 meters in the S sector.
2. Dose from air submersion.
3. Real receptor is located at 1620 meters in the NNW sector.
4. Beef ingestion dose is calculated at the site boundary at 1525 meters in the N sector.

(0300c)

TABLE 11

BROWNS FERRY NUCLEAR PLANT - INDIVIDUAL DOSES FROM
GASEOUS EFFLUENTS
FOURTH QUARTER 1987

<u>Effluent</u>	<u>Pathway</u>	<u>Guideline*</u>	<u>Point</u>	<u>Dose</u>
Noble gases	γ Air dose	30	Max. Exp. ¹	7.9×10^{-8} mrad
	β Air dose	60	Max. Exp. ²	1.1×10^{-6} mrad
	Total body ³	15	Residence ⁴	1.6×10^{-9} mrem
	Skin ³	45	Residence ⁴	1.4×10^{-7} mrem
Iodines/				
Particulates	Liver	45	Real	7.1×10^{-3} mrem
	(critical organ)		Pathway ⁴	

Breakdown of Iodine/Particulate Exposures (mrem)

	<u>Child</u>	<u>Adult</u>
Vegetable ingestion	5.9×10^{-3}	2.1×10^{-3}
Beef ingestion ⁵	1.8×10^{-4}	1.7×10^{-4}
Inhalation	1.0×10^{-5}	6.3×10^{-6}
Ground contamination	1.0×10^{-3}	1.0×10^{-3}
Total	7.1×10^{-3}	3.3×10^{-3}

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

1. Maximum offsite exposure point is at 1650 meters in the NNW sector.
2. Maximum offsite exposure point is at 6100 meters in the NW sector.
3. Dose from air submersion.
4. Receptor is located at 4425 meters in the WNW sector.
5. Receptor is located at 1650 meters in the NNW sector.
6. Beef ingestion exposure point is located at 1650 meters in the NNW sector.

TABLE 12
BROWNS FERRY NUCLEAR PLANT

BFN -- 3087 QUARTERLY ASSESSMENT
 BFN DATA
 SUMMATION OF POPULATION DOSES

	INFANT	CHILD	TEEN	ADULT	TOTALS		INFANT	CHILD	LUNG	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	0.00E+00
GROUND	0.45E-05	4.02E-04	2.56E-04	1.19E-03	1.91E-03		6.45E-05	4.02E-04	2.50E-04	1.19E-03	1.91E-03	
INHALATION	1.89E-06	3.18E-05	1.74E-05	8.27E-05	1.34E-04		1.69E-05	2.48E-04	1.30E-04	4.36E-04	8.31E-04	
COW MILK	7.86E-06	3.48E-05	1.43E-05	6.82E-05	1.25E-04		7.01E-06	2.88E-05	9.56E-06	4.39E-05	8.43E-05	
BEEF INGESTION	0.00E+00	1.59E-05	1.71E-05	1.38E-04	1.71E-04		0.00E+00	4.13E-06	2.19E-06	1.62E-05	2.25E-05	
VEG INGESTION	0.00E+00	1.18E-05	1.23E-05	9.39E-05	1.18E-04		0.00E+00	3.79E-06	2.03E-06	1.42E-05	2.00E-05	
TOTAL MAN-REH	7.43E-05	4.96E-04	3.17E-04	1.57E-03	2.46E-03		8.84E-05	6.87E-04	3.99E-04	1.70E-03	2.87E-03	

BFN -- 4087 QUARTERLY ASSESSMENT
 BFN DATA
 SUMMATION OF POPULATION DOSES

	INFANT	CHILD	TEEN	ADULT	TOTALS		INFANT	CHILD	BONE	TEEN	ADULT	TOTALS
SUBMERSION	2.62E-09	1.64E-08	1.04E-08	4.82E-08	7.76E-08		2.62E-09	1.64E-08	1.04E-08	4.82E-08	7.76E-08	
GROUND	4.20E-05	2.62E-04	1.66E-04	7.71E-04	1.24E-03		4.20E-05	2.62E-04	1.66E-04	7.71E-04	1.24E-03	
INHALATION	1.11E-06	1.55E-05	7.15E-06	2.85E-05	5.23E-05		5.87E-07	8.97E-06	2.85E-06	9.60E-06	2.20E-05	
COW MILK	8.29E-05	2.69E-04	8.26E-05	2.84E-04	7.19E-04		6.51E-05	2.54E-04	5.55E-05	1.84E-04	5.39E-04	
BEEF INGESTION	0.00E+00	8.14E-05	3.99E-05	2.20E-04	3.41E-04		0.00E+00	7.74E-05	2.71E-05	1.44E-04	2.49E-04	
VEG INGESTION	0.00E+00	4.88E-05	2.42E-05	1.27E-04	2.00E-04		0.00E+00	4.61E-05	1.63E-05	8.23E-05	1.45E-04	
TOTAL MAN-REH	1.26E-04	6.76E-04	3.20E-04	1.43E-03	2.55E-03		1.08E-04	6.48E-04	2.68E-04	1.19E-03	2.22E-03	



TABLE 13
BROWNS FERRY NUCLEAR PLANT

LIQUID EFFLUENT DOSES
BROWNS FERRY NUCLEAR PLANT ROUTINE RELEASES 3RD QUARTER-1987

	BONE xxxxx	GI TRACT xxxxxx	THYROID xxxxxx	TOTAL BODY xxxxx xxxx	LIVER xxxxx	SKIN xxxx
I. WATER INGESTION AT U.S. PLYWOOD-CHAMPION PAPER						
A. MAXIMUM INDIVIDUAL CHILD (HREH)	2.0E-03	6.5E-05	3.9E-04	3.9E-04	2.2E-03	3.9E-04
B. MAXIMUM INDIVIDUAL ADULT (HREH)	7.3E-04	1.1E-04	7.9E-04	7.9E-04	1.1E-03	7.9E-04
C. TENNESSEE RIVER POPULATION (HAN-REH)	1.5E-02	1.3E-03	9.3E-03	9.3E-03	2.0E-02	9.3E-03
II. FISH INGESTION FROM WHEELER LAKE BELOW BFN						
A. MAXIMUM INDIVIDUAL CHILD (HREH)	5.4E-02	4.2E-04	9.0E-03	9.0E-03	5.8E-02	9.6E-03
B. MAXIMUM INDIVIDUAL ADULT (HREH)	4.1E-02	1.5E-03	4.5E-02	4.5E-02	6.4E-02	4.5E-02
C. TENNESSEE RIVER POPULATION (HAN-REH)	5.5E+00	1.5E-01	4.3E+00	4.3E+00	7.7E+00	4.3E+00
III. RECREATION AT WHEELER LAKE BELOW BFN						
A. SHORELINE INDIVIDUAL (HREH) POPULATION (HAN-REH)	1.2E-02 2.8E-01	7.3E-05 2.2E-01	8.1E-03 1.9E-01	9.4E-03 2.3E-01	8.4E-03 2.0E-01	1.2E-02 2.8E-01
B. IN-WATER INDIVIDUAL (HREH) POPULATION (HAN-REH)	4.8E-05 1.1E-04	3.8E-05 9.0E-05	3.3E-05 7.9E-05	4.1E-05 9.6E-05	3.4E-05 8.1E-05	4.9E-05 1.2E-04
C. ABOVE-WATER INDIVIDUAL (HREH) POPULATION (HAN-REH)	4.7E-05 3.0E-04	3.8E-05 2.4E-04	3.3E-05 2.1E-04	4.0E-05 2.5E-04	3.4E-05 2.1E-04	4.8E-05 3.1E-04
IV. TOTAL						
A. MAXIMUM INDIVIDUAL CHILD (HREH)	6.8E-02	9.9E-03	1.8E-02	2.0E-02	6.9E-02	2.2E-02
B. MAXIMUM INDIVIDUAL ADULT (HREH)	5.3E-02	1.1E-02	5.5E-02	5.5E-02	7.3E-02	5.8E-02
C. TENNESSEE RIVER POPULATION (HAN-REH)	5.8E+00	3.7E-01	4.5E+00	4.5E+00	7.9E+00	4.6E+00

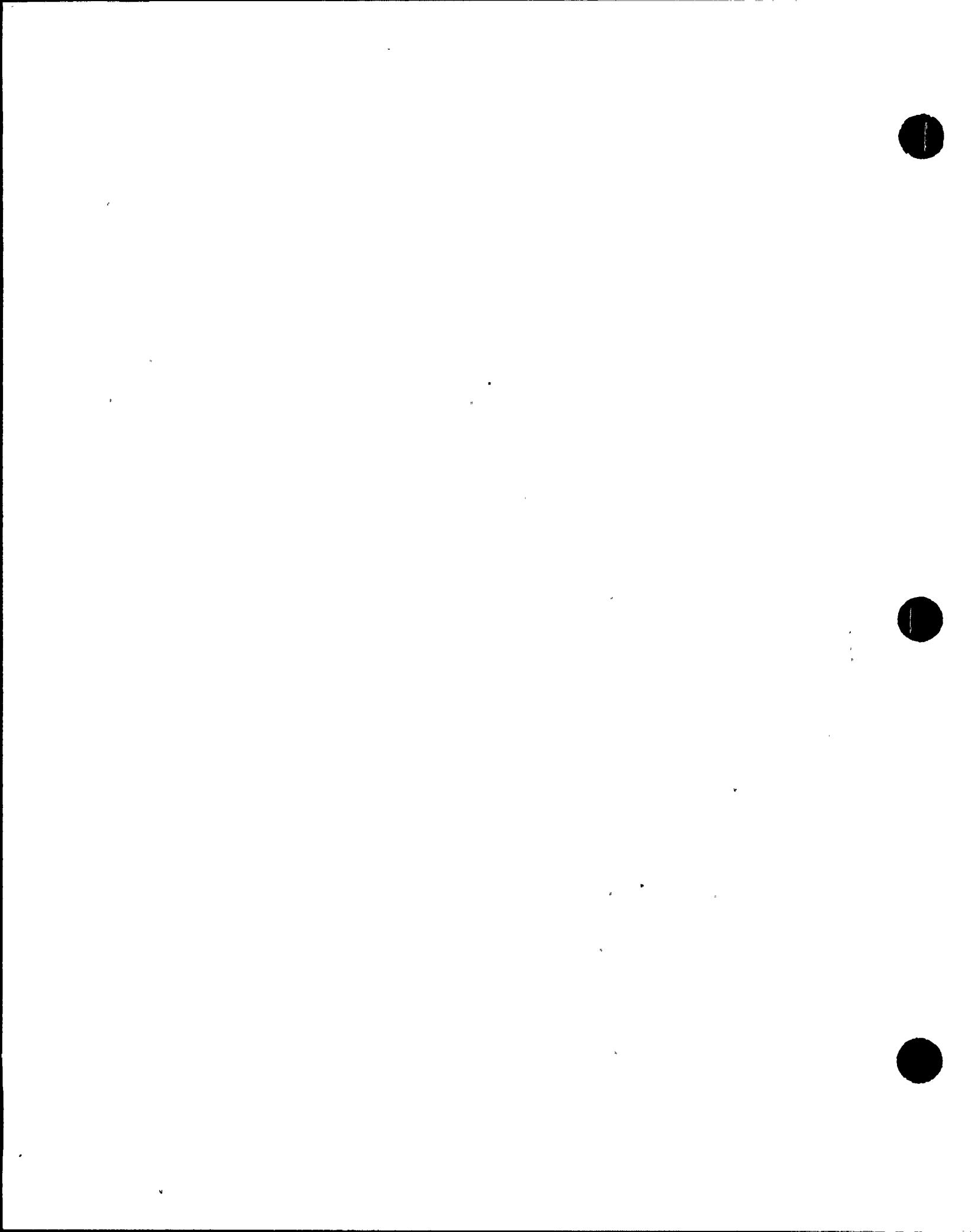


TABLE 14
BROWNS FERRY NUCLEAR PLANT

LIQUID EFFLUENT DOSES
BROWNS FERRY NUCLEAR PLANT ROUTINE RELEASES 4TH QUARTER-1987

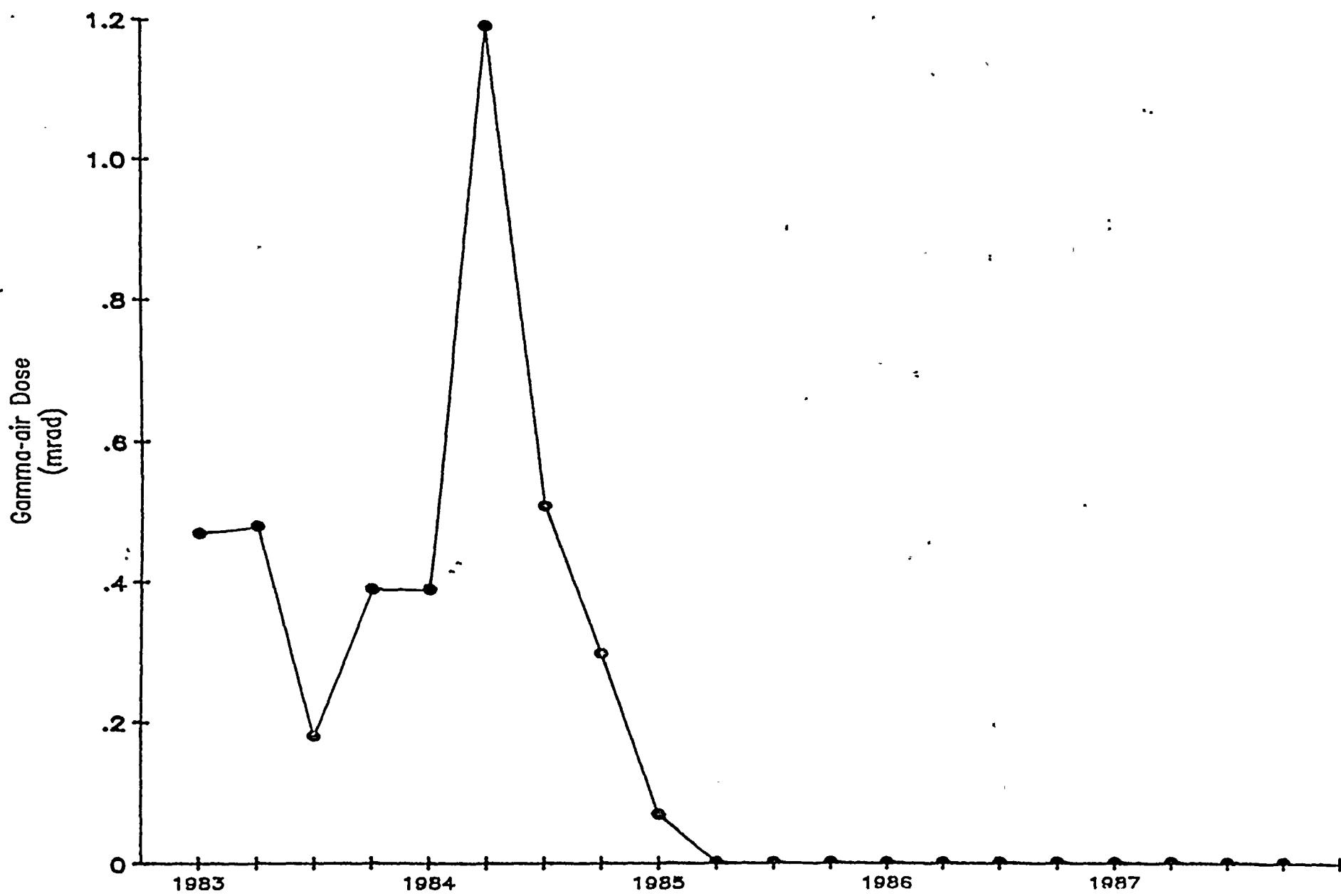
	BONE ****	GI TRACT *****	THYROID *****	TOTAL BODY *****	LIVER *****	SKIN ****
I. WATER INGESTION AT U.S. PLYWOOD-CHAMPION PAPER						
A. MAXIMUM INDIVIDUAL CHILD (HREM)	3.6E-03	8.5E-05	6.7E-04	6.7E-04	3.9E-03	6.7E-04
B. MAXIMUM INDIVIDUAL ADULT (HREM)	1.3E-03	1.5E-04	1.4E-03	1.4E-03	2.0E-03	1.4E-03
C. TENNESSEE RIVER POPULATION (MAN-REH)	2.4E-02	1.6E-03	1.4E-02	1.4E-02	3.0E-02	1.4E-02
II. FISH INGESTION FROM WHEELER LAKE BELOW BFN						
A. MAXIMUM INDIVIDUAL CHILD (HREM)	9.7E-02	7.7E-04	1.7E-02	1.7E-02	1.0E-01	1.7E-02
B. MAXIMUM INDIVIDUAL ADULT (HREM)	7.3E-02	2.8E-03	8.0E-02	8.0E-02	1.1E-01	8.0E-02
C. TENNESSEE RIVER POPULATION (MAN-REH)	9.3E+00	2.5E-01	7.2E+00	7.2E+00	1.3E+01	7.2E+00
III. RECREATION AT WHEELER LAKE BELOW BFN						
A. SHORELINE INDIVIDUAL (HREM) POPULATION (MAN-REH)	9.8E-03 2.1E-01	7.6E-03 1.6E-01	6.6E-03 1.4E-01	8.1E-03 1.7E-01	6.9E-03 1.5E-01	1.0E-02 2.1E-01
B. IN-WATER INDIVIDUAL (HREM) POPULATION (MAN-REH)	3.9E-05 8.3E-05	3.1E-05 6.6E-05	2.7E-05 5.7E-05	3.3E-05 7.0E-05	2.8E-05 5.9E-05	4.0E-05 8.5E-05
C. ABOVE-WATER INDIVIDUAL (HREM) POPULATION (MAN-REH)	3.8E-05 2.2E-04	3.0E-05 1.7E-04	2.6E-05 1.5E-04	3.2E-05 1.8E-04	2.7E-05 1.6E-04	3.9E-05 2.2E-04
IV. TOTAL						
A. MAXIMUM INDIVIDUAL CHILD (HREM)	1.1E-01	8.5E-03	2.4E-02	2.6E-02	1.2E-01	2.8E-02
B. MAXIMUM INDIVIDUAL ADULT (HREM)	8.4E-02	1.1E-02	8.8E-02	8.9E-02	1.2E-01	9.1E-02
C. TENNESSEE RIVER POPULATION (MAN-REH)	9.5E+00	4.2E-01	7.4E+00	7.4E+00	1.3E+01	7.4E+00

TABLE 15
BROWNS FERRY NUCLEAR PLANT
FIVE-YEAR SUMMARY OF QUARTERLY DOSES*

<u>Year</u>	<u>Quarter</u>	<u>Air-γ</u>	<u>Air-β</u>	<u>Air Submersion</u>		<u>Real Pathway</u>	<u>Liquid Effluents</u>	
		(mrad)	(mrad)	Skin (mrem)	TB (mrem)	Max. Organ (mrem)	TB (mrem)	Max. Organ (mrem)
1983	1	.47	.45	.24	.16	.25 Bone	.07	.09 Liver
	2	.48	.42	.32	.19	.31 Thyr.	.09	.11 Liver
	3	.18	.34	.16	.10	.30 Bone	.25	.33 Liver
	4	.39	.85	.24	.14	.04 Thyr.	.54	.73 Liver
1984	1	.39	.66	.47	.30	.41 Thyr.	.58	.79 Liver
	2	1.19	2.09	1.48	.98	.09 Thyr.	.11	.15 Liver
	3	.51	.98	.48	.31	.08 Thyr.	.10	.12 Liver
	4	.30	.58	.17	.10	.06 Thyr.	.31	.41 Liver
1985	1	.07	.12	.10	.06	.03 Thyr.	.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
1987	1	<.001	<.001	<.001	<.001	.0015 G.I. Tract	.02	.02 Liver
	2	<.001	<.001	<.001	<.001	.0024 G.I. Tract	.05	.07 Liver
	3	<.001	<.001	0.0	0.0	.0037 G.I. Tract	.06	.07 Liver
	4	<.001	<.001	<.001	<.001	.0071 Liver	.09	.12 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



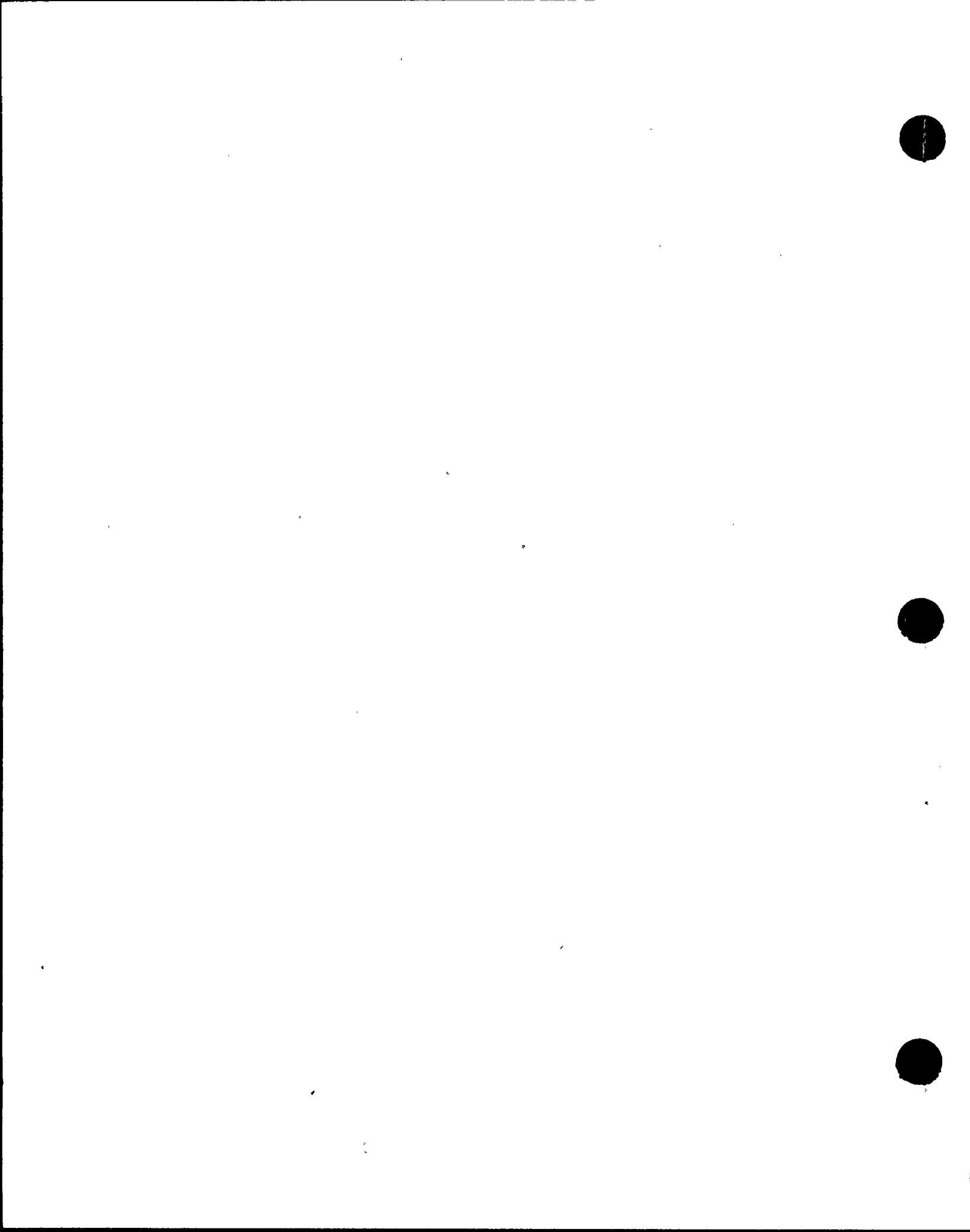


Figure 2
Browns Ferry Quarterly Gaseous Doses
Five-Year Summary of Beta-air Doses

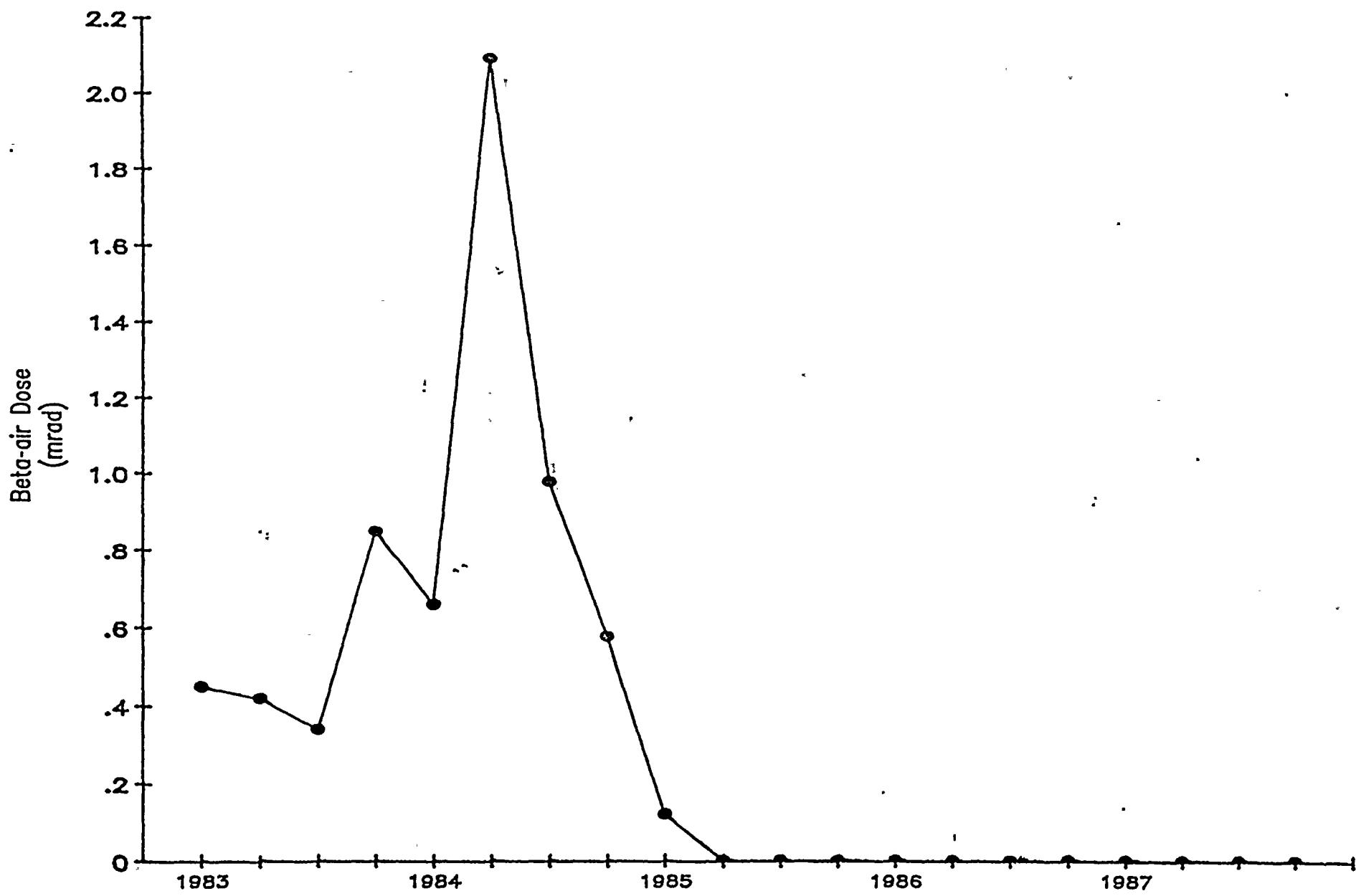


Figure 3
Browns Ferry Quarterly Gaseous Doses
Five-year Summary of Maximum Organ Doses

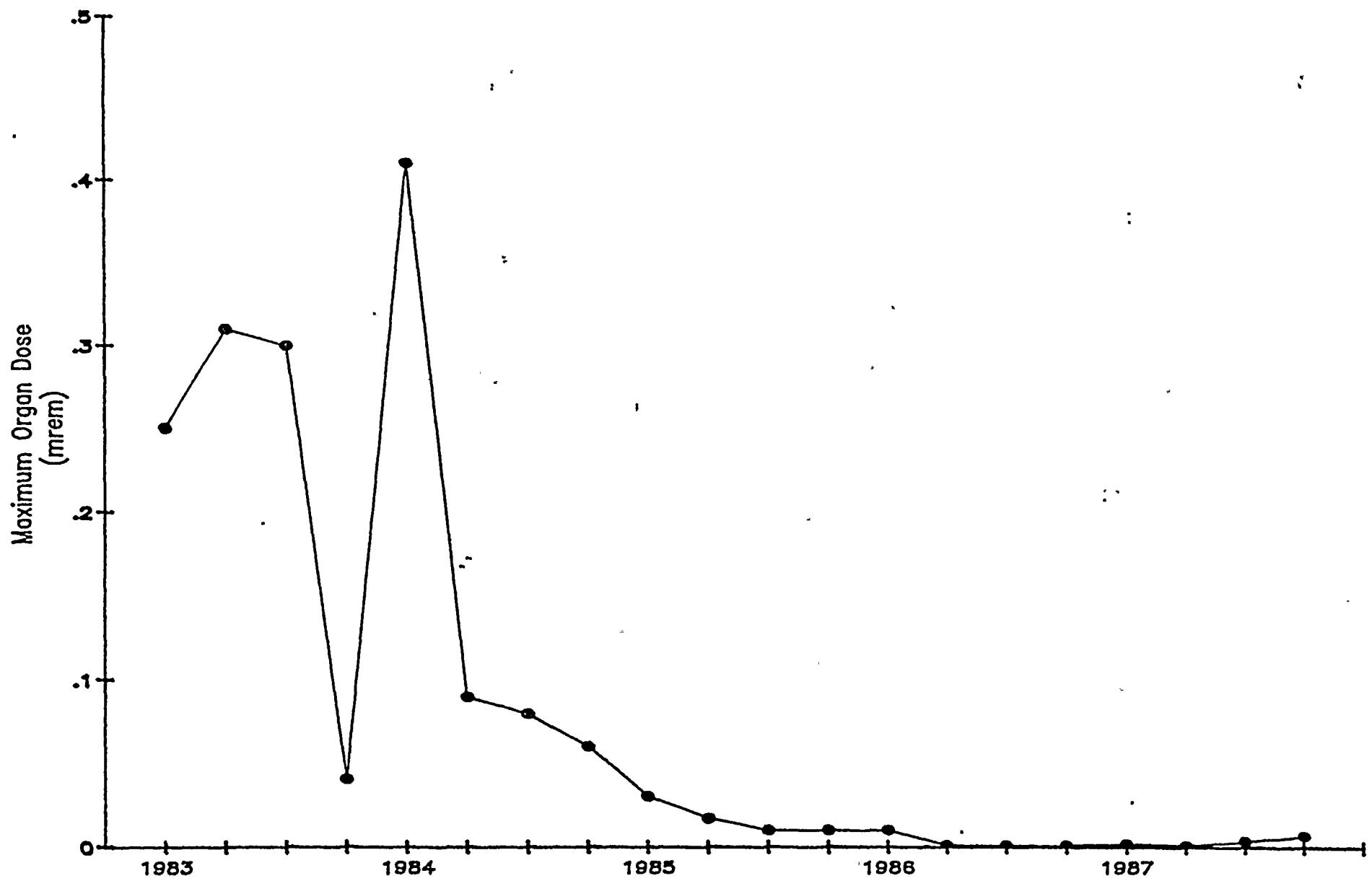


Figure 4
Browns Ferry Quarterly Liquid Doses
Five-Year Summary of Total Body Doses

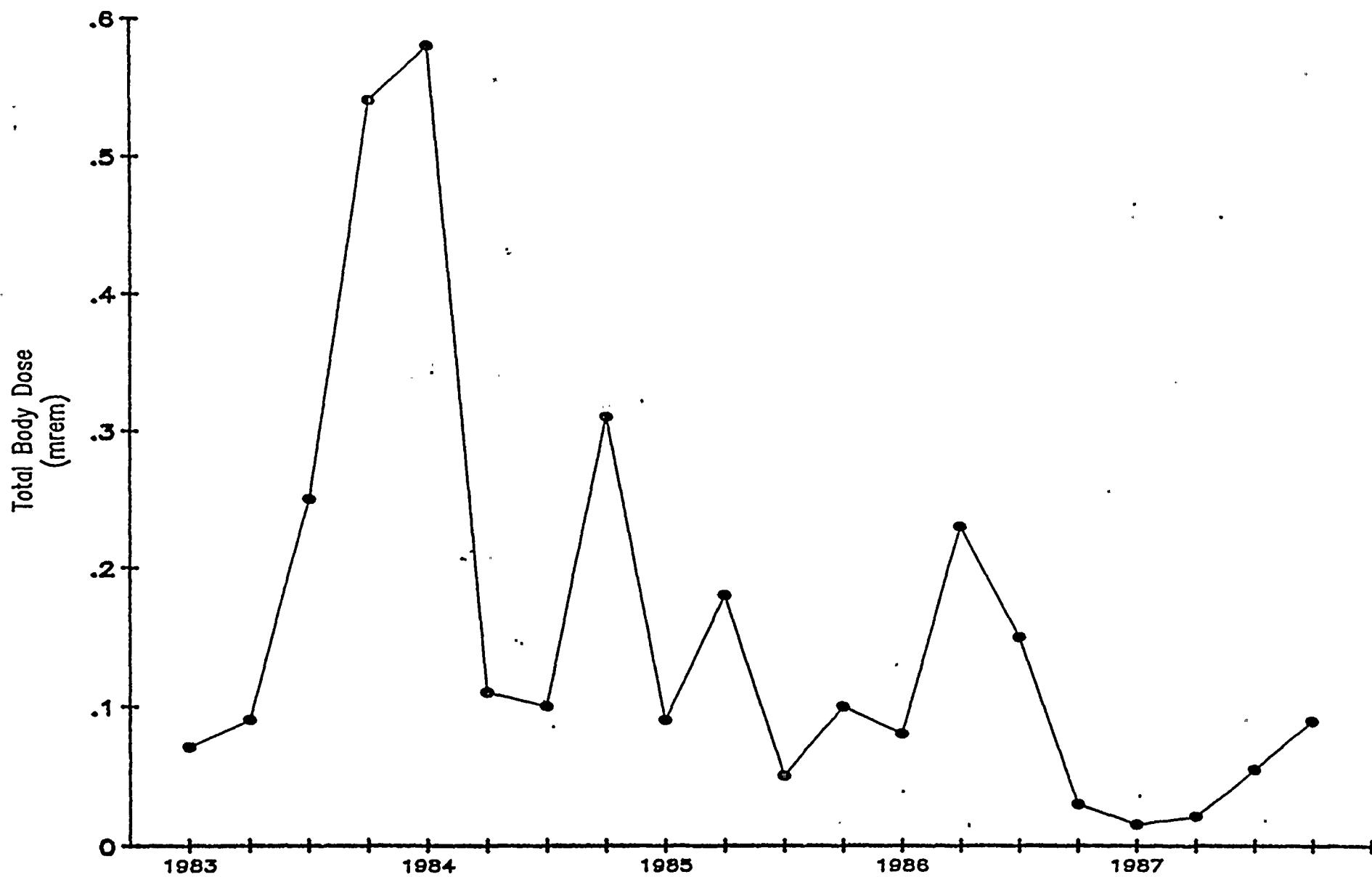


Figure 5
Browns Ferry Quarterly Liquid Doses
Five-Year Summary of Maximum Organ Doses

