

RADIOLOGICAL IMPACT ASSESSMENT

BROWNS FERRY NUCLEAR PLANT

JANUARY-JUNE, 1975

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Introduction

Potential doses to individuals and populations have been calculated for the time period January 1 through June 30, 1975. The calculations have been made using the measured releases listed in Tables 1 and 2 for radioactivity in both gaseous and liquid effluents. Dispersion in the environment has been calculated using meteorological data and river flow data measured during this period.

Meteorological Data

Meteorological data were measured, and average quarterly joint-frequency distributions (JFD's) appropriate for elevated releases and for ground-level releases were calculated. The ground-level JFD was derived from wind speeds and directions measured with a sensor located 33 feet above ground level and from the vertical temperature gradient between 33 and 150 feet. The elevated JFD was determined using a wind sensor located 300 feet above ground level and the vertical temperature gradient between 33 and 300 feet. Atmospheric stability was classified as indicated in Table 3.

The wind speeds were divided into nine ranges. For calculational purposes, calms were distributed in the lowest wind speed range (0-0.5 mph) according to the directional probabilities in the 0.6-1.4 mph range. The quarterly JFD's are listed in Tables 4 through 7.

Gaseous Effluents

Standard ground-level (building wake) and elevated-release dispersion models were used to estimate radioactivity concentrations in the environment. Radionuclides in gaseous effluents were assumed to be released continuously. Dose estimates for external exposure and inhalation were made for a hypothetical adult constantly standing unsheltered at the site boundary. Adult ingestion doses were calculated for radioiodines in milk and leafy vegetables produced at the site boundary. Potential child-thyroid ingestion doses were calculated for the most critical real-cow location. The child inhalation dose was calculated assuming constant exposure at the site boundary.

Population doses and average individual doses were calculated for an estimated 627,000 persons living within a 50-mile radius of the plant site. Population ingestion doses were calculated assuming that each individual drinks fresh milk and eats leafy vegetables produced near his residence. For comparison, a population thyroid dose estimate was calculated based on data for milk production within 50 miles of the plant site.

Dose estimates for the gaseous effluents are presented in Tables 8 and 9.

Liquid Effluents

Doses from liquid effluents were calculated using measured hydraulic data. The average river flows at the plant site were 108,000 cfs for the first quarter and 55,000 cfs for the second quarter. Radioactivity concentrations in the Tennessee River were calculated assuming that releases in liquid effluents were continuous.

Doses were calculated for recreation, eating 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 for 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 10 and 11.

Direct Radiation

Statistical analysis of thermoluminescent dosimetry (TLD) data accumulated during the first and second quarters at onsite and offsite locations has indicated no significant increase in dose rate levels attributable to direct radiation from plant equipment and to gaseous effluents. Large fluctuations in natural background dose rates and in TLD readings tend to mask any small increments due to plant operations.

A project has been initiated to relate reactor power level to direct radiation dose rates offsite using high-pressure ionization chamber measurements. However, because the plant has not operated since March 22, 1975, results of this work are not yet available for estimating dose rates during this reporting period.

Dose Summary

In the first quarter, the maximum site boundary doses were calculated to be 2.9 mrem to the skin and 0.99 mrem to the total body. A potential child's thyroid dose was calculated to be 2.2 mrem. Population doses were estimated to be 5.6 man-rem to the skin and 1.0 man-rem to the total body.

For the second quarter, calculations indicated that potential site boundary doses were 10 mrem to the skin and 5 mrem to the total body. Potential child thyroid doses were calculated to be 12.4 mrem. Potential skin and total body doses to the population were estimated to be 15 and 1.6 man-rem, respectively.

The majority of the doses were due to gaseous effluents released from the plant. The doses from liquid effluents and direct radiation were very small. The potential doses are well below the limits specified in the Browns Ferry Nuclear Plant technical specifications for plant operation.

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TABLE 1

BFNP GASEOUS EFFLUENT RELEASES

Radionuclide	Ground Level Releases		Elevated Releases	
	First Quarter, 1975 (Ci)	Second Quarter, 1975 (Ci)	First Quarter, 1975 (Ci)	Second Quarter, 1975 (Ci)
H-3	3.32E 00	2.15E-01	1.17E 00	6.90E-03
Sr-89	7.63E-05	3.23E-05	1.19E-06	1.34E-07
Sr-90	2.35E-06	6.66E-06	3.67E-08	2.19E-08
Kr-85	<1.07E 04	<1.84E 04	<8.65E 03	<3.33E 02
Kr-85m	<5.33E 01	<8.47E 01	1.58E 03	<2.57E 00
Kr-87	<7.44E 01	<2.51E 02	1.11E 03	<2.46E 01
Kr-88	<1.37E 02	<2.17E 02	2.15E 03	<8.18E 00
I-131	6.89E-02	<2.60E-02	9.15E-02	<6.93E-05
I-133	<6.70E-03	<7.87E-03	<3.90E-03	<4.37E-05
I-135	<1.04E-01	<1.16E-01	<5.86E-03	<5.07E-04
Xe-133	<1.08E 02	<1.70E 02	5.41E 03	6.41E 01
Xe-135	<2.11E 02	<8.38E 01	6.75E 03	<1.74E 00
Xe-135m	<3.26E 02	<3.49E 03	2.17E 03	<1.22E 00
Xe-138	<8.74E 02	<5.51E 03	1.11E 03	<7.69E 00
Cs-134	<1.97E-03	<1.03E-02	<3.27E-04	<3.74E-04
Cs-137	<2.57E-04	<1.54E-03	<1.29E-05	<2.52E-05
Ba-140	<2.28E-03	<1.01E-02	<9.83E-05	<1.79E-04
La-140	<2.28E-03	<1.01E-02	<9.83E-05	<1.79E-04

TABLE-2BFNP LIQUID EFFLUENTS RELEASES

<u>Nuclide</u>	<u>Activity (Ci)</u>	
	<u>First Quarter</u>	<u>Second Quarter</u>
H-3	4.2E-00	2.8E-00
Na-24	9.6E-04	1.4E-03
Cr-51	4.8E-02	2.6E-02
Mn-54	5.5E-03	2.9E-03
Mn-56	3.6E-04	5.1E-04
Fe-59	3.1E-03	4.3E-03
Co-58	7.2E-03	5.9E-03
Co-60	6.2E-03	4.0E-03
Zn-65	1.0E-02	1.4E-02
Sr-89	1.0E-04	2.5E-03
Sr-90	2.0E-03	5.5E-04
Zr-95	7.4E-03	2.1E-02
Nb-95	7.4E-03	2.1E-02
Mo-99	1.1E-03	2.2E-03
Tc-99m	1.1E-03	2.2E-03
I-131	2.5E-02	1.4E-02
I-133	2.1E-06	2.2E-03
Xe-133	9.0E-02	2.1E-02
Cs-134	4.3E-03	1.1E-02
Cs-136	1.6E-04	2.4E-02
Cs-137	1.0E-02	2.8E-02
Ba-140	1.3E-03	1.8E-03
La-140	1.3E-03	1.8E-03
Ce-141	<u>4.7E-04</u>	<u>4.1E-04</u>
Totals	4.5E-00	3.0E-00

TABLE 3

CLASSIFICATION OF ATMOSPHERIC STABILITY

<u>Stability Classification</u>	<u>Ground-Level Releases (building vents)</u>	
	<u>Pasquill Categories</u>	<u>Temperature Change with Height (°C/100m)</u>
Extremely unstable	A	<-1.9
Moderately unstable	B	-1.9 to -1.7
Slightly unstable	C	-1.7 to -1.5
Neutral	D	-1.5 to -0.5
Slightly stable	E	-0.5 to 1.5
Moderately stable	F	1.5 to 4.0
Extremely stable	G	>4.0

<u>Stability Classification</u>	<u>Elevated Releases (stack)</u>	
	<u>TVA Categories</u>	<u>Temperature Change with Height (°C/100m)</u>
Neutral 1	D1	<-1.0
Neutral 2	D2	-1.0 to -0.8
Neutral 3	D3	-0.8 to -0.5
Slightly stable 1	E1	-0.5 to 0.0
Slightly stable 2	E2	0.0 to 0.5
Stable	EF	0.5 to 4.0
Extremely stable	G	>4.0

TABLE 4

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BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA*

JOINT FREQUENCY DISTRIBUTION IN PERCENT

GROUND-LEVEL RELEASES - FIRST QUARTER, 1975

STABILITY CLASS A

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.0	0.090	0.140	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.050	0.090	0.190	0.0	0.0	0.0
NE	0.0	0.0	0.050	0.050	0.140	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.090	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.140	0.190	0.050	0.0	0.0	0.0
SE	0.0	0.0	0.050	0.710	0.470	0.190	0.0	0.0	0.0
SSE	0.0	0.0	0.050	0.810	0.090	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.190	0.140	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.090	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.090	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.050	0.050	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.050	0.470	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.090	0.280	0.0	0.0
TOTALS	0.0	0.0	0.150	2.131	1.211	0.901	0.800	0.050	0.0

STABILITY CLASS B:

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.050	0.330	0.570	0.090	0.0	0.0
NNE	0.0	0.0	0.0	0.140	0.050	0.050	0.050	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.090	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.090	0.050	0.050	0.0	0.0	0.0
E	0.0	0.0	0.0	0.050	0.140	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.090	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.090	0.570	0.050	0.190	0.0	0.0	0.0
SSE	0.0	0.0	0.050	0.0	0.0	0.050	0.0	0.0	0.0
S	0.0	0.0	0.050	0.140	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.050	0.050	0.050	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.050	0.090	0.430	0.050	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.190	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.050	0.050	0.330	0.280	0.140	0.0
NW	0.0	0.0	0.0	0.0	0.050	0.430	0.240	0.0	0.0
NNW	0.0	0.0	0.0	0.050	0.0	0.190	0.330	0.050	0.0
TOTALS	0.0	0.0	0.190	1.291	1.041	2.532	1.041	0.190	0.0

*Lost Record = 2.3 percent

Percent calm in each stability class appears as total under first wind speed.

TABLE 4 (Continued)

JOINT FREQUENCY DISTRIBUTIONS BY STABILITY CLASS (PERCENT)
 BROWNS FERRY JFD FIRST QTR, 1975 WS = 33 TEMP = 33/150

STABILITY CLASS C

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.0	0.0	0.330	0.140	0.0	0.0
NNE	0.0	0.0	0.0	0.050	0.0	0.050	0.050	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.090	0.050	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.190	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.140	0.240	0.090	0.050	0.0	0.0	0.0
SSE	0.0	0.0	0.050	0.090	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.090	0.090	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.050	0.090	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.050	0.240	0.240	0.0	0.0
WNW	0.0	0.0	0.0	0.090	0.140	0.380	0.140	0.140	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.190	0.090	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.090	0.570	0.240	0.0	0.0
TOTALS	0.0	0.0	0.280	0.941	0.470	1.951	0.901	0.140	0.0

STABILITY CLASS D

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.050	0.190	0.140	1.141	0.140	0.0	0.0
NNE	0.0	0.050	0.190	0.470	0.520	0.810	0.050	0.0	0.0
NE	0.0	0.0	0.380	0.280	0.190	0.280	0.0	0.0	0.0
ENE	0.0	0.050	0.520	0.330	0.090	0.140	0.0	0.0	0.0
E	0.0	0.0	0.140	0.140	0.190	0.090	0.0	0.0	0.0
ESE	0.0	0.0	0.330	0.760	0.240	0.660	0.0	0.0	0.0
SE	0.0	0.050	0.760	1.281	0.570	0.520	0.240	0.0	0.0
SSE	0.0	0.0	0.330	0.620	0.140	0.090	0.0	0.0	0.0
S	0.0	0.0	0.620	0.620	0.330	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.090	0.090	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.190	0.240	0.050	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.330	0.430	0.190	0.851	0.380	0.0	0.0
W	0.0	0.0	0.090	0.470	0.430	0.851	0.570	0.0	0.0
WNW	0.0	0.0	0.190	0.280	0.470	0.810	0.760	0.050	0.0
NW	0.0	0.0	0.050	0.380	0.430	2.131	0.570	0.050	0.0
NNW	0.0	0.050	0.280	0.380	0.380	1.231	0.760	0.0	0.0
TOTALS	0.0	0.200	4.453	6.964	4.453	9.606	3.472	0.100	0.0

TABLE 4 (Continued)

JOINT FREQUENCY DISTRIBUTIONS BY STABILITY CLASS (PERCENT)
 BROWNS FERRY JFD FIRST QTR, 1975 WS = 33 TEMP = 33/150

STABILITY CLASS E

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.520	0.380	0.851	0.470	0.090	0.0	0.0
NNE	0.0	0.0	0.660	0.851	0.430	0.140	0.0	0.0	0.0
NE	0.0	0.0	0.470	0.810	0.240	0.050	0.0	0.0	0.0
ENE	0.0	0.0	0.620	0.280	0.0	0.0	0.0	0.0	0.0
E	0.0	0.050	0.470	0.330	0.240	0.090	0.0	0.0	0.0
ESE	0.0	0.050	0.470	0.991	0.470	0.520	0.0	0.0	0.0
SE	0.0	0.140	1.611	1.141	1.371	1.521	0.0	0.0	0.0
SSE	0.0	0.050	0.760	0.710	0.380	0.280	0.0	0.0	0.0
S	0.0	0.0	0.810	1.091	1.471	0.140	0.0	0.0	0.0
SSW	0.0	0.090	0.090	0.190	0.240	0.030	0.0	0.0	0.0
SW	0.0	0.090	0.330	0.280	0.090	0.050	0.0	0.0	0.0
WSW	0.0	0.050	0.190	0.620	0.380	0.330	0.090	0.0	0.0
W	0.0	0.0	0.240	0.330	0.470	0.380	0.280	0.0	0.0
NNW	0.0	0.050	0.190	0.090	0.140	0.240	0.190	0.0	0.0
NW	0.0	0.0	0.280	0.050	0.090	0.430	0.0	0.0	0.0
NNW	0.0	0.0	0.280	0.380	0.620	0.991	0.050	0.0	0.0
TOTALS	0.0	0.570	7.995	8.525	7.484	5.723	0.700	0.0	0.0

STABILITY CLASS F

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.050	0.330	0.380	0.050	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.901	0.280	0.140	0.0	0.0	0.0	0.0
NE	0.0	0.140	0.470	0.140	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.140	0.190	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.280	0.380	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.570	0.190	0.140	0.0	0.0	0.0	0.0
SE	0.0	0.0	1.941	1.041	0.810	0.330	0.0	0.0	0.0
SSE	0.0	0.0	0.991	0.280	0.430	0.570	0.0	0.0	0.0
S	0.0	0.050	0.710	0.810	0.760	0.710	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.090	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.140	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.050	0.090	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.190	0.140	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.140	0.240	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.050	0.240	0.430	0.0	0.050	0.0	0.0	0.0
TOTALS	0.0	0.340	7.184	4.593	2.331	1.661	0.0	0.0	0.0

TABLE 4 (Continued)

JOINT-FREQUENCY DISTRIBUTIONS BY STABILITY CLASS (PERCENT)
 BROWNS FERRY JFD FIRST QTR, 1975 WS = 33 TEMP = 33/150

STABILITY CLASS G

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.380	0.050	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.430	0.090	0.050	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.190	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.190	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.280	0.190	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.520	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.951	0.280	0.190	0.090	0.0	0.0	0.0
SSE	0.0	0.050	0.851	0.430	0.140	0.050	0.0	0.0	0.0
S	0.0	0.050	0.710	0.470	0.330	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.090	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.090	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.050	0.050	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.090	0.050	0.0	0.0	0.0	0.0	0.0
TOTALS	0.0	0.200	4.823	1.561	0.710	0.140	0.0	0.0	0.0

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA*

JOINT FREQUENCY DISTRIBUTION IN PERCENT

GROUND-LEVEL RELEASES - SECOND QUARTER, 1975

STABILITY CLASS A

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.140	0.190	0.330	0.140	0.0	0.0
NNE	0.0	0.0	0.0	0.140	0.610	0.610	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.240	0.280	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.140	0.140	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.190	0.240	0.140	0.0	0.0	0.0
SE	0.0	0.0	0.190	1.789	0.380	0.140	0.0	0.0	0.0
SSE	0.0	0.0	0.090	0.939	0.090	0.0	0.0	0.0	0.0
S	0.0	0.0	0.190	0.380	0.140	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.050	0.140	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.190	0.050	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.090	0.140	0.050	0.0	0.0	0.0
W	0.0	0.0	0.0	0.140	0.140	0.090	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.240	0.330	0.050	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.420	0.520	0.090	0.0	0.0
NNW	0.0	0.0	0.0	0.050	0.0	0.050	0.190	0.0	0.0
TOTALS	0.0	0.0	0.520	4.617	3.058	2.259	0.470	0.0	0.0

STABILITY CLASS B

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.050	0.240	0.090	0.240	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.090	0.190	0.190	0.0	0.0	0.0
NE	0.0	0.0	0.050	0.190	0.050	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.190	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.050	0.050	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.090	0.0	0.050	0.050	0.0	0.0	0.0
SE	0.0	0.0	0.470	0.849	0.050	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.140	0.140	0.050	0.0	0.0	0.0	0.0
S	0.0	0.0	0.420	0.710	0.090	0.050	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.140	0.090	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.050	0.240	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.140	0.330	0.090	0.140	0.0	0.0	0.0
W	0.0	0.0	0.090	0.330	0.380	0.190	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.190	0.380	0.190	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.140	0.140	0.750	0.050	0.0	0.0
NNW	0.0	0.0	0.050	0.0	0.140	0.420	0.050	0.0	0.0
TOTALS	0.0	0.0	1.599	3.828	1.789	2.219	0.100	0.0	0.0

*Lost Record = 2.8 percent

Percent calm in each stability class appears as total under first wind speed.

TABLE 5 (Continued)

JOINT FREQUENCY DISTRIBUTIONS BY STABILITY CLASS (PERCENT)
BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL FACILITY*

STABILITY CLASS C

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.050	0.0	0.050	0.050	0.0	0.0
NNE	0.0	0.0	0.0	0.050	0.050	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.140	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.140	0.050	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.330	0.420	0.0	0.050	0.0	0.0	0.0
SSE	0.0	0.0	0.280	0.330	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.140	0.090	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.050	0.090	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.190	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.240	0.090	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.420	0.190	0.090	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.280	0.240	0.050	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.090	0.090	0.090	0.0	0.0	0.0
NNW	0.0	0.0	0.050	0.140	0.0	0.050	0.090	0.0	0.0
TOTALS	0.0	0.0	0.849	2.668	0.710	0.380	0.140	0.0	0.0

STABILITY CLASS D

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.190	0.470	0.710	0.470	0.0	0.0	0.0
NNE	0.0	0.0	0.240	0.420	0.140	0.090	0.0	0.0	0.0
NE	0.0	0.0	0.420	0.240	0.050	0.0	0.0	0.0	0.0
ENE	0.0	0.050	0.140	0.190	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.190	0.330	0.050	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.330	0.939	0.570	0.090	0.0	0.0	0.0
SE	0.0	0.0	1.789	2.069	0.800	0.240	0.0	0.0	0.0
SSE	0.0	0.0	1.079	0.570	0.280	0.0	0.0	0.0	0.0
S	0.0	0.0	1.129	0.800	0.470	0.050	0.0	0.0	0.0
SSW	0.0	0.0	0.420	0.240	0.280	0.050	0.0	0.0	0.0
SW	0.0	0.0	0.570	0.050	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.710	0.470	0.140	0.240	0.0	0.0	0.0
W	0.0	0.0	0.280	1.369	0.800	0.240	0.0	0.0	0.0
WNW	0.0	0.0	0.240	0.520	0.470	0.470	0.0	0.190	0.050
NW	0.0	0.0	0.050	0.280	0.470	0.520	0.0	0.050	0.050
NNW	0.0	0.0	0.050	0.380	0.240	0.470	0.280	0.050	0.0
TOTALS	0.0	0.050	7.825	9.334	5.467	2.928	0.280	0.290	0.100

TABLE 5 (Continued)

JOINT FREQUENCY DISTRIBUTIONS BY STABILITY CLASS (PERCENT)
BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL FACILITY*

STABILITY CLASS E

WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)

	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
SECTOR									
N	0.0	0.050	1.039	0.470	0.240	0.240	0.0	0.0	0.0
NNE	0.0	0.090	0.849	0.520	0.140	0.050	0.050	0.0	0.0
NE	0.0	0.050	0.570	0.420	0.050	0.0	0.0	0.0	0.0
ENE	0.0	0.090	0.520	0.090	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.570	0.330	0.050	0.0	0.0	0.0	0.0
ESE	0.0	0.0	1.129	1.039	0.610	0.050	0.0	0.0	0.0
SE	0.0	0.240	2.538	1.129	0.330	0.140	0.0	0.0	0.0
SSE	0.0	0.050	0.989	0.470	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	1.129	0.899	0.520	0.330	0.0	0.0	0.0
SSW	0.0	0.0	0.800	0.330	0.330	0.240	0.050	0.0	0.0
SW	0.0	0.090	0.939	0.090	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.570	0.240	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.899	0.899	0.140	0.090	0.0	0.0	0.0
WNW	0.0	0.0	0.280	0.330	0.050	0.090	0.050	0.0	0.0
NW	0.0	0.0	0.140	0.090	0.090	0.0	0.0	0.0	0.0
NNW	0.0	0.090	0.570	0.420	0.520	0.330	0.0	0.0	0.0
TOTALS	0.0	0.750	13.532	7.765	3.068	1.559	0.150	0.0	0.0

STABILITY CLASS F

WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)

	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
SECTOR									
N	0.0	0.140	0.380	0.090	0.050	0.0	0.0	0.0	0.0
NNE	0.0	0.330	1.459	0.750	0.140	0.0	0.0	0.0	0.0
NE	0.0	0.140	0.520	0.420	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.240	0.610	0.050	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.710	0.190	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.140	0.520	0.090	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.280	0.989	0.050	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.140	0.520	0.140	0.0	0.0	0.0	0.0	0.0
S	0.0	0.050	0.570	0.190	0.0	0.190	0.0	0.0	0.0
SSW	0.0	0.0	0.280	0.050	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.190	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.050	0.140	0.0	0.0	0.050	0.0	0.0	0.0
W	0.0	0.090	0.240	0.090	0.050	0.0	0.0	0.0	0.0
WNW	0.0	0.050	0.090	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.090	0.190	0.090	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.090	0.520	0.190	0.280	0.0	0.0	0.0	0.0
TOTALS	0.0	1.829	7.925	2.389	0.520	0.240	0.0	0.0	0.0

TABLE 5 (Continued)

JOINT FREQUENCY DISTRIBUTIONS BY STABILITY CLASS (PERCENT)
 BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL FACILITY*

STABILITY CLASS G

WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)

0.13 0.45 1.10 1.99 2.88 4.45 6.91 9.59 13.00
 0.0-0.5 0.6-1.4 1.5-3.4 3.5-5.4 5.5-7.4 7.5-12.4 12.5-18 19-24 GT 24

SECTOR	0.0-0.5	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18	19-24	GT 24
N	0.0	0.330	0.800	0.050	0.050	0.0	0.0	0.0	0.0
NNE	0.0	0.330	1.789	0.280	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.240	0.280	0.090	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.190	0.280	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.050	0.470	0.140	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.140	0.190	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.090	0.470	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.090	0.280	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.090	0.140	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.140	0.050	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.050	0.090	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.090	0.050	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.090	0.050	0.0	0.0	0.050	0.0	0.0	0.0
NW	0.0	0.090	0.050	0.050	0.050	0.0	0.0	0.0	0.0
NNW	0.0	0.240	0.520	0.090	0.090	0.050	0.0	0.0	0.0
TOTALS	0.0	2.299	5.507	0.700	0.190	0.100	0.0	0.0	0.0

TABLE 16*

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA*

JOINT FREQUENCY DISTRIBUTION IN PERCENT

ELEVATED RELEASES - FIRST QUARTER, 1975

STABILITY CLASS D1

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.140	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.050	0.050	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS	0.0	0.0	0.0	0.0	0.0	0.100	0.190	0.0	0.0

STABILITY CLASS D2

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.050	0.0	0.090	0.090	0.050	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.140	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.090	0.0
TOTALS	0.0	0.0	0.050	0.0	0.230	0.190	0.100	0.140	0.0

*Lost Record = 1.4 percent

Percent calm in each stability class appears as total under first wind speed.

TABLE 6 (Continued)

JOINT FREQUENCY DISTRIBUTIONS BY STABILITY CLASS (PERCENT)
 BROWNS FERRY JFD FIRST QUARTER, 1975 WS= 300 TEMP = 33/300

STABILITY CLASS D3

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.140	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.140	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.140	0.050	0.0	0.0
SE	0.0	0.0	0.0	0.050	0.140	0.280	0.090	0.0	0.050
SSE	0.0	0.0	0.0	0.050	0.190	0.090	0.050	0.0	0.0
S	0.0	0.0	0.0	0.0	0.050	0.0	0.050	0.050	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.090	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.050	0.050
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.230	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.090	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.050	0.050
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.050	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.050	0.050	0.090	0.0
TOTALS	0.0	0.0	0.0	0.100	0.380	0.889	0.709	0.430	0.150

STABILITY CLASS E1

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.0	0.190	0.609	1.548	1.029	0.050
NNE	0.0	0.0	0.0	0.090	0.190	0.559	1.079	0.380	0.050
NE	0.0	0.0	0.0	0.140	0.140	0.559	0.609	0.140	0.0
ENE	0.0	0.0	0.090	0.050	0.140	0.519	0.190	0.090	0.0
E	0.0	0.0	0.090	0.230	0.330	0.380	0.140	0.090	0.0
ESE	0.0	0.0	0.050	0.090	0.280	0.330	0.190	0.420	0.140
SE	0.0	0.0	0.090	0.190	0.470	0.470	0.380	0.090	0.659
SSE	0.0	0.0	0.090	0.090	0.280	0.889	0.799	0.470	0.470
S	0.0	0.0	0.050	0.140	0.090	0.230	0.380	0.280	0.0
SSW	0.0	0.0	0.050	0.230	0.140	0.380	0.230	0.050	0.0
SW	0.0	0.050	0.0	0.190	0.190	0.280	0.559	0.230	0.050
WSW	0.0	0.0	0.140	0.190	0.190	0.140	0.609	0.749	0.470
W	0.0	0.0	0.0	0.090	0.380	0.420	0.559	0.659	0.849
WNW	0.0	0.0	0.050	0.140	0.280	0.380	0.659	0.659	0.190
NW	0.0	0.0	0.050	0.090	0.380	1.359	1.778	0.849	0.090
NNW	0.0	0.050	0.0	0.140	0.090	0.799	2.348	1.269	0.380
TOTALS	0.0	0.100	0.749	2.088	3.756	8.302	12.058	7.453	3.397

TABLE 6 (Continued)

JOINT FREQUENCY DISTRIBUTIONS BY STABILITY CLASS (PERCENT)
 BROWNS FERRY JFD - FIRST QUARTER, 1975 WS= 300 TEMP = 33/300

STABILITY CLASS E2

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.090	0.050	0.0	0.939	0.939	0.0	0.0
NNE	0.0	0.0	0.050	0.050	0.190	0.230	1.129	0.050	0.0
NE	0.0	0.0	0.050	0.050	0.190	0.799	1.269	0.190	0.0
ENE	0.0	0.0	0.0	0.050	0.190	0.799	0.380	0.090	0.0
E	0.0	0.0	0.090	0.050	0.140	0.420	0.280	0.090	0.0
ESE	0.0	0.0	0.0	0.0	0.090	0.659	1.079	0.050	0.0
SE	0.0	0.0	0.050	0.050	0.140	0.699	1.309	1.638	1.459
SSE	0.0	0.0	0.090	0.140	0.190	0.799	1.459	1.219	1.409
S	0.0	0.0	0.050	0.090	0.230	1.029	0.749	0.559	0.849
SSW	0.0	0.0	0.0	0.140	0.330	1.029	1.459	1.688	0.749
SW	0.0	0.0	0.050	0.050	0.230	0.559	0.939	0.699	0.330
WSW	0.0	0.0	0.050	0.140	0.380	0.420	0.559	0.330	0.230
W	0.0	0.0	0.0	0.090	0.090	0.420	0.749	0.470	0.330
WNW	0.0	0.0	0.090	0.050	0.140	0.330	0.470	0.190	0.090
NW	0.0	0.0	0.050	0.050	0.140	0.609	0.659	0.050	0.0
NNW	0.0	0.0	0.0	0.190	0.090	0.559	0.889	0.280	0.0
TOTALS	0.0	0.0	0.709	1.239	2.757	10.300	14.316	7.592	5.445

STABILITY CLASS EF

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.050	0.0	0.0	0.050	0.190	0.0	0.0
NNE	0.0	0.0	0.090	0.0	0.050	0.140	0.090	0.0	0.050
NE	0.0	0.0	0.050	0.0	0.090	0.090	0.230	0.050	0.050
ENE	0.0	0.050	0.0	0.050	0.0	0.190	0.190	0.0	0.0
E	0.0	0.0	0.090	0.050	0.050	0.050	0.140	0.050	0.0
ESE	0.0	0.0	0.050	0.0	0.0	0.330	0.230	0.050	0.0
SE	0.0	0.0	0.050	0.050	0.090	0.420	0.330	0.330	0.140
SSE	0.0	0.0	0.0	0.190	0.230	0.330	0.609	0.609	0.559
S	0.0	0.0	0.050	0.0	0.190	0.420	0.799	0.230	0.559
SSW	0.0	0.0	0.0	0.050	0.190	0.659	1.269	0.380	0.140
SW	0.0	0.0	0.0	0.050	0.050	0.0	0.230	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.050	0.190	0.050	0.0	0.0
W	0.0	0.0	0.0	0.050	0.090	0.090	0.090	0.0	0.0
WNW	0.0	0.0	0.0	0.050	0.0	0.0	0.050	0.0	0.0
NW	0.0	0.0	0.0	0.090	0.090	0.230	0.090	0.0	0.0
NNW	0.0	0.0	0.050	0.090	0.0	0.140	0.140	0.0	0.0
TOTALS	0.0	0.050	0.480	0.719	1.169	3.327	4.725	1.698	1.499

TABLE 6 (Continued)

JOINT FREQUENCY DISTRIBUTIONS BY STABILITY CLASS (PERCENT)
 BROWNS FERRY JFD FIRST QUARTER, 1975 WS= 300 TEMP = 33/300

STABILITY CLASS G

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.0	0.050	0.090	0.050	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0
NE	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.050	0.050	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.050	0.0	0.090	0.050	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
S	0.0	0.0	0.050	0.0	0.090	0.190	0.330	0.190	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.050	0.190	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.090	0.090	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.050	0.090	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.090	0.0	0.0	0.0
NNW	0.0	0.050	0.0	0.090	0.0	0.050	0.0	0.0	0.0
TOTALS	0.0	0.050	0.100	0.140	0.240	0.849	0.799	0.240	0.0

TABLE 7

BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL DATA*

JOINT FREQUENCY DISTRIBUTION IN PERCENT

ELEVATED RELEASES - SECOND QUARTER, 1975

STABILITY CLASS D1

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.050	0.140	0.050	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS	0.0	0.0	0.0	0.0	0.050	0.290	0.050	0.0	0.0

STABILITY CLASS D2

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.190	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.240	0.140	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.050	0.050	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.140	0.190	0.090	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.090	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.050	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS	0.0	0.0	0.0	0.0	0.140	0.770	0.470	0.050	0.0

*Lost Record = 3.2 percent

Percent calm in each stability class appears as total under first wind speed.

TABLE 7 (Continued)

JOINT FREQUENCY DISTRIBUTIONS BY STABILITY CLASS (PERCENT)
BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL FACILITY*

STABILITY CLASS D3

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.0	0.0	0.050	0.190	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.240	0.140	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.050	0.380	0.140	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.280	0.050	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.050	0.050	0.0	0.050	0.0
SE	0.0	0.0	0.0	0.0	0.090	0.190	0.140	0.140	0.0
SSE	0.0	0.0	0.0	0.050	0.090	0.0	0.0	0.050	0.0
S	0.0	0.0	0.0	0.0	0.0	0.050	0.050	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.090	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.050	0.190	0.090	0.0
WSW	0.0	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.050	0.050	0.050	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.140	0.050	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.090	0.330	0.190	0.050	0.0
NNW	0.0	0.0	0.0	0.0	0.050	0.0	0.190	0.050	0.0
TOTALS	0.0	0.0	0.0	0.100	0.470	1.900	1.380	0.430	0.0

STABILITY CLASS E1

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.090	0.330	1.140	0.710	0.0	0.0
NNE	0.0	0.0	0.090	0.050	0.380	0.760	0.330	0.0	0.0
NE	0.0	0.050	0.050	0.0	0.090	0.660	0.050	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.190	0.610	0.090	0.0	0.0
E	0.0	0.0	0.140	0.140	0.240	0.280	0.0	0.0	0.0
ESE	0.0	0.0	0.090	0.090	0.190	0.520	0.380	0.050	0.0
SE	0.0	0.0	0.330	0.990	0.990	1.610	0.800	0.520	0.050
SSE	0.0	0.0	0.380	0.280	0.280	0.950	0.760	0.050	0.0
S	0.0	0.0	0.330	0.470	0.330	1.320	1.140	0.380	0.140
SSW	0.0	0.0	0.190	0.470	0.140	0.760	1.040	0.470	0.050
SW	0.0	0.0	0.050	0.190	0.190	0.710	1.280	0.330	0.0
WSW	0.0	0.0	0.140	0.570	0.330	0.610	0.470	0.190	0.050
W	0.0	0.0	0.090	0.520	0.380	1.040	0.990	0.090	0.050
WNW	0.0	0.0	0.090	0.140	0.430	1.230	0.280	0.050	0.190
NW	0.0	0.0	0.090	0.190	0.900	2.030	0.710	0.140	0.240
NNW	0.0	0.0	0.050	0.380	0.470	0.610	0.800	0.190	0.140
TOTALS	0.0	0.050	2.110	4.569	5.859	14.837	9.828	2.460	0.910

TABLE 7 (Continued)

JOINT FREQUENCY DISTRIBUTIONS BY STABILITY CLASS (PERCENT)
BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL FACILITY*

STABILITY CLASS E2

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.050	0.140	0.610	0.850	0.0	0.0
NNE	0.0	0.0	0.050	0.050	0.050	0.800	1.140	0.050	0.050
NE	0.0	0.0	0.090	0.090	0.090	1.180	0.710	0.190	0.0
ENE	0.0	0.0	0.050	0.090	0.140	0.380	0.520	0.140	0.0
E	0.0	0.0	0.050	0.140	0.280	0.330	0.140	0.0	0.0
ESE	0.0	0.0	0.140	0.090	0.090	0.380	0.760	0.050	0.050
SE	0.0	0.0	0.050	0.140	0.240	1.230	1.320	0.140	0.0
SSE	0.0	0.0	0.140	0.430	0.140	1.660	0.520	0.050	0.0
S	0.0	0.0	0.0	0.520	0.660	1.750	1.470	0.470	0.240
SSW	0.0	0.0	0.050	0.280	0.190	1.320	1.140	1.090	0.520
SW	0.0	0.0	0.090	0.090	0.240	0.660	1.090	0.280	0.050
WSW	0.0	0.0	0.140	0.140	0.140	0.990	0.280	0.050	0.050
W	0.0	0.0	0.090	0.190	0.090	0.710	0.190	0.050	0.050
WNW	0.0	0.050	0.090	0.050	0.520	0.380	0.050	0.0	0.0
NW	0.0	0.050	0.140	0.050	0.190	0.570	0.050	0.0	0.0
NNW	0.0	0.0	0.090	0.050	0.330	0.330	0.610	0.0	0.0
TOTALS	0.0	0.100	1.260	2.450	3.529	13.277	10.838	2.559	1.010

STABILITY CLASS EF

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.050	0.090	0.090	0.090	0.050	0.050	0.0
NNE	0.0	0.0	0.0	0.0	0.090	0.330	0.280	0.050	0.0
NE	0.0	0.0	0.050	0.140	0.050	0.380	0.990	0.380	0.0
ENE	0.0	0.0	0.0	0.0	0.140	0.520	0.520	0.050	0.0
E	0.0	0.0	0.050	0.090	0.050	0.430	0.240	0.0	0.0
ESE	0.0	0.050	0.050	0.190	0.0	0.050	0.380	0.090	0.0
SE	0.0	0.090	0.090	0.050	0.190	0.380	0.430	0.0	0.0
SSE	0.0	0.0	0.140	0.0	0.090	0.430	0.140	0.0	0.0
S	0.0	0.0	0.0	0.050	0.050	0.330	0.470	0.090	0.0
SSW	0.0	0.0	0.190	0.0	0.050	0.430	0.990	0.050	0.0
SW	0.0	0.0	0.050	0.140	0.050	0.430	0.710	0.090	0.0
WSW	0.0	0.0	0.090	0.240	0.140	0.470	0.050	0.0	0.0
W	0.0	0.0	0.090	0.090	0.190	0.190	0.0	0.050	0.0
WNW	0.0	0.050	0.0	0.090	0.240	0.090	0.240	0.0	0.0
NW	0.0	0.0	0.050	0.090	0.140	0.050	0.140	0.0	0.0
NNW	0.0	0.0	0.050	0.050	0.190	0.140	0.050	0.090	0.0
TOTALS	0.0	0.190	0.950	1.310	1.750	4.739	5.679	0.990	0.0

TABLE 7 (Continued)

JOINT FREQUENCY DISTRIBUTIONS BY STABILITY CLASS (PERCENT)
 BROWNS FERRY NUCLEAR PLANT METEOROLOGICAL FACILITY*

STABILITY CLASS G

SECTOR	WIND SPEED (METERS/SEC) AND RANGE (MILES/HR)								
	0.13 0.0-0.5	0.45 0.6-1.4	1.10 1.5-3.4	1.99 3.5-5.4	2.88 5.5-7.4	4.45 7.5-12.4	6.91 12.5-18	9.59 19-24	13.00 GT 24
N	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.050	0.090	0.240	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.090	0.380	0.050	0.0
ENE	0.0	0.0	0.0	0.050	0.0	0.090	0.140	0.050	0.0
E	0.0	0.0	0.0	0.0	0.0	0.050	0.050	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.050	0.090	0.0	0.0	0.0
SE	0.0	0.0	0.050	0.0	0.0	0.050	0.0	0.0	0.0
SSE	0.0	0.050	0.0	0.0	0.0	0.050	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.050	0.050	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.140	0.190	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.050	0.050	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
W	0.0	0.050	0.0	0.050	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.050	0.0	0.050	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.050	0.050	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
TOTALS	0.0	0.100	0.050	0.100	0.250	0.950	1.100	0.100	0.0

TABLE 8

BFNP GASEOUS EFFLUENT DOSES - FIRST QUARTER 1975*

<u>Adult^a</u>	<u>Total Body (mrem)</u>	<u>Skin (mrem)</u>	<u>Thyroid (mrem)</u>	<u>Lung (mrem)</u>	<u>GIT (mrem)</u>	<u>Bone (mrem)</u>
Submersion	9.60E-01	2.84E 00	9.60E-01	9.60E-01	9.60E-01	9.60E-01
Inhalation	8.14E-03	8.14E-03	7.58E-02	3.87E-02	8.14E-03	1.36E-03
Ingestion	5.25E-03	5.25E-03	2.98E 00	5.25E-03	2.44E-03	6.04E-03
Ground	1.13E-02	1.31E-02	1.13E-02	1.13E-02	1.13E-02	1.13E-02
Total	9.85E-01	2.87E 00	4.03E 00	1.02E 00	9.82E-01	9.79E-01
<u>Child</u>						
Inhalation ^a			8.67E-02			
Ingestion ^b			2.15E 00			
Total			2.24E 00			
<u>Population</u>	<u>Total Body (man-rem)</u>	<u>Skin (man-rem)</u>	<u>Thyroid^c (man-rem)</u>	<u>Lung (man-rem)</u>	<u>GIT (man-rem)</u>	<u>Bone (man-rem)</u>
Submersion	9.68E-01	5.60E 00	9.68E-01	9.68E-01	9.68E-01	9.68E-01
Inhalation	1.15E-02	1.15E-02	1.09E-01	8.69E-02	1.15E-02	1.67E-03
Ingestion	7.92E-03	7.92E-03	4.51E 00	7.92E-03	3.37E-03	9.12E-03
Ground	1.23E-02	1.43E-02	1.23E-02	1.23E-02	1.23E-02	1.23E-02
Total	1.00E 00	5.63E 00	5.60E 00	1.08E 00	9.95E-01	9.91E-01
Average Individual (mrem)	1.60E-03	8.98E-03	8.94E-03	1.72E-03	1.59E-03	1.58E-03

a. Site boundary, N sector, 1460 m.

b. Real cow location, N sector, 6218 m.

c. Population thyroid dose = 5.29 man-rem based on milk production data.

* Calculations based on effluent monitoring data and the NRC building-wake dispersion model.

TABLE 9

BFNP GASEOUS EFFLUENT DOSES - SECOND QUARTER 1975*

<u>Adult^a</u>	<u>Total Body (mrem)</u>	<u>Skin (mrem)</u>	<u>Thyroid (mrem)</u>	<u>Lung (mrem)</u>	<u>GIT (mrem)</u>	<u>Bone (mrem)</u>
Submersion	3.27E 00	6.70E 00	3.27E 00	3.27E 00	3.27E 00	3.27E 00
Inhalation	2.87E-02	2.87E-02	5.31E-02	7.82E-02	2.87E-02	4.55E-03
Ingestion	1.54E-03	1.54E-03	8.69E-01	1.54E-03	9.85E-04	1.77E-03
Ground	4.57E-02	5.25E-02	4.57E-02	4.57E-02	4.57E-02	4.57E-02
Total	3.35E 00	6.78E 00	4.24E 00	3.40E 00	3.35E 00	3.32E 00
<u>Child</u>						
Inhalation ^a			5.69E-02			
Ingestion ^b			2.30E 00			
Total			2.36E 00			
<u>Population^c</u>	<u>Total Body (man-rem)</u>	<u>Skin (man-rem)</u>	<u>Thyroid (man-rem)</u>	<u>Lung (man-rem)</u>	<u>GIT (man-rem)</u>	<u>Bone (man-rem)</u>
Submersion	1.02E 00	1.03E 01	1.02E 00	1.02E 00	1.02E 00	1.02E 00
Inhalation	2.03E-02	2.03E-02	1.30E-01	1.87E-01	2.03E-02	5.27E-03
Ingestion	8.07E-03	8.07E-03	4.58E 00	8.07E-03	4.04E-03	9.30E-03
Ground	6.41E-02	7.46E-02	6.41E-02	6.41E-02	6.41E-02	6.41E-02
Total	1.11E 00	1.04E 01	5.79E 00	1.28E 00	1.11E 00	1.10E 00
Average						
Individual (mrem)	1.77E-03	1.66E-02	9.23E-03	2.04E-03	1.77E-03	1.75E-03

a. Site boundary, N sector, 1460 m.

b. Real cow location, SSW sector, 4720 m.

c. Population thyroid dose = 4.68 man-rem based on milk production data.

* Calculations based on effluent monitoring data and the NRC building-wake dispersion model.

TABLE 10

LIQUID EFFLUENT DOSES - FIRST QUARTER 1975

	<u>Bone</u>	<u>G.I. Tract</u>	<u>Thyroid</u>	<u>Total Body</u>	<u>Skin</u>
I. Water Ingestion					
A. Maximum Individual Dose Champion Paper Company	<2.9E-04	<7.9E-05	<6.0E-04	<6.2E-05	<6.2E-05 mrem
B. Total Population Dose Tennessee River	<1.3E-02	<2.7E-03	<1.6E-02	<2.8E-03	<2.8E-03 man-rem
II. Fish Consumption					
A. Maximum Individual Dose Wheeler Lake below Browns Ferry	<1.1E-03	<3.7E-03	<1.9E-03	<1.1E-03	<1.1E-03 mrem
B. Total Population Dose Tennessee River	<1.1E-01	<3.5E-01	<1.6E-01	<1.0E-01	<1.0E-01 man-rem
	<u>In-Water</u>		<u>Above-Water</u>		<u>Shoreline</u>
	<u>Total Body</u>	<u>Skin</u>	<u>Total Body</u>	<u>Skin</u>	<u>Total Body</u> <u>Skin</u>
III. Recreation					
A. Maximum Individual Dose Wheeler Lake below Browns Ferry	<1.8E-06	<3.2E-06	<1.8E-06	<3.1E-06	<2.3E-04 <2.7E-04 mrem
B. Total Population Dose Tennessee River	<2.5E-06	<4.5E-06	<6.5E-06	<1.2E-05	<1.1E-03 <1.3E-03 man-rem
	<u>Bone</u>	<u>G.I. Tract</u>	<u>Thyroid</u>	<u>Total Body</u>	<u>Skin</u>
IV. Total Tennessee River Population Dose	<1.2E-01	<3.5E-01	<1.8E-01	<1.0E-01	<1.0E-01 man-rem

TABLE 11

LIQUID EFFLUENT DOSES - SECOND QUARTER 1975

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	<u>Bone</u>	<u>G.I. Tract</u>	<u>Thyroid</u>	<u>Total Body</u>	<u>Skin</u>
I. Water Ingestion					
A. Maximum Individual Dose Champion Paper Company	<2.3E-04	<1.7E-04	<6.5E-04	<1.1E-04	<1.1E-04 mrem
B. Total Population Dose Tennessee River	<1.1E-02	<6.5E-3	<1.3E-02	<5.2E-03	<5.2E-03 man-rem.
II. Fish Consumption					
A. Maximum Individual Dose Wheeler Lake Below Browns Ferry	<4.7E-03	<2.0E-02	<6.5E-03	<5.6E-03	<5.6E-03 mrem
B. Total Population Dose Tennessee River	<4.2E-01	<1.7	<5.4E-01	<4.9E-01	<4.9E-01 man-rem
	<u>In-Water</u>		<u>Above-Water</u>		<u>Shoreline</u>
	<u>Total Body</u>	<u>Skin</u>	<u>Total Body</u>	<u>Skin</u>	<u>Total Body</u> <u>Skin</u>
III. Recreation					
A. Maximum Individual Dose Wheeler Lake below Browns Ferry	<7.7E-06	<1.7E-05	<7.5E-06	<1.7E-05	<1.7E-03 <2.0E-03 mrem
B. Total Population Dose Tennessee River	<2.7E-05	<5.8E-05	<6.9E-05	<1.5E-04	<1.8E-02 <2.1E-02 man-rem
	<u>Bone</u>	<u>G.I. Tract</u>	<u>Thyroid</u>	<u>Total Body</u>	<u>Skin</u>
IV. Total Tennessee River Population Dose	<4.5E-01	<1.7	<5.7E-01	<5.1E-01	<5.2E-01 man-rem