

RADIOACTIVE EFFLUENT RELEASE REPORT

FOR THE

NORTH ANNA POWER STATION

JULY 1, 1978 - DEC. 31, 1978

Prepared by

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FORWARD

THIS REPORT IS SUBMITTED AS REQUIRED BY APPENDIX B TO
OPERATING LICENSE, ENVIRONMENTAL TECHNICAL SPECIFICATIONS
FOR NORTH ANNA POWER STATION UNITS 1 AND 2, VIRGINIA
ELECTRIC AND POWER COMPANY DOCKET NOS. 50-338, 50-339
SECTION 5.6.1.2

1. PURPOSE AND SCOPE

This report documents the release of radioactivity from the site for the previous semi-annual period along with the dilution and dispersion of the liquid and gaseous radioactive effluents within the environs of the site and the assessment of radiation doses to individuals and populations from the effluents.

The report includes summaries of the quantities of radioactive liquid and gaseous effluents and solid waste released from the station as outlined in Regulatory Guide 1.21. "Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants". Also included are summaries of the meteorological conditions concurrent with the release of gaseous effluents as outlined in Regulatory Guide 1.21, and summaries of calculated doses for individuals and populations from liquid and gaseous effluents following Reg. Guides 1.21 and 1.109 through 1.113. The site specific environmental parameters used for calculating dose from the effluents are included for reference. These environmental parameters are redetermined each year at the beginning of the growing/grazing season.

The radioactive liquid and gaseous effluent data, meteorological data, and dose calculations are summarized on a quarterly basis for all liquid and continuous gaseous releases. Intermittent gaseous releases are summarized separately along with the concurrent meteorological data and calculations of radiation doses to individuals.

2. DATA COLLECTION AND ANALYSIS

2.1 EFFLUENT RELEASES

The radioactive effluents released to the environment from the station during the report period were sampled and analyzed for radioactivity in accordance with the Environmental Technical Specifications, Specifications 2.2.2 and 2.2.4.

Summaries of the quantities of radioactive materials in liquid and gaseous effluents released to the environment are included in Appendix A to this report as Tables 1A, 1C, 2A, and 2B. The reported quantities of radioactive materials are measured levels. The Minimal Detectable Activity levels for individual nuclides for liquid and gaseous effluents is included in Appendix A as Table 5.

2.2 METEOROLOGICAL MEASUREMENTS

Site meteorological conditions were measured during the report period and recorded as hourly average of wind speed, wind direction and differential temperature between the 150 foot and 35 foot level temperature sensors at the station meteorological tower.

Summaries of the meteorological conditions for the report period are included in Appendix A, Table 4, as joint frequency distributions of wind speed and direction by stability class. Table 4 is duplicated for continuous and intermittent releases.

2.3 OFFSITE EXPOSURE ESTIMATES

Estimates of offsite exposures resulting from the release of radioactive effluents to unrestricted areas during the report period were calculated following Reg. Guides 1.21 and 1.109 through 1.113. The result of these estimates is included as Appendix B. to this report.

2.3.1

MAXIMUM INDIVIDUAL EXPOSURES

Estimates of maximum individual offsite exposures were calculated using the critical receptor survey results to determine appropriate pathways. Maximum individual usage values and pathway parameters were taken from Reg. Guide 1.109, Tables E-5 and E-15.

2.3.1.1 LIQUID EFFLUENT RELEASE EXPOSURE

Estimates of maximum individual offsite exposures were calculated for potable water, aquatic foods (sport fish), shoreline recreation, and contaminated foods.

No public drinking water supplies are drawn from North Anna Reservoir, however, the Hanover County, Doswell Treatment Plant withdraws downstream from the reservoir. This is the point of exposure for this pathway. A transit time of 5 days, including distribution, was estimated for this calculation. The pathway for contaminated foods is the access to the Waste Heat Treatment Facility by cattle located on pastures adjoining the facility.

Mixing ratios of 0.66 and 0.63 were used for the Waste Heat Treatment Facility and reservoir respectively (Ref. FSAR 11.2.7). No additional mixing ratio was assumed for the reservoir to North Anna River.

The result of these calculations is included in Appendix B, Table 2.

2.3.1.2 GASEOUS EFFLUENT RELEASE ESPOSURES

Estimates of maximum individual offsite exposures were calculated for external exposure from noble gases, inhalation of radioactivity in air, deposition of radioactivity on the ground plane and consumption of deposited radioactivity from leafy vegetation, produce, cows milk, goats milk, and meat pathways. Calculations were performed for total-body and organ exposures as appropriate. These results are included as Appendix B, Tables 3,4 and 5. In addition, the gamma and beta exposure to air at the site boundry was calculated and the result is included as Appendix B, Table 3.

Calculations were performed for each sector of the environment surrounding the site, using meteorological data concurrent with the release period. Tables 3,4 and 5 of Appendix are duplicated for continuous and intermittent releases.

2.3.2 POPULATION EXPOSURES

Annual population integrated total-body and thyroid exposures were calculated for the population within a 50 mile radius of the site. Tables E-4 and E-15 of Reg. Guide 1.109 were used to determine the usage values and pathways parameters for population exposures.

2.3.2.1 LIQUID EFFLUENT RELEASE POPULATION EXPOSURES

Average individual exposures resulting from the release of liquid effluents were calculated for potable water, aquatic foods, shoreline recreation, and contaminated foods. These results were incorporated along with the production and/or usage

values for these pathways and age distribution fractions to calculate the population exposures from liquid pathways. This result is included as Appendix B, Table 6.

2.3.2.2 GASEOUS EFFLUENT RELEASE POPULATION EXPOSURES

Estimate of the average adult, teen and child exposures were calculated for total-body and thyroid external exposures from noble gas submersion and desposition on the ground plane and exposure from inhalation of radioactivity. Estimates were calculated for each sector and subregion within the 50 mile radius of the site.

Each subsector individual exposures was multiplied by the estimated age dependent population for the subregion (Ref.FSAR 2.1.3), to yeild the population exposures for each subregion and pathway. These results are included as Tables 7,8 and 9 of Appendix B.

Estimates of the average adult, teen, and child total-body and thyroid exposures for the 50 mile region were calculated for the produce milk and meat pathways. These estimates were incorporated with crop data for the region and age dependent population estimates to estimate the MAN-REM and MAN-THYROID-REM from the terestrial food pathway. This result is included as Table 10 of Appendix B.

2.4 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A summary of solid waste and/or irradiated fuel shipments from the station during the report period is included in Appendix A, Table 3.

3. RESULTS AND EVALUATION

3.1 LIQUID EFFLUENT RELEASES

Calculated estimated offsite exposures for liquid effluents for the 3rd and 4th quarters of 1978 resulted in estimates of less than 1 mrem for the maximum individual total-body or organ doses.

3.2 GASEOUS EFFLUENT RELEASES

Estimates of offsite exposures for continuous gaseous effluents for the 3rd and 4th quarters of 1978 resulted in estimated doses well below the 10 CFR 50, Appendix I limits for all individuals. The highest estimated dose for the 3rd quarter is 1.1 mrem (infant thyroid) to the north sector. All other estimated doses are less than 1.0 mrem.

Dose estimates were calculated for 1 (one) gaseous batch release during the 3rd quarter which consisted of Unit #1 containment purge from September 22 to September 30, 1978 and the release of one waste gas holdup tank contiguous with the purge on September 22.

Meteorological data collected concurrent with this release was used in calculating the dose estimates. All estimated individual doses from this release were less than 1.0 mrem.

Dose estimates were calculated for a Unit # 1 containment hogging operation of approximately 4 hours duration on October 1 ,1978 using meteorological data concurrent with the release. All estimated whole-body and organ doses resulting from this release are well below 1.0 mrem.

During the 4th quarter of 1978 6 waste gas holdup tanks releases were made between October 12,1978 and December 16,1978. The maximum activity for radioiodines and particulates from any one of these releases was less than 10 uCi. These were added and considered as a single release for estimating offsite doses. The 4th quarter meteorological summary was used for making these estimates. All estimated doses from this release are well below 1.0 mrem for whole-body and organs.

3.3 CONCLUSIONS

The total individual estimated offsite dose for the 3rd and 4th quarters of 1978 are well below the 10 CFR 50, Appendix I limits.

NOTE: All estimated dose tables are numbered with a second digit which corresponds to the release as follows:

- 1 3rd. quarter continuous liquid or gaseous release,
- 2 4th. quarter continuous liquid or gaseous release,
- 3 containment purge,
- 4 containment hogging
- 5 4th. quarter gaseous waste holdup tank releases.

APPENDIX A
RADIOACTIVE EFFLUENT RELEASE REPORT
FOR THE
NORTH ANNA POWER STATION
JULY 1,1978 - DEC.31,1978

TABLE 1A	GASEOUS EFFLUENTS-SUMMATION
TABLE 1C	GASEOUS EFFLUENTS-GROUND LEVEL RELEASES
TABLE 2A	LIQUID EFFLUENTS-SUMMATION
TABLE 2B	LIQUID EFFLUENTS
TABLE 3	SOLID WASTE SHIPMENTS
TABLE 4	METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION
TABLE 5	MINIMAL DETECTABLE ACTIVITY LEVELS

TABLE 1A
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1978)
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASE
NORTH ANNA POWER STATION
DOCKET 50-338

	UNIT	3RD QUARTER	4TH QUARTER	EST. TOTAL ERROR %
A. Fission & Activation gases				
1. Total release	Ci	6.41 E+3	6.49 E+2	1.50 E+1
2. Average release rate for period	μCi/sec	8.06 E+2	8.16 E+1	
3. Percent of Technical Specification limit	%	1.28 E+1	1.29 E 0	
B. Iodines				
1. Total Iodine-131	Ci	2.85 E-2	2.24 E-3	1.50 E+1
2. Average release rate for period	μCi/sec	3.58 E-3	2.83 E-4	
3. Percent of Technical Specification limit	%	1.43 E 0	1.12 E-1	
C. Particulates				
1. Particulates with half-lives > 8 days	Ci	1.15 E-4	7.09 E-6	1.50 E+1
2. Average release rate for period	μCi/sec	1.45 E-5	8.92 E-7	
3. Percent of Technical Specification limit	%	7.72 E-3	4.75 E-4	
4. Gross Alpha radioactivity	Ci	1.03 E-4	3.87 E-5	
D. Tritium				
1. Total release	Ci	7.49 E 0	3.20 E-1	1.50 E+1
2. Average release rate for period	μCi/sec	9.42 E-1	4.03 E-2	
3. Percent of Technical Specification limit	%			

TABLE 1C
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1978)
GASEOUS EFFLUENTS-GROUND-LEVEL RELEASES
NORTH ANNA POWER STATION
DOCKET 50-338

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		3RD QUARTER	4TH QUARTER	3RD QUARTER	4TH QUARTER
1. Fission gases					
Krypton-85	Ci				5.03 E-3
Krypton-85m	Ci			4.02 E-1	1.66 E-2
Krypton-87	Ci				
Krypton-88	Ci			1.42 E-4	1.56 E-2
Xenon-133	Ci	3.10 E+3	4.81 E+2	3.19 E+3	1.64 E+2
Xenon-135	Ci	6.04 E+1	7.78 E-1	3.84 E+1	8.43 E-1
Xenon-135m	Ci				
Xenon-138	Ci				
Others (specify)	Ci				
Xe-133m	Ci	4.05 E-1		2.09 E+1	9.94 E-1
Xe-131m	Ci			3.52 E-5	6.38 E-1
Unidentified	Ci				
Total for period	Ci	3.16 E+3	4.82 E+2	3.25 E+3	1.67 E+2
2. Iodines					
Iodine-131	Ci	1.53 E-2	2.16E-3	8.43 E-3	8.66 E-5
Iodine-133	Ci	1.93 E-3	3.86 E-7	2.87 E-3	2.64 E-8
Iodine-135	Ci			1.31 E-5	
Total for period	Ci	1.72 E-2	2.16 E-3	1.13 E-2	8.66 E-5
3. Particulates					
Strontium-89	Ci	4.54 E-6	1.19 E-6		
Strontium-90	Ci	4.00 E-7	1.81 E-7		
Cesium-134	Ci			2.53 E-13	
Cesium-137	Ci			6.80 E-13	
Barium-lanthanum-140	Ci				
Others (specify)	Ci				
Strontium-85	Ci				
Mn-54	Ci	1.51 E-5			
Co-58	Ci	7.11 E-5	5.72 E-6	4.14 E-6	
Co-60	Ci	2.03 E-5			
Unidentified	Ci				
Total for period	Ci	1.11 E-4	7.09 E-6	4.14 E-6	

TABLE 2A
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1978)
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES
NORTH ANNA POWER STATION
DOCKET 50-338

	UNIT	3RD QUARTER	4TH QUARTER	EST. TOTAL ERROR %
A. Fission & Activation products				
1. Total release (not including tritium, gases, alpha)	Ci	8.03 E-2	6.33 E-2	1.5 E+1
2. Average diluted concentration during period	μCi/ml	1.70 E-10	1.36 E-10	
3. Percent of applicable limit	%	6.42 E+0	5.06 E+0	
B. Tritium				
1. Total release	Ci	1.61 E+2	1.01 E+2	1.5 E+1
2. Average diluted concentration during period	μCi/ml	3.40 E-7	2.17 E-7	
3. Percent of applicable limit	%	1.13 E-2	7.22 E-3	
C. Dissolved and entrained gases				
1. Total release	Ci	1.86 E-1	9.13 E-1	1.5 E+1
2. Average diluted concentration during period	μCi/ml	3.94 E-10	1.96 E-9	
3. Percent of applicable limit	%	9.84 E-4	4.90 E-3	
D. Gross Alpha radioactivity				
1. Total release	Ci			
E. Volume of waste released (prior to dilution)				
	Liters	9.77 E+6	7.61 E+6	
F. Volume of dilution water used during period				
	Liters	4.73 E+11	4.66 E+11	

TABLE 2B
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1978)
LIQUID EFFLUENTS
NORTH ANNA POWER STATION
DOCKET 50-338

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE	
		3RD QUARTER	4TH QUARTER
Strontium-89	Ci	1.95 E-4	3.04 E-4
Strontium-90	Ci	3.91 E-5	6.85 E-5
Cesium-134	Ci	1.10 E-4	3.01 E-3
Cesium-137	Ci	7.50 E-4	6.39 E-3
Iodine-131	Ci	4.70 E-2	3.76 E-2
Cobalt-58	Ci	2.16 E-2	1.40 E-2
Cobalt-60	Ci	1.89 E-3	2.68 E-4
Iron-59	Ci	1.36 E-4	2.02 E-4
Zinc-65	Ci		
Manganese-54	Ci	3.95 E-3	2.99 E-4
Chromium-51	Ci		
Zirconium-Niobium-95	Ci		
Molybdenum-99	Ci		
Technetium-99	Ci		
Barium-lanthanum-140	Ci		
Cerium-141	Ci		
Other (Specify)			
W-187	Ci		
I-133	Ci	4.50 E-3	1.16 E-3
Nd-147	Ci		
Na-24	Ci	2.78 E-4	
	Ci		
	Ci		
	Ci		
Unidentified	Ci		
Total for period (above)	Ci		
Xenon-133	Ci	1.83 E-1	9.13 E-1
Xenon-135	Ci	3.16 E-3	1.04 E-4

TABLE 3
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (YEAR)
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not irradiated fuel)

1. Type of waste	UNIT	6-MONTH PERIOD	EST. TOTAL ERROR, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m ³ Ci	. E . E	. E
b. Dry compressible waste, contaminated equipment, etc.	m ³ Ci	2.14 E+1 3.59 E 0	1.00 E+1
c. Irradiated components, control rods, etc.	m ³ Ci	. E . E	. E
d. Other (describe)	m ³ Ci	. E . E	. E

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

b. Co-58	g/g	4.38 E+1
Co-60	g/g	5.00 E-1
Mn-54	g/g	5.50 E+1
Cs-134	g/g	3.70 E 0
Cs-137	g/g	1.70 E+1
c.	g/g	. E
	g/g	. E
	g/g	. E
d.	g/g	. E
	g/g	. E
	g/g	. E

3. Solid Waste Disposition

<u>NUMBER OF SHIPMENTS</u>	<u>MODE OF TRANSPORTATION</u>	<u>DESTINATION</u>
2	Private vehicle	Barnwell, S.C.

B. IRRADIATED FUEL SHIPMENTS (Disposition)

<u>NUMBER OF SHIPMENTS</u>	<u>MODE OF TRANSPORTATION</u>	<u>DESTINATION</u>
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TABLE 4-1

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 01 JUL 1978 0000 TO 30 SEP 1978 2400

STABILITY CLASS : A

ELEVATION 135 FT.

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	2 (3.2)	2 (4.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	6
NNE	2 (2.9)	3 (4.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	5
NE	0 (0.0)	6 (6.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0
ENE	2 (2.2)	1 (3.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	3
E	3 (1.0)	11 (5.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	14
ESE	0 (0.0)	14 (4.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	14
SE	0 (0.0)	2 (4.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2
SSE	0 (0.0)	2 (6.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2
S	0 (0.0)	6 (5.0)	4 (9.1)	0 (0.0)	0 (0.0)	0 (0.0)	10
SSW	0 (0.0)	2 (5.2)	1 (8.1)	0 (0.0)	0 (0.0)	0 (0.0)	3
SW	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0
WSW	0 (0.0)	1 (5.2)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
W	0 (0.0)	1 (3.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
WNW	2 (1.2)	1 (4.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	3
NW	1 (2.8)	1 (4.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2
NNW	1 (2.7)	2 (5.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	4

PERIODS OF CALM (HOURS) : 0

TABLE 4-1 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD : 01 JUL 1978 0000 TO 30 SEP 1978 2400

STABILITY CLASS : B

ELEVATION : 25 FT

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	2 (2.7)	2 (3.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	5
NNE	2 (3.0)	2 (3.6)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	5
NE	1 (2.4)	1 (4.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	4
ENE	2 (2.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2
E	2 (3.0)	0 (4.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	7
ESE	0 (0.0)	5 (4.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	6
SE	0 (0.0)	4 (5.2)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	6
SSE	1 (2.3)	5 (4.9)	1 (7.6)	0 (0.0)	0 (0.0)	0 (0.0)	8
S	1 (2.1)	12 (5.9)	1 (11.6)	1 (18.1)	0 (0.0)	0 (0.0)	16
SSW	0 (0.0)	11 (5.2)	6 (8.6)	0 (0.0)	0 (0.0)	0 (0.0)	17
WSW	2 (2.7)	1 (4.8)	1 (8.4)	0 (0.0)	0 (0.0)	0 (0.0)	6
W	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0
WNW	2 (2.3)	1 (4.2)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	3
NNW	0 (0.0)	1 (3.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
NW	2 (2.9)	1 (5.6)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	3
NNN	2 (3.0)	1 (3.2)	1 (7.6)	1 (12.6)	0 (0.0)	0 (0.0)	7

PERIODS OF CALM (HOURS) : 0

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 01 JUL 1978 0000 TO 30 SEP 1978 2400

5. EIGHT ARTICLES

14 55 7 NO1184373

MIND SPEED (MPH)

QIN

SECTION

TOTAL

2

33

343

44

53

32

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

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PERIOD OF CALL (HOURS) 0

TABLE 4-1 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 01 JUL 1978 0000 TO 30 SEP 1978 2400

STABILITY CLASS : D

ELEVATION 15 FT

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	4 (2.8)	17 (3.3)	27 (9.8)	5 (13.8)	0 (0.0)	0 (0.0)	53
NNE	7 (2.9)	17 (3.6)	18 (9.2)	2 (13.0)	0 (0.0)	0 (0.0)	44
NE	11 (2.6)	8 (3.1)	9 (9.2)	0 (0.0)	0 (0.0)	0 (0.0)	28
ENE	7 (2.3)	14 (4.8)	1 (7.7)	1 (15.8)	0 (0.0)	0 (0.0)	23
E	3 (2.9)	12 (3.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	17
ESE	9 (2.8)	20 (5.1)	2 (7.8)	0 (0.0)	0 (0.0)	0 (0.0)	31
SE	1 (1.4)	17 (3.3)	2 (11.3)	0 (0.0)	0 (0.0)	0 (0.0)	20
SSE	4 (3.0)	21 (3.9)	1 (7.6)	0 (0.0)	0 (0.0)	0 (0.0)	26
S	7 (2.9)	34 (3.2)	11 (8.7)	0 (0.0)	0 (0.0)	0 (0.0)	52
SSW	3 (1.9)	43 (3.8)	3 (8.1)	0 (0.0)	0 (0.0)	0 (0.0)	53
SW	6 (2.6)	20 (3.7)	4 (8.3)	0 (0.0)	0 (0.0)	0 (0.0)	30
WSW	3 (1.6)	4 (3.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	9
W	5 (2.9)	7 (3.4)	1 (8.3)	0 (0.0)	0 (0.0)	0 (0.0)	15
WNW	9 (2.7)	13 (3.4)	4 (9.4)	0 (0.0)	0 (0.0)	0 (0.0)	26
NW	11 (2.8)	16 (3.0)	3 (8.9)	0 (0.0)	0 (0.0)	0 (0.0)	32
NNW	10 (2.7)	19 (3.4)	3 (9.4)	5 (14.9)	0 (0.0)	0 (0.0)	39

PERIODS OF CALM (HOURS) : 0

TABLE 4-1 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 01 JUL 1978 0000 TO 30 SEP 1978 2400

STABILITY CLASS : E

ELEVATION : 15 FT

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	13 (2.7)	19 (3.3)	23 (4.6)	3 (13.5)	0 (0.0)	0 (0.0)	60
NNE	9 (2.7)	17 (3.5)	9 (4.4)	1 (13.2)	0 (0.0)	0 (0.0)	36
NE	5 (2.8)	31 (5.9)	7 (7.9)	0 (0.0)	0 (0.0)	0 (0.0)	43
SNE	6 (2.3)	22 (3.8)	6 (9.7)	2 (14.6)	0 (0.0)	0 (0.0)	37
E	5 (2.1)	9 (3.3)	4 (9.7)	0 (0.0)	0 (0.0)	0 (0.0)	18
SEE	10 (2.5)	10 (3.3)	2 (7.8)	0 (0.0)	0 (0.0)	0 (0.0)	22
SE	10 (2.7)	16 (3.0)	1 (9.7)	0 (0.0)	0 (0.0)	0 (0.0)	47
SSE	15 (2.5)	41 (4.7)	2 (7.8)	0 (0.0)	0 (0.0)	0 (0.0)	59
S	56 (2.7)	98 (4.8)	6 (9.0)	0 (0.0)	0 (0.0)	0 (0.0)	160
SEW	46 (2.8)	104 (5.1)	2 (8.9)	0 (0.0)	0 (0.0)	0 (0.0)	152
SW	42 (2.5)	42 (3.2)	4 (8.4)	0 (0.0)	0 (0.0)	0 (0.0)	89
WSW	12 (2.4)	14 (3.0)	2 (8.0)	0 (0.0)	0 (0.0)	0 (0.0)	48
W	18 (2.7)	29 (4.6)	1 (8.0)	0 (0.0)	0 (0.0)	0 (0.0)	48
WNW	20 (2.7)	34 (3.0)	8 (9.4)	1 (13.9)	0 (0.0)	0 (0.0)	63
NW	10 (2.7)	31 (3.0)	3 (8.7)	1 (12.7)	0 (0.0)	0 (0.0)	45
NNW	7 (2.6)	26 (3.3)	14 (9.0)	1 (13.0)	0 (0.0)	0 (0.0)	48

PERIODS OF CALM (HOURS) : 0

HOURLS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 01 JUL 1978 0000 10 30 SEP 1978 2400

[illegible]

14 01 1961

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12 (AVERAGE)	13-18	19-24	24+	
N	3	2	1	0	0	0	6
NNE	2.0	2.0	0.0	0.0	0.0	0.0	4
NE	1.9	0.0	0.0	0.0	0.0	0.0	1
ENE	0.0	0.0	0.0	0.0	0.0	0.0	2
E	1.3	0.0	0.0	0.0	0.0	0.0	6
ESE	1.3	0.0	0.0	0.0	0.0	0.0	3
SE	1.0	0.0	0.0	0.0	0.0	0.0	3
SSE	1.1	4	0.0	0.0	0.0	0.0	15
S	10	2	0.0	0.0	0.0	0.0	32
SSW	2.0	1.9	0.0	0.0	0.0	0.0	32
SSW	1.8	1.2	0.0	0.0	0.0	0.0	50
SW	2.2	7	1	1	0.0	0.0	31
WSW	2.0	4.1	0.4	14.0	0.0	0.0	8
W	2.8	1.1	0.0	0.0	0.0	0.0	43
WNW	2.0	4.0	0.0	0.0	0.0	0.0	28
WNW	2.7	4.0	7.7	0.0	0.0	0.0	4
NNW	2.2	2	0.0	0.0	0.0	0.0	4
NNW	2.1	4.0	0.0	0.0	0.0	0.0	4

6 (SAND) W750 NO 500153

PERIOD OF RECORD 01 JUL 1978 0000 10 SEP 1978 2400

0 33670 A11713-13

ELEVATION : 35 FT.

WIND DIRECTION		WIND SPEED (MPH)						TOTAL	
		(AVERAGE)							
		1-7	8-12	13-18	19-24	25+			
N	1	0	0	0	0	0	0	0	0
NNE	1	< 1.5	< 0.0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	< 5.2	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0	0	< 0.0	< 0.0	< 0.0	0	0	0
NNE	1	< 0.0							

TABLE 4-2

WINDS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD : 01 OCT 1978 0000 TO 31 DEC 1978 2400

STABILITY CLASS : A

ELEVATION : 25 FT

WIND DIRECTION	WIND SPEED (MPH)												TOTAL
	1-3	4-7	8-12	13-18	19-24	24+							TOTAL
N	1	2	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
NE	1	1	0	0	0	0	0	0	0	0	0	0	0
ENE	1	2	0	0	0	0	0	0	0	0	0	0	0
E	0	2	0	0	0	0	0	0	0	0	0	0	0
ESE	1	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	1	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	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
SW	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
W	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
NNW	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

PERIOD OF CHLW (HOURS)

TABLE 4-2 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 01 OCT 1978 0000 TO 31 DEC 1978 2400

WIND DIRECTION CLASS : 8

ELEVATION : 25 FT

WIND DIRECTION	WIND SPEED (MPH)								TOTAL
	1-3	4-7	8-12	13-18	19-24	25+			
0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0
54	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0
79	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0
81	0	0	0	0	0	0	0	0	0
82	0	0	0	0	0	0	0	0	0
83	0	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0

RECORD OF WIND (HOURS) 8

TABLE 4-2 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD : 01 OCT 1978 0000 TO 31 DEC 1978 2400

STABILITY CLASS : C

ELEVATION : 35 FT

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-16	17-24	24+	
N	0 (0.0)	1 (6.9)	0 (3.0)	0 (9.0)	0 (9.0)	0 (9.0)	1
NNE	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0
NE	0 (0.0)	2 (5.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2
ENE	1 (1.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
E	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0
ESE	1 (2.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
SE	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0
SSE	0 (0.0)	1 (5.9)	1 (9.2)	0 (0.0)	0 (0.0)	0 (0.0)	2
S	0 (0.0)	2 (5.4)	1 (8.9)	0 (0.0)	0 (0.0)	0 (0.0)	3
SSW	0 (0.0)	2 (6.7)	1 (8.4)	0 (0.0)	0 (0.0)	0 (0.0)	3
SW	0 (0.0)	2 (5.4)	2 (9.3)	1 (11.9)	0 (0.0)	0 (0.0)	5
WSW	0 (0.0)	0 (0.0)	1 (10.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
W	0 (0.0)	0 (0.0)	2 (10.6)	0 (0.0)	0 (0.0)	0 (0.0)	2
WNW	0 (0.0)	1 (6.3)	2 (11.6)	0 (0.0)	0 (0.0)	0 (0.0)	3
NW	0 (0.0)	1 (5.2)	1 (9.6)	0 (0.0)	0 (0.0)	0 (0.0)	2
NNW	1 (1.2)	0 (0.0)	1 (9.3)	0 (0.0)	0 (0.0)	0 (0.0)	2

PERIODS OF CALM (HOURS) : 0

TABLE 4-2 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD : 01 OCT 1978 0000 TO 31 DEC 1978 2400

STABILITY CLASS : D

ELEVATION : 75 FT.

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	2 (2.3)	7 (5.9)	12 (9.4)	1 (12.6)	0 (0.0)	0 (0.0)	22
NNE	0 (0.0)	6 (5.9)	9 (9.1)	0 (0.0)	0 (0.0)	0 (0.0)	15
NE	1 (2.9)	4 (6.9)	6 (9.0)	0 (0.0)	0 (0.0)	0 (0.0)	11
ENE	3 (2.3)	3 (5.2)	2 (9.0)	0 (0.0)	0 (0.0)	0 (0.0)	8
E	2 (2.9)	5 (5.9)	3 (9.4)	0 (0.0)	0 (0.0)	0 (0.0)	12
ESE	0 (0.0)	11 (5.2)	1 (8.7)	0 (0.0)	0 (0.0)	0 (0.0)	12
SE	0 (0.0)	9 (5.9)	1 (7.9)	0 (0.0)	0 (0.0)	0 (0.0)	10
SSE	2 (2.5)	4 (5.7)	1 (7.7)	0 (0.0)	0 (0.0)	0 (0.0)	7
S	2 (2.8)	14 (5.9)	5 (8.6)	0 (0.0)	0 (0.0)	0 (0.0)	22
SSW	0 (0.0)	22 (6.2)	5 (10.7)	0 (0.0)	0 (0.0)	0 (0.0)	28
SW	1 (2.3)	7 (6.9)	6 (10.3)	1 (12.3)	0 (0.0)	0 (0.0)	15
WSW	1 (2.3)	0 (0.0)	1 (8.1)	0 (0.0)	0 (0.0)	0 (0.0)	4
W	2 (2.4)	2 (6.1)	4 (9.6)	0 (0.0)	0 (0.0)	0 (0.0)	8
WNW	0 (0.0)	3 (5.2)	7 (10.0)	14 (14.3)	4 (21.6)	3 (25.7)	31
NNW	2 (3.2)	10 (5.4)	11 (11.1)	9 (14.9)	1 (18.5)	0 (0.0)	33
NW	1 (1.3)	7 (6.1)	10 (9.9)	5 (15.0)	0 (0.0)	0 (0.0)	23

PERIODS OF CALM (HOURS) : 0

TABLE 4-2 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 01 OCT 1978 0000 TO 31 DEC 1978 2400

STABILITY CLASS E

ELEVATION 33 FT.

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	11 (2.8)	51 (3.9)	72 (9.3)	12 (15.8)	0 (0.0)	0 (0.0)	106
NNE	4 (1.7)	52 (3.4)	20 (9.0)	3 (13.5)	0 (0.0)	0 (0.0)	89
NE	6 (2.7)	40 (3.4)	3 (8.3)	0 (0.0)	0 (0.0)	0 (0.0)	51
ENE	4 (2.1)	26 (3.5)	7 (9.7)	0 (0.0)	0 (0.0)	0 (0.0)	37
E	4 (2.0)	22 (3.5)	11 (8.9)	0 (0.0)	0 (0.0)	0 (0.0)	37
ESE	8 (2.9)	21 (3.4)	7 (8.3)	0 (0.0)	0 (0.0)	0 (0.0)	36
SE	4 (2.0)	22 (4.9)	3 (8.3)	0 (0.0)	0 (0.0)	0 (0.0)	31
SSE	7 (1.0)	21 (3.2)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	28
S	23 (2.8)	47 (3.6)	7 (7.9)	0 (0.0)	0 (0.0)	0 (0.0)	79
SSW	22 (2.6)	38 (3.4)	27 (9.3)	1 (12.7)	0 (0.0)	0 (0.0)	108
SW	22 (2.8)	38 (3.1)	17 (8.9)	0 (0.0)	0 (0.0)	0 (0.0)	77
WSW	11 (2.4)	13 (4.3)	4 (10.4)	1 (12.6)	0 (0.0)	0 (0.0)	34
W	9 (2.0)	23 (3.0)	14 (10.6)	3 (13.0)	0 (0.0)	0 (0.0)	51
WNW	7 (2.0)	18 (3.9)	21 (10.6)	12 (14.4)	2 (21.9)	0 (0.0)	80
NW	10 (1.8)	10 (3.6)	12 (9.6)	3 (14.6)	0 (0.0)	0 (0.0)	55
NNW	6 (2.7)	41 (3.4)	22 (9.2)	4 (13.6)	0 (0.0)	0 (0.0)	73

PERIODS OF CALM (HOURS) 2

TABLE 4-2 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD : 01 OCT 1978 0000 TO 31 DEC 1978 2400

STABILITY CLASS : F

ELEVATION : 15 FT

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	1 (2.9)	2 (4.8)	4 (11.9)	0 (0.0)	0 (0.0)	0 (0.0)	7
NNE	1 (2.7)	3 (5.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	6
NE	2 (1.3)	4 (5.1)	1 (8.0)	0 (0.0)	0 (0.0)	0 (0.0)	7
ENE	2 (1.8)	1 (5.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	3
E	1 (1.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
ESE	0 (3.1)	2 (4.2)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	5
SE	7 (2.6)	2 (4.2)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	9
SEE	19 (2.1)	1 (4.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	20
S	21 (2.6)	10 (4.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	31
SSW	21 (2.4)	15 (4.4)	1 (9.1)	0 (0.0)	0 (0.0)	0 (0.0)	38
SW	2 (1.9)	13 (5.4)	1 (9.1)	0 (0.0)	0 (0.0)	0 (0.0)	18
WSW	3 (2.1)	6 (4.6)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	14
W	15 (2.7)	23 (4.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	40
WNW	13 (2.7)	20 (4.8)	2 (8.3)	0 (0.0)	0 (0.0)	0 (0.0)	58
NW	10 (2.6)	7 (5.6)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	17
NNW	1 (2.2)	2 (4.1)	1 (9.2)	0 (0.0)	0 (0.0)	0 (0.0)	4

PERIODS OF CALM (HOURS) : 0

TABLE 4-2 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

688100 OF RECORD 01 OCT 1978 0000 TO 31 DEC 1978 2400

STABILITY CLASS: G

ELEVATION 23 FT

[illegible]

PERIODS OF CALM (HOURS) 5

TABLE 4-3

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 22 SEP 1978 1900 TO 30 SEP 1978 2000

STABILITY CLASS : A

ELEVATION : 35 FT

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	0 (0.0)	1 (7.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	4
NNE	0 (0.0)	1 (4.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
NE	0 (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)	0
E	0 (0.0)	2 (5.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2
ESE	0 (0.0)	1 (4.2)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
SE	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0
SSE	0 (0.0)	2 (5.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2
S	0 (0.0)	1 (3.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
SSW	0 (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)	0
WSW	0 (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)	0
WNW	2 (3.2)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2
NNW	1 (2.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
NNNE	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0

PERIODS OF CALM (HOURS) 0

TABLE 4-3 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 22 SEP 1978 1800 TO 20 SEP 1978 2000

STABILITY CLASS B

ELEVATION 135 FT.

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-5	6-7	8-12	13-18	19-24	24+	
N	0 (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)	0
NE	0 (0.0)	1 (5.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
ENE	0 (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)	0
ESE	0 (0.0)	1 (5.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
SE	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0
SSE	0 (0.0)	1 (5.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
S	0 (0.0)	1 (5.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
SSW	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0
SW	1 (2.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
WSW	0 (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)	0
WNW	0 (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)	0
NNW	0 (0.0)	0 (0.0)	1 (5.0)	0 (0.0)	0 (0.0)	0 (0.0)	1

PERIODS OF CALM (HOURS) 3

TABLE 4-3 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 22 SEP 1978 1800 TO 30 SEP 1978 2000

STABILITY CLASS D

ELEVATION 33 FT.

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-16	18-24	24+	
N	0	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)	(0.0)	
NE	0	1	1	0	0	0	2
	(0.0)	(0.0)	(0.1)	(0.0)	(0.0)	(0.0)	
NNE	0	0	0	0	0	0	0
	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	
E	0	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)	(0.0)	
SE	0	1	0	0	0	0	1
	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	
SSE	0	0	0	0	0	0	0
	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	
S	0	1	0	0	0	0	1
	(0.0)	(0.1)	(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)	(0.0)	
SW	0	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)	(0.0)	
W	0	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)	(0.0)	
WW	0	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)	(0.0)	

PERIODS OF CALM HOURS 4

TABLE 4-3 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 22 SEP 1978 1800 TO 30 SEP 1978 2000

STABILITY CLASS : D

ELEVATION : 15 FT

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	0 (0.0)	0 (0.0)	13 (10.0)	1 (11.5)	0 (0.0)	0 (0.0)	14
NNE	0 (0.0)	1 (7.0)	7 (9.3)	0 (0.0)	0 (0.0)	0 (0.0)	10
NE	0 (0.0)	0 (0.0)	2 (9.0)	0 (0.0)	0 (0.0)	0 (0.0)	2
ENE	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0
E	0 (0.0)	2 (4.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2
ESE	0 (0.0)	4 (5.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	4
SE	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0
SSE	1 (2.4)	1 (5.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2
S	1 (2.6)	2 (5.1)	2 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	3
SSW	1 (1.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
SW	0 (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)	0
W	1 (3.2)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
WNW	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0
NNW	1 (1.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1
NWN	0 (0.0)	2 (1.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2

TABLE 4-3 (cont.)

HOURS AT EACH 1-MPH SPEED AND DIRECTION

PERIOD OF RECORD 22 SEP 1976 1990 TO 26 SEP 1978 2000

STABILITY CLASS B

ELEVATION 75 FT

		WIND SPEED (MPH)						TOTAL
DIRECTION		1-1	4-7	9-12	17-24	19-24	24+	
N	1	(0.0)	(0.0)	(0.0)	(14.0)	(0.0)	(0.0)	21
NNE	1	(0.0)	(0.0)	(0.0)	(13.0)	(0.0)	(0.0)	10
NE	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
ENE	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
E	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	2
ESE	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	1
SE	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
SSE	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	1
S	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
SSW	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
SW	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
WSW	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
W	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
WNW	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
NW	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
NNW	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	1
NW	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	2
NNW	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
N	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	1
NNW	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
NNW	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
NNW	1	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	4

PERIOD OF ONLY 1-HOURS

TABLE 4-3 (cont.)

SEP 1978 TO SEP 1979 1980 TO 19 SEP 1978 2000

TABLE IV
continued

ELEVATION 35 FT.

[illegible][illegible]

TABLE 4-3 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 21 SEP 1978 1800 TO 30 SEP 1978 2000

STABILITY CLASS C

ELEVATION 35 FT

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-7	8-12	13-18	19-24	25+	26+	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0

PERIODS OF CALM (HOURS)

TABLE 4-4

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 01 OCT 1978 0648 TO 01 OCT 1978 0923

STABILITY CLASS A

ELEVATION : 35 FT.

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0

PERIOD OF CALM (HOURS)

TABLE 4-4 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD : 01 OCT 1978 0549 TO 01 OCT 1978 0923

STABILITY CLASS : B

ELEVATION : 25 FT.

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	0	0	0	0	0	0	0
NNE	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
NE	0	0	0	0	0	0	0
ENE	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
E	0	0	0	0	0	0	0
ESE	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
SE	0	0	0	0	0	0	0
SSE	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
S	0	0	0	0	0	0	0
SSW	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
SW	0	0	0	0	0	0	0
WSW	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
W	0	0	0	0	0	0	0
WNW	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
WNN	0	0	0	0	0	0	0
NNW	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
N	0	0	0	0	0	0	0

PERIOD OF CALM (HOURS) : 0

TABLE 4-4 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 01 OCT 1978 0549 T 01 OCT 1978 0923

STABILITY CLASS : C

ELEVATION : 35 FT.

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	0	0	0	0	0	0	0
NNE	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	0
NE	0	0	0	0	0	0	0
ENE	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	0
E	0	0	0	0	0	0	0
ESE	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	0
SE	0	0	0	0	0	0	0
SSE	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	0
S	0	0	0	0	0	0	0
SSW	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	0
SW	0	0	0	0	0	0	0
WSW	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	0
W	0	0	0	0	0	0	0
WNW	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	0
WV	0	0	0	0	0	0	0
NNW	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	0

PERIODS OF CALM (HOURS) 0

TABLE 4-4 (cont.)

WINDS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 01 OCT 1978 0549 TO 01 OCT 1978 0923

STABILITY CLASS : D

ELEVATION : 35 FT

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	0	0	0	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)	(0.0)	(0.0)	
NE	0	0	0	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)	(0.0)	(0.0)	
E	0	0	0	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)	(0.0)	(0.0)	
SE	0	0	0	0	0	0	0
(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	
SSE	0	0	0	0	0	0	0
(0.0)	(0.0)	(0.0)	(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)	(0.0)	(0.0)	
SSW	0	0	0	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)	(0.0)	(0.0)	
WSW	0	0	0	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)	(0.0)	(0.0)	
WNW	0	0	0	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)	(0.0)	(0.0)	
NNW	0	0	0	0	0	0	0
(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	

PERIODS OF CALM (HOURS) 0

TABLE 4-4 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 01 OCT 1978 0549 TO 01 OCT 1978 0923

STABILITY CLASS E

ELEVATION 15 FT.

WIND DIRECTION	WIND SPEED (MPH) (AVERAGED)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	0	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)	< 0.0)	
NE	0	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)	< 0.0)	
E	0	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)	< 0.0)	
SE	0	0	0	0	0	0	0
	< 0.0)	< 0.0)	< 0.0)	< 0.0)	< 0.0)	< 0.0)	
SSE	0	0	0	0	0	0	0
	< 0.0)	< 0.0)	< 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)	< 0.0)	
SSW	0	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)	< 0.0)	
WSW	0	0	0	0	0	0	0
	< 0.0)	< 0.0)	< 0.0)	< 0.0)	< 0.0)	< 0.0)	
W	2	0	0	0	0	0	2
	< 2.0)	< 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)	< 0.0)	
NW	1	0	0	0	0	0	1
	< 2.0)	< 0.0)	< 0.0)	< 0.0)	< 0.0)	< 0.0)	
NNW	0	1	0	0	0	0	1
	< 0.0)	< 1.5)	< 0.0)	< 0.0)	< 0.0)	< 0.0)	

PERIODS OF CALM (NO WIND) 0

TABLE 4-4 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD : 01 OCT 1978 0049 TO 01 OCT 1978 0923

STABILITY CLASS : F

ELEVATION : 33 FT.

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-3	4-7	8-12	13-18	19-24	24+	
N	0	0	0	0	0	0	0
NNE	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
NE	0	0	0	0	0	0	0
ENE	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
E	0	0	0	0	0	0	0
ESE	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
SE	0	0	0	0	0	0	0
SSE	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
S	0	0	0	0	0	0	0
SSW	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
SW	0	0	0	0	0	0	0
WSW	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
W	0	0	0	0	0	0	0
WNW	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0
NW	0	0	0	0	0	0	0
NNW	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	< 0.0>	0

PERIODS OF CALM : 0

TABLE 4-4 (cont.)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 01 OCT 1978 0049 TO 01 OCT 1978 0923

STABILITY CLASS : 0

ELEVATION : 35 FT

WIND DIRECTION	WIND SPEED (MPH) (AVERAGE)						TOTAL
	1-7	4-7	8-12	13-18	19-24	24+	
N	0	0	0	0	0	0	0
NNE	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
NE	0	0	0	0	0	0	0
ENE	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
E	0	0	0	0	0	0	0
ESE	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
SE	0	0	0	0	0	0	0
SSE	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
S	0	0	0	0	0	0	0
SSW	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
SW	0	0	0	0	0	0	0
WSW	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
W	0	0	0	0	0	0	0
WNW	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0
NW	0	0	0	0	0	0	0
NNW	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0

PERIODS OF CALM (HOURS) : 0

TABLE 5

MINIMAL DETECTABLE ACTIVITY LEVELS (uCi/ml)

<u>NUCLIDE</u>	<u>GASEOUS EFFLUENTS</u>	<u>LIQUID EFFLUENTS</u>
Kr-85m	8.71E-07	
Kr-85	2.26E-06	
Kr-87	1.42E-06	
Kr-88	2.53E-06	
Xe-133	1.13E-06	5.38E-07
Xe-135	8.01E-07	2.24E-07
Xe-135m	1.21E-06	
Xe-138	2.24E-06	
I-131	3.11E-13	2.18E-07
I-132	3.30E-13	
I-133	3.19E-13	
I-134	6.74E-13	
I-135	6.98E-13	
Co-58	1.08E-13	2.70E-07
Co-60	3.03E-13	2.63E-07
Cs-134	2.71E-13	2.80E-07
Cs-137	2.72E-13	2.44E-07
Mn-54	2.82E-13	1.64E-07
Ba-140	7.50E-13	
Fe-59		4.10E-07
Zn-65		4.20E-07
Cr-51		2.00E-06
Zr-95		3.45E-07
Mo-99		1.33E-06
Tc-99m		1.76E-07
Ba-140		6.80E-07
La-140		1.31E-07
Ce-141		3.50E-07

APPENDIX B

RADIOACTIVE EFFLUENT RELEASE REPORT

FOR THE

NORTH ANNA POWER STATION

JULY 1,1978 - DEC.31,1978

TABLE 1	ENVIRONMENTAL SURVEY (1978)
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TABLE 1

DISTANCE FROM WETLANDS TO NEAREST SOURCE

WETLANDS SURVEY, 1977

WETLAND	WETLAND DISTANCE	NEAREST SOURCE DISTANCE	WETLAND DISTANCE	WETLAND DISTANCE	WETLAND DISTANCE
W1	2.50 km	1.40 km	3.15 km	3.00 km	3.15 km
W2	2.25 km	1.35 km	6.75 km	5.25 km	4.15 km
W3	2.00 km	1.32 km		2.25 km	2.00 km
W4	3.45 km	1.31 km		4.00 km	4.00 km
W5	3.00 km	1.33 km	3.00 km	3.00 km	3.00 km
W6	1.75 km	1.37 km		7.75 km	3.00 km
W7	3.25 km	1.41 km		2.25 km	7.00 km
W8	3.25 km	1.47 km		2.25 km	3.25 km
W9	3.45 km	1.52 km		2.50 km	3.45 km
W10	3.15 km	1.62 km	4.80 km	3.25 km	2.35 km
W11	1.25 km	1.70 km		2.50 km	1.25 km
W12	1.15 km	1.73 km	4.75 km	2.75 km	2.75 km
W13	2.75 km	1.71 km		6.75 km	4.15 km
W14	1.75 km	1.64 km	3.00 km	6.25 km	4.35 km
W15	1.75 km	1.56 km		4.00 km	3.25 km
W16	1.30 km	1.45 km	3.50 km	3.75 km	3.75 km

* Distances from 1977 Environmental Survey

TABLE 2-1

LIQUID RELEASE DOSES (MREM)
 MAXIMUM INDIVIDUAL

TOTAL CALCULATED MAXIMUM DOSES FROM LIQUID PATHWAYS

	BONE	LIVER	TOT-BODY	THYROID	KIDNEY	LUNG	GI-LLI
ADLT	0.00E+00	0.61E-03	0.61E-03	0.61E-03	0.61E-03	0.61E-03	0.61E-03
TEEN	0.00E+00	0.45E-03	0.45E-03	0.45E-03	0.45E-03	0.45E-03	0.45E-03
CHLD	0.00E+00	0.65E-03	0.65E-03	0.65E-03	0.65E-03	0.65E-03	0.65E-03
INFT	0.00E+00	0.49E-03	0.49E-03	0.49E-03	0.49E-03	0.49E-03	0.49E-03

TABLE 2-2

LIQUID RELEASE DOSES (MREM)
 MAXIMUM INDIVIDUAL

TOTAL CALCULATED MAXIMUM DOSES FROM LIQUID PATHWAYS

	BONE	LIVER	TOT-BODY	THYROID	KIDNEY	LUNG	GI-LLI
ADLT	0.00E 00	0.38E-03	0.38E-03	0.38E-03	0.38E-03	0.38E-03	0.38E-03
TEEN	0.00E 00	0.28E-03	0.28E-03	0.28E-03	0.28E-03	0.28E-03	0.28E-03
CHLD	0.00E 00	0.40E-03	0.40E-03	0.40E-03	0.40E-03	0.40E-03	0.40E-03
INFT	0.00E 00	0.30E-03	0.30E-03	0.30E-03	0.30E-03	0.30E-03	0.30E-03

TABLE 3-]

NOBLE GAS EXPOSURES

	SITE BOUNDARY		NEAREST RESIDENCE	
	GAMMA AIR	BETA AIR	TOTAL-BODY	SKIN
	(MRAD)	(MRAD)	(MREM)	(MREM)
N	0.80E-01	0.22E-00	0.13E-01	0.60E-01
NNE	0.97E-01	0.27E-00	0.25E-01	0.84E-01
NE	0.63E-01	0.18E-00	0.17E-01	0.58E-01
ENE	0.33E-01	0.94E-01	0.43E-02	0.14E-01
E	0.60E-01	0.17E-00	0.17E-01	0.58E-01
ESE	0.43E-01	0.12E-00	0.79E-02	0.26E-01
SE	0.22E-01	0.62E-01	0.63E-02	0.21E-01
SSE	0.17E-01	0.47E-01	0.27E-02	0.92E-02
S	0.19E-01	0.52E-01	0.87E-02	0.29E-01
SSW	0.15E-01	0.42E-01	0.54E-02	0.18E-01
SW	0.11E-01	0.31E-01	0.43E-02	0.15E-01
WSW	0.99E-02	0.28E-01	0.41E-02	0.14E-01
W	0.88E-02	0.25E-01	0.24E-02	0.80E-02
WNW	0.12E-01	0.35E-01	0.68E-02	0.22E-01
NW	0.13E-01	0.37E-01	0.36E-02	0.12E-01
NNW	0.28E-01	0.78E-01	0.39E-02	0.13E-01

TABLE 3-2

NOBLE GAS EXPOSURES

	SITE BOUNDARY		NEAREST RESIDENCE	
	GAMMA AIR (MRAD)	BETA AIR (MRAD)	TOTAL-BODY (MREM)	SKIN (MREM)
N	0.82E-02	0.24E-01	0.18E-02	0.62E-02
NNE	0.50E-02	0.27E-01	0.23E-02	0.76E-02
NE	0.45E-02	0.19E-01	0.17E-02	0.59E-02
ENE	0.36E-02	0.11E-01	0.47E-03	0.16E-02
E	0.96E-02	0.28E-01	0.28E-02	0.95E-02
ESE	0.19E-01	0.53E-01	0.34E-02	0.12E-01
SE	0.79E-02	0.23E-01	0.22E-02	0.76E-02
SSE	0.29E-02	0.85E-02	0.47E-03	0.16E-02
S	0.32E-02	0.95E-02	0.15E-02	0.50E-02
SSW	0.24E-02	0.70E-02	0.65E-03	0.29E-02
SW	0.16E-02	0.48E-02	0.63E-03	0.21E-02
WSW	0.11E-02	0.33E-02	0.45E-03	0.15E-02
W	0.17E-02	0.50E-02	0.46E-03	0.16E-02
WNW	0.22E-02	0.65E-02	0.12E-02	0.40E-02
NW	0.21E-02	0.62E-02	0.58E-03	0.20E-02
NNW	0.44E-02	0.13E-01	0.63E-03	0.21E-02

TABLE 3-3

PL-1 GAS EXPOSURES

	TYPE 11001R		NEAREST RESIDENCE	
	1000000000	1000000000	TOTAL-BODY	SKIN
	(MREM)	(MREM)	(MREM)	(MREM)
N	0.824E-01	0.242E-00	0.19E-01	0.65E-01
WSE	0.77E-01	0.77E-00	0.31E-01	0.11E-00
SE	0.11E-01	0.12E-00	0.11E-01	0.36E-01
ENE	0.90E-02	0.26E-01	0.12E-02	0.40E-02
E	0.14E-00	0.40E-00	0.41E-01	0.14E-00
ESE	0.12E-01	0.36E-01	0.23E-02	0.77E-02
EE	0.61E-02	0.18E-01	0.18E-01	0.62E-02
ESE	0.14E-01	0.41E-01	0.23E-02	0.75E-02
S	0.43E-01	0.11E-00	0.18E-01	0.62E-01
SSW	0.21E-01	0.49E-01	0.75E-02	0.25E-01
SW	0.17E-01	0.39E-01	0.52E-02	0.18E-01
WSW	0.37E-02	0.11E-01	0.17E-01	0.51E-02
W	0.46E-02	0.19E-01	0.18E-02	0.60E-02
WNW	0.74E-02	0.17E-01	0.29E-01	0.98E-02
NN	0.26E-02	0.20E-01	0.24E-02	0.80E-02
NNN	0.26E-01	0.76E-01	0.37E-02	0.13E-01

TABLE 3-4

NOBLE GAS EXPOSURES

	SITE BOUNDARY		NEAREST RESIDENCE	
	GAMMA AIR (MRAD)	BETA AIR (MRAD)	TOTAL-BODY (MREM)	SKIN (MREM)
N	0.00E 00	0.00E 00	0.00E 00	0.00E 00
NNE	0.03E 00	0.00E 00	0.00E 00	0.00E 00
NE	0.00E 00	0.00E 00	0.00E 00	0.00E 00
ENE	0.00E 00	0.00E 00	0.00E 00	0.00E 00
E	0.00E-04	0.13E-03	0.14E-04	0.46E-04
ESE	0.00E 00	0.00E 00	0.00E 00	0.00E 00
SE	0.22E-04	0.65E-04	0.53E-05	0.20E-04
SSE	0.79E-05	0.23E-04	0.11E-05	0.43E-05
S	0.00E 00	0.00E 00	0.00E 00	0.00E 00
SSW	0.00E 00	0.00E 00	0.00E 00	0.00E 00
SW	0.00E 00	0.00E 00	0.00E 00	0.00E 00
WSW	0.00E 00	0.00E 00	0.00E 00	0.00E 00
W	0.00E 00	0.00E 00	0.00E 00	0.00E 00
WNW	0.00E 00	0.00E 00	0.00E 00	0.00E 00
NW	0.00E 00	0.00E 00	0.00E 00	0.00E 00
NNW	0.00E 00	0.00E 00	0.00E 00	0.00E 00

TABLE 3-5

NUCLE GAS EXPOSURES

	SITE 80 NORM		NEAREST RESIDENCE	
	GAMMA AIR	BETA AIR	TOTAL-BODY	SKIN
	(MRAD)	(MRAD)	(MREM)	(MREM)
N	0.29E-02	0.84E-02	0.65E-03	0.22E-02
NNF	0.31E-02	0.92E-02	0.81E-03	0.28E-02
NE	0.21E-02	0.57E-02	0.61E-03	0.21E-02
ENE	0.13E-02	0.38E-02	0.15E-03	0.56E-03
E	0.34E-02	0.99E-02	0.99E-03	0.34E-02
EEF	0.63E-02	0.18E-01	0.12E-02	0.41E-02
SE	0.28E-02	0.81E-02	0.79E-03	0.27E-02
SEE	0.18E-02	0.30E-02	0.17E-03	0.57E-03
S	0.11E-02	0.33E-02	0.52E-03	0.18E-02
SEH	0.83E-03	0.24E-02	0.30E-03	0.10E-02
SH	0.57E-03	0.17E-02	0.22E-03	0.75E-03
WFH	0.39E-03	0.11E-02	0.15E-03	0.55E-03
W	0.59E-03	0.17E-02	0.15E-03	0.56E-03
NNN	0.77E-03	0.23E-02	0.41E-03	0.14E-02
NN	0.73E-03	0.21E-02	0.20E-03	0.69E-03
NNN	0.14E-02	0.44E-02	0.22E-02	0.76E-03

TABLE 4-]

MAXIMUM GROUND PLANE DOSES (mrem)

	TOTAL-BODY	SKIN
N	0.931E-04	0.988E-04
NNE	0.102E-03	0.122E-03
NE	0.693E-04	0.824E-04
ENE	0.127E-04	0.152E-04
E	0.532E-04	0.633E-04
ESE	0.120E-04	0.138E-04
SE	0.315E-04	0.375E-04
SEE	0.191E-04	0.228E-04
S	0.727E-04	0.865E-04
SSW	0.152E-04	0.420E-04
SW	0.287E-04	0.341E-04
WSW	0.248E-04	0.295E-04
W	0.166E-04	0.197E-04
WNW	0.480E-04	0.579E-04
NW	0.158E-04	0.200E-04
NNW	0.191E-04	0.215E-04

TABLE 4-2

MAXIMUM GROUND PLANE DOSES (MREM)

	TOTAL-BODY	SKIN
N	0.258E-05	0.213E-05
NNE	0.462E-05	0.487E-05
NE	0.319E-05	0.387E-05
ENE	0.369E-06	0.713E-06
E	0.112E-05	0.402E-05
ESE	0.175E-05	0.454E-05
SE	0.291E-05	0.252E-05
SSE	0.116E-05	0.140E-05
S	0.445E-05	0.539E-05
SSW	0.224E-05	0.272E-05
SW	0.151E-05	0.163E-05
WSW	0.100E-05	0.127E-05
W	0.911E-06	0.110E-05
WNW	0.192E-05	0.233E-05
NW	0.659E-06	0.799E-06
NNW	0.596E-06	0.713E-06

TABLE 4-3

MAXIMUM GROUND PLANE DOSES (MREM)		
	TOTAL-BODY	SKIN
N	0.104E-04	0.126E-04
NNE	0.147E-04	0.179E-04
NE	0.550E-05	0.667E-05
ENE	0.383E-05	0.465E-05
E	0.165E-04	0.200E-04
ESE	0.263E-05	0.321E-05
SE	0.321E-05	0.263E-05
SSE	0.421E-05	0.511E-05
S	0.463E-04	0.526E-04
SSW	0.160E-04	0.205E-04
SW	0.110E-04	0.134E-04
WSW	0.321E-05	0.263E-05
W	0.321E-05	0.390E-05
WNW	0.604E-05	0.676E-05
NW	0.266E-05	0.371E-05
NNW	0.299E-05	0.362E-05

TABLE 4-4

MAXIMUM GROUND PLANE DOSES (mREM)

	TOTAL-BODY	SKIN
N	0.000E 00	0.000E 00
NNE	0.000E 00	0.000E 00
NE	0.000E 00	0.000E 00
ENE	0.000E 00	0.000E 00
E	0.858E-06	0.104E-05
ESE	0.000E 00	0.000E 00
SE	0.144E-06	0.418E-06
SSE	0.179E-06	0.218E-06
S	0.000E 00	0.000E 00
SSW	0.000E 00	0.000E 00
SW	0.000E 00	0.000E 00
WSW	0.000E 00	0.000E 00
W	0.000E 00	0.000E 00
WNW	0.000E 00	0.000E 00
NW	0.000E 00	0.000E 00
NNW	0.000E 00	0.000E 00

TABLE 4-5

MAXIMUM GROUND PLANE DOSES (mrem)

	TOTAL-BODY	SKIN
N	0. 187E-07	0. 227E-07
NNE	0. 290E-07	0. 352E-07
E	0. 281E-07	0. 290E-07
ENE	0. 425E-08	0. 516E-08
E	0. 240E-07	0. 291E-07
ESE	0. 271E-07	0. 329E-07
SE	0. 210E-07	0. 255E-07
ESE	0. 835E-08	0. 101E-07
S	0. 321E-07	0. 390E-07
SEW	0. 162E-07	0. 197E-07
SW	0. 108E-07	0. 133E-07
WSW	0. 750E-08	0. 921E-08
W	0. 659E-08	0. 800E-08
WNW	0. 179E-07	0. 169E-07
NW	0. 476E-08	0. 578E-08
NNW	0. 427E-08	0. 518E-08

TABLE 5-1

CALCULATED DOSE (MRPM) - TOTAL FOR INHALATION AND CONSUMPTION

MAXIMUM INDIVIDUAL

ADULT

	BONE	LIVER	TOT-BODY	THYROID	KIDNEY	LUNG	GI-LLI
M	0.11E-02	0.15E-02	0.30E-02	0.47E-00	0.25E-02	0.46E-05	0.44E-03
NME	0.55E-03	0.72E-03	0.42E-03	0.21E-00	0.12E-02	0.66E-05	0.22E-03
ME	0.19E-02	0.13E-02	0.79E-03	0.44E-00	0.23E-02	0.45E-05	0.43E-03
EME	0.23E-02	0.36E-03	0.16E-03	0.98E-01	0.52E-03	0.11E-05	0.91E-04
E	0.54E-02	0.72E-03	0.42E-03	0.23E-00	0.12E-02	0.46E-05	0.22E-03
SEE	0.40E-02	0.52E-03	0.30E-03	0.17E-00	0.88E-03	0.20E-05	0.16E-03
SE	0.50E-02	0.66E-03	0.36E-03	0.21E-00	0.11E-02	0.16E-05	0.20E-03
SSE	0.29E-02	0.38E-03	0.22E-03	0.12E-00	0.64E-03	0.69E-06	0.12E-03
S	0.68E-02	0.88E-03	0.52E-03	0.28E-00	0.15E-02	0.23E-05	0.28E-03
SEM	0.56E-02	0.76E-03	0.44E-03	0.25E-00	0.13E-02	0.14E-05	0.24E-03
SM	0.41E-02	0.56E-03	0.33E-03	0.18E-00	0.95E-03	0.11E-05	0.18E-03
MEM	0.31E-02	0.41E-03	0.24E-03	0.13E-00	0.78E-03	0.11E-05	0.12E-03
M	0.19E-02	0.12E-03	0.77E-04	0.42E-01	0.22E-02	0.62E-06	0.41E-04
MMM	0.13E-02	0.25E-03	0.15E-03	0.81E-01	0.43E-02	0.18E-05	0.76E-04
NM	0.21E-02	0.27E-03	0.16E-03	0.86E-01	0.46E-02	0.93E-06	0.84E-04
NMM	0.38E-02	0.50E-03	0.29E-03	0.15E-00	0.86E-02	0.97E-06	0.15E-03

TABLE 5-1 (cont.)

100

	HEART	LIVER	PANCREAS	THYROID	KIDNEY	LUNG	GI-LLI
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	0.10E-01	0.20E-01	0.30E-01	0.40E-01	0.50E-01	0.60E-01	0.70E-01
200	0.20E-01	0.40E-01	0.60E-01	0.80E-01	0.10E-01	0.20E-01	0.30E-01
300	0.30E-01	0.60E-01	0.90E-01	0.10E-01	0.20E-01	0.30E-01	0.40E-01
400	0.40E-01	0.80E-01	0.10E-01	0.20E-01	0.30E-01	0.40E-01	0.50E-01
500	0.50E-01	0.10E-01	0.20E-01	0.30E-01	0.40E-01	0.50E-01	0.60E-01
600	0.60E-01	0.20E-01	0.30E-01	0.40E-01	0.50E-01	0.60E-01	0.70E-01
700	0.70E-01	0.30E-01	0.40E-01	0.50E-01	0.60E-01	0.70E-01	0.80E-01
800	0.80E-01	0.40E-01	0.50E-01	0.60E-01	0.70E-01	0.80E-01	0.90E-01
900	0.90E-01	0.50E-01	0.60E-01	0.70E-01	0.80E-01	0.90E-01	0.10E+00
1000	0.10E+00	0.60E-01	0.70E-01	0.80E-01	0.90E-01	0.10E+00	0.20E+00
1100	0.20E+00	0.70E-01	0.80E-01	0.90E-01	0.10E+00	0.20E+00	0.30E+00
1200	0.30E+00	0.80E-01	0.90E-01	0.10E+00	0.20E+00	0.30E+00	0.40E+00
1300	0.40E+00	0.90E-01	0.10E+00	0.20E+00	0.30E+00	0.40E+00	0.50E+00
1400	0.50E+00	0.10E+00	0.20E+00	0.30E+00	0.40E+00	0.50E+00	0.60E+00
1500	0.60E+00	0.20E+00	0.30E+00	0.40E+00	0.50E+00	0.60E+00	0.70E+00
1600	0.70E+00	0.30E+00	0.40E+00	0.50E+00	0.60E+00	0.70E+00	0.80E+00
1700	0.80E+00	0.40E+00	0.50E+00	0.60E+00	0.70E+00	0.80E+00	0.90E+00
1800	0.90E+00	0.50E+00	0.60E+00	0.70E+00	0.80E+00	0.90E+00	0.10E+01
1900	0.10E+01	0.60E+00	0.70E+00	0.80E+00	0.90E+00	0.10E+01	0.20E+01
2000	0.20E+01	0.70E+00	0.80E+00	0.90E+00	0.10E+01	0.20E+01	0.30E+01
2100	0.30E+01	0.80E+00	0.90E+00	0.10E+01	0.20E+01	0.30E+01	0.40E+01
2200	0.40E+01	0.90E+00	0.10E+01	0.20E+01	0.30E+01	0.40E+01	0.50E+01
2300	0.50E+01	0.10E+01	0.20E+01	0.30E+01	0.40E+01	0.50E+01	0.60E+01
2400	0.60E+01	0.20E+01	0.30E+01	0.40E+01	0.50E+01	0.60E+01	0.70E+01
2500	0.70E+01	0.30E+01	0.40E+01	0.50E+01	0.60E+01	0.70E+01	0.80E+01
2600	0.80E+01	0.40E+01	0.50E+01	0.60E+01	0.70E+01	0.80E+01	0.90E+01
2700	0.90E+01	0.50E+01	0.60E+01	0.70E+01	0.80E+01	0.90E+01	0.10E+02
2800	0.10E+02	0.60E+01	0.70E+01	0.80E+01	0.90E+01	0.10E+02	0.20E+02
2900	0.20E+02	0.70E+01	0.80E+01	0.90E+01	0.10E+02	0.20E+02	0.30E+02
3000	0.30E+02	0.80E+01	0.90E+01	0.10E+02	0.20E+02	0.30E+02	0.40E+02
3100	0.40E+02	0.90E+01	0.10E+02	0.20E+02	0.30E+02	0.40E+02	0.50E+02
3200	0.50E+02	0.10E+02	0.20E+02	0.30E+02	0.40E+02	0.50E+02	0.60E+02
3300	0.60E+02	0.20E+02	0.30E+02	0.40E+02	0.50E+02	0.60E+02	0.70E+02
3400	0.70E+02	0.30E+02	0.40E+02	0.50E+02	0.60E+02	0.70E+02	0.80E+02
3500	0.80E+02	0.40E+02	0.50E+02	0.60E+02	0.70E+02	0.80E+02	0.90E+02
3600	0.90E+02	0.50E+02	0.60E+02	0.70E+02	0.80E+02	0.90E+02	0.10E+03
3700	0.10E+03	0.60E+02	0.70E+02	0.80E+02	0.90E+02	0.10E+03	0.20E+03

TABLE 5-1 (cont.)

CALCULATED DOSES (MBED) - TOTAL FOR INHALATION AND CONSUMPTION

MAXIMUM INDIVIDUAL

CHLD

	BONE	LIVER	TOT-BODY	THYROID	KIDNEY	LUNG	GI-ILLI
N	0.23E-02	0.24E-02	3.15E-02	0.87E 00	0.41E-02	0.55E-05	0.27E-03
NNE	0.12E-02	0.11E-02	0.66E-02	0.37E 00	0.16E-02	0.79E-05	0.12E-03
NE	0.19E-02	0.17E-02	0.10E-02	0.56E 00	0.28E-02	0.54E-05	0.20E-03
ENE	0.38E-03	0.54E-03	0.31E-03	0.18E 00	0.89E-03	0.13E-05	0.56E-04
E	0.14E-02	0.13E-02	0.76E-03	0.43E 00	0.21E-02	0.55E-05	0.14E-03
EE	0.74E-03	0.65E-03	0.39E-03	0.21E 00	0.11E-02	0.24E-05	0.75E-04
SE	0.16E-02	0.96E-03	0.53E-03	0.30E 00	0.15E-02	0.20E-05	0.10E-03
SEE	0.54E-03	0.46E-03	0.28E-03	0.13E 00	0.78E-03	0.82E-06	0.55E-04
S	0.17E-02	0.11E-02	0.66E-03	0.36E 00	0.18E-02	0.18E-05	0.13E-03
SEW	0.12E-02	0.11E-02	0.60E-03	0.26E 00	0.18E-02	0.17E-05	0.12E-03
SW	0.90E-03	0.70E-03	0.42E-03	0.23E 00	0.11E-02	0.14E-05	0.81E-04
NEW	0.68E-03	0.62E-03	0.36E-03	0.20E 00	0.10E-02	0.13E-05	0.68E-04
W	0.19E-02	0.17E-02	0.98E-04	0.54E-01	0.27E-02	0.74E-06	0.19E-04
WNN	0.47E-03	0.44E-03	0.25E-03	0.14E 00	0.72E-03	0.21E-05	0.46E-04
NW	0.38E-03	0.34E-03	0.26E-03	0.11E 00	0.55E-03	0.11E-05	0.39E-04
NWN	0.57E-03	0.92E-03	0.53E-03	0.30E 00	0.15E-02	0.12E-05	0.95E-04

TABLE 5-1 (cont.)

CALCULATED DOSES (MREM) - TOTAL FOR INHALATION AND CONSUMPTION

MAXIMUM INDIVIDUAL

INFT

	BONE	LIVER	TOT-BODY	THYROID	KIDNEY	LUNG	GI-LLI
N	0.28E-02	0.32E-02	0.10E-02	0.11E-01	0.19E-02	0.37E-05	0.12E-03
NNE	0.79E-03	0.92E-03	0.40E-03	0.10E-00	0.11E-02	0.53E-05	0.34E-04
NE	0.13E-04	0.10E-04	0.62E-05	0.48E-02	0.17E-04	0.36E-05	0.46E-06
ENE	0.56E-03	0.66E-03	0.29E-02	0.22E-00	0.77E-03	0.87E-06	0.25E-04
E	0.14E-02	0.17E-02	0.72E-03	0.54E-00	0.19E-02	0.37E-05	0.62E-04
EE	0.58E-03	0.66E-05	0.28E-05	0.22E-02	0.77E-05	0.16E-05	0.21E-06
SE	0.27E-03	0.22E-03	0.14E-03	0.11E-00	0.38E-03	0.12E-05	0.12E-04
SEE	0.20E-05	0.23E-05	0.95E-06	0.72E-03	0.26E-05	0.55E-06	0.70E-07
S	0.66E-03	0.76E-03	0.32E-03	0.25E-02	0.88E-05	0.19E-05	0.24E-06
SEN	0.50E-03	0.59E-03	0.26E-03	0.19E-00	0.68E-03	0.11E-05	0.22E-04
SN	0.33E-05	0.37E-05	0.16E-05	0.12E-02	0.44E-05	0.91E-06	0.12E-06
NEN	0.29E-03	0.44E-03	0.19E-03	0.13E-00	0.52E-03	0.86E-06	0.17E-04
N	0.18E-05	0.20E-05	0.96E-06	0.67E-03	0.24E-05	0.50E-06	0.63E-07
NNN	0.43E-03	0.56E-03	0.22E-03	0.16E-00	0.58E-03	0.14E-05	0.19E-04
NN	0.27E-03	0.31E-05	0.13E-05	0.10E-02	0.36E-05	0.75E-06	0.95E-07
NNN	0.93E-03	0.12E-02	0.51E-03	0.38E-00	0.13E-02	0.78E-06	0.43E-04

TABLE 5-2

CALCULATED DOSE (MREM) FOR 1 YEAR OF EXPOSURE AND CONSUMPTION

MAXIMUM DOSE EQUAL

ADULT

	THY	SPLE	TOT-BODY	PROID	KIDNEY	LUNG	GI-LLI
M	0.10E-03	0.17E-03	0.73E-04	0.10E-01	0.21E-03	0.00E 00	0.33E-04
AME	0.47E-04	0.77E-04	0.48E-04	0.10E-01	0.13E-03	0.00E 00	0.21E-04
ME	0.10E-03	0.17E-03	0.10E-01	0.10E-01	0.26E-03	0.00E 00	0.46E-04
ONE	0.2E-04	0.33E-04	0.23E-04	0.10E-01	0.63E-04	0.00E 00	0.10E-04
E	0.10E-03	0.17E-03	0.73E-04	0.10E-01	0.26E-03	0.00E 00	0.33E-04
SEE	0.47E-03	0.17E-03	0.10E-03	0.10E-01	0.27E-03	0.00E 00	0.45E-04
SE	0.17E-03	0.17E-03	0.10E-03	0.10E-01	0.27E-03	0.00E 00	0.45E-04
SEE	0.26E-04	0.44E-04	0.38E-04	0.10E-01	0.10E-03	0.00E 00	0.17E-04
S	0.17E-03	0.17E-03	0.99E-04	0.10E-01	0.24E-03	0.00E 00	0.40E-04
ESW	0.12E-03	0.13E-03	0.79E-04	0.10E-01	0.23E-03	0.00E 00	0.36E-04
SN	0.17E-04	0.27E-04	0.48E-04	0.10E-01	0.13E-03	0.00E 00	0.22E-04
MSW	0.41E-04	0.47E-04	0.26E-04	0.10E-01	0.78E-04	0.00E 00	0.13E-04
W	0.10E-04	0.13E-04	0.12E-04	0.10E-02	0.11E-04	0.00E 00	0.53E-05
UNW	0.21E-04	0.27E-04	0.16E-04	0.10E-02	0.46E-04	0.00E 00	0.73E-05
NW	0.13E-04	0.27E-04	0.17E-04	0.10E-02	0.47E-04	0.00E 00	0.78E-05
NNW	0.39E-04	0.44E-04	0.27E-04	0.10E-02	0.76E-04	0.00E 00	0.12E-04

TABLE 5-2 (cont.)

CALCULATED DOSE (MREM) - TOTAL FOR EXPOSURE AND CONSUMPTION

MAXIMUM INDIVIDUAL

TEEN

	SKIN	LIVER	TOT-BODY	THYROID	KIDNEY	LUNG	GI-LLI
N	0.13E-03	0.14E-03	0.83E-04	0.44E-01	0.20E-03	0.00E 00	0.30E-04
NNE	0.77E-04	0.11E-04	0.48E-04	0.24E-01	0.14E-03	0.00E 00	0.17E-04
NE	0.14E-03	0.17E-03	0.94E-04	0.43E-01	0.26E-03	0.00E 00	0.34E-04
ENE	0.39E-04	0.44E-04	0.23E-04	0.11E-01	0.70E-04	0.00E 00	0.91E-05
E	0.13E-03	0.14E-03	0.82E-04	0.42E-01	0.20E-03	0.00E 00	0.30E-04
EE	0.16E-03	0.13E-03	0.92E-04	0.44E-01	0.26E-03	0.00E 00	0.33E-04
SE	0.14E-03	0.13E-03	0.96E-04	0.46E-01	0.27E-03	0.00E 00	0.34E-04
SEE	0.79E-04	0.30E-04	0.14E-04	0.16E-01	0.97E-04	0.00E 00	0.12E-04
S	0.14E-03	0.17E-03	0.81E-04	0.39E-01	0.27E-03	0.00E 00	0.29E-04
SEN	0.13E-03	0.17E-03	0.78E-04	0.38E-01	0.21E-03	0.00E 00	0.28E-04
SH	0.76E-04	0.77E-04	0.44E-04	0.21E-01	0.11E-03	0.00E 00	0.13E-04
SHN	0.46E-04	0.46E-04	0.29E-04	0.14E-01	0.53E-04	0.00E 00	0.10E-04
M	0.19E-04	0.13E-04	0.11E-04	0.33E-02	0.31E-04	0.00E 00	0.39E-05
MNE	0.29E-04	0.77E-04	0.13E-04	0.91E-02	0.33E-04	0.00E 00	0.63E-05
ME	0.77E-04	0.26E-04	0.16E-04	0.76E-02	0.10E-04	0.00E 00	0.57E-05
MEM	0.47E-04	0.32E-04	0.30E-04	0.10E-01	0.99E-04	0.00E 00	0.11E-04

TABLE 5-2 (cont.)

CALCULATED DOSE (MBE) = TOTAL FOR INHALATION AND CONSUMPTION

MAXIMUM INDIVIDUAL

CHLD

	ADVE	LIVER	TOT-BODY	THYROID	KIDNEY	LUNG	GI-LLI
M	0.15E-03	0.22E-03	0.11E-03	0.72E-01	0.36E-03	0.00E 00	0.21E-04
MNE	0.13E-03	0.12E-03	0.71E-04	0.39E-01	0.19E-03	0.00E 00	0.11E-04
ME	0.29E-03	0.21E-03	0.14E-03	0.68E-01	0.34E-03	0.00E 00	0.21E-04
ONE	0.40E-04	0.65E-04	0.41E-04	0.22E-01	0.11E-03	0.00E 00	0.63E-05
E	0.16E-03	0.23E-03	0.13E-03	0.72E-01	0.36E-03	0.00E 00	0.20E-04
SEE	0.29E-03	0.20E-03	0.12E-03	0.67E-01	0.33E-03	0.00E 00	0.20E-04
SE	0.16E-03	0.21E-03	0.14E-03	0.73E-01	0.16E-03	0.00E 00	0.22E-04
SEE	0.11E-03	0.75E-04	0.36E-04	0.23E-01	0.10E-03	0.00E 00	0.76E-05
E	0.26E-03	0.19E-03	0.12E-03	0.39E-01	0.29E-03	0.00E 00	0.18E-04
SEM	0.23E-03	0.19E-03	0.11E-03	0.61E-01	0.30E-03	0.00E 00	0.19E-04
EM	0.14E-03	0.94E-04	0.63E-04	0.32E-01	0.16E-03	0.00E 00	0.98E-05
MEM	0.90E-04	0.59E-04	0.44E-04	0.23E-01	0.11E-03	0.00E 00	0.67E-05
M	0.14E-04	0.34E-04	0.16E-04	0.79E-02	0.39E-04	0.00E 00	0.24E-05
MINI	0.57E-04	0.48E-04	0.29E-04	0.13E-01	0.76E-04	0.00E 00	0.44E-05
MI	0.30E-04	0.37E-04	0.23E-04	0.12E-01	0.57E-04	0.00E 00	0.35E-05
MINI	0.96E-04	0.76E-04	0.49E-04	0.26E-01	0.13E-03	0.00E 00	0.75E-05

TABLE 5-2 (cont.)

CALCULATED DOSES (MREM) - TOTAL FOR INHALATION AND CONSUMPTION

MAXIMUM INDIVIDUAL

INFT

	SKIN	LIVER	TOT-BODY	THYROID	KIDNEY	LUNG	GI-LLI
N	0.24E-03	0.13E-03	0.12E-03	0.91E-01	0.32E-01	0.00E 00	0.99E-05
NNE	0.82E-04	0.35E-04	0.42E-04	0.71E-01	0.11E-02	0.00E 00	0.34E-05
NE	0.12E-05	0.14E-05	0.64E-06	0.43E-03	0.17E-05	0.00E 00	0.34E-07
ENE	0.69E-04	0.91E-04	0.26E-04	0.27E-01	0.95E-04	0.00E 00	0.29E-05
E	0.23E-03	0.39E-03	0.12E-03	0.51E-01	0.32E-01	0.00E 00	0.98E-05
ESE	0.24E-05	0.24E-05	0.12E-05	0.92E-03	0.32E-05	0.00E 00	0.66E-07
SE	0.69E-04	0.64E-04	0.35E-04	0.26E-01	0.91E-04	0.00E 00	0.28E-05
SEE	0.32E-06	0.17E-06	0.16E-06	0.12E-03	0.44E-06	0.00E 00	0.89E-08
S	0.11E-05	0.13E-05	0.55E-06	0.41E-03	0.14E-05	0.00E 00	0.29E-07
SEM	0.94E-04	0.93E-04	0.44E-04	0.71E-01	0.12E-01	0.00E 00	0.35E-05
SN	0.14E-06	0.57E-06	0.33E-06	0.17E-03	0.60E-06	0.00E 00	0.12E-07
MSN	0.43E-04	0.70E-04	0.22E-04	0.15E-01	0.59E-04	0.00E 00	0.18E-05
M	0.32E-06	0.36E-06	0.17E-06	0.13E-03	0.44E-06	0.00E 00	0.90E-08
MNM	0.13E-04	0.57E-04	0.23E-04	0.17E-01	0.62E-04	0.00E 00	0.19E-05
NM	0.49E-06	0.47E-06	0.21E-06	0.15E-03	0.55E-06	0.00E 00	0.11E-07
MNM	0.36E-04	0.19E-04	0.44E-04	0.72E-01	0.12E-01	0.00E 00	0.36E-05

TABLE 5-3

	ADIP	BLAD	TOT-BLOV	TH-ROTO	KIDNEY	LUNG	GI-LLI
ADIP	0.14E+02	0.17E+02	0.20E+02	0.24E+02	0.23E+02	0.23E+02	0.23E+02
BLAD	0.11E+02	0.14E+02	0.13E+02	0.13E+02	0.13E+02	0.13E+02	0.13E+02
BLAD	0.11E+02	0.13E+02	0.13E+02	0.20E+02	0.13E+02	0.13E+02	0.13E+02
BLAD	0.20E+01	0.10E+01	0.10E+01	0.21E+01	0.11E+01	0.12E+01	0.12E+01
BLAD	0.24E+02	0.27E+02	0.24E+02	0.47E+02	0.26E+02	0.26E+02	0.26E+02
BLAD	0.10E+04	0.33E+01	0.34E+01	0.34E+01	0.36E+01	0.38E+01	0.38E+01
BLAD	0.33E+01	0.34E+01	0.34E+01	0.11E+02	0.66E+01	0.66E+01	0.66E+01
BLAD	0.10E+01	0.10E+01	0.20E+02	0.10E+02	0.13E+02	0.13E+02	0.13E+02
BLAD	0.10E+01	0.20E+02	0.20E+02	0.14E+01	0.14E+02	0.84E+02	0.84E+02
BLAD	0.11E+02	0.10E+02	0.44E+02	0.51E+02	0.48E+02	0.48E+02	0.48E+02
BLAD	0.11E+02	0.11E+02	0.21E+02	0.34E+02	0.31E+02	0.31E+02	0.31E+02
BLAD	0.10E+04	0.10E+01	0.14E+01	0.91E+01	0.49E+01	0.49E+01	0.49E+01
BLAD	0.14E+04	0.10E+01	0.10E+01	0.38E+01	0.35E+01	0.35E+01	0.35E+01
BLAD	0.11E+04	0.10E+01	0.50E+01	0.66E+01	0.50E+01	0.50E+01	0.50E+01
BLAD	0.10E+04	0.10E+01	0.66E+01	0.11E+02	0.66E+01	0.66E+01	0.66E+01
BLAD	0.10E+01	0.10E+01	0.10E+02	0.10E+02	0.10E+02	0.10E+02	0.10E+02

TABLE 5-3 (cont)

CALCULATED FREE KIDNEY - TOTAL FOR EXCRETION AND CONSUMPTION

MINIMUM INDIVIDUAL

TEEN

	LINE	LT-KID	TOT-BODY	THYROID	KIDNEY	LUNG	GI-LLI
N	0.14E-02	0.14E-04	0.26E-00	0.40E-00	0.27E-00	0.26E-00	0.26E-00
NNE	0.13E-01	0.17E-00	0.13E-01	0.14E-00	0.13E-00	0.13E-00	0.15E-00
NE	0.20E-01	0.20E-00	0.17E-00	0.13E-00	0.17E-00	0.17E-00	0.17E-00
ENE	0.22E-04	0.14E-01	0.14E-01	0.31E-01	0.14E-01	0.14E-01	0.14E-01
E	0.37E-03	0.31E-00	0.31E-00	0.31E-00	0.31E-00	0.31E-00	0.31E-00
EE	0.13E-04	0.67E-01	0.67E-01	0.69E-01	0.67E-01	0.67E-01	0.67E-01
EE	0.91E-04	0.74E-01	0.74E-01	0.11E-00	0.74E-01	0.74E-01	0.74E-01
EEE	0.15E-02	0.14E-00	0.14E-00	0.20E-00	0.14E-00	0.14E-00	0.14E-00
E	0.11E-02	0.94E-00	0.94E-00	0.14E-01	0.94E-00	0.94E-00	0.94E-00
EEU	0.74E-01	0.55E-00	0.55E-00	0.65E-00	0.55E-00	0.55E-00	0.55E-00
EU	0.43E-03	0.34E-00	0.34E-00	0.70E-00	0.34E-00	0.34E-00	0.34E-00
MEW	0.77E-04	0.55E-01	0.55E-01	0.65E-01	0.55E-01	0.55E-01	0.55E-01
W	0.47E-04	0.40E-01	0.40E-01	0.39E-01	0.40E-01	0.40E-01	0.40E-01
WNM	0.97E-04	0.58E-01	0.58E-01	0.97E-01	0.58E-01	0.58E-01	0.58E-01
NM	0.60E-04	0.77E-01	0.77E-01	0.41E-00	0.77E-01	0.77E-01	0.77E-01
NNM	0.20E-02	0.12E-00	0.12E-00	0.20E-00	0.12E-00	0.12E-00	0.12E-00

TABLE 5-3 (cont)

TABLE 5-3 (cont) - TOTAL FOR INHALATION AND CONSUMPTION

MAXIMUM INDIVIDUAL

CHILD

	BONE	LIVER	TOI-BODY	THYROID	KIDNEY	LUNG	GI-LLI
N	0.34E-03	0.40E-00	0.40E-00	0.71E-00	0.40E-00	0.40E-00	0.40E-00
NE	0.46E-03	0.23E-00	0.23E-00	0.39E-00	0.23E-00	0.23E-00	0.23E-00
ME	0.37E-03	0.26E-00	0.26E-00	0.39E-00	0.26E-00	0.26E-00	0.26E-00
ONE	0.44E-04	0.22E-01	0.22E-01	0.38E-01	0.22E-01	0.22E-01	0.22E-01
E	0.12E-02	0.48E-00	0.48E-00	0.36E-00	0.48E-00	0.47E-00	0.48E-00
EE	0.13E-03	0.10E-00	0.10E-00	0.13E-00	0.10E-00	0.10E-00	0.10E-00
SE	0.14E-03	0.11E-00	0.11E-00	0.17E-00	0.11E-00	0.11E-00	0.11E-00
SEE	0.20E-03	0.21E-00	0.21E-00	0.30E-00	0.21E-00	0.21E-00	0.21E-00
T	0.38E-03	0.25E-01	0.15E-01	0.21E-01	0.15E-01	0.14E-01	0.14E-01
TEW	0.13E-03	0.36E-00	0.36E-00	0.13E-01	0.36E-00	0.36E-00	0.36E-00
EV	0.74E-03	0.33E-00	0.33E-00	0.77E-00	0.33E-00	0.33E-00	0.33E-00
NEW	0.13E-03	0.34E-01	0.34E-01	0.13E-00	0.33E-01	0.34E-01	0.34E-01
W	0.38E-04	0.62E-01	0.62E-01	0.31E-01	0.62E-01	0.62E-01	0.62E-01
WNW	0.20E-03	0.90E-01	0.90E-01	0.16E-00	0.91E-01	0.90E-01	0.90E-01
WN	0.17E-03	0.12E-00	0.12E-00	0.17E-00	0.12E-00	0.12E-00	0.12E-00
WNW	0.43E-03	0.18E-00	0.18E-00	0.32E-00	0.18E-00	0.18E-00	0.18E-00

TABLE 5-3 (cont)

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TABLE 5-4

NAME: _____ ID NO: _____

2517

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TABLE 5-4 (cont)

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

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TABLE 5-4 (cont)

WINTER OF 1991-1992

FIELD

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TABLE 5-4 (cont)

NAME OF THE INDIVIDUAL

TNET

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TABLE 5-5

251

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TABLE 5-5 (cont)

TABLE 5-5 (cont) - DATA FOR INHALATION AND CONSUMPTION								
PART 1 - CYCLOHEXANE								
100%	5	1	TOT-200	THYROID	KIDNEY	LUNG	GI-LLI	
100%	0.98E-06	0	0.98E-01	0.10E-01	0.98E-02	0.98E-02	0.98E-02	0.98E-02
100%	0.64E-06	0	0.64E-01	0.06E-01	0.64E-02	0.64E-02	0.64E-02	0.64E-02
100%	0.15E-06	0	0.15E-01	0.15E-01	0.15E-01	0.15E-01	0.15E-01	0.15E-01
100%	0.34E-06	0	0.34E-01	0.10E-01	0.34E-02	0.34E-02	0.34E-02	0.34E-02
100%	0.95E-06	0	0.95E-01	0.10E-01	0.95E-02	0.95E-02	0.95E-02	0.95E-02
100%	0.15E-06	0	0.15E-01	0.15E-01	0.15E-01	0.15E-01	0.15E-01	0.15E-01
100%	0.15E-06	0	0.15E-01	0.15E-01	0.15E-01	0.15E-01	0.15E-01	0.15E-01
100%	0.59E-06	0	0.59E-01	0.06E-01	0.59E-02	0.59E-02	0.59E-02	0.59E-02
100%	0.13E-06	0	0.13E-01	0.13E-01	0.13E-01	0.13E-01	0.13E-01	0.13E-01
100%	0.11E-06	0	0.11E-01	0.11E-01	0.11E-01	0.11E-01	0.11E-01	0.11E-01
100%	0.73E-06	0	0.73E-01	0.73E-02	0.73E-02	0.73E-02	0.73E-02	0.73E-02
100%	0.40E-06	0	0.40E-01	0.40E-02	0.40E-02	0.40E-02	0.40E-02	0.40E-02
100%	0.18E-07	0	0.18E-01	0.18E-02	0.18E-02	0.18E-02	0.18E-02	0.18E-02
100%	0.21E-06	0	0.21E-01	0.21E-02	0.21E-02	0.21E-02	0.21E-02	0.21E-02
100%	0.26E-06	0	0.26E-01	0.26E-02	0.26E-02	0.26E-02	0.26E-02	0.26E-02
100%	0.36E-06	0	0.36E-01	0.36E-02	0.36E-02	0.36E-02	0.36E-02	0.36E-02

TABLE 5-5 (cont)

ALLOCATION OF THE CASE NO. 1 TOTAL FOR IRRADIATION AND CONSUMPTION

CASE NO. 1 (1000)

FIELD

	E	THYROID	TOX-250	THYROID	KIDNEY	LUNG	GI-LLI
	0.17E-01	0.17E-01	0.17E-01	0.16E-01	0.15E-01	0.15E-01	0.15E-01
1000	0.41E-02	0.41E-02	0.41E-02	0.10E-01	0.98E-02	0.98E-02	0.98E-02
100	0.17E-02	0.17E-02	0.17E-02	0.24E-01	0.24E-01	0.24E-01	0.24E-01
500	0.31E-02	0.31E-02	0.31E-02	0.31E-02	0.31E-02	0.31E-02	0.31E-02
5	0.17E-03	0.17E-03	0.17E-03	0.15E-01	0.15E-01	0.15E-01	0.15E-01
5000	0.17E-01	0.17E-01	0.17E-01	0.21E-01	0.21E-01	0.21E-01	0.21E-01
50	0.17E-02	0.17E-02	0.17E-02	0.21E-01	0.21E-01	0.21E-01	0.21E-01
50000	0.21E-02	0.21E-02	0.21E-02	0.41E-02	0.39E-02	0.39E-02	0.39E-02
5	0.17E-03	0.17E-03	0.17E-03	0.21E-01	0.21E-01	0.21E-01	0.21E-01
5000	0.17E-02	0.17E-02	0.17E-02	0.18E-01	0.18E-01	0.18E-01	0.18E-01
500	0.17E-02	0.17E-02	0.17E-02	0.12E-01	0.11E-01	0.11E-01	0.11E-01
10000	0.21E-02	0.21E-02	0.21E-02	0.64E-02	0.62E-02	0.62E-02	0.62E-02
5	0.17E-03	0.17E-03	0.17E-03	0.27E-02	0.26E-02	0.27E-02	0.27E-02
10000	0.17E-02	0.17E-02	0.17E-02	0.33E-02	0.33E-02	0.33E-02	0.33E-02
100	0.17E-02	0.17E-02	0.17E-02	0.40E-02	0.40E-02	0.40E-02	0.40E-02
10000	0.17E-02	0.17E-02	0.17E-02	0.57E-02	0.57E-02	0.55E-02	0.55E-02

TABLE 3-5 (cont)

TABLE 3-5 (cont) - TOTAL FOR INHALATION AND CONSUMPTION

PER INDIVIDUAL

INBT

	SKIN	RESPIRATORY	TOT-BOB	THYROID	KIDNEY	LUNG	GI-LLI
Y	0.12E-05	0.12E-05	0.12E-05	0.33E-02	0.46E-02	0.46E-02	0.46E-02
ME	0.44E-06	0.44E-06	0.44E-06	0.19E-02	0.16E-02	0.16E-02	0.16E-02
SE	0.44E-09	0.44E-09	0.44E-09	0.32E-05	0.13E-07	0.00E 00	0.26E-09
ENE	0.58E-04	0.58E-04	0.58E-04	0.10E-02	0.23E-02	0.23E-02	0.23E-02
E	0.14E-05	0.14E-05	0.14E-05	0.33E-02	0.46E-02	0.46E-02	0.46E-02
EE	0.18E-07	0.18E-07	0.18E-07	0.70E-05	0.25E-07	0.00E 00	0.50E-09
SE	0.58E-06	0.58E-06	0.58E-06	0.24E-02	0.22E-02	0.22E-02	0.22E-02
SEE	0.54E-09	0.54E-09	0.54E-09	0.95E-06	0.33E-08	0.00E 00	0.63E-10
E	0.51E-09	0.51E-09	0.51E-09	0.12E-05	0.11E-07	0.00E 00	0.23E-09
SEH	0.49E-04	0.49E-04	0.49E-04	0.19E-02	0.16E-02	0.16E-02	0.16E-02
EH	0.71E-10	0.71E-10	0.71E-10	0.13E-05	0.46E-08	0.00E 00	0.94E-10
ESH	0.35E-04	0.35E-04	0.35E-04	0.97E-02	0.83E-03	0.83E-03	0.83E-03
H	0.23E-08	0.23E-08	0.23E-08	0.97E-06	0.34E-08	0.00E 00	0.69E-10
ESH	0.27E-06	0.27E-06	0.27E-06	0.16E-02	0.87E-03	0.87E-03	0.87E-03
EH	0.11E-09	0.11E-09	0.11E-09	0.12E-05	0.42E-08	0.00E 00	0.66E-10
ESH	0.70E-05	0.70E-05	0.70E-05	0.19E-02	0.17E-02	0.17E-02	0.17E-02

TABLE 6-1
POPULATION EXPOSURES RESULTING FROM
LIQUID EFFLUENT RELEASES

POTABLE WATER	TOTAL-BODY	THYROID
Adult	2.31E-01	2.31E-01
Teen	2.45E-02	2.45E-02
Child	7.70E-02	7.70E-02
AQUATIC FOOD		
Adult	3.14E-04	3.14E-04
Teen	3.70E-05	3.70E-05
Child	4.87E-05	4.87E-05
SHORELINE RECREATION		
Adult	L.T.1.0E-10	L.T.1.0E-10
Teen	L.T.1.0E-10	L.T.1.0E-10
Child	L.T.1.0E-10	L.T.1.0E-10
CONTAMINATED FOODS		
Adult	1.25E-09	1.25E-09
Teen	1.21E-09	1.21E-09
Child	2.38E-10	2.38E-10
Total	3.33E-01 (MAN-REM)	3.3E-01 (MAN_THYROID-REM)

TABLE 6-2

POPULATION EXPOSURES RESULTING FROM
LIQUID EFFLUENT RELEASES

POTABLE WATER	TOTAL-BODY	THYROID
Adult	2.79E-01	2.79E-01
Teen	3.00E-02	3.00E-02
Child	9.23E-02	9.23E-02
AQUATIC FOOD		
Adult	5.88E-04	5.88E-04
Teen	7.29E-05	7.29E-05
Child	9.74E-05	9.74E-05
SHORELINE RECREATION		
Adult	L.T.1.0E-10	L.T.1.0E-10
Teen	L.T.1.0E-10	L.T.1.0E-10
Child	L.T.1.0E-10	L.T.1.0E-10
CONTAMINATED FOODS		
Adult	9.06E-10	9.06E-10
Teen	L.T.1.00E-10	L.T.1.00E-10
Child	1.66E-10	1.66E-10
	<hr/>	<hr/>
Total	4.02E-01 (MAN-REM)	4.02E-01 (MAN-THYROID-REM)

TABLE 7-1

SECTION 7-1: AVERAGE EXPOSURES
TOTAL-1 IN CREM

AVERAGE EXPOSURES X POPULATION DISTRIBUTION
BY DIRECTION AND DISTANCE

	0-1	1-2	2-3	3-4	4-5
N	0.000000	0.28E-03	0.65E-03	0.27E-03	0.28E-03
NNE	0.000000	0.72E-04	0.31E-03	0.66E-03	0.26E-03
NE	0.000000	0.00E-00	0.13E-03	0.13E-03	0.25E-04
ENE	0.000000	0.00E-00	0.18E-03	0.19E-04	0.31E-04
E	0.000000	0.00E-00	0.92E-04	0.37E-04	0.91E-05
ESE	0.000000	0.58E-04	0.00E-00	0.18E-04	0.92E-04
SE	0.000000	0.44E-04	0.14E-04	0.44E-05	0.90E-05
SSE	0.000000	0.23E-04	0.17E-04	0.27E-04	0.24E-05
S	0.000000	0.28E-04	0.34E-04	0.65E-05	0.20E-04
SSW	0.000000	0.25E-04	0.00E-00	0.29E-04	0.36E-04
SW	0.000000	0.37E-04	0.24E-04	0.34E-04	0.18E-04
WSW	0.000000	0.81E-04	0.91E-05	0.65E-05	0.22E-04
W	0.000000	0.16E-04	0.77E-05	0.48E-05	0.84E-05
WNW	0.000000	0.11E-04	0.36E-04	0.22E-04	0.63E-05
NW	0.000000	0.21E-04	0.29E-04	0.00E-00	0.49E-05
NNW	0.000000	0.23E-04	0.39E-04	0.24E-04	0.14E-04

TABLE 7-] (cont.)

CHLOROPHYLL-A GASE EXPOSURE-25
TOTAL-BODY (REM)

AVERAGE EXPOSURE / POPULATION DISTRIBUTION
BY DIRECTION AND DISTANCE

	0-10	10-20	20-30	30-40	40-50
N	0.43E-03	0.38E-03	0.49E-03	0.76E-03	0.16E-02
NNE	0.69E-03	0.12E-03	0.11E-03	0.19E-02	0.43E-02
NE	0.74E-03	0.10E-02	0.50E-02	0.11E-02	0.37E-02
ENE	0.23E-02	0.24E-02	0.47E-02	0.21E-03	0.30E-03
E	0.46E-03	0.66E-03	0.60E-03	0.37E-03	0.52E-03
ESE	0.74E-03	0.44E-03	0.45E-03	0.20E-03	0.26E-03
SE	0.12E-02	0.44E-03	0.10E-02	0.18E-02	0.15E-02
SSE	0.12E-03	0.21E-03	0.20E-02	0.89E-02	0.26E-02
S	0.14E-03	0.17E-03	0.42E-03	0.30E-03	0.17E-03
SSW	0.14E-03	0.24E-03	0.26E-03	0.12E-03	0.10E-03
SW	0.14E-03	0.26E-03	0.12E-03	0.03E-04	0.10E-03
WSW	0.21E-03	0.16E-03	0.12E-03	0.96E-04	0.77E-04
W	0.70E-04	0.26E-03	0.12E-03	0.10E-02	0.30E-03
WNW	0.10E-03	0.12E-03	0.23E-03	0.16E-03	0.15E-03
NW	0.16E-03	0.15E-03	0.30E-03	0.16E-03	0.11E-03
NNW	0.20E-03	0.27E-03	0.29E-03	0.78E-03	0.16E-03

TOTAL 0.73E-01 REM

TABLE 7-2

POPULATION AVERAGE GAS EXPOSURES
TOTAL-SUMMER (PERY)

AVERAGE EXPOSURES BY POPULATION DISTRIBUTION

BY DIRECTION AND DISTANCE

	0-1	1-2	2-3	3-4	4-5
N	0.07E-04	0.29E-04	0.58E-04	0.28E-04	0.29E-04
NNE	0.09E-04	0.46E-04	0.29E-04	0.50E-04	0.24E-04
NE	0.04E-04	0.66E-04	0.13E-04	0.13E-04	0.26E-05
NNE	0.05E-04	0.68E-04	0.26E-04	0.21E-05	0.37E-05
E	0.01E-04	0.68E-04	0.13E-04	0.91E-05	0.15E-05
ENE	0.04E-04	0.23E-04	0.66E-04	0.73E-05	0.39E-04
SE	0.07E-04	0.16E-04	0.52E-05	0.16E-05	0.24E-05
ESE	0.09E-04	0.40E-05	0.29E-05	0.46E-05	0.42E-06
S	0.04E-04	0.46E-05	0.59E-05	0.15E-05	0.36E-05
SEN	0.05E-04	0.36E-05	0.66E-04	0.46E-05	0.58E-05
SSE	0.06E-04	0.54E-05	0.37E-05	0.50E-05	0.27E-05
WSN	0.06E-04	0.93E-05	0.16E-05	0.95E-06	0.26E-05
W	0.02E-04	0.30E-05	0.13E-05	0.92E-06	0.16E-05
WNW	0.03E-04	0.26E-05	0.67E-05	0.42E-05	0.12E-05
NW	0.02E-04	0.34E-05	0.47E-05	0.68E-05	0.81E-06
NNW	0.02E-04	0.38E-05	0.97E-05	0.39E-05	0.23E-05

TABLE 7-2(cont.)

POPULATION WEIGHTED AVE EXPOSURES
TOTAL-400+ (REM)

AVERAGE EXPOSURE X POPULATION DISTRIBUTION
BY DIRECTION AND DISTANCE

	0-10	10-20	20-30	30-40	40-50
N	0.55E-04	0.54E-04	0.55E-04	0.59E-04	0.19E-03
NNE	0.44E-04	0.11E-03	0.99E-04	0.19E-03	0.42E-03
NE	0.27E-04	0.11E-03	0.54E-03	0.11E-03	0.41E-03
NNE	0.25E-04	0.40E-04	0.54E-04	0.25E-04	0.13E-04
E	0.73E-04	0.11E-03	0.19E-03	0.60E-04	0.91E-04
ESE	0.13E-03	0.22E-03	0.22E-03	0.19E-03	0.13E-03
SE	0.45E-04	0.19E-03	0.44E-03	0.94E-03	0.69E-03
ESE	0.22E-04	0.59E-04	0.19E-03	0.19E-03	0.71E-03
S	0.24E-04	0.29E-04	0.72E-04	0.59E-04	0.29E-04
SSW	0.23E-04	0.29E-04	0.42E-04	0.19E-04	0.17E-04
SW	0.24E-04	0.22E-04	0.19E-04	0.14E-04	0.16E-04
WSW	0.24E-04	0.19E-04	0.14E-04	0.11E-04	0.98E-05
W	0.14E-04	0.48E-04	0.24E-04	0.32E-03	0.65E-04
WNW	0.26E-04	0.27E-04	0.49E-04	0.36E-04	0.25E-04
NW	0.23E-04	0.27E-04	0.56E-04	0.21E-04	0.21E-04
NNW	0.55E-04	0.49E-04	0.54E-04	0.19E-03	0.21E-04
TOTAL	0.11E-01 REM				

	0-1	1-2	2-3	3-4	4-5
0	0.000	0.000-00	0.000-00	0.000-00	0.000-00
10	0.000	0.000-00	0.000-00	0.000-00	0.000-00
20	0.000	0.000-00	0.000-00	0.000-00	0.000-00
30	0.000	0.000-00	0.000-00	0.000-00	0.000-00
40	0.000	0.000-00	0.000-00	0.000-00	0.000-00
50	0.000	0.000-00	0.000-00	0.000-00	0.000-00
60	0.000	0.000-00	0.000-00	0.000-00	0.000-00
70	0.000	0.000-00	0.000-00	0.000-00	0.000-00
80	0.000	0.000-00	0.000-00	0.000-00	0.000-00
90	0.000	0.000-00	0.000-00	0.000-00	0.000-00
100	0.000	0.000-00	0.000-00	0.000-00	0.000-00

TABLE 7-3 (cont)

		LATITUDE DISTRIBUTION				
		OF AIRCRAFT				
		10-15	16-20	20-40	40-50	
W	0.11E-02	0.77E-02	0.88E-02	0.90E-02	0.20E-02	
40E	0.11E-02	0.27E-02	0.13E-02	0.26E-02	0.63E-02	
4E	0.13E-02	0.77E-02	0.18E-02	0.64E-02	0.36E-02	
90E	0.14E-02	0.11E-02	0.15E-02	0.18E-02	0.98E-04	
E	0.15E-02	0.14E-02	0.17E-02	0.84E-02	0.13E-02	
130E	0.15E-02	0.13E-02	0.13E-02	0.66E-04	0.86E-04	
8E	0.14E-04	0.22E-02	0.28E-02	0.03E-02	0.43E-03	
130E	0.17E-02	0.27E-02	0.18E-02	0.71E-02	0.11E-02	
9	0.16E-02	0.18E-02	0.90E-02	0.68E-02	0.26E-03	
130E	0.14E-02	0.22E-02	0.13E-02	0.14E-02	0.14E-03	
10	0.16E-02	0.14E-02	0.14E-02	0.15E-02	0.13E-03	
130E	0.17E-02	0.22E-02	0.14E-02	0.26E-04	0.29E-04	
11	0.17E-02	0.14E-02	0.60E-04	0.10E-02	0.21E-03	
130E	0.17E-04	0.85E-02	0.86E-04	0.89E-04	0.55E-04	
130E	0.16E-02	0.87E-02	0.19E-02	0.18E-03	0.69E-04	
130E	0.16E-02	0.08E-02	0.18E-02	0.62E-02	0.17E-03	
TOTAL	0.41E-01	0.81E-01	0.81E-01	0.81E-01	0.81E-01	

TABLE 7-4

POPULATION TALE GAS EXPOSURES
 FACILITY-BODY TREND

AVERAGE EXPOSURES & POPULATION DISTRIBUTION
 BY DIRECTION AND DISTANCE

	0-1	1-2	2-3	3-4	4-5
N	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NNE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ENE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
E	0.00E+00	0.00E+00	0.74E-07	0.46E-07	0.74E-08
ESE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SE	0.00E+00	0.41E-07	0.13E-07	0.42E-08	0.88E-08
SSE	0.00E+00	0.11E-07	0.77E-08	0.12E-07	0.11E-08
S	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SSW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
WSW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
WNW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NNW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 7-4 (cont)

POPULATION DOSE CPS EXPOSURES
TOTAL-BOUY (REM)

AVERAGE EXPOSURES : POPULATION DISTRIBUTION
BY DIRECTION AND DISTANCE

	0-10	10-20	20-30	30-40	40-50
N	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NNE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ENE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
E	0.00E+00	0.40E-05	0.40E-05	0.24E-05	0.24E-05
ESE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SE	0.00E+00	0.41E-05	0.20E-05	0.17E-05	0.14E-05
SSE	0.00E+00	0.10E-05	0.26E-05	0.19E-05	0.18E-05
S	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SSW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
WSW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
WNW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NNW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL 0.11E-04 REM

TABLE 7-5

POPULATION DISTRIBUTION
TOTAL = 1.00E+00

POPULATION DISTRIBUTION

BY DIRECTION AND DISTANCE

	0-1	1-2	2-3	3-4	4-5
N	0.00E+00	0.10E-01	0.24E-04	0.10E-04	0.10E-04
NE	0.00E+00	0.27E-04	0.10E-04	0.11E-04	0.00E-05
E	0.00E+00	0.00E+00	0.46E-05	0.46E-05	0.91E-06
SE	0.00E+00	0.00E+00	0.70E-05	0.71E-05	0.12E-05
S	0.00E+00	0.00E+00	0.51E-05	0.51E-05	0.51E-05
SW	0.00E+00	0.07E-05	0.00E+00	0.26E-05	0.14E-04
W	0.00E+00	0.54E-05	0.10E-05	0.07E-05	0.12E-05
WNW	0.00E+00	0.10E-05	0.10E-05	0.10E-05	0.15E-06
W	0.00E+00	0.17E-05	0.21E-05	0.31E-05	0.13E-05
WNW	0.00E+00	0.14E-05	0.00E+00	0.16E-05	0.20E-05
SW	0.00E+00	0.10E-05	0.12E-05	0.10E-05	0.95E-06
WNW	0.00E+00	0.32E-05	0.36E-05	0.14E-05	0.90E-06
W	0.00E+00	0.11E-05	0.52E-06	0.32E-06	0.56E-06
WNW	0.00E+00	0.69E-05	0.24E-05	0.15E-05	0.44E-06
W	0.00E+00	0.12E-05	0.17E-05	0.00E+00	0.29E-06
WNW	0.00E+00	0.11E-05	0.34E-05	0.14E-05	0.01E-06

TABLE 7-5 (cont)

FOR THE 1970-1971 YEAR
TOTAL = 100% (REM)

AVERAGE 8-1000000 POPULATION DISTRIBUTION
BY DIRECTION AND DISTANCE

	5-10	10-20	20-30	30-40	40-50
N	0.11E-04	0.19E-04	0.19E-04	0.31E-04	0.65E-04
NNE	0.11E-04	0.19E-04	0.35E-04	0.62E-04	0.15E-03
NE	0.13E-04	0.33E-04	0.19E-03	0.48E-04	0.14E-03
ENE	0.90E-05	0.10E-04	0.19E-04	0.13E-04	0.12E-04
E	0.17E-04	0.39E-04	0.37E-04	0.23E-04	0.32E-04
ESE	0.54E-04	0.76E-04	0.79E-04	0.37E-04	0.48E-04
SE	0.16E-04	0.65E-04	0.15E-03	0.29E-03	0.14E-03
SSE	0.76E-05	0.20E-04	0.14E-03	0.55E-03	0.13E-03
S	0.95E-05	0.11E-04	0.13E-04	0.18E-04	0.10E-04
SSW	0.11E-05	0.14E-04	0.15E-04	0.68E-05	0.61E-05
SW	0.73E-05	0.11E-04	0.64E-05	0.48E-05	0.58E-05
WSW	0.93E-05	0.64E-05	0.48E-05	0.38E-05	0.31E-05
W	0.48E-05	0.14E-04	0.86E-05	0.11E-03	0.23E-04
WNW	0.71E-05	0.96E-05	0.17E-04	0.13E-04	0.12E-04
NN	0.93E-05	0.94E-05	0.20E-04	0.11E-04	0.72E-05
NNW	0.12E-04	0.17E-04	0.19E-04	0.53E-04	0.11E-04
TOTAL	0.39E-02	REM			

TABLE 8-1

3. DIRECTION AND DISTANCE

	0-1	1-2	2-3	3-4	4-5
N	0. 21E-06	0. 13E-05	0. 27E-05	0. 11E-05	0. 96E-06
NNE	0. 07E-07	0. 30E-06	0. 11E-05	0. 23E-05	0. 82E-06
NE	0. 53E-06	0. 06E-06	0. 44E-06	0. 41E-06	0. 74E-07
ENE	0. 80E-06	0. 06E-06	0. 32E-06	0. 52E-07	0. 81E-07
E	0. 07E-06	0. 00E-06	0. 24E-06	0. 14E-06	0. 20E-07
ESE	0. 00E-06	0. 24E-06	0. 00E-06	0. 60E-07	0. 26E-06
SE	0. 20E-06	0. 22E-06	0. 64E-07	0. 19E-07	0. 36E-07
SSE	0. 21E-06	0. 17E-06	0. 11E-06	0. 17E-06	0. 14E-07
S	0. 00E-06	0. 22E-06	0. 22E-06	0. 56E-07	0. 12E-06
SSW	0. 60E-06	0. 17E-06	0. 00E-06	0. 26E-06	0. 18E-06
SW	0. 01E-06	0. 26E-06	0. 14E-06	0. 20E-06	0. 95E-07
WSW	0. 34E-06	0. 52E-06	0. 50E-07	0. 45E-07	0. 11E-06
W	0. 00E-06	0. 11E-06	0. 46E-07	0. 27E-07	0. 43E-07
WNW	0. 00E-06	0. 74E-07	0. 22E-06	0. 13E-06	0. 35E-07
NW	0. 00E-06	0. 12E-06	0. 16E-06	0. 00E-06	0. 24E-07
NNW	0. 00E-06	0. 12E-06	0. 26E-06	0. 10E-06	0. 53E-07

TABLE 8-1 (cont.)

GROUND-WATER TROUGH-FLARE EXPOSURES
TOTAL-BODY (REM)
AVERAGE EXPOSURES & POPULATION DISTRIBUTION
BY DIRECTION AND DISTANCE

	0-10	10-20	20-30	30-40	40-50
N	0.13E-05	0.93E-06	0.64E-06	0.74E-06	0.13E-05
NE	0.13E-05	0.20E-05	0.12E-05	0.16E-05	0.10E-05
E	0.76E-06	0.16E-05	0.50E-05	0.84E-06	0.24E-05
ENE	0.41E-06	0.40E-06	0.41E-06	0.20E-06	0.16E-06
E	0.72E-06	0.71E-06	0.45E-06	0.20E-06	0.23E-06
ESE	0.77E-06	0.77E-06	0.49E-06	0.16E-06	0.17E-06
SE	0.14E-06	0.94E-06	0.15E-06	0.20E-05	0.13E-05
SEE	0.37E-06	0.10E-05	0.48E-06	0.14E-04	0.52E-05
S	0.31E-06	0.36E-06	0.96E-06	0.32E-06	0.24E-06
SSW	0.37E-06	0.60E-06	0.52E-06	0.18E-06	0.11E-06
SW	0.58E-06	0.62E-06	0.25E-06	0.14E-06	0.14E-06
WSW	0.74E-06	0.43E-06	0.23E-06	0.14E-06	0.89E-07
W	0.20E-06	0.55E-06	0.23E-06	0.21E-05	0.35E-06
WNW	0.41E-06	0.39E-06	0.40E-06	0.25E-06	0.20E-06
NW	0.39E-06	0.41E-06	0.38E-06	0.23E-06	0.13E-06
NNW	0.37E-06	0.58E-06	0.42E-06	0.84E-06	0.14E-06

TOTAL 0.13E-05 REM

TABLE 8-2

GROUND-WATER EXPOSURE
TOTAL-500' DEEP

AVERAGE EXPOSURES : POPULATION DISTRIBUTION

BY DIRECTION AND DISTANCE

	0-1	1-2	2-3	3-4	4-5
N	0.004-00	0.41E-07	0.82E-07	0.33E-07	0.30E-07
NNE	0.004-00	0.12E-07	0.45E-07	0.90E-07	0.32E-07
NE	0.004-00	0.80E-00	0.20E-07	0.19E-07	0.34E-08
ENE	0.004-00	0.00E-00	0.24E-07	0.24E-08	0.37E-08
E	0.004-00	0.00E-00	0.15E-07	0.88E-08	0.13E-08
ESE	0.004-00	0.28E-07	0.00E-00	0.70E-08	0.33E-07
SE	0.004-00	0.21E-07	0.59E-08	0.17E-08	0.33E-08
SEE	0.004-00	0.11E-07	0.67E-08	0.10E-07	0.64E-09
S	0.004-00	0.14E-07	0.14E-07	0.34E-08	0.75E-08
SSM	0.004-00	0.11E-07	0.00E-00	0.10E-07	0.12E-07
SM	0.004-00	0.13E-07	0.76E-08	0.10E-07	0.50E-08
SSW	0.004-00	0.22E-07	0.21E-08	0.19E-08	0.46E-08
W	0.004-00	0.59E-08	0.23E-08	0.15E-08	0.24E-08
WNW	0.004-00	0.29E-08	0.87E-08	0.52E-08	0.14E-08
WW	0.004-00	0.53E-08	0.64E-08	0.00E-00	0.95E-09
WNW	0.004-00	0.39E-08	0.86E-08	0.34E-08	0.17E-08

Card

2

TABLE 8-2(cont.)

STATION 4710, VENTURA ALONG EXPOSED
TOTAL 4704 (460)

AVERAGE EXPOSED X POPULATION DISTRIBUTION

BY DIRECTION AND DISTANCE

	0-10	10-20	20-30	30-40	40-50
N	0.19E-07	0.23E-07	0.26E-07	0.23E-07	0.36E-07
NNE	0.44E-07	0.77E-07	0.47E-07	0.61E-07	0.12E-06
NE	0.17E-07	0.71E-07	0.25E-06	0.39E-07	0.11E-06
ENE	0.19E-07	0.31E-07	0.20E-07	0.93E-08	0.73E-08
E	0.42E-07	0.40E-07	0.29E-07	0.12E-07	0.14E-07
ESE	0.37E-07	0.63E-07	0.56E-07	0.19E-07	0.20E-07
SE	0.31E-07	0.67E-07	0.14E-06	0.16E-06	0.12E-06
SSE	0.11E-07	0.60E-07	0.29E-06	0.67E-06	0.32E-06
S	0.36E-07	0.35E-07	0.60E-07	0.22E-07	0.14E-07
SSW	0.13E-07	0.40E-07	0.33E-07	0.11E-07	0.61E-08
SW	0.10E-07	0.31E-07	0.13E-07	0.72E-08	0.71E-08
WSW	0.11E-07	0.16E-07	0.97E-08	0.57E-08	0.37E-08
W	0.14E-07	0.36E-07	0.13E-07	0.12E-06	0.19E-07
WNW	0.16E-07	0.16E-07	0.19E-07	0.10E-07	0.77E-08
NW	0.23E-07	0.15E-07	0.23E-07	0.91E-08	0.49E-08
NNW	0.19E-07	0.19E-07	0.14E-07	0.27E-07	0.47E-08
TOTAL	0.53E-06 REM				

TABLE 8-3

S-800-426

2207

POPULATION DISTRIBUTION
 POSITION AND DISTANCE

	0-1	1-2	2-3	3-4	4-5
0.000	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
0.001	0.001-00	0.001-00	0.001-00	0.001-00	0.001-00
0.002	0.002-00	0.002-00	0.002-00	0.002-00	0.002-00
0.003	0.003-00	0.003-00	0.003-00	0.003-00	0.003-00
0.004	0.004-00	0.004-00	0.004-00	0.004-00	0.004-00
0.005	0.005-00	0.005-00	0.005-00	0.005-00	0.005-00
0.006	0.006-00	0.006-00	0.006-00	0.006-00	0.006-00
0.007	0.007-00	0.007-00	0.007-00	0.007-00	0.007-00
0.008	0.008-00	0.008-00	0.008-00	0.008-00	0.008-00
0.009	0.009-00	0.009-00	0.009-00	0.009-00	0.009-00
0.010	0.010-00	0.010-00	0.010-00	0.010-00	0.010-00
0.011	0.011-00	0.011-00	0.011-00	0.011-00	0.011-00
0.012	0.012-00	0.012-00	0.012-00	0.012-00	0.012-00
0.013	0.013-00	0.013-00	0.013-00	0.013-00	0.013-00
0.014	0.014-00	0.014-00	0.014-00	0.014-00	0.014-00
0.015	0.015-00	0.015-00	0.015-00	0.015-00	0.015-00
0.016	0.016-00	0.016-00	0.016-00	0.016-00	0.016-00
0.017	0.017-00	0.017-00	0.017-00	0.017-00	0.017-00
0.018	0.018-00	0.018-00	0.018-00	0.018-00	0.018-00
0.019	0.019-00	0.019-00	0.019-00	0.019-00	0.019-00
0.020	0.020-00	0.020-00	0.020-00	0.020-00	0.020-00
0.021	0.021-00	0.021-00	0.021-00	0.021-00	0.021-00
0.022	0.022-00	0.022-00	0.022-00	0.022-00	0.022-00
0.023	0.023-00	0.023-00	0.023-00	0.023-00	0.023-00
0.024	0.024-00	0.024-00	0.024-00	0.024-00	0.024-00
0.025	0.025-00	0.025-00	0.025-00	0.025-00	0.025-00
0.026	0.026-00	0.026-00	0.026-00	0.026-00	0.026-00
0.027	0.027-00	0.027-00	0.027-00	0.027-00	0.027-00
0.028	0.028-00	0.028-00	0.028-00	0.028-00	0.028-00
0.029	0.029-00	0.029-00	0.029-00	0.029-00	0.029-00
0.030	0.030-00	0.030-00	0.030-00	0.030-00	0.030-00

TABLE 8-3 (cont)

[illegible]

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BY DIRECTION AND DISTANCE

[illegible]

10. *Journal of the American Statistical Association*, 1997, 92, 1033-1046.

	5-10	10-15	20-25	30-40	40-50
M	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ME	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SME	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
S	0.12E-07	0.12E-07	0.73E-06	0.32E-06	0.36E-06
SEE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SE	0.17E-06	0.19E-07	0.16E-07	0.22E-07	0.15E-07
SEE	0.00E+00	0.00E+00	0.40E-07	0.12E-06	0.49E-07
S	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SEM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEIN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
N	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NNIN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NNIN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 8-5

POPULATION GROUND PLANE EXPOSURES
TOTAL-207 (REM)

AVERAGE EXPOSURES X POPULATION DISTRIBUTION
BY DIRECTION AND DISTANCE

	0-1	1-2	2-3	3-4	4-5
N	0.00E+00	0.29E-09	0.60E-09	0.34E-09	0.21E-09
NNE	0.00E+00	0.86E-10	0.32E-09	0.65E-09	0.23E-09
NE	0.00E+00	0.00E+00	0.14E-09	0.14E-09	0.25E-10
ENE	0.00E+00	0.00E+00	0.17E-09	0.17E-10	0.27E-10
E	0.00E+00	0.00E+00	0.11E-09	0.64E-10	0.91E-11
ESE	0.00E+00	0.20E-09	0.00E+00	0.31E-10	0.24E-09
SE	0.00E+00	0.13E-09	0.42E-10	0.13E-10	0.24E-10
SSE	0.00E+00	0.76E-10	0.49E-10	0.70E-10	0.61E-11
S	0.00E+00	0.98E-10	0.10E-09	0.23E-10	0.55E-10
SSW	0.00E+00	0.77E-10	0.00E+00	0.75E-10	0.64E-10
SW	0.00E+00	0.97E-10	0.55E-10	0.76E-10	0.36E-10
WSW	0.00E+00	0.16E-09	0.15E-10	0.14E-10	0.33E-10
W	0.00E+00	0.43E-10	0.19E-10	0.11E-10	0.17E-10
WNW	0.00E+00	0.21E-10	0.63E-10	0.37E-10	0.10E-10
NW	0.00E+00	0.38E-10	0.47E-10	0.00E+00	0.68E-11
NNW	0.00E+00	0.26E-10	0.62E-10	0.24E-10	0.13E-10

TABLE 8-5 (cont)

POPULATION: GROUND PLANE EXPOSURES
TOTAL-BCOM (REM)

AVERAGE EXPOSURES X POPULATION DISTRIBUTION
BY DIRECTION AND DISTANCE

	0-10	10-20	20-30	30-40	40-50
N	0.11E-09	0.21E-09	0.14E-09	0.17E-09	0.28E-09
NE	0.44E-09	0.58E-09	0.34E-09	0.44E-09	0.86E-09
E	0.20E-09	0.30E-09	0.18E-09	0.26E-09	0.81E-09
ENE	0.14E-09	0.15E-09	0.14E-09	0.68E-10	0.54E-10
SE	0.32E-09	0.32E-09	0.20E-09	0.90E-10	0.10E-09
SSE	0.60E-09	0.72E-09	0.42E-09	0.14E-09	0.14E-09
SW	0.10E-09	0.50E-09	0.32E-09	0.13E-09	0.89E-09
SSW	0.10E-09	0.42E-09	0.42E-09	0.61E-09	0.23E-08
W	0.11E-09	0.40E-09	0.40E-09	0.43E-09	0.16E-09
WSW	0.10E-09	0.21E-09	0.24E-09	0.91E-10	0.59E-10
WNW	0.10E-09	0.12E-09	0.94E-10	0.52E-10	0.52E-10
WN	0.10E-09	0.12E-09	0.70E-10	0.41E-10	0.27E-10
W	0.10E-09	0.22E-09	0.90E-10	0.84E-09	0.14E-09
WNW	0.12E-09	0.11E-09	0.14E-09	0.72E-10	0.56E-10
NW	0.17E-09	0.11E-09	0.16E-09	0.66E-10	0.35E-10
NNW	0.20E-09	0.13E-09	0.10E-09	0.20E-09	0.34E-10
TOTAL	0.08E-07 REM				

TABLE 9-1

TABLE 9-1 - POPULATION DISTRIBUTION
BY DISTANCE FROM THE SOURCE

TABLE 9-1 - POPULATION DISTRIBUTION
BY DISTANCE FROM THE SOURCE

	0-1	1-2	2-3	3-4	4-5
N	0.000000	0.41E-06	0.90E-06	0.22E-06	0.26E-06
NE	0.000000	0.29E-07	0.16E-06	0.00E-00	0.19E-06
E	0.000000	0.00E-00	0.16E-07	0.12E-06	0.26E-06
SE	0.000000	0.00E-00	0.12E-06	0.11E-07	0.27E-07
S	0.000000	0.00E-00	0.06E-07	0.37E-07	0.44E-08
SW	0.000000	0.44E-07	0.00E-00	0.00E-00	0.06E-06
W	0.000000	0.12E-07	0.26E-08	0.17E-09	0.15E-06
NW	0.000000	0.12E-07	0.14E-07	0.22E-07	0.24E-06
WSW	0.000000	0.41E-07	0.48E-07	0.11E-07	0.20E-07
SSW	0.000000	0.11E-07	0.00E-00	0.00E-00	0.24E-06
WS	0.000000	0.46E-08	0.19E-08	0.49E-09	0.19E-06
WSW	0.000000	0.31E-07	0.51E-08	0.46E-08	0.14E-07
W	0.000000	0.10E-07	0.16E-07	0.91E-08	0.12E-07
WNW	0.000000	0.26E-08	0.32E-07	0.00E-00	0.45E-07
NW	0.000000	0.21E-09	0.19E-08	0.00E-00	0.25E-07
NNW	0.000000	0.30E-08	0.11E-07	0.41E-08	0.29E-08

TABLE 9-1 (cont.)

POPULATION MEASURES					
POPULATION DISTRIBUTION					
BY DISTANCE AND DISTANCE					
		10-20	20-30	30-40	40-50
U	0.17E-03	0.17E-03	0.16E-03	0.81E-03	0.13E-04
W	0.13E-04	0.13E-04	0.20E-04	0.40E-04	0.11E-03
Y	0.80E-03	0.80E-03	0.30E-04	0.30E-04	0.29E-03
Z	0.13E-06	0.13E-06	0.17E-06	0.22E-06	0.21E-06
E	0.11E-03	0.11E-03	0.21E-03	0.18E-03	0.27E-05
EE	0.11E-03	0.73E-03	0.11E-04	0.37E-03	0.86E-05
EE	0.40E-06	0.40E-06	0.00E-06	0.32E-05	0.10E-03
EE	0.36E-07	0.15E-06	0.16E-03	0.81E-03	0.36E-05
S	0.43E-06	0.43E-06	0.33E-07	0.33E-05	0.20E-05
EE	0.17E-06	0.39E-03	0.51E-03	0.26E-03	0.27E-03
EE	0.13E-03	0.00E-03	0.00E-03	0.21E-03	0.15E-04
EE	0.17E-07	0.47E-07	0.53E-07	0.53E-07	0.43E-07
W	0.13E-06	0.11E-03	0.13E-03	0.24E-04	0.52E-05
EE	0.17E-06	0.17E-03	0.46E-03	0.37E-03	0.41E-05
NU	0.77E-06	0.91E-06	0.00E-03	0.20E-03	0.84E-05
NU	0.17E-07	0.20E-07	0.41E-07	0.14E-06	0.20E-07
TOTAL		0.91E-03	0.91E-03		

TABLE 9-1 (cont.)

TABLE 9-1 (cont.)

TABLE 9-1 (cont.)

TABLE 9-1 (cont.)

TABLE 9-1 (cont.)

	1-2	2-3	3-4	4-5
N	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NNE	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NE	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ENE	0.00E+00	0.00E+00	0.00E+00	0.00E+00
E	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ESE	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SE	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SSE	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SSW	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SW	0.00E+00	0.00E+00	0.00E+00	0.00E+00
WSW	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W	0.00E+00	0.00E+00	0.00E+00	0.00E+00
WNW	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NW	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NNW	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 9-1 (cont.)

RELATIONSHIP BETWEEN
TIME AND DISTANCE

RELATIONSHIP BETWEEN
TIME AND DISTANCE

RELATIONSHIP BETWEEN
TIME AND DISTANCE

	0-10	10-20	20-30	30-40	40-50
0	0.40E-02	0.12E-02	0.22E-02	0.47E-02	0.11E-01
0.05	0.37E-02	0.94E-03	0.12E-01	0.23E-01	0.81E-01
0.1	0.14E-02	0.41E-03	0.96E-03	0.11E-01	0.23E-00
0.15	0.10E-04	0.74E-04	0.19E-03	0.13E-03	0.12E-03
0.2	0.19E-03	0.70E-03	0.13E-02	0.19E-02	0.16E-02
0.25	0.13E-02	0.43E-02	0.57E-02	0.31E-02	0.61E-02
0.3	0.54E-01	0.93E-00	0.99E-00	0.46E-02	0.59E-01
0.35	0.11E-04	0.96E-04	0.12E-02	0.49E-02	0.21E-02
0.4	0.13E-03	0.14E-03	0.20E-02	0.20E-02	0.12E-02
0.45	0.17E-03	0.13E-02	0.19E-02	0.17E-02	0.20E-02
0.5	0.13E-03	0.93E-00	0.99E-00	0.12E-02	0.99E-02
0.55	0.10E-04	0.07E-04	0.40E-04	0.23E-04	0.25E-04
0.6	0.47E-04	0.74E-03	0.96E-01	0.14E-01	0.26E-02
0.65	0.14E-01	0.19E-02	0.27E-02	0.21E-02	0.29E-02
0.7	0.47E-03	0.53E-03	0.99E-00	0.11E-02	0.30E-02
0.75	0.10E-04	0.14E-04	0.20E-04	0.93E-04	0.16E-04

TOTAL 0.56E 00 REM

TABLE 9-2

RELATIONSHIP BETWEEN POPULATION MEASURES
 AND MEASURES OF POPULATION DISTRIBUTION
 AVERAGE POPULATION DISTRIBUTION
 BY DIRECTION AND DISTANCE

	0-1	1-2	2-3	3-4	4-5
N	0.014 00	0.40E-07	0.90E-07	0.34E-07	0.26E-07
NNE	0.002 00	0.20E-08	0.14E-07	0.00E 00	0.17E-06
NE	0.047 00	0.00E 00	0.13E-06	0.29E-07	0.25E-07
NNE	0.005 00	0.00E 00	0.13E-07	0.13E-06	0.27E-06
E	0.007 00	0.00E 00	0.60E-08	0.39E-06	0.46E-09
ENE	0.002 00	0.60E-08	0.00E 00	0.00E 00	0.13E-06
SE	0.00E 00	0.19E-08	0.42E-09	0.28E-10	0.61E-07
SEE	0.005 00	0.56E-08	0.58E-08	0.95E-08	0.10E-08
S	0.00E 00	0.14E-07	0.17E-07	0.19E-06	0.74E-06
SEH	0.00E 00	0.10E-08	0.00E 00	0.00E 00	0.40E-07
SW	0.00E 00	0.00E-09	0.25E-09	0.95E-10	0.32E-07
SSW	0.00E 00	0.53E-08	0.65E-09	0.00E-09	0.24E-06
W	0.00E 00	0.54E-08	0.26E-08	0.14E-06	0.19E-06
WSW	0.00E 00	0.50E-09	0.72E-09	0.00E 00	0.65E-08
NW	0.00E 00	0.21E-09	0.29E-09	0.00E 00	0.28E-08
NNW	0.00E 00	0.22E-09	0.12E-06	0.49E-09	0.32E-06

TABLE 9-2(cont)

WIND-TOXIC POLLUTION EXPOSURES
TOTAL-TOXIC EXPOSURES (REM)

TABLE 9-2 EXPOSURES - POPULATION DISTRIBUTION
BY DIRECTION AND DISTANCE

	0-10	10-20	20-30	30-40	40-50
N	0.70E-07	0.17E-06	0.37E-06	0.62E-06	0.19E-05
NNE	0.70E-06	0.10E-05	0.19E-05	0.36E-05	0.10E-04
NE	0.15E-05	0.43E-06	0.90E-06	0.19E-05	0.26E-04
ENE	0.30E-06	0.10E-07	0.29E-07	0.20E-07	0.22E-07
E	0.34E-07	0.10E-06	0.22E-06	0.19E-06	0.29E-06
ESE	0.34E-06	0.10E-06	0.16E-05	0.51E-06	0.14E-05
SE	0.37E-06	0.90E-06	0.90E-06	0.35E-05	0.41E-04
SSE	0.24E-07	0.76E-07	0.89E-06	0.41E-05	0.18E-05
S	0.74E-07	0.20E-06	0.12E-05	0.12E-05	0.75E-06
SSW	0.10E-06	0.49E-06	0.86E-06	0.44E-06	0.47E-06
SW	0.20E-06	0.60E-06	0.90E-06	0.14E-06	0.25E-05
WSW	0.50E-08	0.75E-08	0.95E-08	0.92E-08	0.73E-08
W	0.84E-07	0.17E-06	0.21E-06	0.26E-06	0.82E-06
NNW	0.70E-07	0.24E-06	0.66E-06	0.32E-06	0.60E-06
NW	0.80E-07	0.99E-07	0.90E-06	0.22E-06	0.90E-06
NNW	0.19E-08	0.27E-08	0.46E-08	0.15E-07	0.31E-08

TOTAL 0.14E-01 REM

TABLE 9-2(cont)

RELATIONSHIP BETWEEN POPULATION DENSITY
AND DISTANCE FROM SOURCE

TABLE 9-2 POPULATION DENSITY DISTRIBUTION
BY DIRECTION AND DISTANCE

	0-1	1-2	2-3	3-4	4-5
N	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
NNE	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
NE	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
ENE	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
E	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
ESE	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
SE	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
SSE	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
S	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
SSW	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
SW	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
WSW	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
W	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
WNW	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
NNW	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00
NNN	0.000-00	0.000-00	0.000-00	0.000-00	0.000-00

TABLE 9-2 (cont)

WIND-DRIVEN POPULATION EXPOSURES
 WIND-DRIVEN EXPOSURES (REM)

AVERAGE WIND-DRIVEN POPULATION DISTRIBUTION

BY DIRECTION AND DISTANCE

	0-10	10-20	20-30	30-40	40-50
N	0.41E-04	0.12E-03	0.22E-03	0.46E-03	0.11E-02
NNE	0.21E-03	0.61E-03	0.11E-02	0.21E-02	0.73E-02
NE	0.17E-02	0.04E-00	0.00E-00	0.11E-02	0.23E-01
ENE	0.47E-03	0.78E-03	0.20E-04	0.14E-04	0.13E-04
E	0.20E-04	0.61E-04	0.14E-03	0.11E-03	0.17E-03
ESE	0.24E-01	0.72E-03	0.11E-02	0.53E-03	0.98E-03
SE	0.33E-03	0.06E-00	0.00E-00	0.20E-02	0.24E-01
SSE	0.14E-04	0.44E-04	0.57E-03	0.25E-02	0.11E-02
S	0.43E-04	0.16E-01	0.73E-03	0.72E-03	0.44E-03
SSW	0.70E-04	0.10E-02	0.51E-01	0.25E-03	0.33E-03
SW	0.11E-03	0.00E-00	0.00E-00	0.19E-03	0.15E-02
WSW	0.55E-03	0.46E-03	0.68E-03	0.56E-03	0.43E-05
W	0.14E-04	0.12E-03	0.12E-03	0.22E-02	0.46E-03
WNW	0.49E-04	0.14E-03	0.39E-03	0.30E-03	0.42E-03
NW	0.51E-04	0.58E-04	0.00E-00	0.12E-03	0.54E-03
NNW	0.11E-03	0.16E-03	0.33E-03	0.93E-05	0.18E-05
TOTAL	0.03E-01 REM				

TABLE 9-3

POPULATION CORRELATION EXPOSURES
TOTAL AREA EXPOSURES (REM)

AVERAGE EXPOSURES BY POPULATION DISTRIBUTION
BY DIRECTION AND DISTANCE

	0-1	1-2	2-3	3-4	4-5
N	0.00E+00	0.21E-06	0.01E-06	0.19E-06	0.15E-06
NNE	0.00E+00	0.16E-07	0.11E-07	0.00E+00	0.11E-05
NE	0.00E+00	0.00E+00	0.12E-07	0.24E-08	0.90E-07
NNE	0.00E+00	0.00E+00	0.49E-07	0.48E-08	0.98E-08
E	0.00E+00	0.00E+00	0.00E-08	0.54E-08	0.67E-09
ENE	0.00E+00	0.33E-07	0.00E+00	0.00E+00	0.11E-05
SE	0.00E+00	0.17E-07	0.14E-08	0.21E-09	0.23E-07
ESE	0.00E+00	0.21E-06	0.23E-08	0.37E-08	0.39E-09
S	0.00E+00	0.63E-06	0.74E-08	0.16E-08	0.31E-08
SEW	0.00E+00	0.50E-08	0.00E+00	0.00E+00	0.11E-06
SW	0.00E+00	0.21E-06	0.92E-09	0.23E-09	0.22E-06
WSW	0.00E+00	0.36E-07	0.58E-08	0.54E-08	0.16E-07
W	0.00E+00	0.26E-07	0.12E-07	0.68E-08	0.92E-08
WSW	0.00E+00	0.21E-08	0.33E-07	0.00E+00	0.29E-07
WNW	0.00E+00	0.14E-06	0.13E-08	0.00E+00	0.51E-08
NNW	0.00E+00	0.60E-09	0.22E-08	0.91E-09	0.58E-09

TABLE 9-3 (cont)

POPULATION SURVIVAL ESTIMATES
 1970-1971 (1970-1971)

POPULATION SURVIVAL ESTIMATES

POPULATION SURVIVAL ESTIMATES

	5-10	10-15	15-20	20-25	25-30
N	0.10E-04	0.10E-04	0.11E-04	0.17E-04	0.11E-04
NE	0.10E-04	0.11E-04	0.15E-04	0.29E-04	0.83E-04
ENE	0.10E-04	0.00E-04	0.00E-04	0.69E-04	0.14E-03
ENE	0.11E-04	0.11E-04	0.11E-04	0.32E-04	0.90E-04
E	0.11E-04	0.17E-04	0.12E-04	0.27E-04	0.42E-04
EE	0.17E-04	0.10E-04	0.14E-04	0.72E-04	0.11E-04
EE	0.14E-04	0.00E-04	0.00E-04	0.12E-04	0.16E-04
EE	0.12E-04	0.27E-04	0.29E-04	0.14E-04	0.64E-04
E	0.12E-04	0.10E-04	0.00E-04	0.51E-04	0.31E-04
EE	0.11E-04	0.14E-04	0.21E-04	0.12E-04	0.13E-04
EE	0.14E-04	0.00E-04	0.00E-04	0.24E-04	0.17E-04
EE	0.14E-04	0.00E-04	0.00E-04	0.63E-04	0.50E-04
N	0.11E-04	0.00E-04	0.00E-04	0.18E-04	0.39E-04
NN	0.22E-04	0.11E-04	0.20E-04	0.23E-04	0.27E-04
NN	0.13E-04	0.18E-04	0.00E-04	0.40E-04	0.17E-04
NN	0.17E-04	0.00E-04	0.84E-04	0.28E-04	0.57E-04

TOTAL 0.41E-02 REM

1000

POPULATION CORRELATION SURFACES (H. H. G. 2. A. SURFES (A. H. G.))					
SURFES SURFACES / POPULATION DISTRIBUTION of SURFES / SURFES					
	1-2	1-3	2-3	1-4	4-5
1	0.000000	0.000000	0.000000	0.000000	0.000000
2	0.000000	0.000000	0.000000	0.000000	0.000000
3	0.000000	0.000000	0.000000	0.000000	0.000000
4	0.000000	0.000000	0.000000	0.000000	0.000000
5	0.000000	0.000000	0.000000	0.000000	0.000000
6	0.000000	0.000000	0.000000	0.000000	0.000000
7	0.000000	0.000000	0.000000	0.000000	0.000000
8	0.000000	0.000000	0.000000	0.000000	0.000000
9	0.000000	0.000000	0.000000	0.000000	0.000000
10	0.000000	0.000000	0.000000	0.000000	0.000000
11	0.000000	0.000000	0.000000	0.000000	0.000000
12	0.000000	0.000000	0.000000	0.000000	0.000000
13	0.000000	0.000000	0.000000	0.000000	0.000000
14	0.000000	0.000000	0.000000	0.000000	0.000000
15	0.000000	0.000000	0.000000	0.000000	0.000000
16	0.000000	0.000000	0.000000	0.000000	0.000000
17	0.000000	0.000000	0.000000	0.000000	0.000000
18	0.000000	0.000000	0.000000	0.000000	0.000000
19	0.000000	0.000000	0.000000	0.000000	0.000000
20	0.000000	0.000000	0.000000	0.000000	0.000000
21	0.000000	0.000000	0.000000	0.000000	0.000000
22	0.000000	0.000000	0.000000	0.000000	0.000000
23	0.000000	0.000000	0.000000	0.000000	0.000000
24	0.000000	0.000000	0.000000	0.000000	0.000000
25	0.000000	0.000000	0.000000	0.000000	0.000000
26	0.000000	0.000000	0.000000	0.000000	0.000000
27	0.000000	0.000000	0.000000	0.000000	0.000000
28	0.000000	0.000000	0.000000	0.000000	0.000000
29	0.000000	0.000000	0.000000	0.000000	0.000000
30	0.000000	0.000000	0.000000	0.000000	0.000000
31	0.000000	0.000000	0.000000	0.000000	0.000000
32	0.000000	0.000000	0.000000	0.000000	0.000000
33	0.000000	0.000000	0.000000	0.000000	0.000000
34	0.000000	0.000000	0.000000	0.000000	0.000000
35	0.000000	0.000000	0.000000	0.000000	0.000000
36	0.000000	0.000000	0.000000	0.000000	0.000000
37	0.000000	0.000000	0.000000	0.000000	0.000000
38	0.000000	0.000000	0.000000	0.000000	0.000000
39	0.000000	0.000000	0.000000	0.000000	0.000000
40	0.000000	0.000000	0.000000	0.000000	0.000000
41	0.000000	0.000000	0.000000	0.000000	0.000000
42	0.000000	0.000000	0.000000	0.000000	0.000000
43	0.000000	0.000000	0.000000	0.000000	0.000000
44	0.000000	0.000000	0.000000	0.000000	0.000000
45	0.000000	0.000000	0.000000	0.000000	0.000000
46	0.000000	0.000000	0.000000	0.000000	0.000000
47	0.000000	0.000000	0.000000	0.000000	0.000000

TABLE 9-4

TABLE 9-4: CORRELATION COEFFICIENTS OF 8-SCORES
 CORRELATION COEFFICIENTS (R₂₃)

TABLE 9-4: CORRELATION COEFFICIENTS OF 8-SCORES
 BY DIRECTION AND DISTANCE

	0-1	1-2	2-3	3-4	4-5
N	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NNE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ENE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
E	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ESE	0.00E+00	0.10E-07	0.00E+00	0.00E+00	0.31E-07
SE	0.00E+00	0.41E-04	0.07E-10	0.49E-11	0.00E+00
SSE	0.10E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S	0.00E+00	0.10E-04	0.21E-03	0.40E-03	0.07E-09
SSN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SN	0.00E+00	0.10E-03	0.40E-10	0.11E-10	0.00E+00
SNN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
N	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NNN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NNN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 9-4 (cont)

TABLE 9-4. POPULACE COAGULATION DISTRIBUTION					
BY DIRECTION AND DISTANCE					
	0-10	10-20	20-30	30-40	40-50
0-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20-30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40-50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50-60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60-70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70-80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90-100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100-110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110-120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140-150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150-160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160-170	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170-180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180-190	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190-200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 9-4 (cont)

[illegible]

[illegible][illegible]

TABLE 9-5

EXPOSURE
EXPOSURE

TABLE 2. POPULATION DISTRIBUTION

2. DIRECTION AND DISTANCE

	0-1	1-2	2-3	3-4	4-5
0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.95	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 9-5 (cont)

WIND-DRIVEN SURFACE WAVE HIGHS

WIND-DRIVEN SURFACE WAVE PERIODS

WIND-DRIVEN SURFACE WAVE PERIOD DISTRIBUTION

BY DIRECTION AND DISTANCE

		10-20	20-30	30-40	40-50
N	0.001-0.01	0.14E-08	0.28E-08	0.53E-08	0.14E-07
NNE	0.01E-01	0.10E-07	0.17E-07	0.27E-07	0.79E-07
NE	0.01E-01	0.10E-07	0.10E-07	0.17E-07	0.29E-06
ENE	0.01E-01	0.10E-07	0.22E-07	0.18E-07	0.17E-09
E	0.01E-01	0.10E-07	0.17E-07	0.14E-07	0.22E-08
ESE	0.01E-01	0.10E-07	0.14E-07	0.69E-08	0.11E-07
SE	0.01E-01	0.10E-07	0.10E-07	0.27E-07	0.31E-06
SSE	0.01E-01	0.10E-07	0.10E-07	0.11E-07	0.14E-07
S	0.01E-01	0.10E-07	0.10E-07	0.14E-07	0.57E-08
SSW	0.01E-01	0.10E-07	0.10E-07	0.10E-07	0.36E-08
SW	0.01E-01	0.10E-07	0.10E-07	0.26E-08	0.19E-07
WSW	0.01E-01	0.10E-07	0.72E-10	0.79E-10	0.56E-10
W	0.01E-01	0.10E-07	0.16E-08	0.29E-07	0.62E-08
WNW	0.01E-01	0.10E-07	0.10E-08	0.43E-08	0.46E-08
NW	0.01E-01	0.10E-07	0.10E-07	0.17E-08	0.69E-08
NNW	0.01E-01	0.21E-10	0.35E-10	0.12E-09	0.24E-10
TOTAL	0.11E-00 REM				

1999-2000, 2001-2002, 2003-2004, 2005-2006, 2007-2008, 2009-2010, 2011-2012, 2013-2014, 2015-2016, 2017-2018, 2019-2020, 2021-2022, 2023-2024, 2025-2026, 2027-2028, 2029-2030, 2031-2032, 2033-2034, 2035-2036, 2037-2038, 2039-2040, 2041-2042, 2043-2044, 2045-2046, 2047-2048, 2049-2050, 2051-2052, 2053-2054, 2055-2056, 2057-2058, 2059-2060, 2061-2062, 2063-2064, 2065-2066, 2067-2068, 2069-2070, 2071-2072, 2073-2074, 2075-2076, 2077-2078, 2079-2080, 2081-2082, 2083-2084, 2085-2086, 2087-2088, 2089-2090, 2091-2092, 2093-2094, 2095-2096, 2097-2098, 2099-2100, 2101-2102, 2103-2104, 2105-2106, 2107-2108, 2109-2110, 2111-2112, 2113-2114, 2115-2116, 2117-2118, 2119-2120, 2121-2122, 2123-2124, 2125-2126, 2127-2128, 2129-2130, 2131-2132, 2133-2134, 2135-2136, 2137-2138, 2139-2140, 2141-2142, 2143-2144, 2145-2146, 2147-2148, 2149-2150, 2151-2152, 2153-2154, 2155-2156, 2157-2158, 2159-2160, 2161-2162, 2163-2164, 2165-2166, 2167-2168, 2169-2170, 2171-2172, 2173-2174, 2175-2176, 2177-2178, 2179-2180, 2181-2182, 2183-2184, 2185-2186, 2187-2188, 2189-2190, 2191-2192, 2193-2194, 2195-2196, 2197-2198, 2199-2200, 2201-2202, 2203-2204, 2205-2206, 2207-2208, 2209-2210, 2211-2212, 2213-2214, 2215-2216, 2217-2218, 2219-2220, 2221-2222, 2223-2224, 2225-2226, 2227-2228, 2229-2230, 2231-2232, 2233-2234, 2235-2236, 2237-2238, 2239-2240, 2241-2242, 2243-2244, 2245-2246, 2247-2248, 2249-2250, 2251-2252, 2253-2254, 2255-2256, 2257-2258, 2259-2260, 2261-2262, 2263-2264, 2265-2266, 2267-2268, 2269-2270, 2271-2272, 2273-2274, 2275-2276, 2277-2278, 2279-2280, 2281-2282, 2283-2284, 2285-2286, 2287-2288, 2289-2290, 2291-2292, 2293-2294, 2295-2296, 2297-2298, 2299-2300, 2301-2302, 2303-2304, 2305-2306, 2307-2308, 2309-2310, 2311-2312, 2313-2314, 2315-2316, 2317-2318, 2319-2320, 2321-2322, 2323-2324, 2325-2326, 2327-2328, 2329-2330, 2331-2332, 2333-2334, 2335-2336, 2337-2338, 2339-2340, 2341-2342, 2343-2344, 2345-2346, 2347-2348, 2349-2350, 2351-2352, 2353-2354, 2355-2356, 2357-2358, 2359-2360, 2361-2362, 2363-2364, 2365-2366, 2367-2368, 2369-2370, 2371-2372, 2373-2374, 2375-2376, 2377-2378, 2379-2380, 2381-2382, 2383-2384, 2385-2386, 2387-2388, 2389-2390, 2391-2392, 2393-2394, 2395-2396, 2397-2398, 2399-2400, 2401-2402, 2403-2404, 2405-2406, 2407-2408, 2409-2410, 2411-2412, 2413-2414, 2415-2416, 2417-2418, 2419-2420, 2421-2422, 2423-2424, 2425-2426, 2427-2428, 2429-2430, 2431-2432, 2433-2434, 2435-2436, 2437-2438, 2439-2440, 2441-2442, 2443-2444, 2445-2446, 2447-2448, 2449-2450, 2451-2452, 2453-2454, 2455-2456, 2457-2458, 2459-2460, 2461-2462, 2463-2464, 2465-2466, 2467-2468, 2469-2470, 2471-2472, 2473-2474, 2475-2476, 2477-2478, 2479-2480, 2481-2482, 2483-2484, 2485-2486, 2487-2488, 2489-2490, 2491-2492, 2493-2494, 2495-2496, 2497-2498, 2499-2500, 2501-2502, 2503-2504, 2505-2506, 2507-2508, 2509-2510, 2511-2512, 2513-2514, 2515-2516, 2517-2518, 2519-2520, 2521-2522, 2523-2524, 2525-2526, 2527-2528, 2529-2530, 2531-2532, 2533-2534, 2535-2536, 2537-2538, 2539-2540, 2541-2542, 2543-2544, 2545-2546, 2547-2548, 2549-2550, 2551-2552, 2553-2554, 2555-2556, 2557-2558, 2559-2560, 2561-2562, 2563-2564, 2565-2566, 2567-2568, 2569-2570, 2571-2572, 2573-2574, 2575-2576, 2577-2578, 2579-2580, 2581-2582, 2583-2584, 2585-2586, 2587-2588, 2589-2590, 2591-2592, 2593-2594, 2595-2596, 2597-2598, 2599-2600, 2601-2602, 2603-2604, 2605-2606, 2607-2608, 2609-2610, 2611-2612, 2613-2614, 2615-2616, 2617-2618, 2619-2620, 2621-2622, 2623-2624, 2625-2626, 2627-2628, 2629-2630, 2631-2632, 2633-2634, 2635-2636, 2637-2638, 2639-2640, 2641-2642, 2643-2644, 2645-2646, 2647-2648, 2649-2650, 2651-2652, 2653-2654, 2655-2656, 2657-2658, 2659-2660, 2661-2662, 2663-2664, 2665-2666, 2667-2668, 2669-2670, 2671-2672, 2673-2674, 2675-2676, 2677-2678, 2679-2680, 2681-2682, 2683-2684, 2685-2686, 2687-2688, 2689-2690, 2691-2692, 2693-2694, 2695-2696, 2697-2698, 2699-2700, 2701-2702, 2703-2704, 2705-2706, 2707-2708, 2709-2710, 2711-2712, 2713-2714, 2715-2716, 2717-2718, 2719-2720, 2721-2722, 2723-2724, 2725-2726, 2727-2728, 2729-2730, 2731-2732, 2733-2734, 2735-2736, 2737-2738, 2739-2740, 2741-2742, 27

POPULATION DISTRIBUTION					
BY DISTANCE AND DISTANCE					
	0-1	1-2	2-3	3-4	4-5
N	0.000000	0.000000	0.000000	0.000000	0.000000
AGE	0.000000	0.000000	0.000000	0.000000	0.000000
SEX	0.000000	0.000000	0.000000	0.000000	0.000000
EDUC	0.000000	0.000000	0.000000	0.000000	0.000000
INCOME	0.000000	0.000000	0.000000	0.000000	0.000000
HOUSING	0.000000	0.000000	0.000000	0.000000	0.000000
VEHICLE	0.000000	0.000000	0.000000	0.000000	0.000000
TELEPHONE	0.000000	0.000000	0.000000	0.000000	0.000000
WATER	0.000000	0.000000	0.000000	0.000000	0.000000
SEWER	0.000000	0.000000	0.000000	0.000000	0.000000
HEATING	0.000000	0.000000	0.000000	0.000000	0.000000
COOLING	0.000000	0.000000	0.000000	0.000000	0.000000
INSULATION	0.000000	0.000000	0.000000	0.000000	0.000000
PAVING	0.000000	0.000000	0.000000	0.000000	0.000000
LANDSCAPING	0.000000	0.000000	0.000000	0.000000	0.000000
UTILITIES	0.000000	0.000000	0.000000	0.000000	0.000000
REPAIRS	0.000000	0.000000	0.000000	0.000000	0.000000
MAINTENANCE	0.000000	0.000000	0.000000	0.000000	0.000000
RENOVATIONS	0.000000	0.000000	0.000000	0.000000	0.000000
ADDITIONS	0.000000	0.000000	0.000000	0.000000	0.000000
DEMO	0.000000	0.000000	0.000000	0.000000	0.000000
RECYCLING	0.000000	0.000000	0.000000	0.000000	0.000000
WASTE	0.000000	0.000000	0.000000	0.000000	0.000000
WATER	0.000000	0.000000	0.000000	0.000000	0.000000
SEWER	0.000000	0.000000	0.000000	0.000000	0.000000
HEATING	0.000000	0.000000	0.000000	0.000000	0.000000
COOLING	0.000000	0.000000	0.000000	0.000000	0.000000
INSULATION	0.000000	0.000000	0.000000	0.000000	0.000000
PAVING	0.000000	0.000000	0.000000	0.000000	0.000000
LANDSCAPING	0.000000	0.000000	0.000000	0.000000	0.000000
UTILITIES	0.000000	0.000000	0.000000	0.000000	0.000000
REPAIRS	0.000000	0.000000	0.000000	0.000000	0.000000
MAINTENANCE	0.000000	0.000000	0.000000	0.000000	0.000000
RENOVATIONS	0.000000	0.000000	0.000000	0.000000	0.000000
ADDITIONS	0.000000	0.000000	0.000000	0.000000	0.000000
DEMO	0.000000	0.000000	0.000000	0.000000	0.000000
RECYCLING	0.000000	0.000000	0.000000	0.000000	0.000000
WASTE	0.000000	0.000000	0.000000	0.000000	0.000000

TABLE 10-1

TABLE 10-2

FISH (1955-1956)		
FOR NORTH		
TOTAL	7-121-8000	7-121-8010
ADULT	6-112-80	6-112-80
TEEN	0-412-80	0-412-80
CHILD	0-288-80	0-288-80
FOR WEST		
TOTAL	7-121-8000	7-121-8010
ADULT	6-112-80	6-112-80
TEEN	0-412-80	0-412-80
CHILD	0-288-80	0-288-80
FOR EAST		
TOTAL	7-121-8000	7-121-8010
ADULT	6-112-80	6-112-80
TEEN	0-412-80	0-412-80
CHILD	0-288-80	0-288-80
TOTAL	0-121-80	0-121-80

TABLE 10-3

APPROXIMATE EXPOSURES (REM)

FOOD PRODUCE		THYROID
TOTAL-800		
APPLE	$0.10E-04$	$0.10E-04$
TEA	$0.12E-03$	$0.12E-03$
CHEESE	$0.47E-03$	$0.49E-03$
FARM MILK		THYROID
TOTAL-800		
APPLE	$0.23E-03$	$0.34E-03$
TEA	$0.39E-04$	$0.51E-04$
CHEESE	$0.72E-04$	$0.22E-03$
FISH MEAT		THYROID
TOTAL-800		
APPLE	$0.70E-04$	$0.40E-04$
TEA	$0.95E-05$	$0.11E-04$
CHEESE	$0.49E-04$	$0.38E-04$
TOTAL	$0.43E-02$	$0.91E-02$

TABLE 10-4

RADIATION DOSE RATES (REM)

FOR PROGENY		THYROID
TOTAL	0.15E-06	
ADULT	0.13E-06	0.29E-06
TEEN	0.12E-06	0.40E-06
CHILD	0.10E-06	0.26E-06
FOR MILK		THYROID
TOTAL	0.80E-06	
ADULT	0.70E-06	0.24E-06
TEEN	0.74E-06	0.26E-06
CHILD	0.20E-06	0.12E-06
FOR MEAT		THYROID
TOTAL	0.80E-06	
ADULT	0.60E-06	0.30E-07
TEEN	0.44E-06	0.11E-07
CHILD	0.78E-06	0.66E-07
TOTAL	0.15E-07	0.19E-06

TABLE 10-5

MILK-ITON SIGNATURES (REM)

FOR BREAST		THYROID
	TOTAL-BODY	
ADULT	0.40E-06	0.40E-06
TEEN	0.40E-07	0.40E-07
CHILD	0.10E-06	0.10E-06
FOR MILK		THYROID
	TOTAL-BODY	
ADULT	0.96E-05	0.96E-05
TEEN	0.70E-06	0.94E-06
CHILD	0.29E-05	0.31E-05
FOR MEAT		THYROID
	TOTAL-BODY	
ADULT	0.10E-05	0.10E-05
TEEN	0.13E-06	0.30E-06
CHILD	0.10E-05	0.10E-05
TOTAL	0.17E-04	0.18E-04