

PILGRIM NUCLEAR POWER STATION

Radioactive Effluent and Waste Disposal Report

including

Radiological Impact on Humans

July 1 through December 31, 1982

**BY: NUCLEAR OPERATIONS SUPPORT DEPARTMENT
ENVIRONMENTAL AND RADIOLOGICAL
HEALTH AND SAFETY GROUP**

Date: March 1, 1983

BOSTON EDISON COMPANY



8303290478 830308
PDR ADOCK 05000293
R PDR

PILGRIM NUCLEAR POWER STATION
RADIOACTIVE EFFLUENT AND WASTE DISPOSAL REPORT
INCLUDING RADIOLOGICAL IMPACT ON HUMANS

JULY 1 THROUGH DECEMBER 31, 1982

Prepared By: Christine E. Bowman
Christine E. Bowman
Senior Radiological Engineer

Approved By: Thomas L. Sowdon
Thomas L. Sowdon
Environmental Radiological
Health and Safety Group Leader

Date of Submittal: March 1, 1983

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1. Introduction and Summary	1
2. Effluent, Waste Disposal and Wind Data	1
3. Off-Site Doses Resulting From Radioactive Liquid Effluents	41
4. Off-Site Doses Resulting From Radioactive Gaseous Effluents	46
5. Off-Site Doses From Direct Radiation	68

LIST OF TABLES

<u>Table</u>	<u>Page</u>
Supplemental Information	2
1A Gaseous Effluents - Summation of All Releases	3
1B Gaseous Effluents - Elevated Release	4
1C Gaseous Effluents - Ground Level Release	5
2A Liquid Effluents - Summation of All Releases	6
2B Liquid Effluents	7
3 Solid Waste and Irradiated Fuel Shipments	8
4A-1 Distribution of Wind Directions and Speeds - 33 ft. Level of 160 ft. Tower	9
4A-2 Distribution of Wind Directions and Speeds - 160 ft Level of 160 ft. Tower	25
3.2-1 July-December 1982 Liquid Release Maximum Individual Doses from all Pathways for Adults (MREM)	42
3.2-2 July-December 1982 Liquid Release Maximum Individual Doses from all Pathways for Teenagers (MREM)	43
3.2-3 July-December 1982 Liquid Release Maximum Individual Doses from all Pathways for Children (MREM)	44
3.3-1 Population Doses Resulting from the July-December 1982 Liquid Effluents	45

LIST OF TABLES (cont.)

<u>Table</u>	<u>Page</u>
4.1-1 Undepleted Relative Concentrations per Unit Emission for Reactor Building Vent for July-September 1982	47
4.1-2 Depleted Relative Concentrations per Unit Emission for Reactor Building Vent for July-September 1982	48
4.1-3 Relative Deposition Concentrations per Unit Emission for Reactor Building Vent for July-September 1982	49
4.1-4 Undepleted Relative Concentrations per Unit Emission for Main Stack for July-September 1982	50
4.1-5 Depleted Relative Concentrations per Unit Emission for Main Stack for July-September 1982	51
4.1-6 Relative Deposition Concentrations per Unit Emission for Main Stack for July-September 1982	52
4.1-7 Undepleted Relative Concentrations per Unit Emission for Reactor Building Vent for October-December 1982	53
4.1-8 Depleted Relative Concentrations per Unit Emission for Reactor Building Vent for October-December 1982	54
4.1-9 Relative Deposition Concentrations per Unit Emission for Reactor Building Vent for October-December 1982	55
4.1-10 Undepleted Relative Concentrations per Unit Emission for Main Stack for October-December 1982	56
4.1-11 Depleted Relative Concentrations per Unit Emission for Main Stack for October-December 1982	57
4.1-12 Relative Deposition Concentrations per Unit Emission for Main Stack for October-December 1982	58
4.2-1 Maximum Individual Locations and Pathways	59
4.2-2 July-December 1982 Gaseous Release Maximum Individual Doses from all Pathways for Adults (MREM)	60
4.2-3 July-December 1982 Gaseous Release Maximum Individual Doses from all Pathways for Teenagers (MREM)	61
4.2-4 July-December 1982 Gaseous Release Maximum Individual Doses from all Pathways for Children (MREM)	62
4.2-5 July-December 1982 Gaseous Release Maximum Individual Doses from all Pathways for Infants (MREM)	63

LIST OF TABLES (cont.)

<u>Table</u>	<u>Page</u>
4.2-6 July-December 1982 Gaseous Release Maximum Individual Doses 0.6 Miles ESE	64
4.3-1 Population Distribution	65
4.3-2 Population Doses Via Major Pathways Resulting from Gaseous Effluents during July-December 1982	66

1. INTRODUCTION AND SUMMARY

This report is issued for the period July-December 1982 in accordance with NRC 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" (Rev. 1). The information supplied includes actual effluent releases, radioactive waste and meteorological data; doses from liquid releases, doses from gaseous releases and direct gamma radiation doses.

2. EFFLUENT, WASTE DISPOSAL AND WIND DATA

Radioactive liquid and gaseous releases, wind speed data together with measurement errors and solid waste disposal information are given in Tables 1A, 1B, 1C, 2A, 2B, 3, 4A-1, 4A-2, and supplemental information section in the standard Regulatory Guide 1.21 format.

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT

Supplemental Information

July-December 1982

Facility Pilgrim Nuclear Power Station Licensee DPR-35

1. Regulatory Limits

- a. Fission and activation gases: $\frac{Q_s}{0.25/\bar{E}} + \frac{Q_v}{0.10/\bar{E}} = \leq 1$
- b. Iodines: 2Ci per quarter
- c. Particulates, half-lives > 8 days: $13(1.8E4Q_s + 1.8E5Q_v) \leq 1$
- d. Liquid effluents: 10Ci per quarter

2. Maximum Permissible Concentration

Provide the MPC's used in determining allowable release rates or concentrations.

- a. Fission and activation gases: } 10 CFR 20
- b. Iodines: } Appendix B
- c. Particulates, half-lives > 8 days: } Table II
- d. Liquid effluents: H-3 = 1×10^{-5} μ Ci/ml; all rest, 10 CFR 20, Appendix B, Table II

3. Average Energy

Provide the average energy (\bar{E}) of the radionuclide mixture in releases of fission and activation gases, if applicable. $\bar{E} = 1$ Mev

MS = 0.304 & 0.287; RBV = 0.391 & 0.494 (3rd & 4th quarter)

4. Measurements and Approximations of Total Radioactivity

Provide the methods used to measure or approximate the total radioactivity in effluents and the methods used to determine radionuclide composition.

- a. Fission and activation gases: } GeLi
- b. Iodines: } Isotopic
- c. Particulates: } Analysis
- d. Liquid effluents: }

5. Batch Releases

Provide the following information relating to batch releases of radioactive materials in liquid and gaseous effluents.

a. Liquid

1. Number of batch releases: 77
2. Total time period for batch releases: 87.48hrs
3. Maximum time period for a batch release: 4.08hrs
4. Average time period for batch releases: 1.14hrs
5. Minimum time period for a batch release: 0.33hrs
6. Average stream flow during periods of release of effluent into a flowing stream: 3.05E+5 GPM

b. Gaseous (Not Applicable)

6. Abnormal Releases

- a. None
- b.

TABLE 1A
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES
 July-December 1982

Unit	Quarter (3)	Quarter (4)	Est. Total Error, %
------	----------------	----------------	------------------------

A. Fission and activation gases

1. Total release	Ci	< 1.07E+4	< 5.19E+3	2.49E+1
2. Average release rate for period	μCi/sec	< 1.35E+3	< 6.53E+2	
3. Percent of Technical Specification limit	%	< 1.77E-1	< 8.25E-2	

B. Iodines

1. Total iodine-131	Ci	1.03E-2	9.32E-3	2.51E+1
2. Average release rate for period	μCi/sec	1.30E-3	1.17E-3	
3. Percent of Technical Specification limit	%	5.15E-1	4.66E-1	

C. Particulates

1. Particulates with half-lives > 8 days	Ci	8.20E-3	8.01E-3	3.03E+1
2. Average release rate for period	μCi/sec	1.03E-3	1.01E-3	
3. Percent of Technical Specification limit	%	9.67E-2	8.72E-2	
4. Gross alpha radioactivity	Ci	< 5.14E-7	< 4.50E-7	

D. Tritium

1. Total release	Ci	4.90E0	5.93E0	3.30E+1
2. Average release rate for period	μCi/sec	6.16E-1	7.46E-1	
3. Percent of Technical Specification limit	%	-	-	

TABLE 1B
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1982)
GASEOUS EFFLUENTS – ELEVATED RELEASE

July-December 1982

CONTINUOUS MODE

BATCH MODE

Nuclides Released	Unit	Quarter (3)	Quarter (4)	Quarter	Quarter
-------------------	------	----------------	----------------	---------	---------

1. Fission gases

krypton-85	Ci	1.62E-2	1.60E-2		
krypton-85m	Ci	7.69E+2	5.47E+2		
krypton-87	Ci	< 1.87E+2	< 4.58E+1		
krypton-88	Ci	8.99E+2	4.99E+2		
xenon-133	Ci	4.51E+3	3.07E+3		
xenon-135	Ci	3.73E+3	7.36E+2		
xenon-135m	Ci	< 1.54E+1	< 9.26E0		
xenon-138	Ci	< 3.75E+1	< 3.90E+1		
xenon-131m	Ci	-	-		
xenon-137	Ci	-	-		
xenon-133m	Ci	1.30E+2	8.49E+1		
Total for period	Ci	< 1.03E+4	5.03E+3		

2. Iodines

iodine-131	Ci	4.66E-3	6.53E-3		
iodine-133	Ci	1.68E-2	2.24E-2		
iodine-135	Ci	< 1.22E-2	< 1.48E-2		
Total for period	Ci	< 3.37E-2	< 4.37E-2		

3. Particulates

strontium-89	Ci	1.62E-3	2.78E-3		
strontium-90	Ci	1.73E-5	1.83E-5		
cesium-134	Ci	8.15E-6	2.61E-6		
cesium-137	Ci	7.38E-5	5.76E-5		
barium-lanthanum-140	Ci	3.55E-3	2.68E-3		
chromium-51	Ci	-	-		
manganese-54	Ci	1.28E-5	3.65E-6		
cobalt-58	Ci	-	2.09E-6		
iron-59	Ci	-	-		
cobalt-60	Ci	1.55E-4	3.97E-5		
zinc-65	Ci	-	-		
zirconium-niobium-95	Ci	-	-		
cerium-141	Ci	-	-		
cerium-144	Ci	-	1.53E-5		
ruthenium-103	Ci	-	-		
ruthenium-106	Ci	2.70E-5	-		

TABLE 1C
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)
GASEOUS EFFLUENTS - GROUND LEVEL RELEASE

July-December 1982

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter	Quarter	Quarter	Quarter
		(3)	(4)		

1. Fission gases

krypton-85	Ci	< 1.49E-5	5.03E-6		
krypton-85m	Ci	< 3.46E+1	1.21E+1		
krypton-87	Ci	< 9.16E0	< 4.07E0		
krypton-88	Ci	< 1.55E+1	2.43E+1		
xenon-133	Ci	1.41E+2	5.99E+1		
xenon-135	Ci	1.86E+2	5.86E+1		
xenon-135m	Ci	-	-		
xenon-138	Ci	-	-		
Total for period	Ci	< 3.86E+2	< 1.59E+2		

2. Iodines

iodine-131	Ci	5.66E-3	2.79E-3		
iodine-133	Ci	2.63E-2	1.18E-2		
iodine-135	Ci	4.26E-2	2.10E-2		
Total for period	Ci	7.46E-2	3.56E-2		

3. Particulates

strontium-89	Ci	1.29E-3	1.53E-3		
strontium-90	Ci	2.55E-6	2.53E-6		
cesium-134	Ci	1.89E-6	4.46E-6		
cesium-137	Ci	6.64E-5	2.14E-5		
barium-lanthanum-140	Ci	1.24E-3	7.85E-4		
manganese-54	Ci	1.25E-5	1.31E-6		
cobalt-58	Ci	-	3.74E-6		
iron-59	Ci	-	-		
cobalt-60	Ci	1.29E-4	5.90E-5		
zinc-65	Ci	-	-		
zirconium-niobium-95	Ci	-	-		
cerium-141	Ci	-	-		
ruthenium-103	Ci	-	-		
ruthenium-106	Ci	-	2.60E-5		

TABLE 2A
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

JULY-December 1982

Unit	3rd Quarter	4th Quarter	Est. Total Error, %
------	----------------	----------------	------------------------

A. Fission and activation products

1. Total release (not including tritium, noble gases, or alpha)	Ci	3.09E-2	1.25E-1	2.98E+1
2. Average diluted concentration during period	μCi/ml	7.39E-9	6.65E-8	
3. Percent of applicable limit	%	3.09E-1	1.25E0	

B. Tritium

1. Total release	Ci	8.29E-4	4.55E-1	3.00E+1
2. Average diluted concentration during period	μCi/ml	1.98E-10	2.42E-7	
3. Percent of applicable limit	%	1.98E-3	2.42E0	

C. Dissolved and entrained gases

1. Total release	Ci	-	5.39E-3	3.98E+1
2. Average diluted concentration during period	μCi/ml	-	2.87E-9	
3. Percent of applicable limit	%	-	-	

D. Gross alpha radioactivity

1. Total release	Ci	≤ 6.60E-6	≤ 1.65E-5	4.01E+1
------------------	----	-----------	-----------	---------

E. Volume of waste released (prior to dilution)	liters	8.47E+4	2.01E+5	2.00E+1
--	--------	---------	---------	---------

F. Volume of dilution water used during period	liters	4.18E+9	1.88E+9	2.00E+1
---	--------	---------	---------	---------

TABLE 2B
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)

LIQUID EFFLUENTS

July-December 1982

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		3rd Quarter	4th Quarter	Quarter	Quarter
strontium-89	Ci	1.64E-5	2.10E-5		
strontium-90	Ci	4.70E-5	7.78E-5		
cesium-134	Ci	3.30E-4	7.05E-4		
cesium-137	Ci	3.73E-3	9.65E-3		
iodine-131	Ci	5.87E-6	4.12E-5		
cobalt-58	Ci	4.42E-5	1.96E-3		
cobalt-60	Ci	8.67E-3	3.66E-2		
iron-59	Ci	3.49E-6	5.30E-4		
zinc-65	Ci	5.09E-5	5.37E-5		
manganese-54	Ci	6.49E-4	3.74E-3		
chromium-51	Ci	4.02E-5	6.57E-3		
zirconium-niobium-95	Ci	-	1.21E-6		
molybdenum 99- technetium 99m	Ci	-	5.71E-5		
barium-lanthanum-140	Ci	1.03E-6	4.38E-5		
cerium-141	Ci	2.14E-6	1.10E-4		
iodine-133	Ci	-	3.04E-6		
cerium-144	Ci	-	-		
silver-110m	Ci	-	8.01E-4		
iron-55	Ci	1.28E-2	2.41E-2		
unidentified	Ci	4.49E-3	3.95E-2		
Total for period (above)	Ci	3.09E-2	1.25E-1		
xenon-133	Ci	-	2.18E-3		
xenon-135	Ci	-	3.21E-3		

TABLE 3

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1982)
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
JULY - DECEMBER 1982

A. SOLID WASTE SHIPPED OFF SITE 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	99.007 819.10	N/A N/A
b. Dry compressible waste, contaminated equipment, etc.	m ³ Ci	547.666 5.14564	N/A N/A
c. Irradiated components, control rods, etc.	m ³ Ci	none none	N/A N/A
d. Other (describe) Miscellaneous low-level waste	m ³ Ci	none none	N/A N/A

2. ESTIMATE OF MAJOR NUCLIDE COMPOSITION. (by type of waste)

		%	E(Curies)
a. Spent Resins, Filter	Co-60	41.324	338.48620
Sludges, Evaporator	Co-58	3.864	31.65107
Bottoms, etc.	Cs-137	13.426	109.97068
	Cs-134	1.489	12.19371
	Fe-55	11.164	99.44832
	Fe-59	.597	4.89055
	I-131	.464	3.79925
	I-133	.070	.57668
	La-140	.220	1.80569
	Ba-140	.019	.15592
	Sr-89	15.478	126.78505
	Sr-90	.345	2.82477
	Sr-91	.003	.02146
	Tc-99m	.040	.32557
	Zn-65	.723	5.92615
	Mn-54	4.614	37.79740

2. ESTIMATE OF MAJOR NUCLIDE COMPOSITION. (by type of waste)

CONTINUED

		%	E(Curies)
a. Spent Resins, Filter Sludges,	Nb-95	.002	.01495
Evap. Bottoms, Diatomaceous	Cr-51	6.090	49.88606
Earth, etc.	Ag-110m	< .001	.00641
continued	Ce-141	.030	.24916
	Ru-103	.014	.11290
	Sr-92	.001	.00691
	Sb-124	.010	.08267
	Xe-133	< .001	.00034
	Xe-135	.004	.03266
	Mo-99	.007	.05629
	TOTAL:	100.000	819.10682

		%	E(Curies)
b. Dry Compressible Waste,	Co-60	17.46	.89843
Contaminated Equipment	Co-58	6.32	.32546
	Cs-137	6.04	.31058
	Cs-134	1.65	.08565
	Fe-59	1.17	.06038
	I-131	2.74	.14116
	Ba-140	3.76	.19341
	Zn-65	.86	.04430
	Mn-54	3.39	.17448
	Cr-51	56.60	2.91179
	TOTAL:	100.000	5.14564

c. N/A

d. N/A

3. SOLID WASTE DISPOSITION

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
37	Tractor Trailer	Barnwell, S.C.
2	Tractor Trailer	Richland, Wash.

4. IRRADIATED FUEL SHIPMENTS (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
none	N/A	N/A

160 FT TOWER - 33 FT EL

33.0 FT WIND DATA

7/1/82 - 9/31/82

STABILITY CLASS A-- DELTA T LESS THAN -1.9 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 44.89

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	9	0	6	3	0	0	3	0	3	0	0	0	0	0	0	24
(1)	0.0	1.2	0.0	0.8	0.4	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.3
(2)	0.0	0.5	0.0	0.4	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.5
3.6- 7.5	12	6	9	6	15	45	54	21	15	30	12	6	18	27	18	33	327
(1)	1.6	0.8	1.2	0.8	2.0	6.1	7.3	2.8	2.0	4.1	1.6	0.8	2.4	3.7	2.4	4.5	44.3
(2)	0.7	0.4	0.5	0.4	0.9	2.7	3.3	1.3	0.9	1.8	0.7	0.4	1.1	1.6	1.1	2.0	19.9
7.6-12.5	6	3	0	0	0	0	6	12	9	75	87	48	45	24	3	3	321
(1)	0.8	0.4	0.0	0.0	0.0	0.0	0.8	1.6	1.2	10.2	11.8	6.5	6.1	3.3	0.4	0.4	43.5
(2)	0.4	0.2	0.0	0.0	0.0	0.0	0.4	0.7	0.5	4.6	5.3	2.9	2.7	1.5	0.2	0.2	19.5
12.6-18.5	9	6	0	0	0	0	0	0	0	33	15	3	0	0	0	0	66
(1)	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	2.0	0.4	0.0	0.0	0.0	0.0	8.9
(2)	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.9	0.2	0.0	0.0	0.0	0.0	4.0
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	27	24	9	12	18	45	60	36	24	141	114	57	63	51	21	36	738
(1)	3.7	3.3	1.2	1.6	2.4	6.1	8.1	4.9	3.3	19.1	15.4	7.7	8.5	6.9	2.8	4.9	100.0
(2)	1.6	1.5	0.5	0.7	1.1	2.7	3.6	2.2	1.5	8.6	6.9	3.5	3.8	3.1	1.3	2.2	44.9

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 738

CALM=WIND SPEED LESS THAN 1.00MPH

Distribution of Wind Directions
and Speeds for the 33 Ft. Level
of the 160 Ft. Tower

TABLE 4A-1

160 FT TOWER - 33 FT EL

33.0 FT WIND DATA

7/1/82 - 9/31/82

STABILITY CLASS B-- DELTA T -1.9 TO -1.7 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 4.74

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	6
(1)	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
(2)	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
3.6- 7.5	0	0	0	3	0	0	6	3	6	0	3	6	6	3	6	0	42
(1)	0.0	0.0	0.0	3.8	0.0	0.0	7.7	3.8	7.7	0.0	3.8	7.7	7.7	3.8	7.7	0.0	53.8
(2)	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.2	0.4	0.0	0.2	0.4	0.4	0.2	0.4	0.0	2.6
7.6-12.5	0	0	0	0	0	0	0	9	0	12	0	0	0	0	0	3	24
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.0	15.4	0.0	0.0	0.0	0.0	0.0	3.8	30.8
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.2	1.5
12.6-18.5	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	6
(1)	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	7.7
(2)	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	0	6	0	3	0	0	6	12	9	15	3	6	6	3	6	3	78
(1)	0.0	7.7	0.0	3.8	0.0	0.0	7.7	15.4	11.5	19.2	3.8	7.7	7.7	3.8	7.7	3.8	100.0
(2)	0.0	0.4	0.0	0.2	0.0	0.0	0.4	0.7	0.5	0.9	0.2	0.4	0.4	0.2	0.4	0.2	4.7

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 78

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-1 (Continued)

TABLE 4A-1 (Continued)

160 FT TOWER - 33 FT EL
 7/1/82 - 9/31/82
 33.0 FT WIND DATA
 STABILITY CLASS C-- DELTA T -1.6 TO -1.5 DEG C PER 100 METERS
 CLASS FREQUENCY (PERCENT) = 2.92

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.6- 7.5	0	0	0	0	0	0	3	0	3	0	0	0	9	0	3	6	0	24
(1)	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	6.2	0.0	0.0	0.0	18.7	0.0	6.2	12.5	0.0	50.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.5	0.0	0.2	0.4	0.0	1.5
7.6-12.5	0	0	0	0	0	0	0	0	0	0	6	12	3	0	0	0	0	21
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	25.0	6.2	0.0	0.0	0.0	0.0	43.7
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.2	0.0	0.0	0.0	0.0	1.3
12.6-18.5	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	6.2
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	0	0	0	0	0	0	3	0	3	0	6	15	12	0	3	6	0	48
(1)	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	6.2	0.0	12.5	31.2	25.0	0.0	6.2	12.5	0.0	100.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.4	0.9	0.7	0.0	0.2	0.4	0.0	2.9

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 48

CALM=WIND SPEED LESS THAN 1.00MPH

160 FT TOWER - 33 FT EL

33.0 FT WIND DATA

7/1/82 - 9/31/82

STABILITY CLASS D-- DELTA T -1.4 TO -0.5 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 15.33

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	DIRECTION SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
(2)	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
CALM- 3.5	3	0	0	3	3	0	3	9	6	0	0	6	0	0	0	3	36
(1)	1.2	0.0	0.0	1.2	1.2	0.0	1.2	3.6	2.4	0.0	0.0	2.4	0.0	0.0	0.0	1.2	14.3
(2)	0.2	0.0	0.0	0.2	0.2	0.0	0.2	0.5	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.2	2.2
3.6- 7.5	3	0	0	0	12	12	6	6	12	6	0	9	15	12	21	3	117
(1)	1.2	0.0	0.0	0.0	4.8	4.8	2.4	2.4	4.8	2.4	0.0	3.6	6.0	4.8	8.3	1.2	46.4
(2)	0.2	0.0	0.0	0.0	0.7	0.7	0.4	0.4	0.7	0.4	0.0	0.5	0.9	0.7	1.3	0.2	7.1
7.6-12.5	0	0	0	0	0	0	0	3	3	33	18	12	0	0	3	0	72
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	13.1	7.1	4.8	0.0	0.0	1.2	0.0	28.6
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	2.0	1.1	0.7	0.0	0.0	0.2	0.0	4.4
12.6-18.5	3	3	0	0	0	0	0	0	0	0	18	0	0	0	0	0	24
(1)	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	9.5
(2)	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.5
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	12	3	0	3	15	12	9	18	21	39	36	27	15	12	24	6	252
(1)	4.8	1.2	0.0	1.2	6.0	4.8	3.6	7.1	8.3	15.5	14.3	10.7	6.0	4.8	9.5	2.4	100.0
(2)	0.7	0.2	0.0	0.2	0.9	0.7	0.5	1.1	1.3	2.4	2.2	1.6	0.9	0.7	1.5	0.4	15.3

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 252

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-1 (Continued)

160 FT TOWER - 33 FT EL

33.0 FT WIND DATA

7/1/82 - 9/31/82

STABILITY CLASS E-- DELTA T -0.4 TO +1.5 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 19.34

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	3	0	9	9	3	0	6	12	0	3	3	6	3	0	0	57
(1)	0.0	0.9	0.0	2.8	2.8	0.9	0.0	1.9	3.8	0.0	0.9	0.9	1.9	0.9	0.0	0.0	17.9
(2)	0.0	0.2	0.0	0.5	0.5	0.2	0.0	0.4	0.7	0.0	0.2	0.2	0.4	0.2	0.0	0.0	3.5
3.6- 7.5	3	3	6	9	3	6	0	18	15	12	6	54	24	9	12	3	183
(1)	0.9	0.9	1.9	2.8	0.9	1.9	0.0	5.7	4.7	3.8	1.9	17.0	7.5	2.8	3.8	0.9	57.5
(2)	0.2	0.2	0.4	0.5	0.2	0.4	0.0	1.1	0.9	0.7	0.4	3.3	1.5	0.5	0.7	0.2	11.1
7.6-12.5	0	0	0	0	0	0	0	0	0	9	30	12	3	0	0	0	54
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	9.4	3.8	0.9	0.0	0.0	0.0	17.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8	0.7	0.2	0.0	0.0	0.0	3.3
12.6-18.5	0	0	0	0	0	0	0	0	0	3	21	0	0	0	0	0	24
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	6.6	0.0	0.0	0.0	0.0	0.0	7.5
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.0	0.0	0.0	0.0	0.0	1.5
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	3	6	6	18	12	9	0	24	27	24	60	69	33	12	12	3	318
(1)	0.9	1.9	1.9	5.7	3.8	2.8	0.0	7.5	8.5	7.5	18.9	21.7	10.4	3.8	3.8	0.9	100.0
(2)	0.2	0.4	0.4	1.1	0.7	0.5	0.0	1.5	1.6	1.5	3.6	4.2	2.0	0.7	0.7	0.2	19.3

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 318

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-1 (Continued)

160 FT TOWER - 33 FT EL

33.0 FT WIND DATA

7/1/82 - 9/31/82

STABILITY CLASS F-- DELTA T 1.6 TO 4.0 DEG C PER 100METERS

CLASS FREQUENCY (PERCENT) = 10.22

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	0	0	0	6	0	0	3	12	12	6	3	0	3	0	0	45
(1)	0.0	0.0	0.0	0.0	3.6	0.0	0.0	1.8	7.1	7.1	3.6	1.8	0.0	1.8	0.0	0.0	26.8
(2)	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.7	0.7	0.4	0.2	0.0	0.2	0.0	0.0	2.7
3.6- 7.5	0	3	0	0	0	0	3	6	6	6	6	30	21	0	0	3	84
(1)	0.0	1.8	0.0	0.0	0.0	0.0	1.8	3.6	3.6	3.6	3.6	17.9	12.5	0.0	0.0	1.8	50.0
(2)	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.4	0.4	1.8	1.3	0.0	0.0	0.2	5.1
7.6-12.5	0	0	0	0	0	0	0	0	0	3	15	15	0	0	0	0	33
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.9	8.9	0.0	0.0	0.0	0.0	19.6
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.9	0.0	0.0	0.0	0.0	2.0
12.6-18.5	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	3.6
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	0	3	0	0	6	0	3	9	18	21	33	48	21	3	0	3	168
(1)	0.0	1.8	0.0	0.0	3.6	0.0	1.8	5.4	10.7	12.5	19.6	28.6	12.5	1.8	0.0	1.8	100.0
(2)	0.0	0.2	0.0	0.0	0.4	0.0	0.2	0.5	1.1	1.3	2.0	2.9	1.3	0.2	0.0	0.2	10.2

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 168

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-1 (Continued)

160 FT TOWER - 33 FT EL

33.0 FT WIND DATA

7/1/82 - 9/31/82

STABILITY CLASS G-- DELTA T GREATER THAN 4.0 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 2.55

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	0.0	0.0	21.4
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
3.6- 7.5	3	0	0	0	6	0	0	0	9	0	0	3	0	0	0	0	21
(1)	7.1	0.0	0.0	0.0	14.3	0.0	0.0	0.0	21.4	0.0	0.0	7.1	0.0	0.0	0.0	0.0	50.0
(2)	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.3
7.6-12.5	0	0	0	0	0	0	0	0	0	0	6	6	0	0	0	0	12
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	14.3	0.0	0.0	0.0	0.0	28.6
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.7
12.6-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	3	0	0	0	6	0	0	0	9	9	6	9	0	0	0	0	42
(1)	7.1	0.0	0.0	0.0	14.3	0.0	0.0	0.0	21.4	21.4	14.3	21.4	0.0	0.0	0.0	0.0	100.0
(2)	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.5	0.5	0.4	0.5	0.0	0.0	0.0	0.0	2.6

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 42

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-1 (Continued)

160 FT TOWER - 33 FT EL

33.0 FT WIND DATA

7/1/82 - 9/31/82

STABILITY CLASS ALL-- ALL STABILITIES COMBINED

CLASS FREQUENCY (PERCENT) = 100.00

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	DIRECTION SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
-CALM	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
(2)	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
CALM- 3.5	3	15	0	18	21	3	3	21	33	24	9	12	6	6	0	3	177
(1)	0.2	0.9	0.0	1.1	1.3	0.2	0.2	1.3	2.0	1.5	0.5	0.7	0.4	0.4	0.0	0.2	10.8
(2)	0.2	0.9	0.0	1.1	1.3	0.2	0.2	1.3	2.0	1.5	0.5	0.7	0.4	0.4	0.0	0.2	10.8
3.6- 7.5	21	12	15	18	36	63	72	54	66	54	27	117	84	54	63	42	798
(1)	1.3	0.7	0.9	1.1	2.2	3.8	4.4	3.3	4.0	3.3	1.6	7.1	5.1	3.3	3.8	2.6	48.5
(2)	1.3	0.7	0.9	1.1	2.2	3.8	4.4	3.3	4.0	3.3	1.6	7.1	5.1	3.3	3.8	2.6	48.5
7.6-12.5	6	3	0	0	0	0	6	24	12	138	168	96	48	24	6	6	537
(1)	0.4	0.2	0.0	0.0	0.0	0.0	0.4	1.5	0.7	8.4	10.2	5.8	2.9	1.5	0.4	0.4	32.7
(2)	0.4	0.2	0.0	0.0	0.0	0.0	0.4	1.5	0.7	8.4	10.2	5.8	2.9	1.5	0.4	0.4	32.7
12.6-18.5	12	12	0	0	0	0	0	0	0	39	63	3	0	0	0	0	129
(1)	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.8	0.2	0.0	0.0	0.0	0.0	7.8
(2)	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.8	0.2	0.0	0.0	0.0	0.0	7.8
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	45	42	15	36	57	66	81	99	111	255	267	228	138	84	69	51	1644
(1)	2.7	2.6	0.9	2.2	3.5	4.0	4.9	6.0	6.8	15.5	16.2	13.9	8.4	5.1	4.2	3.1	100.0
(2)	2.7	2.6	0.9	2.2	3.5	4.0	4.9	6.0	6.8	15.5	16.2	13.9	8.4	5.1	4.2	3.1	100.0

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE=1644

NUMBER OF HOURS IN THIS PERIOD= 2208

74.5 PERCENT DATA RECOVERY

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-1 (Continued)

160 FT TOWER - 33 FT EL

33.0 FT WIND DATA

10/1/82 - 12/31/82

STABILITY CLASS A-- DELTA T LESS THAN -1.9 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 29.95

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	6
(1)	0.0	0.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
(2)	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
CALM- 3.5	0	3	9	9	12	6	9	0	0	0	0	0	0	3	0	9	60
(1)	0.0	0.8	2.5	2.5	3.4	1.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.5	16.9
(2)	0.0	0.3	0.8	0.8	1.0	0.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.8	5.1
3.6- 7.5	6	6	6	3	6	9	3	0	9	12	12	6	3	9	12	3	105
(1)	1.7	1.7	1.7	0.8	1.7	2.5	0.8	0.0	2.5	3.4	3.4	1.7	0.8	2.5	3.4	0.8	29.7
(2)	0.5	0.5	0.5	0.3	0.5	0.8	0.3	0.0	0.8	1.0	1.0	0.5	0.3	0.8	1.0	0.3	8.9
7.6-12.5	0	0	0	3	0	0	0	0	0	18	36	9	9	33	6	3	117
(1)	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	5.1	10.2	2.5	2.5	9.3	1.7	0.8	33.1
(2)	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.5	3.0	0.8	0.8	2.8	0.5	0.3	9.9
12.6-18.5	9	0	0	0	0	0	0	0	0	0	6	0	0	24	15	12	66
(1)	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	6.8	4.2	3.4	18.6
(2)	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	2.0	1.3	1.0	5.6
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	15	9	15	18	18	18	12	0	9	30	54	15	12	69	33	27	354
(1)	4.2	2.5	4.2	5.1	5.1	5.1	3.4	0.0	2.5	8.5	15.3	4.2	3.4	19.5	9.3	7.6	100.0
(2)	1.3	0.8	1.3	1.5	1.5	1.5	1.0	0.0	0.8	2.5	4.6	1.3	1.0	5.8	2.8	2.3	29.9

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 354

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-1 (Continued)

TABLE 4A-1 (Continued)

33.0 FT WIND DATA
 160 FT TOWER - 33 FT EL
 10/1/82 - 12/31/82
 STABILITY CLASS B-- DELTA T -1.9 TO -1.7 DEG C PER 100 METERS
 CLASS FREQUENCY (PERCENT) = 1.78

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
-CALM (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0
CALM- 3.5 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 14.3 0.3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 14.3 0.3
3.6- 7.5 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 14.3 0.3	0 0.0 0.0	3 14.3 0.3	0 0.0 0.0	0 0.0 0.0	3 14.3 0.3	0 0.0 0.0	9 42.9 0.8
7.6-12.5 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 14.3 0.3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 14.3 0.3	6 28.6 0.5
12.6-18.5 (1) (2)	0 0.0 0.0	0 0.0 0.0	3 14.3 0.3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 14.3 0.3
18.6-24.0 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0
OVER-24.0 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0
ALL SPEEDS (1) (2)	0 0.0 0.0	0 0.0 0.0	3 14.3 0.3	3 14.3 0.3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	7 14.3 0.3	0 0.0 0.0	3 14.3 0.3	0 0.0 0.0	3 14.3 0.3	0 0.0 0.0	0 0.0 0.0	3 14.3 0.3	3 14.3 0.3	21 100.0 1.8

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 21

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-1 (Continued)

160 FT TOWER - 33 FT EL
 10/1/82 - 12/31/82
 33.0 FT WIND DATA
 STABILITY CLASS C-- DELTA T -1.6 TO -1.5 DEG C PER 100 METERS
 CLASS FREQUENCY (PERCENT) = 3.30

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
(2)	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
3.6- 7.5	0	0	0	0	0	0	0	0	3	3	0	0	3	0	3	0	12
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	7.7	0.0	0.0	7.7	0.0	7.7	0.0	30.8
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.3	0.0	0.3	0.0	1.0
7.6-12.5	0	0	0	3	0	0	0	0	0	6	0	3	0	9	0	0	21
(1)	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	15.4	0.0	7.7	0.0	23.1	0.0	0.0	53.8
(2)	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.8	0.0	0.0	1.8
12.6-18.5	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
(2)	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	0	3	3	3	0	0	0	0	3	9	0	3	3	9	3	0	39
(1)	0.0	7.7	7.7	7.7	0.0	0.0	0.0	0.0	7.7	23.1	0.0	7.7	7.7	23.1	7.7	0.0	100.0
(2)	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.8	0.0	0.3	0.3	0.8	0.3	0.0	3.3

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 39

CALM=WIND SPEED LESS THAN 1.0MPH

160 FT TOWER - 33 FT EL

33.0 FT WIND DATA

10/1/82 - 12/31/82

STABILITY CLASS D-- DELTA T -1.4 TO -0.5 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 24.11

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	3	0	3	0	0	0	6	6	3	3	9	0	0	0	3	0	36
(1)	1.1	0.0	1.1	0.0	0.0	0.0	2.1	2.1	1.1	1.1	3.2	0.0	0.0	0.0	1.1	0.0	12.6
(2)	0.3	0.0	0.3	0.0	0.0	0.0	0.5	0.5	0.3	0.3	0.8	0.0	0.0	0.0	0.3	0.0	3.0
3.6- 7.5	6	3	3	0	0	3	6	3	12	6	3	0	3	9	3	0	60
(1)	2.1	1.1	1.1	0.0	0.0	1.1	2.1	1.1	4.2	2.1	1.1	0.0	1.1	3.2	1.1	0.0	21.1
(2)	0.5	0.3	0.3	0.0	0.0	0.3	0.5	0.3	1.0	0.5	0.3	0.0	0.3	0.8	0.3	0.0	5.1
7.6-12.5	3	12	0	3	9	0	0	0	3	30	0	0	36	45	3	0	144
(1)	1.1	4.2	0.0	1.1	3.2	0.0	0.0	0.0	1.1	10.5	0.0	0.0	12.6	15.8	1.1	0.0	50.5
(2)	0.3	1.0	0.0	0.3	0.8	0.0	0.0	0.0	0.3	2.5	0.0	0.0	3.0	3.8	0.3	0.0	12.2
12.6-18.5	3	0	3	0	0	0	0	0	0	3	0	0	0	18	12	0	39
(1)	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	6.3	4.2	0.0	13.7
(2)	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.5	1.0	0.0	3.3
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.1
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	15	15	9	3	9	3	12	9	18	42	12	0	39	72	27	0	285
(1)	5.3	5.3	3.2	1.1	3.2	1.1	4.2	3.2	6.3	14.7	4.2	0.0	13.7	25.3	9.5	0.0	100.0
(2)	1.3	1.3	0.8	0.3	0.8	0.3	1.0	0.8	1.5	3.6	1.0	0.0	3.3	6.1	2.3	0.0	24.1

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 285

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-1 (Continued)

160 FT TOWER - 33 FT EL

33.0 FT WIND DATA

10/1/82 - 12/31/82

STABILITY CLASS E-- DELTA T -0.4 TO +1.5 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 22.84

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
CALM- 3.5	0	0	0	0	0	0	3	6	3	0	0	3	0	0	0	0	15
(1)	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0	5.6
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1.3
3.6- 7.5	0	0	0	0	0	0	0	3	9	21	3	3	9	0	0	3	51
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	7.8	1.1	1.1	3.3	0.0	0.0	1.1	18.9
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.8	0.3	0.3	0.8	0.0	0.0	0.3	4.3
7.6-12.5	0	0	0	0	0	0	6	0	3	78	57	30	12	0	0	0	186
(1)	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	1.1	28.9	21.1	11.1	4.4	0.0	0.0	0.0	68.9
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.3	6.6	4.8	2.5	1.0	0.0	0.0	0.0	15.7
12.6-18.5	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6	0	12
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	2.2	0.0	4.4
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	1.0
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.1
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	0	0	0	0	0	0	9	12	15	99	66	36	21	0	9	3	270
(1)	0.0	0.0	0.0	0.0	0.0	0.0	3.3	4.4	5.6	36.7	24.4	13.3	7.8	0.0	3.3	1.1	100.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.0	1.3	8.4	5.6	3.0	1.8	0.0	0.8	0.3	22.8

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 270

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-1 (Continued)

TABLE 4A-1 (Continued)

33.0 FT WIND DATA
 160 FT TOWER - 33 FT EL
 10/1/82 - 12/31/82
 STABILITY CLASS F-- DELTA T 1.6 TO 4.0 DEG C PER 100METERS
 CLASS FREQUENCY (PERCENT) = 11.68

SPEED(MPH)	WIND DISTRIBUTION SUMMARY																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	0	0	0	0	0	0	0	6	0	0	0	6	3	0	0	15
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	4.3	2.2	0.0	0.0	10.9
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.3	0.0	0.0	1.3
3.6- 7.5	0	3	0	0	0	0	0	3	3	3	12	15	0	0	0	0	39
(1)	0.0	2.2	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	8.7	10.9	0.0	0.0	0.0	0.0	28.3
(2)	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	1.0	1.3	0.0	0.0	0.0	0.0	3.3
7.6-12.5	0	0	0	0	0	0	0	0	3	15	36	27	3	0	0	0	84
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	10.9	26.1	19.6	2.2	0.0	0.0	0.0	60.9
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	3.0	2.3	0.3	0.0	0.0	0.0	7.1
12.6-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	0	3	0	0	0	0	0	3	12	18	48	42	9	3	0	0	138
(1)	0.0	2.2	0.0	0.0	0.0	0.0	0.0	2.2	8.7	13.0	34.8	30.4	6.5	2.2	0.0	0.0	100.0
(2)	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.5	4.1	3.6	0.8	0.3	0.0	0.0	11.7

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 138

CALM=WIND SPEED LESS THAN 1.00MPH

160 FT TOWER - 33 FT EL

33.0 FT WIND DATA

10/1/82 - 12/31/82

STABILITY CLASS G--- DELTA T GREATER THAN 4.0 DEG C PER 100 METERS CLASS FREQUENCY (PERCENT) = 6.35

TABLE 4A-1 (Continued)

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	0	0	0	0	0	0	6	12	9	3	9	0	0	0	0	39
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	16.0	12.0	4.0	12.0	0.0	0.0	0.0	0.0	52.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.8	0.3	0.8	0.0	0.0	0.0	0.0	3.3
3.6- 7.5	0	0	0	0	0	0	0	6	3	3	0	9	0	0	0	0	21
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	4.0	4.0	0.0	12.0	0.0	0.0	0.0	0.0	28.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.3	0.0	0.8	0.0	0.0	0.0	0.0	1.8
7.6-12.5	0	0	0	0	0	0	0	0	3	0	12	0	0	0	0	0	15
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	20.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.3
12.6-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	0	0	0	0	0	0	0	12	18	12	15	18	0	0	0	0	75
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	24.0	16.0	20.0	24.0	0.0	0.0	0.0	0.0	100.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	1.0	1.3	1.5	0.0	0.0	0.0	0.0	6.3

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 75

CALM=WIND SPEED LESS THAN 1.00MPH

160 FT TOWER - 33 FT EL

33.0 FT WIND DATA

10/1/82 - 12/31/82

STABILITY CLASS ALL-- ALL STABILITIES COMBINED

CLASS FREQUENCY (PERCENT) = 100.00

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	3	0	3	0	3	0	0	0	0	0	0	0	0	9
(1)	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
(2)	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
CALM- 3.5	3	6	12	9	12	6	18	21	24	12	12	12	6	6	3	9	171
(1)	0.3	0.5	1.0	0.8	1.0	0.5	1.5	1.8	2.0	1.0	1.0	1.0	0.5	0.5	0.3	0.8	14.5
(2)	0.3	0.5	1.0	0.8	1.0	0.5	1.5	1.8	2.0	1.0	1.0	1.0	0.5	0.5	0.3	0.8	14.5
3.6- 7.5	12	12	9	3	6	12	9	15	39	51	30	36	18	18	21	6	297
(1)	1.0	1.0	0.8	0.3	0.5	1.0	0.8	1.3	3.3	4.3	2.5	3.0	1.5	1.5	1.8	0.5	25.1
(2)	1.0	1.0	0.8	0.3	0.5	1.0	0.8	1.3	3.3	4.3	2.5	3.0	1.5	1.5	1.8	0.5	25.1
7.6-12.5	3	12	0	12	9	0	6	0	12	147	141	69	60	87	9	6	573
(1)	0.3	1.0	0.0	1.0	0.8	0.0	0.5	0.0	1.0	12.4	11.9	5.8	5.1	7.4	0.8	0.5	48.5
(2)	0.3	1.0	0.0	1.0	0.8	0.0	0.5	0.0	1.0	12.4	11.9	5.8	5.1	7.4	0.8	0.5	48.5
12.6-18.5	12	0	9	0	0	0	0	0	0	3	12	0	0	42	33	12	123
(1)	1.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	0.0	0.0	3.6	2.8	1.0	10.4
(2)	1.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	0.0	0.0	3.6	2.8	1.0	10.4
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	9
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	30	30	30	27	27	21	33	39	75	213	195	117	84	153	75	33	1182
(1)	2.5	2.5	2.5	2.3	2.3	1.8	2.8	3.3	6.3	18.0	16.5	9.9	7.1	12.9	6.3	2.8	100.0
(2)	2.5	2.5	2.5	2.3	2.3	1.8	2.8	3.3	6.3	18.0	16.5	9.9	7.1	12.9	6.3	2.8	100.0

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE=1182

NUMBER OF HOURS IN THIS PERIOD= 2208

CALM=WIND SPEED LESS THAN 1.00MPH

53.5 PERCENT DATA RECOVERY

TABLE 4A-1 (Continued)

160 FT TOWER - 160 FT EL

160.0 FT WIND DATA

7/1/82 - 9/31/82

STABILITY CLASS A-- DELTA T LESS THAN -1.9 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 44.89

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.6- 7.5	12	9	12	15	21	15	12	3	0	3	0	0	6	6	6	3	123
(1)	1.6	1.2	1.6	2.0	2.8	2.0	1.6	0.4	0.0	0.4	0.0	0.0	0.8	0.8	0.8	0.4	16.7
(2)	0.7	0.5	0.7	0.9	1.3	0.9	0.7	0.2	0.0	0.2	0.0	0.0	0.4	0.4	0.4	0.2	7.5
7.6-12.5	15	3	0	0	0	18	48	24	21	60	48	21	30	27	15	12	342
(1)	2.0	0.4	0.0	0.0	0.0	2.4	6.5	3.3	2.8	8.1	6.5	2.8	4.1	3.7	2.0	1.6	46.3
(2)	0.9	0.2	0.0	0.0	0.0	1.1	2.9	1.5	1.3	3.6	2.9	1.3	1.8	1.6	0.9	0.7	20.8
12.6-18.5	12	3	0	0	0	3	15	6	9	54	60	21	33	15	3	3	237
(1)	1.6	0.4	0.0	0.0	0.0	0.4	2.0	0.8	1.2	7.3	8.1	2.8	4.5	2.0	0.4	0.4	32.1
(2)	0.7	0.2	0.0	0.0	0.0	0.2	0.9	0.4	0.5	3.3	3.6	1.3	2.0	0.9	0.2	0.2	14.4
18.6-24.0	6	3	0	0	0	0	0	0	0	15	12	0	0	0	0	0	36
(1)	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.6	0.0	0.0	0.0	0.0	0.0	4.9
(2)	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.7	0.0	0.0	0.0	0.0	0.0	2.2
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	45	18	12	15	21	36	75	33	30	132	120	42	69	48	24	18	738
(1)	6.1	2.4	1.6	2.0	2.8	4.9	10.2	4.5	4.1	17.9	16.3	5.7	9.3	6.5	3.3	2.4	100.0
(2)	2.7	1.1	0.7	0.9	1.3	2.2	4.6	2.0	1.8	8.0	7.3	2.6	4.2	2.9	1.5	1.1	44.9

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 738

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-2
Distribution of Wind Directions
and Speeds for the 160 Ft. Level
of the 160 Ft. Tower

TABLE 4A-2 (Continued)

160.0 FT WIND DATA
 160 FT TOWER - 160 FT EL
 7/1/82 - 9/31/82
 STABILITY CLASS B-- DELTA T -1.9 TO -1.7 DEG C PER 100 METERS
 CLASS FREQUENCY (PERCENT) = 4.74

WIND DISTRIBUTION SUMMARY																	
SPEED(MPH)	DIRECTION																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.6- 7.5	0	0	6	0	0	0	0	6	3	0	0	0	0	0	0	0	15
(1)	0.0	0.0	7.7	0.0	0.0	0.0	0.0	7.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2
(2)	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
7.6-12.5	0	0	0	0	0	3	3	0	3	3	3	3	6	3	6	0	33
(1)	0.0	0.0	0.0	0.0	0.0	3.8	3.8	0.0	3.8	3.8	3.8	3.8	7.7	3.8	7.7	0.0	42.3
(2)	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.4	0.2	0.4	0.0	2.0
12.6-18.5	3	0	0	0	0	0	3	6	0	0	9	0	3	0	0	0	24
(1)	3.8	0.0	0.0	0.0	0.0	0.0	3.8	7.7	0.0	0.0	11.5	0.0	3.8	0.0	0.0	0.0	30.8
(2)	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.5	0.0	0.2	0.0	0.0	0.0	1.5
18.6-24.0	0	3	0	0	0	0	0	0	0	0	3	0	0	0	0	0	6
(1)	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	7.7
(2)	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.4
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	3	3	6	0	0	3	6	12	6	3	15	3	9	3	6	0	78
(1)	3.8	3.8	7.7	0.0	0.0	3.8	7.7	15.4	7.7	3.8	19.2	3.8	11.5	3.8	7.7	0.0	100.0
(2)	0.2	0.2	0.4	0.0	0.0	0.2	0.4	0.7	0.4	0.2	0.9	0.2	0.5	0.2	0.4	0.0	4.7

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 78

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-2 (Continued)

160.0 FT WIND DATA
 160 FT TOWER - 160 FT EL
 7/1/82 - 9/31/82
 STABILITY CLASS C-- DELTA T -1.6 TO -1.5 DEG C PER 100 METERS
 CLASS FREQUENCY (PERCENT) = 2.92

SPEED(MPH)	WIND DIRECTION SUMMARY																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.6- 7.5	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	6.2
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2
7.6-12.5	0	0	0	0	0	0	0	0	3	0	0	9	0	0	3	3	21
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2	0.0	0.0	18.7	0.0	0.0	6.2	6.2	43.7
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.5	0.0	0.0	0.2	0.2	1.3
12.6-18.5	0	0	0	0	0	0	0	0	0	3	15	0	3	0	0	0	21
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	31.2	0.0	6.2	0.0	0.0	0.0	43.7
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.0	0.2	0.0	0.0	0.0	1.3
18.6-24.0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	6.2
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	0	0	0	0	0	0	0	3	3	6	15	9	6	0	3	3	48
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2	12.5	31.2	18.7	12.5	0.0	6.2	6.2	100.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.9	0.5	0.4	0.0	0.2	0.2	2.9

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 48

CALM=WIND SPEED LESS THAN 1.00MPH

160 FT TOWER - 160 FT EL

160.0 FT WIND DATA

7/1/82 - 9/31/82

STABILITY CLASS D-- DELTA T -1.4 TO -0.5 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 15.33

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	0	3	0	6	0	0	0	0	3	3	0	0	3	3	0	21
(1)	0.0	0.0	1.2	0.0	2.4	0.0	0.0	0.0	0.0	1.2	1.2	0.0	0.0	1.2	1.2	0.0	8.3
(2)	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.2	0.0	1.3
3.6- 7.5	0	0	0	0	3	0	3	9	0	6	6	0	0	6	3	3	39
(1)	0.0	0.0	0.0	0.0	1.2	0.0	1.2	3.6	0.0	2.4	2.4	0.0	0.0	2.4	1.2	1.2	15.5
(2)	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.5	0.0	0.4	0.4	0.0	0.0	0.4	0.2	0.2	2.4
7.6-12.5	3	0	0	0	0	3	6	9	9	0	3	6	9	9	12	12	81
(1)	1.2	0.0	0.0	0.0	0.0	1.2	2.4	3.6	3.6	0.0	1.2	2.4	3.6	3.6	4.8	4.8	32.1
(2)	0.2	0.0	0.0	0.0	0.0	0.2	0.4	0.5	0.5	0.0	0.2	0.4	0.5	0.5	0.7	0.7	4.9
12.6-18.5	3	0	0	0	0	6	6	3	0	18	30	6	12	0	0	0	84
(1)	1.2	0.0	0.0	0.0	0.0	2.4	2.4	1.2	0.0	7.1	11.9	2.4	4.8	0.0	0.0	0.0	33.3
(2)	0.2	0.0	0.0	0.0	0.0	0.4	0.4	0.2	0.0	1.1	1.8	0.4	0.7	0.0	0.0	0.0	5.1
18.6-24.0	3	0	0	0	0	0	0	0	0	3	21	0	0	0	0	0	27
(1)	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	8.3	0.0	0.0	0.0	0.0	0.0	10.7
(2)	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.0	0.0	0.0	0.0	0.0	1.6
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	9	0	3	0	9	9	15	21	9	30	63	12	21	18	18	15	252
(1)	3.6	0.0	1.2	0.0	3.6	3.6	6.0	8.3	3.6	11.9	25.0	4.8	8.3	7.1	7.1	6.0	100.0
(2)	0.5	0.0	0.2	0.0	0.5	0.5	0.9	1.3	0.5	1.8	3.8	0.7	1.3	1.1	1.1	0.9	15.3

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 252

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-2 (Continued)

TABLE 4A-2 (Continued)

160.0 FT WIND DATA		160 FT TOWER - 160 FT EL														7/1/82 - 9/31/82		CLASS FREQUENCY (PERCENT) = 19.34																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
STABILITY CLASS E-- DELTA T -0.4 TO +1.5 DEG C PER 100 METERS		WIND DISTRIBUTION SUMMARY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
SPEED(MPH)		DIRECTION														NNW	NW	WNW	W	WSW	SW	SSW	S	SSE	SE	ESE	E	ENE	NE	NNE	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
-CALM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 318

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-2 (Continued)

160.0 FT WIND DATA
 160 FT TOWER - 160 FT EL
 7/1/82 - 9/31/82
 STABILITY CLASS F-- DELTA T 1.6 TO 4.0 DEG C PER 100METERS
 CLASS FREQUENCY (PERCENT) = 10.22

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
-CALM	3	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	9
(1)	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	5.4
(2)	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5
CALM- 3.5	3	0	0	3	0	6	0	3	3	0	3	0	0	0	0	0	21
(1)	1.8	0.0	0.0	1.8	0.0	3.6	0.0	1.8	1.8	0.0	1.8	0.0	0.0	0.0	0.0	0.0	12.5
(2)	0.2	0.0	0.0	0.2	0.0	0.4	0.0	0.2	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.3
3.6- 7.5	0	0	0	3	0	0	0	6	3	0	0	3	3	0	0	0	18
(1)	0.0	0.0	0.0	1.8	0.0	0.0	0.0	3.6	1.8	0.0	0.0	1.8	1.8	0.0	0.0	0.0	10.7
(2)	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.2	0.2	0.0	0.0	0.0	1.1
7.6-12.5	3	0	0	0	0	0	0	9	3	0	3	3	3	6	3	0	51
(1)	1.8	0.0	0.0	0.0	0.0	0.0	0.0	5.4	1.8	0.0	1.8	1.8	12.5	3.6	1.8	0.0	30.4
(2)	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.0	0.2	0.2	1.3	0.4	0.2	0.0	3.1
12.6-18.5	0	0	3	0	0	0	0	0	3	3	6	15	9	15	0	0	54
(1)	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.6	8.9	5.4	8.9	0.0	0.0	32.1
(2)	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.9	0.5	0.9	0.0	0.0	3.3
18.6-24.0	0	0	0	0	0	0	0	0	0	0	9	3	0	0	0	0	12
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	1.8	0.0	0.0	0.0	0.0	7.1
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.0	0.0	0.0	0.0	0.7
OVER-24.0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	1.8
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2
ALL SPEEDS	9	3	3	6	0	6	0	18	12	6	24	24	33	21	3	0	168
(1)	5.4	1.8	1.8	3.6	0.0	3.6	0.0	10.7	7.1	3.6	14.3	14.3	19.6	12.5	1.8	0.0	100.0
(2)	0.5	0.2	0.2	0.4	0.0	0.4	0.0	1.1	0.7	0.4	1.5	1.5	2.0	1.3	0.2	0.0	10.2

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 168

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-2 (Continued)

160.0 FT WIND DATA
 160 FT TOWER - 160 FT EL
 7/1/82 - 9/31/82
 STABILITY CLASS G--- DELTA T GREATER THAN 4.0 DEG C PER 100 METERS
 CLASS FREQUENCY (PERCENT) = 2.55

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
-CALM (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0
CALM- 3.5 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0
3.6- 7.5 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	6 14.3 0.4	0 0.0 0.0	3 7.1 0.2	3 7.1 0.2	0 0.0 0.0	0 0.0 0.0	3 7.1 0.2	0 0.0 0.0	3 7.1 0.2	0 0.0 0.0	0 0.0 0.0	18 42.9 1.1
7.6-12.0 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 7.1 0.2	6 14.3 0.4	0 0.0 0.0	0 0.0 0.0	6 14.3 0.4	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	15 35.7 0.9
12.6-18.5 (1) (2)	0 0.0 0.0	3 7.1 0.2	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	6 14.3 0.4	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	9 21.4 0.5
18.6-24.0 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0
OVER-24.0 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0
ALL SPEEDS (1) (2)	0 0.0 0.0	3 7.1 0.2	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	6 14.3 0.4	0 0.0 0.0	6 14.3 0.4	9 21.4 0.5	0 0.0 0.0	0 0.0 0.0	15 35.7 0.9	0 0.0 0.0	3 7.1 0.2	0 0.0 0.0	0 0.0 0.0	42 100.0 2.6

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE = 42

CALM=WIND SPEED LESS THAN 1.00MPH

160 FT TOWER - 160 FT EL

160.0 FT WIND DATA

7/1/82 - 9/31/82

STABILITY CLASS ALL-- ALL STABILITIES COMBINED

CLASS FREQUENCY (PERCENT) = 100.00

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	3	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	9
(1)	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5
(2)	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5
CALM- 3.5	3	6	3	3	6	6	3	6	6	6	6	0	0	3	3	3	63
(1)	0.2	0.4	0.2	0.2	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.0	0.0	0.2	0.2	0.2	3.8
(2)	0.2	0.4	0.2	0.2	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.0	0.0	0.2	0.2	0.2	3.8
3.6- 7.5	12	21	21	21	27	21	21	30	15	9	9	12	15	18	15	12	279
(1)	0.7	1.3	1.3	1.3	1.6	1.3	1.3	1.8	0.9	0.5	0.5	0.7	0.9	1.1	0.9	0.7	17.0
(2)	0.7	1.3	1.3	1.3	1.6	1.3	1.3	1.8	0.9	0.5	0.5	0.7	0.9	1.1	0.9	0.7	17.0
7.6-12.5	24	9	0	0	0	27	57	69	60	69	60	63	87	54	42	30	651
(1)	1.5	0.5	0.0	0.0	0.0	1.6	3.5	4.2	3.6	4.2	3.6	3.8	5.3	3.3	2.6	1.8	39.6
(2)	1.5	0.5	0.0	0.0	0.0	1.6	3.5	4.2	3.6	4.2	3.6	3.8	5.3	3.3	2.6	1.8	39.6
12.6-18.5	24	6	3	0	0	9	24	15	12	87	135	63	93	30	6	6	513
(1)	1.5	0.4	0.2	0.0	0.0	0.5	1.5	0.9	0.7	5.3	8.2	3.8	5.7	1.8	0.4	0.4	31.2
(2)	1.5	0.4	0.2	0.0	0.0	0.5	1.5	0.9	0.7	5.3	8.2	3.8	5.7	1.8	0.4	0.4	31.2
18.6-24.0	9	6	0	0	0	0	3	0	0	21	81	6	0	0	0	0	126
(1)	0.5	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.3	4.9	0.4	0.0	0.0	0.0	0.0	7.7
(2)	0.5	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.3	4.9	0.4	0.0	0.0	0.0	0.0	7.7
OVER-24.0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2
ALL SPEEDS	75	51	27	24	33	63	108	120	93	195	294	144	195	105	66	51	1644
(1)	4.6	3.1	1.6	1.5	2.0	3.8	6.6	7.3	5.7	11.9	17.9	8.8	11.9	6.4	4.0	3.1	100.0
(2)	4.6	3.1	1.6	1.5	2.0	3.8	6.6	7.3	5.7	11.9	17.9	8.8	11.9	6.4	4.0	3.1	100.0

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE=1644

NUMBER OF HOURS IN THIS PERIOD= 2208

CALM=WIND SPEED LESS THAN 1.00MPH

74.5 PERCENT DATA RECOVERY

TABLE 4A-2 (Continued)

160 FT TOWER - 160 FT EL

160.0 FT WIND DATA

10/1/82 - 12/31/82

STABILITY CLASS ALL-- ALL STABILITIES COMBINED

CLASS FREQUENCY (PERCENT) = 100.00

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	3	9	3	6	0	0	0	6	0	3	0	0	3	0	0	33
(1)	0.0	0.3	0.8	0.3	0.5	0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.0	0.3	0.0	0.0	2.8
(2)	0.0	0.3	0.8	0.3	0.5	0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.0	0.3	0.0	0.0	2.8
3.6- 7.5	21	6	6	3	24	27	18	18	24	12	27	6	0	9	21	9	231
(1)	1.8	0.5	0.5	0.3	2.0	2.3	1.5	1.5	2.0	1.0	2.3	0.5	0.0	0.8	1.8	0.8	19.5
(2)	1.8	0.5	0.5	0.3	2.0	2.3	1.5	1.5	2.0	1.0	2.3	0.5	0.0	0.8	1.8	0.8	19.5
7.6-12.5	3	15	6	9	0	0	3	9	33	69	42	27	60	39	9	3	327
(1)	0.3	1.3	0.5	0.8	0.0	0.0	0.3	0.8	2.8	5.8	3.6	2.3	5.1	3.3	0.8	0.3	27.7
(2)	0.3	1.3	0.5	0.8	0.0	0.0	0.3	0.8	2.8	5.8	3.6	2.3	5.1	3.3	0.8	0.3	27.7
12.6-18.5	12	6	9	0	9	9	6	0	0	84	102	78	57	102	21	12	507
(1)	1.0	0.5	0.8	0.0	0.8	0.8	0.5	0.0	0.0	7.1	8.6	6.6	4.8	8.6	1.8	1.0	42.9
(2)	1.0	0.5	0.8	0.0	0.8	0.8	0.5	0.0	0.0	7.1	8.6	6.6	4.8	8.6	1.8	1.0	42.9
18.6-24.0	3	0	0	0	0	0	0	0	0	0	15	6	0	15	24	6	69
(1)	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.5	0.0	1.3	2.0	0.5	5.8
(2)	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.5	0.0	1.3	2.0	0.5	5.8
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	15
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3
ALL SPEEDS	39	30	30	15	39	36	27	27	63	165	189	117	117	168	90	30	1182
(1)	3.3	2.5	2.5	1.3	3.3	3.0	2.3	2.3	5.3	14.0	16.0	9.9	9.9	14.2	7.6	2.5	100.0
(2)	3.3	2.5	2.5	1.3	3.3	3.0	2.3	2.3	5.3	14.0	16.0	9.9	9.9	14.2	7.6	2.5	100.0

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE=1182

NUMBER OF HOURS IN THIS PERIOD= 2208

53.5 PERCENT DATA RECOVERY

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-2 (Continued)

160 FT TOWER - 160 FT EL

160.0 FT WIND DATA

10/1/82 - 12/31/82

STABILITY CLASS G--- DELTA T GREATER THAN 4.0 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 6.35

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
3.6- 7.5	0	0	0	0	0	0	6	6	9	0	3	0	0	0	6	3	33
(1)	0.0	0.0	0.0	0.0	0.0	0.0	8.0	8.0	12.0	0.0	4.0	0.0	0.0	0.0	8.0	4.0	44.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.8	0.0	0.3	0.0	0.0	0.0	0.5	0.3	2.8
7.6-12.5	0	0	0	0	0	0	0	0	6	3	3	0	0	9	0	0	21
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	4.0	4.0	0.0	0.0	12.0	0.0	0.0	28.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.3	0.0	0.0	0.8	0.0	0.0	1.8
12.6-18.5	0	0	0	0	0	0	0	0	0	3	3	9	0	0	0	0	15
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0	12.0	0.0	0.0	0.0	0.0	20.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.8	0.0	0.0	0.0	0.0	1.3
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	0	0	0	0	0	0	6	6	21	6	9	9	0	9	6	3	75
(1)	0.0	0.0	0.0	0.0	0.0	0.0	8.0	8.0	28.0	8.0	12.0	12.0	0.0	12.0	8.0	4.0	100.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.8	0.5	0.3	0.8	0.0	0.8	0.5	0.3	6.3

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE = 75

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-2 (Continued)

TABLE 4A-2 (Continued)

160.0 FT WIND DATA
 160 FT TOWER - 160 FT EL
 10/1/82 - 12/31/82
 STABILITY CLASS F-- DELTA T 1.6 TO 4.0 DEG C PER 100METERS
 CLASS FREQUENCY (PERCENT) = 11.68

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
-CALM (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0
CALM- 3.5 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0
3.6- 7.5 (1) (2)	9 6.5 0.8	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 2.2 0.3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 2.2 0.3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 2.2 0.3	0 0.0 0.0	18 13.0 1.5
7.6-12.5 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 2.2 0.3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	6 4.3 0.5	3 2.2 0.3	12 8.7 1.0	15 10.9 1.3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	42 30.4 3.6
12.6-18.5 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	9 6.5 0.8	18 13.0 1.5	24 17.4 2.0	21 15.2 1.8	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	72 52.2 6.1
18.6-24.0 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	6 4.3 0.5	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	6 4.3 0.5
OVER-24.0 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0
ALL SPEEDS (1) (2)	9 6.5 0.8	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 2.2 0.3	3 2.2 0.3	3 2.2 0.3	3 2.2 0.3	15 10.9 1.3	24 17.4 2.0	42 30.4 3.6	36 26.1 3.0	0 0.0 0.0	3 2.2 0.3	0 0.0 0.0	138 100.0 11.7

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 138

CALM=WIND SPEED LESS THAN 1.0MPH

160 FT TOWER - 160 FT EL

160.0 FT WIND DATA

10/1/82 - 12/31/82

STABILITY CLASS E-- DELTA T -0.4 TO +1.5 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 22.84

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	DIRECTION SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.6- 7.5	0	0	0	0	0	6	0	0	9	9	3	0	0	3	3	0	33
(1)	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	3.3	3.3	1.1	0.0	0.0	1.1	1.1	0.0	12.2
(2)	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.8	0.8	0.3	0.0	0.0	0.3	0.3	0.0	2.8
7.6-12.5	0	0	0	0	0	0	0	0	9	9	12	3	12	3	0	0	48
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	4.4	1.1	4.4	1.1	0.0	0.0	17.8
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.0	0.3	1.0	0.3	0.0	0.0	4.1
12.6-18.5	0	0	0	0	0	0	6	0	0	39	60	45	9	6	0	0	165
(1)	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	14.4	22.2	16.7	3.3	2.2	0.0	0.0	61.1
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	3.3	5.1	3.8	0.8	0.5	0.0	0.0	14.0
18.6-24.0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	3	0	18
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	1.1	0.0	6.7
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.3	0.0	1.5
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	2.2
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
ALL SPEEDS	0	0	0	0	0	6	6	0	18	57	90	48	21	12	12	0	270
(1)	0.0	0.0	0.0	0.0	0.0	2.2	2.2	0.0	6.7	21.1	33.3	17.8	7.8	4.4	4.4	0.0	100.0
(2)	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	1.5	4.8	7.6	4.1	1.8	1.0	1.0	0.0	22.8

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 270

CALM=WIND SPEED LESS THAN 1.00MPH

160 FT TOWER - 160 FT EL

160.0 FT WIND DATA

10/1/82 - 12/31/82

STABILITY CLASS D-- DELTA T -1.4 TO -0.5 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 24.11

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	0	6	3	0	0	0	0	0	0	3	0	0	0	0	0	12
(1)	0.0	0.0	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	4.2
(2)	0.0	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.0
3.6- 7.5	3	3	0	0	0	6	3	3	6	3	9	0	0	0	0	0	36
(1)	1.1	1.1	0.0	0.0	0.0	2.1	1.1	1.1	2.1	1.1	3.2	0.0	0.0	0.0	0.0	0.0	12.6
(2)	0.3	0.3	0.0	0.0	0.0	0.5	0.3	0.3	0.5	0.3	0.8	0.0	0.0	0.0	0.0	0.0	3.0
7.6-12.5	3	9	0	3	0	0	0	6	6	6	6	0	9	9	0	0	57
(1)	1.1	3.2	0.0	1.1	0.0	0.0	0.0	2.1	2.1	2.1	2.1	0.0	3.2	3.2	0.0	0.0	20.0
(2)	0.3	0.8	0.0	0.3	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.8	0.8	0.0	0.0	4.8
12.6-18.5	3	6	3	0	9	9	0	0	0	24	6	0	18	69	12	0	159
(1)	1.1	2.1	1.1	0.0	3.2	3.2	0.0	0.0	0.0	8.4	2.1	0.0	6.3	24.2	4.2	0.0	55.8
(2)	0.3	0.5	0.3	0.0	0.8	0.8	0.0	0.0	0.0	2.0	0.5	0.0	1.5	5.8	1.0	0.0	13.5
18.6-24.0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	12
(1)	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	4.2
(2)	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	9
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	3.2
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8
ALL SPEEDS	12	18	9	6	9	15	3	9	12	33	24	0	27	78	30	0	285
(1)	4.2	6.3	3.2	2.1	3.2	5.3	1.1	3.2	4.2	11.6	8.4	0.0	9.5	27.4	10.5	0.0	100.0
(2)	1.0	1.5	0.8	0.5	0.8	1.3	0.3	0.8	1.0	2.8	2.0	0.0	2.3	6.6	2.5	0.0	24.1

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 285

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-2 (Continued)

Table 4A-2 (Continued)

160 FT TOWER - 160 FT EL
 10/1/82 - 12/31/82
 160.0 FT WIND DATA
 STABILITY CLASS C-- DELTA T -1.6 TO -1.5 DEG C PER 100 METERS
 CLASS FREQUENCY (PERCENT) = 3.30

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
-CALM (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0
CALM- 3.5 (1) (2)	0 0.0 0.0	3 7.7 0.3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 7.7 0.3
3.6- 7.5 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 7.7 0.3	0 0.0 0.0	0 0.0 0.0	3 7.7 0.3
7.6-12.5 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 7.7 0.3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	6 15.4 0.5	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	9 23.1 0.8
12.6-18.5 (1) (2)	0 0.0 0.0	0 0.0 0.0	3 7.7 0.3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	6 15.4 0.5	0 0.0 0.0	0 0.0 0.0	6 15.4 0.5	9 23.1 0.8	0 0.0 0.0	0 0.0 0.0	24 61.5 2.0
18.6-24.0 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0
OVER-24.0 (1) (2)	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0
ALL SPEEDS (1) (2)	0 0.0 0.0	3 7.7 0.3	3 7.7 0.3	3 7.7 0.3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	12 30.8 1.0	0 0.0 0.0	0 0.0 0.0	6 15.4 0.5	12 30.8 1.0	0 0.0 0.0	0 0.0 0.0	39 100.0 3.3

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 39

CALM=WIND SPEED LESS THAN 1.00MPH

160 FT TOWER - 160 FT EL

160.0 FT WIND DATA

10/1/82 - 12/31/82

STABILITY CLASS B-- DELTA T -1.9 TO -1.7 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 1.78

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
-CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM- 3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.6- 7.5	0	0	0	0	0	0	0	3	0	0	0	3	0	3	0	0	9
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0	14.3	0.0	14.3	0.0	0.0	42.9
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.8
7.6-12.5	0	0	3	0	0	0	0	0	0	3	0	0	0	0	3	0	9
(1)	0.0	0.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0	0.0	14.3	0.0	42.9
(2)	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.8
12.6-18.5	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	0.0	0.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3
(2)	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	0	0	6	0	0	0	0	3	0	3	0	3	0	3	3	0	21
(1)	0.0	0.0	28.6	0.0	0.0	0.0	0.0	14.3	0.0	14.3	0.0	14.3	0.0	14.3	14.3	0.0	100.0
(2)	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.3	0.0	0.3	0.3	0.0	1.8

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 21

CALM=WIND SPEED LESS THAN 1.00MPH

160 FT TOWER - 160 FT EL

160.0 FT WIND DATA

10/1/82 - 12/31/82

STABILITY CLASS A-- DELTA T LESS THAN -1.9 DEG C PER 100 METERS

CLASS FREQUENCY (PERCENT) = 29.95

WIND DISTRIBUTION SUMMARY

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM-3.5	0	0	3	0	6	0	0	0	0	0	0	0	0	3	0	0	12
(1)	0.0	0.0	0.6	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	3.4
(2)	0.0	0.0	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	1.0
3.6-7.5	9	3	6	3	24	15	6	6	0	0	9	3	0	0	9	6	99
(1)	2.5	0.8	1.7	0.8	6.8	4.2	1.7	1.7	0.0	0.0	2.5	0.8	0.0	0.0	2.5	1.7	28.0
(2)	0.8	0.3	0.5	0.3	2.0	1.3	0.5	0.5	0.0	0.0	0.8	0.3	0.0	0.0	0.8	0.5	8.4
7.6-12.5	0	6	3	3	0	0	3	0	9	36	18	12	24	18	6	3	141
(1)	0.0	1.7	0.8	0.8	0.0	0.0	0.8	0.0	2.5	10.2	5.1	3.4	6.8	5.1	1.7	0.8	39.8
(2)	0.0	0.5	0.3	0.3	0.0	0.0	0.3	0.0	0.8	3.6	1.5	1.0	2.0	1.5	0.5	0.3	11.9
12.6-18.5	9	0	0	0	0	0	0	0	0	3	15	0	3	18	9	12	69
(1)	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.2	0.0	0.8	5.1	2.5	3.4	19.5
(2)	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	0.0	0.3	1.5	0.8	1.0	5.8
18.6-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	12	6	33
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	3.4	1.7	9.3
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.0	0.5	2.8
OVER-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL SPEEDS	18	9	12	6	30	15	9	6	9	39	42	15	27	54	36	27	354
(1)	5.1	2.5	3.4	1.7	8.5	4.2	2.5	1.7	2.5	11.0	11.9	4.2	7.6	15.3	10.2	7.6	100.0
(2)	1.5	0.8	1.0	0.5	2.5	1.3	0.8	0.5	0.8	3.3	3.6	1.3	2.5	4.6	3.0	2.3	29.9

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THE PERIOD

NUMBER OF GOOD OBSERVATIONS ON THIS PAGE= 354

CALM=WIND SPEED LESS THAN 1.00MPH

TABLE 4A-2 (Continued)

3. OFF-SITE DOSES RESULTING FROM RADIOACTIVE LIQUID EFFLUENTS

3.1 General Dose Assessment

The methods and parameters used to calculate the off-site doses are presented in the Appendix I analysis for Unit #1¹. Population data are based upon the 1980 census data³; effluent releases are given elsewhere in this report.

Numerical constants used in the analyses have been updated to conform to Revision 1 of Regulatory Guide 1.109 dated October 1977.

3.2 Maximum Individual Doses

The maximum individual doses and pathways considered are shown in Tables 3.2-1 through 3.2-3.

3.3 Population Doses

The population doses are shown in Table 3.3-1.

Table 3.2-1

July-December 1982 Liquid Release Maximum Individual
Doses From All Pathways For Adults (MREM)

<u>Pathway</u>	<u>Bone</u>	<u>Liver</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>	<u>Total Body</u>
Salt Water Fish	0.002	0.002	< 0.001	< 0.001	0.001	0.004	0.0	< 0.001
Salt Water Shell Fish	0.006	0.005	< 0.001	< 0.001	0.002	0.01	0.0	0.002
Discharge Canal Shoreline	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ocean Shoreline Deposits	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Swimming	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Boating	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Total	0.01	0.01	0.003	0.004	0.007	0.02	0.004	0.006

Table 3.2-2

July-December 1982 Liquid Release Maximum Individual
Doses From All Pathways For Teenagers (MREM)

<u>Pathway</u>	<u>Bone</u>	<u>Liver</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>	<u>Total Body</u>
Salt Water Fish	0.003	0.003	<0.001	<0.001	0.001	0.003	0.0	0.001
Salt Water Shell Fish	0.006	0.005	<0.001	<0.001	0.003	0.006	0.0	0.002
Discharge Canal Shoreline	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Ocean Shoreline Deposits	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Swimming	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Boating	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Total	0.014	0.012	0.005	0.006	0.09	0.014	0.005	0.008

Table 3.2-3

July-December 1982 Liquid Release Maximum Individual
Doses From All Pathways For Children (MREM)

<u>Pathway</u>	<u>Bone</u>	<u>Liver</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>	<u>Total Body</u>
Salt Water Fish	0.003	0.002	<0.001	<0.001	0.001	0.001	0.0	0.001
Salt Water Shell Fish	0.009	0.005	<0.001	<0.001	0.003	0.003	0.0	0.002
Discharge Canal Shoreline	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ocean Shoreline Deposits	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Swimming	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Boating	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total	0.014	0.01	0.002	0.002	0.006	0.006	0.002	0.005

Table 3.3-1
Population Doses Resulting From The
July-December 1982 Liquid Effluents

<u>Pathway</u>	<u>Thyroid (MAN-REM)</u>	<u>Total Body (MAN-REM)</u>
Salt Water Fish	≤ 0.01	0.04
Salt Water Shell Fish	≤ 0.01	0.02
Salt Water Plants	≤ 0.01	≤ 0.01
Ocean Shoreline Deposits	0.03	0.03
Swimming	0.03	0.03
Total	0.06	0.10

NOTE: These are the major pathways for liquid effluents.

4. OFF-SITE DOSES RESULTING FROM RADIOACTIVE GASEOUS EFFLUENTS

4.1 General Dose Assessment

The methods and parameters used to calculate the off-site doses are presented in the Appendix I analysis for Unit #1¹. The gaseous releases for both reactor building vent and the main stack, for the period July-December 1982 are elsewhere in this report. Meteorological information for calculating dispersion of these releases are shown in Tables 4.1-1 through 4.1-12. For each quarter year, values of X/Q, X/Q depleted and D/Q are tabulated for twenty-three radial distances at sixteen compass directions using the AEOLUS program which was provided to Boston Edison by the Yankee Atomic Electric Company.

AEOLUS is a computer code for evaluating atmospheric dispersion of routine radioactive effluents from commercial nuclear power stations, and for computing statistical distributions of radiation doses which would result from postulated accidental releases of assumed intensity. The code is based, in part, on Regulatory Guide 1.111 developed by the U. S. Nuclear Regulatory Commission as guidance toward implementation of Appendix I to 10 CFR Part 50 and the "as low as reasonably achievable" objectives. Table 4.1-1 through 4.1-12 are based on data taken at the 160-foot elevation for the main stack and the 33-foot elevation for the reactor building vent.

4.2 Maximum Individual Doses

The maximum individual dose locations and pathways assumed are presented in Table 4.2-1. The resultant maximum individual adult, teenage, child and infant doses are reported in Tables 4.2-2 through 4.2-5. In the summary Table 4.2-6, doses from noble gas immersion are included for skin and total body; individual organ doses are due to iodine and air particulates only.

4.3 Population Doses

The assumed population distribution is shown in Table 4.3-1 and is based upon 1980 Census Data for the permanent population.³ The population doses by pathway are presented in Table 4.3-2.

In accordance with Regulatory Guide 1.21, only pathways yielding significant contribution to the total dose have been included; those pathways not included account for a total of less than 5% of the overall population dose.

UNDEPLETED X/Q FOR THE REACTOR BUILDING VENT JUL - SEP , 1982

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		S - (1) 0.0	SSW - (2) 22.5	SW - (3) 45.0	WSW - (4) 67.5	W - (5) 90.0	WNW - (6) 112.5	NW - (7) 135.0	NNW - (8) 157.5
1	201.20	2.180E-05	2.060E-05	2.890E-05	2.360E-05	2.320E-05	2.670E-05	2.390E-05	2.930E-05
2	402.30	6.240E-06	5.920E-06	8.250E-06	6.750E-06	6.620E-06	7.610E-06	6.830E-06	8.360E-06
3	804.70	2.100E-06	1.920E-06	2.680E-06	2.160E-06	2.220E-06	2.490E-06	2.220E-06	2.740E-06
4	1207.00	1.110E-06	1.000E-06	1.400E-06	1.120E-06	1.180E-06	1.310E-06	1.160E-06	1.440E-06
5	1609.40	7.110E-07	6.360E-07	8.850E-07	7.100E-07	7.500E-07	8.310E-07	7.350E-07	9.140E-07
6	2414.00	3.990E-07	3.610E-07	5.040E-07	4.060E-07	4.220E-07	4.710E-07	4.180E-07	5.180E-07
7	3218.70	2.670E-07	2.450E-07	3.420E-07	2.770E-07	2.830E-07	3.190E-07	2.840E-07	3.500E-07
8	4023.40	1.960E-07	1.810E-07	2.530E-07	2.050E-07	2.080E-07	2.360E-07	2.100E-07	2.590E-07
9	4828.10	1.530E-07	1.410E-07	1.980E-07	1.610E-07	1.620E-07	1.840E-07	1.640E-07	2.020E-07
10	5632.70	1.240E-07	1.150E-07	1.610E-07	1.300E-07	1.310E-07	1.490E-07	1.330E-07	1.640E-07
11	6437.40	1.030E-07	9.580E-08	1.340E-07	1.090E-07	1.100E-07	1.250E-07	1.110E-07	1.370E-07
12	7242.10	8.750E-08	8.170E-08	1.150E-07	9.320E-08	9.320E-08	1.060E-07	9.500E-08	1.170E-07
13	8046.80	7.570E-08	7.100E-08	9.960E-08	8.100E-08	8.070E-08	9.220E-08	8.250E-08	1.010E-07
14	12070.10	4.390E-08	4.150E-08	5.840E-08	4.760E-08	4.690E-08	5.390E-08	4.830E-08	5.910E-08
15	16093.49	3.020E-08	2.870E-08	4.040E-08	3.300E-08	3.230E-08	3.720E-08	3.340E-08	4.090E-08
16	24140.29	1.810E-08	1.730E-08	2.440E-08	2.000E-08	1.930E-08	2.240E-08	2.020E-08	2.460E-08
17	32187.00	1.250E-08	1.210E-08	1.700E-08	1.400E-08	1.350E-08	1.560E-08	1.410E-08	1.720E-08
18	40233.79	9.520E-09	9.200E-09	1.300E-08	1.070E-08	1.020E-08	1.190E-08	1.070E-08	1.310E-08
19	48280.48	7.660E-09	7.420E-09	1.050E-08	8.610E-09	8.220E-09	9.600E-09	8.670E-09	1.050E-08
20	56327.29	6.370E-09	6.190E-09	8.750E-09	7.190E-09	6.840E-09	8.010E-09	7.230E-09	8.790E-09
21	64373.99	5.430E-09	5.290E-09	7.480E-09	6.150E-09	5.830E-09	6.840E-09	6.180E-09	7.510E-09
22	72420.75	4.720E-09	4.610E-09	6.520E-09	5.360E-09	5.080E-09	5.960E-09	5.380E-09	6.540E-09
23	80467.44	4.170E-09	4.070E-09	5.760E-09	4.740E-09	4.480E-09	5.260E-09	4.760E-09	5.780E-09

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		N - (9) 180.0	NNE - (10) 202.5	NE - (11) 225.0	ENE - (12) 247.5	E - (13) 270.0	ESE - (14) 292.5	SE - (15) 315.0	SSE - (16) 337.5
1	201.20	5.230E-05	7.230E-05	6.740E-05	3.250E-05	3.720E-05	1.690E-05	1.990E-05	1.600E-05
2	402.30	1.490E-05	2.060E-05	1.920E-05	9.250E-06	1.060E-05	4.810E-06	5.680E-06	4.570E-06
3	804.70	4.920E-06	6.920E-06	6.370E-06	3.190E-06	3.560E-06	1.670E-06	1.890E-06	1.520E-06
4	1207.00	2.590E-06	3.670E-06	3.360E-06	1.710E-06	1.880E-06	8.950E-07	9.990E-07	8.010E-07
5	1609.40	1.650E-06	2.340E-06	2.140E-06	1.100E-06	1.200E-06	5.740E-07	6.360E-07	5.100E-07
6	2414.00	9.320E-07	1.310E-06	1.210E-06	6.100E-07	6.760E-07	3.190E-07	3.590E-07	2.880E-07
7	3218.70	6.290E-07	8.820E-07	8.130E-07	4.060E-07	4.540E-07	2.120E-07	2.410E-07	1.940E-07
8	4023.40	4.640E-07	6.490E-07	6.000E-07	2.970E-07	3.340E-07	1.550E-07	1.780E-07	1.430E-07
9	4828.10	3.620E-07	5.060E-07	4.680E-07	2.310E-07	2.600E-07	1.200E-07	1.390E-07	1.110E-07
10	5632.70	2.940E-07	4.090E-07	3.790E-07	1.870E-07	2.110E-07	9.740E-08	1.120E-07	9.030E-08
11	6437.40	2.450E-07	3.410E-07	3.160E-07	1.550E-07	1.750E-07	8.090E-08	9.370E-08	7.530E-08
12	7242.10	2.090E-07	2.900E-07	2.690E-07	1.310E-07	1.490E-07	6.860E-08	7.980E-08	6.410E-08
13	8046.80	1.810E-07	2.510E-07	2.340E-07	1.140E-07	1.290E-07	5.930E-08	6.920E-08	5.560E-08
14	12070.10	1.060E-07	1.460E-07	1.360E-07	6.550E-08	7.510E-08	3.420E-08	4.030E-08	3.240E-08
15	16093.49	7.290E-08	1.000E-07	9.390E-08	4.490E-08	5.170E-08	2.340E-08	2.770E-08	2.230E-08
16	24140.29	4.390E-08	6.020E-08	5.640E-08	2.670E-08	3.100E-08	1.390E-08	1.670E-08	1.340E-08
17	32187.00	3.060E-08	4.190E-08	3.930E-08	1.850E-08	2.160E-08	9.640E-09	1.160E-08	9.340E-09
18	40233.79	2.330E-08	3.180E-08	2.990E-08	1.400E-08	1.640E-08	7.290E-09	8.820E-09	7.100E-09
19	48280.48	1.880E-08	2.560E-08	2.410E-08	1.120E-08	1.320E-08	5.850E-09	7.100E-09	5.720E-09
20	56327.29	1.560E-08	2.130E-08	2.010E-08	9.330E-09	1.100E-08	4.860E-09	5.920E-09	4.760E-09
21	64373.99	1.330E-08	1.810E-08	1.710E-08	7.940E-09	9.350E-09	4.130E-09	5.050E-09	4.060E-09
22	72420.75	1.160E-08	1.580E-08	1.490E-08	6.900E-09	8.140E-09	3.590E-09	4.390E-09	3.540E-09
23	80467.44	1.030E-08	1.390E-08	1.320E-08	6.080E-09	7.180E-09	3.160E-09	3.880E-09	3.120E-09

TABLE 4.1-1

UNDEPLETED RELATIVE CONCENTRATIONS PER UNIT
EMISSION FOR REACTOR BUILDING VENT FOR

JULY - SEPTEMBER 1982

DEPLETED X/Q FOR THE REACTOR BUILDING VENT JUL - SEP , 1982

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		S - (1) 0.0	SSW - (2) 22.5	SW - (3) 45.0	WSW - (4) 67.5	W - (5) 90.0	WNW - (6) 112.5	NW - (7) 135.0	NNW - (8) 157.5
1	201.20	2.040E-05	1.930E-05	2.690E-05	2.200E-05	2.170E-05	2.490E-05	2.230E-05	2.730E-05
2	402.30	5.550E-06	5.270E-06	7.340E-06	6.000E-06	5.880E-06	6.770E-06	6.070E-06	7.430E-06
3	804.70	1.790E-06	1.640E-06	2.280E-06	1.850E-06	1.890E-06	2.130E-06	1.890E-06	2.340E-06
4	1207.00	9.140E-07	8.230E-07	1.150E-06	9.210E-07	9.650E-07	1.070E-06	9.510E-07	1.180E-06
5	1609.40	5.660E-07	5.060E-07	7.040E-07	5.650E-07	5.970E-07	6.610E-07	5.850E-07	7.270E-07
6	2414.00	3.040E-07	2.760E-07	3.850E-07	3.100E-07	3.220E-07	3.600E-07	3.190E-07	3.950E-07
7	3218.70	1.960E-07	1.800E-07	2.510E-07	2.030E-07	2.080E-07	2.340E-07	2.080E-07	2.570E-07
8	4023.40	1.390E-07	1.280E-07	1.800E-07	1.460E-07	1.480E-07	1.670E-07	1.490E-07	1.840E-07
9	4828.10	1.050E-07	9.710E-08	1.360E-07	1.100E-07	1.110E-07	1.260E-07	1.130E-07	1.390E-07
10	5632.70	8.250E-08	7.660E-08	1.070E-07	8.710E-08	8.770E-08	9.960E-08	8.900E-08	1.090E-07
11	6437.40	6.700E-08	6.240E-08	8.750E-08	7.100E-08	7.130E-08	8.110E-08	7.250E-08	8.910E-08
12	7242.10	5.580E-08	5.210E-08	7.320E-08	5.940E-08	5.940E-08	6.770E-08	6.060E-08	7.440E-08
13	8046.80	4.740E-08	4.440E-08	6.230E-08	5.070E-08	5.050E-08	5.770E-08	5.160E-08	6.340E-08
14	12070.10	2.540E-08	2.400E-08	3.370E-08	2.750E-08	2.710E-08	3.110E-08	2.790E-08	3.420E-08
15	16093.49	1.630E-08	1.530E-08	2.180E-08	1.780E-08	1.740E-08	2.010E-08	1.810E-08	2.210E-08
16	24140.29	8.760E-09	8.390E-09	1.180E-08	9.680E-09	9.380E-09	1.090E-08	9.780E-09	1.190E-08
17	32187.00	5.550E-09	5.340E-09	7.540E-09	6.170E-09	5.950E-09	6.920E-09	6.230E-09	7.590E-09
18	40233.79	3.900E-09	3.760E-09	5.320E-09	4.360E-09	4.180E-09	4.870E-09	4.390E-09	5.350E-09
19	48280.48	2.930E-09	2.840E-09	4.010E-09	3.290E-09	3.150E-09	3.670E-09	3.320E-09	4.030E-09
20	56327.29	2.300E-09	2.230E-09	3.150E-09	2.590E-09	2.470E-09	2.890E-09	2.610E-09	3.170E-09
21	64373.99	1.850E-09	1.800E-09	2.550E-09	2.100E-09	1.990E-09	2.330E-09	2.110E-09	2.560E-09
22	72420.75	1.540E-09	1.500E-09	2.120E-09	1.740E-09	1.650E-09	1.940E-09	1.750E-09	2.130E-09
23	80467.44	1.290E-09	1.260E-09	1.790E-09	1.470E-09	1.390E-09	1.630E-09	1.480E-09	1.790E-09

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		N - (9) 180.0	NNE - (10) 202.5	NE - (11) 225.0	ENE - (12) 247.5	E - (13) 270.0	ESE - (14) 292.5	SE - (15) 315.0	SSE - (16) 337.5
1	201.20	4.880E-05	6.740E-05	6.290E-05	3.030E-05	3.470E-05	1.580E-05	1.860E-05	1.500E-05
2	402.30	1.330E-05	1.830E-05	1.710E-05	8.230E-06	9.430E-06	4.280E-06	5.060E-06	4.060E-06
3	804.70	4.200E-06	5.900E-06	5.430E-06	2.720E-06	3.030E-06	1.420E-06	1.610E-06	1.290E-06
4	1207.00	2.120E-06	3.010E-06	2.750E-06	1.400E-06	1.550E-06	7.340E-07	8.190E-07	6.570E-07
5	1609.40	1.310E-06	1.860E-06	1.700E-06	8.730E-07	9.560E-07	4.570E-07	5.060E-07	4.060E-07
6	2414.00	7.110E-07	1.000E-06	9.210E-07	4.660E-07	5.160E-07	2.430E-07	2.740E-07	2.200E-07
7	3218.70	4.620E-07	6.480E-07	5.970E-07	2.980E-07	3.330E-07	1.560E-07	1.770E-07	1.420E-07
8	4023.40	3.290E-07	4.600E-07	4.250E-07	2.110E-07	2.370E-07	1.100E-07	1.260E-07	1.010E-07
9	4828.10	2.490E-07	3.470E-07	3.210E-07	1.580E-07	1.780E-07	8.270E-08	9.520E-08	7.640E-08
10	5632.70	1.960E-07	2.730E-07	2.530E-07	1.240E-07	1.410E-07	6.500E-08	7.500E-08	6.030E-08
11	6437.40	1.600E-07	2.220E-07	2.060E-07	1.010E-07	1.140E-07	5.270E-08	6.100E-08	4.900E-08
12	7242.10	1.330E-07	1.850E-07	1.720E-07	8.390E-08	9.520E-08	4.380E-08	5.090E-08	4.090E-08
13	8046.80	1.130E-07	1.570E-07	1.460E-07	7.110E-08	8.090E-08	3.710E-08	4.330E-08	3.480E-08
14	12070.10	6.100E-08	8.430E-08	7.860E-08	3.780E-08	4.340E-08	1.970E-08	2.320E-08	1.870E-08
15	16093.49	3.940E-08	5.430E-08	5.080E-08	2.430E-08	2.800E-08	1.270E-08	1.500E-08	1.210E-08
16	24140.29	2.130E-08	2.920E-08	2.740E-08	1.300E-08	1.500E-08	6.750E-09	8.080E-09	6.500E-09
17	32187.00	1.350E-08	1.850E-08	1.740E-08	8.180E-09	9.530E-09	4.260E-09	5.130E-09	4.130E-09
18	40233.79	9.520E-09	1.300E-08	1.220E-08	5.730E-09	6.700E-09	2.980E-09	3.610E-09	2.900E-09
19	48280.48	7.180E-09	9.780E-09	9.220E-09	4.300E-09	5.040E-09	2.240E-09	2.720E-09	2.190E-09
20	56327.29	5.630E-09	7.670E-09	7.230E-09	3.360E-09	3.950E-09	1.750E-09	2.130E-09	1.720E-09
21	64373.99	4.550E-09	6.190E-09	5.850E-09	2.710E-09	3.190E-09	1.410E-09	1.720E-09	1.390E-09
22	72420.75	3.780E-09	5.140E-09	4.850E-09	2.250E-09	2.650E-09	1.170E-09	1.430E-09	1.150E-09
23	80467.44	3.190E-09	4.330E-09	4.090E-09	1.890E-09	2.230E-09	9.830E-10	1.210E-09	9.700E-10

TABLE 4.1-2

DEPLETED RELATIVE CONCENTRATIONS PER UNIT
EMISSION FOR REACTOR BUILDING VENT FOR
JULY - SEPTEMBER 1982

DEPOSITION FACTORS FOR THE REACTOR BUILDING VENT JUL - SEP , 1982

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES 1/M**2							
		S - (1) 0.0	SSW - (2) 22.5	SW - (3) 45.0	WSW - (4) 67.5	W - (5) 90.0	WNW - (6) 112.5	NW - (7) 135.0	NNW - (8) 157.5
1	201.20	1.510E-07	1.380E-07	1.790E-07	8.170E-08	7.740E-08	1.030E-07	9.150E-08	1.040E-07
2	402.30	5.000E-08	4.580E-08	5.940E-08	2.710E-08	2.570E-08	3.410E-08	3.040E-08	3.460E-08
3	804.70	1.590E-08	1.450E-08	1.890E-08	8.610E-09	8.160E-09	1.080E-08	9.650E-09	1.100E-08
4	1207.00	7.810E-09	7.160E-09	9.270E-09	4.230E-09	4.020E-09	5.330E-09	4.750E-09	5.400E-09
5	1609.40	4.660E-09	4.270E-09	5.530E-09	2.530E-09	2.400E-09	3.180E-09	2.830E-09	3.220E-09
6	2414.00	2.240E-09	2.050E-09	2.660E-09	1.210E-09	1.150E-09	1.530E-09	1.360E-09	1.550E-09
7	3218.70	1.340E-09	1.220E-09	1.580E-09	7.240E-10	6.860E-10	9.110E-10	8.110E-10	9.230E-10
8	4023.40	9.010E-10	8.250E-10	1.070E-09	4.880E-10	4.630E-10	6.140E-10	5.470E-10	6.230E-10
9	4828.10	6.640E-10	6.080E-10	7.880E-10	3.600E-10	3.410E-10	4.530E-10	4.030E-10	4.590E-10
10	5632.70	5.080E-10	4.660E-10	6.030E-10	2.760E-10	2.610E-10	3.470E-10	3.090E-10	3.520E-10
11	6437.40	4.010E-10	3.670E-10	4.760E-10	2.170E-10	2.060E-10	2.730E-10	2.430E-10	2.770E-10
12	7242.10	3.220E-10	2.950E-10	3.820E-10	1.750E-10	1.660E-10	2.200E-10	1.960E-10	2.230E-10
13	8046.80	2.640E-10	2.420E-10	3.140E-10	1.430E-10	1.360E-10	1.800E-10	1.610E-10	1.830E-10
14	12070.10	1.220E-10	1.110E-10	1.440E-10	6.590E-11	6.250E-11	8.290E-11	7.380E-11	8.400E-11
15	16093.49	6.980E-11	6.390E-11	8.290E-11	3.780E-11	3.590E-11	4.760E-11	4.240E-11	4.830E-11
16	24140.29	3.220E-11	2.950E-11	3.830E-11	1.750E-11	1.660E-11	2.200E-11	1.960E-11	2.230E-11
17	32187.00	1.880E-11	1.720E-11	2.230E-11	1.020E-11	9.640E-12	1.280E-11	1.140E-11	1.300E-11
18	40233.79	1.230E-11	1.130E-11	1.460E-11	6.680E-12	6.330E-12	8.410E-12	7.490E-12	8.520E-12
19	48280.48	8.750E-12	8.020E-12	1.040E-11	4.750E-12	4.500E-12	5.970E-12	5.320E-12	6.050E-12
20	56327.29	6.540E-12	5.990E-12	7.760E-12	3.540E-12	3.360E-12	4.460E-12	3.970E-12	4.520E-12
21	64373.99	5.070E-12	4.640E-12	6.010E-12	2.750E-12	2.600E-12	3.460E-12	3.080E-12	3.500E-12
22	72420.75	4.090E-12	3.750E-12	4.850E-12	2.220E-12	2.100E-12	2.790E-12	2.480E-12	2.830E-12
23	80467.44	3.350E-12	3.070E-12	3.980E-12	1.820E-12	1.720E-12	2.290E-12	2.030E-12	2.320E-12

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES 1/M**2							
		N - (9) 180.0	NNE - (10) 202.5	NE - (11) 225.0	ENE - (12) 247.5	E - (13) 270.0	ESE - (14) 292.5	SE - (15) 315.0	SSE - (16) 337.5
1	201.20	1.930E-07	4.860E-07	5.250E-07	2.220E-07	1.930E-07	1.040E-07	9.860E-08	1.010E-07
2	402.30	6.410E-08	1.610E-07	1.740E-07	7.390E-08	6.410E-08	3.460E-08	3.270E-08	3.370E-08
3	804.70	2.030E-08	5.120E-08	5.540E-08	2.350E-08	2.030E-08	1.100E-08	1.040E-08	1.070E-08
4	1207.00	1.000E-08	2.520E-08	2.720E-08	1.150E-08	1.000E-08	5.400E-09	5.110E-09	5.260E-09
5	1609.40	5.970E-09	1.500E-08	1.620E-08	6.880E-09	5.970E-09	3.220E-09	3.050E-09	3.140E-09
6	2414.00	2.860E-09	7.210E-09	7.800E-09	3.300E-09	2.860E-09	1.550E-09	1.460E-09	1.510E-09
7	3218.70	1.710E-09	4.310E-09	4.650E-09	1.970E-09	1.710E-09	9.230E-10	8.740E-10	8.980E-10
8	4023.40	1.150E-09	2.900E-09	3.140E-09	1.330E-09	1.150E-09	6.230E-10	5.890E-10	6.060E-10
9	4828.10	8.500E-10	2.140E-09	2.310E-09	9.800E-10	8.500E-10	4.590E-10	4.340E-10	4.470E-10
10	5632.70	6.510E-10	1.640E-09	1.770E-09	7.510E-10	6.510E-10	3.520E-10	3.330E-10	3.420E-10
11	6437.40	5.130E-10	1.290E-09	1.400E-09	5.920E-10	5.130E-10	2.770E-10	2.620E-10	2.700E-10
12	7242.10	4.120E-10	1.040E-09	1.120E-09	4.750E-10	4.120E-10	2.230E-10	2.110E-10	2.170E-10
13	8046.80	3.380E-10	8.520E-10	9.210E-10	3.900E-10	3.380E-10	1.830E-10	1.730E-10	1.780E-10
14	12070.10	1.560E-10	3.920E-10	4.240E-10	1.790E-10	1.560E-10	8.400E-11	7.950E-11	8.180E-11
15	16093.49	8.940E-11	2.250E-10	2.430E-10	1.030E-10	8.940E-11	4.830E-11	4.570E-11	4.700E-11
16	24140.29	4.130E-11	1.040E-10	1.120E-10	4.760E-11	4.130E-11	2.230E-11	2.110E-11	2.170E-11
17	32187.00	2.400E-11	6.050E-11	6.540E-11	2.770E-11	2.400E-11	1.300E-11	1.230E-11	1.260E-11
18	40233.79	1.580E-11	3.970E-11	4.300E-11	1.820E-11	1.580E-11	8.520E-12	8.060E-12	8.290E-12
19	48280.48	1.120E-11	2.820E-11	3.050E-11	1.290E-11	1.120E-11	6.050E-12	5.730E-12	5.890E-12
20	56327.29	8.370E-12	2.110E-11	2.280E-11	9.650E-12	8.370E-12	4.520E-12	4.280E-12	4.400E-12
21	64373.99	6.490E-12	1.630E-11	1.770E-11	7.480E-12	6.490E-12	3.500E-12	3.310E-12	3.410E-12
22	72420.75	5.240E-12	1.320E-11	1.430E-11	6.040E-12	5.240E-12	2.830E-12	2.680E-12	2.750E-12
23	80467.44	4.290E-12	1.080E-11	1.170E-11	4.950E-12	4.290E-12	2.320E-12	2.190E-12	2.250E-12

TABLE 4.1-3

RELATIVE DEPOSITION CONCENTRATIONS PER UNIT
EMISSION FOR REACTOR BUILDING VENT FOR
JULY - SEPTEMBER 1982

UNDEPLETED X/R FOR THE MAIN STACK JUL - SEP , 1982

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		S - (1) 0.0	SSW - (2) 22.5	SW - (3) 45.0	WSW - (4) 67.5	W - (5) 90.0	WNW - (6) 112.5	NW - (7) 135.0	NNW - (8) 157.5
1	201.20	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01
2	402.30	1.700E-09	1.690E-09	6.210E-11	1.130E-11	2.600E-12	3.520E-14	1.210E-20	4.330E-23
3	804.70	2.910E-07	1.600E-07	9.710E-08	1.200E-08	6.840E-09	1.710E-09	1.080E-11	1.490E-12
4	1207.00	2.780E-07	5.140E-07	1.590E-07	8.250E-08	2.820E-08	1.390E-08	8.490E-10	2.720E-10
5	1609.40	4.170E-07	7.940E-07	1.850E-07	1.200E-07	4.190E-08	2.720E-08	4.300E-09	1.960E-09
6	2414.00	3.850E-07	4.120E-07	1.430E-07	9.650E-08	4.640E-08	3.860E-08	1.400E-08	8.720E-09
7	3218.70	2.780E-07	2.670E-07	1.100E-07	7.810E-08	4.060E-08	3.740E-08	1.920E-08	1.350E-08
8	4023.40	2.020E-07	1.910E-07	8.940E-08	6.640E-08	3.440E-08	3.320E-08	2.030E-08	1.540E-08
9	4828.10	1.560E-07	1.460E-07	7.600E-08	5.920E-08	2.950E-08	2.920E-08	1.950E-08	1.530E-08
10	5632.70	1.250E-07	1.160E-07	6.580E-08	5.320E-08	2.580E-08	2.600E-08	1.840E-08	1.490E-08
11	6437.40	1.040E-07	9.560E-08	5.780E-08	4.810E-08	2.290E-08	2.340E-08	1.720E-08	1.420E-08
12	7242.10	8.800E-08	8.070E-08	5.110E-08	4.350E-08	2.050E-08	2.120E-08	1.600E-08	1.550E-08
13	8046.80	7.610E-08	6.950E-08	4.570E-08	3.970E-08	4.130E-08	2.220E-08	2.280E-08	1.270E-08
14	12070.10	4.380E-08	3.950E-08	2.970E-08	2.740E-08	2.540E-08	1.590E-08	1.510E-08	9.270E-09
15	16093.49	3.000E-08	2.690E-08	2.170E-08	2.060E-08	1.800E-08	1.240E-08	1.410E-08	2.350E-08
16	24140.29	1.790E-08	1.590E-08	1.380E-08	1.350E-08	1.110E-08	8.470E-09	8.970E-09	1.430E-08
17	32187.00	1.250E-08	1.110E-08	9.980E-09	1.060E-08	7.860E-09	9.090E-09	7.100E-09	1.010E-08
18	40233.79	9.450E-09	8.370E-09	7.760E-09	1.170E-08	6.040E-09	1.100E-08	5.720E-09	7.710E-09
19	48280.48	7.610E-09	6.720E-09	6.330E-09	9.440E-09	4.890E-09	9.940E-09	6.200E-09	6.240E-09
20	56327.29	6.330E-09	5.590E-09	5.960E-09	7.880E-09	4.720E-09	8.290E-09	5.150E-09	5.210E-09
21	64373.99	5.400E-09	4.760E-09	5.110E-09	6.750E-09	4.020E-09	7.080E-09	4.390E-09	4.450E-09
22	72420.75	4.700E-09	4.140E-09	4.480E-09	6.070E-09	3.500E-09	6.160E-09	3.810E-09	3.890E-09
23	80467.44	4.150E-09	3.650E-09	3.970E-09	5.360E-09	3.090E-09	5.440E-09	3.360E-09	3.440E-09

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		N - (9) 180.0	NNE - (10) 202.5	NE - (11) 225.0	ENE - (12) 247.5	E - (13) 270.0	ESE - (14) 292.5	SE - (15) 315.0	SSE - (16) 337.5
1	201.20	0.000E-01	0.000E-01	0.000E-01	2.080E-34	0.000E-01	0.000E-01	0.000E-01	0.000E-01
2	402.30	5.430E-23	9.620E-23	1.130E-22	8.680E-17	6.390E-23	5.050E-23	3.620E-23	8.390E-15
3	804.70	1.870E-12	3.320E-12	3.880E-12	1.570E-11	2.200E-12	5.760E-12	8.780E-12	3.750E-08
4	1207.00	3.420E-10	6.060E-10	7.080E-10	5.720E-10	4.020E-10	6.260E-10	6.880E-10	1.070E-07
5	1609.40	2.460E-09	4.350E-09	5.090E-09	3.410E-09	2.890E-09	3.630E-09	3.480E-09	1.160E-07
6	2414.00	1.090E-08	1.940E-08	2.270E-08	1.430E-08	1.290E-08	1.330E-08	1.140E-08	9.860E-08
7	3218.70	1.700E-08	3.010E-08	3.520E-08	2.190E-08	2.000E-08	1.920E-08	1.550E-08	7.780E-08
8	4023.40	1.930E-08	3.420E-08	4.000E-08	2.470E-08	2.270E-08	2.080E-08	1.650E-08	6.290E-08
9	4828.10	1.930E-08	3.410E-08	3.990E-08	2.460E-08	2.270E-08	2.030E-08	1.580E-08	5.280E-08
10	5632.70	1.870E-08	3.310E-08	3.870E-08	2.380E-08	2.200E-08	1.940E-08	1.490E-08	4.540E-08
11	6437.40	1.780E-08	3.150E-08	3.690E-08	2.270E-08	2.090E-08	1.820E-08	1.390E-08	3.970E-08
12	7242.10	1.690E-08	2.990E-08	3.500E-08	2.150E-08	1.990E-08	1.710E-08	1.300E-08	3.500E-08
13	8046.80	1.590E-08	2.820E-08	3.300E-08	2.020E-08	1.870E-08	1.600E-08	1.210E-08	3.120E-08
14	12070.10	1.160E-08	2.060E-08	2.410E-08	1.470E-08	1.360E-08	1.140E-08	8.500E-09	2.010E-08
15	16093.49	8.860E-09	1.570E-08	1.840E-08	1.120E-08	1.040E-08	8.650E-09	6.400E-09	1.770E-08
16	24140.29	5.860E-09	1.040E-08	1.220E-08	7.400E-09	6.850E-09	5.670E-09	4.170E-09	1.090E-08
17	32187.00	4.330E-09	7.720E-09	9.030E-09	5.460E-09	5.050E-09	4.980E-09	4.530E-09	7.810E-09
18	40233.79	3.410E-09	6.090E-09	7.120E-09	5.100E-09	5.240E-09	3.910E-09	3.520E-09	6.010E-09
19	48280.48	2.800E-09	5.000E-09	5.850E-09	4.170E-09	4.270E-09	3.200E-09	2.870E-09	4.870E-09
20	56327.29	2.360E-09	4.230E-09	4.950E-09	3.520E-09	3.590E-09	2.700E-09	2.410E-09	4.070E-09
21	64373.99	3.030E-09	3.660E-09	4.280E-09	3.040E-09	3.090E-09	2.330E-09	2.070E-09	3.490E-09
22	72420.75	3.520E-09	3.230E-09	3.780E-09	2.670E-09	2.710E-09	2.050E-09	1.820E-09	3.050E-09
23	80467.44	3.120E-09	2.890E-09	3.370E-09	2.380E-09	2.410E-09	1.830E-09	1.620E-09	2.700E-09

TABLE 4.1-4

UNDEPLETED RELATIVE CONCENTRATIONS PER UNIT
EMISSION FOR MAIN STACK FOR
JULY - SEPTEMBER 1982

DEPLETED X/Q FOR THE MAIN STACK JUL - SEP , 1982

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		S - (1) 0.0	SSW - (2) 22.5	SW - (3) 45.0	WSW - (4) 67.5	W - (5) 90.0	WNW - (6) 112.5	NW - (7) 135.0	NNW - (8) 157.5
1	201.20	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01
2	402.30	1.700E-09	1.690E-09	6.210E-11	1.130E-11	2.600E-12	3.520E-14	1.210E-20	4.330E-23
3	804.70	2.910E-07	1.600E-07	9.710E-08	1.200E-08	6.840E-09	1.710E-09	1.080E-11	1.490E-12
4	1207.00	2.780E-07	4.970E-07	1.590E-07	8.250E-08	2.820E-08	1.390E-08	8.490E-10	2.720E-10
5	1609.40	4.020E-07	6.320E-07	1.850E-07	1.200E-07	4.190E-08	2.720E-08	4.300E-09	1.960E-09
6	2414.00	3.420E-07	3.150E-07	1.430E-07	9.650E-08	4.640E-08	3.860E-08	1.400E-08	8.720E-09
7	3218.70	2.340E-07	1.960E-07	1.100E-07	7.810E-08	4.060E-08	3.730E-08	1.920E-08	1.350E-08
8	4023.40	1.680E-07	1.360E-07	8.940E-08	6.640E-08	3.440E-08	3.320E-08	2.030E-08	1.540E-08
9	4828.10	1.270E-07	1.000E-07	7.590E-08	5.910E-08	2.950E-08	2.920E-08	1.950E-08	1.530E-08
10	5632.70	1.000E-07	7.770E-08	6.560E-08	5.310E-08	2.580E-08	2.600E-08	1.840E-08	1.490E-08
11	6437.40	8.190E-08	6.240E-08	5.750E-08	4.790E-08	2.290E-08	2.340E-08	1.720E-08	1.420E-08
12	7242.10	6.870E-08	5.160E-08	5.080E-08	4.320E-08	2.050E-08	2.120E-08	1.600E-08	1.350E-08
13	8046.80	5.860E-08	4.360E-08	4.540E-08	3.940E-08	4.000E-08	2.220E-08	2.280E-08	1.270E-08
14	12070.10	3.170E-08	2.290E-08	2.900E-08	2.680E-08	2.370E-08	1.590E-08	1.510E-08	9.270E-09
15	16093.49	2.040E-08	1.460E-08	2.070E-08	1.970E-08	1.600E-08	1.240E-08	1.390E-08	2.020E-08
16	24140.29	1.080E-08	7.750E-09	1.260E-08	1.240E-08	8.800E-09	8.470E-09	8.680E-09	1.100E-08
17	32187.00	6.680E-09	4.900E-09	8.760E-09	9.070E-09	5.610E-09	8.450E-09	6.420E-09	6.900E-09
18	40233.79	4.580E-09	3.430E-09	6.580E-09	5.980E-09	3.920E-09	6.540E-09	4.850E-09	4.780E-09
19	48280.48	3.370E-09	2.580E-09	5.200E-09	4.400E-09	2.910E-09	3.800E-09	2.370E-09	3.520E-09
20	56327.29	2.590E-09	2.020E-09	3.880E-09	3.390E-09	1.700E-09	2.990E-09	1.860E-09	2.720E-09
21	64373.99	2.060E-09	1.630E-09	3.180E-09	2.700E-09	1.370E-09	2.420E-09	1.500E-09	2.170E-09
22	72420.75	1.690E-09	1.350E-09	2.690E-09	1.970E-09	1.140E-09	2.000E-09	1.240E-09	1.790E-09
23	80467.44	1.410E-09	1.130E-09	2.310E-09	1.670E-09	9.590E-10	1.690E-09	1.040E-09	1.510E-09

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		N - (9) 180.0	NNE - (10) 202.5	NE - (11) 225.0	ENE - (12) 247.5	E - (13) 270.0	ESE - (14) 292.5	SE - (15) 315.0	SSE - (16) 337.5
1	201.20	0.000E-01	0.000E-01	0.000E-01	2.080E-34	0.000E-01	0.000E-01	0.000E-01	0.000E-01
2	402.30	5.430E-23	9.620E-23	1.130E-22	8.680E-17	6.390E-23	5.050E-23	3.620E-23	8.390E-15
3	804.70	1.870E-12	3.320E-12	3.880E-12	1.570E-11	2.200E-12	5.760E-12	8.780E-12	3.750E-08
4	1207.00	3.420E-10	6.060E-10	7.080E-10	5.720E-10	4.020E-10	6.260E-10	6.880E-10	1.070E-07
5	1609.40	2.460E-09	4.350E-09	5.090E-09	3.410E-09	2.890E-09	3.630E-09	3.480E-09	1.160E-07
6	2414.00	1.090E-08	1.940E-08	2.270E-08	1.420E-08	1.290E-08	1.330E-08	1.140E-08	9.860E-08
7	3218.70	1.700E-08	3.010E-08	3.520E-08	2.190E-08	2.000E-08	1.920E-08	1.550E-08	7.780E-08
8	4023.40	1.930E-08	3.420E-08	4.000E-08	2.470E-08	2.270E-08	2.080E-08	1.650E-08	6.290E-08
9	4828.10	1.930E-08	3.410E-08	3.990E-08	2.460E-08	2.270E-08	2.030E-08	1.580E-08	5.280E-08
10	5632.70	1.870E-08	3.310E-08	3.870E-08	2.380E-08	2.200E-08	1.940E-08	1.490E-08	4.530E-08
11	6437.40	1.780E-08	3.150E-08	3.690E-08	2.260E-08	2.090E-08	1.820E-08	1.390E-08	3.960E-08
12	7242.10	1.690E-08	2.990E-08	3.500E-08	2.150E-08	1.990E-08	1.710E-08	1.300E-08	3.480E-08
13	8046.80	1.590E-08	2.820E-08	3.300E-08	2.020E-08	1.870E-08	1.600E-08	1.210E-08	3.110E-08
14	12070.10	1.160E-08	2.060E-08	2.410E-08	1.470E-08	1.360E-08	1.140E-08	8.500E-09	1.980E-08
15	16093.49	8.860E-09	1.570E-08	1.840E-08	1.120E-08	1.040E-08	8.650E-09	6.400E-09	1.650E-08
16	24140.29	5.860E-09	1.040E-08	1.220E-08	7.390E-09	6.850E-09	5.670E-09	4.170E-09	9.540E-09
17	32187.00	4.330E-09	7.720E-09	9.030E-09	5.450E-09	5.050E-09	4.980E-09	4.490E-09	6.370E-09
18	40233.79	3.410E-09	6.090E-09	7.120E-09	5.100E-09	5.240E-09	3.910E-09	3.480E-09	4.640E-09
19	48280.48	2.800E-09	5.000E-09	5.850E-09	4.170E-09	4.270E-09	3.200E-09	2.830E-09	3.580E-09
20	56327.29	2.360E-09	4.230E-09	4.950E-09	3.510E-09	3.590E-09	2.700E-09	2.360E-09	2.870E-09
21	64373.99	3.010E-09	3.660E-09	4.280E-09	3.030E-09	3.090E-09	2.330E-09	2.020E-09	2.370E-09
22	72420.75	2.520E-09	3.230E-09	3.780E-09	2.670E-09	2.710E-09	2.050E-09	1.770E-09	2.020E-09
23	80467.44	2.190E-09	2.890E-09	3.370E-09	2.380E-09	2.410E-09	1.830E-09	1.570E-09	1.750E-09

TABLE 4.1-5

DEPLETED RELATIVE CONCENTRATIONS PER UNIT
EMISSION FOR MAIN STACK FOR
JULY - SEPTEMBER 1982

DEPOSITION FACTORS FOR THE MAIN STACK JUL - SEP , 1982

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES 1/M**2							
		S - (1) 0.0	SSW - (2) 22.5	SW - (3) 45.0	WSW - (4) 67.5	W - (5) 90.0	WNW - (6) 112.5	NW - (7) 135.0	NNW - (8) 157.5
1	201.20	7.830E-14	6.080E-14	7.710E-14	3.670E-14	2.830E-14	4.880E-14	4.820E-14	5.240E-14
2	402.30	3.910E-14	3.040E-14	3.850E-14	1.840E-14	1.420E-14	2.440E-14	2.410E-14	2.620E-14
3	804.70	1.960E-14	1.520E-14	1.930E-14	9.180E-15	7.150E-15	1.320E-14	1.260E-14	1.310E-14
4	1207.00	6.900E-14	7.370E-13	2.680E-14	1.050E-14	4.720E-15	8.130E-15	8.030E-15	8.730E-15
5	1609.40	6.280E-12	4.080E-09	7.550E-14	3.600E-14	3.540E-15	6.100E-15	6.020E-15	6.550E-15
6	2414.00	2.260E-10	1.990E-09	1.530E-13	7.310E-14	2.360E-15	4.060E-15	4.010E-15	4.370E-15
7	3218.70	6.800E-10	1.200E-09	2.610E-13	1.240E-13	1.770E-15	3.050E-15	3.010E-15	3.270E-15
8	4023.40	6.840E-10	8.160E-10	2.820E-13	1.350E-13	1.420E-15	2.440E-15	2.410E-15	2.620E-15
9	4828.10	4.150E-10	6.000E-10	1.880E-13	8.960E-14	1.180E-15	2.030E-15	2.010E-15	2.180E-15
10	5632.70	2.970E-10	4.590E-10	1.450E-13	6.920E-14	1.010E-15	1.740E-15	1.720E-15	1.870E-15
11	6437.40	2.370E-10	3.620E-10	1.240E-13	5.890E-14	8.850E-16	1.520E-15	1.510E-15	1.640E-15
12	7242.10	1.960E-10	2.910E-10	1.090E-13	5.180E-14	7.860E-16	1.350E-15	1.340E-15	1.460E-15
13	8046.80	1.760E-10	2.390E-10	1.030E-13	4.900E-14	6.050E-12	1.220E-15	1.200E-15	1.310E-15
14	12070.10	2.890E-10	1.120E-10	1.450E-13	6.920E-14	3.490E-11	8.130E-16	8.030E-16	8.730E-16
15	16093.49	2.930E-10	6.470E-11	3.280E-13	1.560E-13	7.380E-11	8.050E-16	8.210E-15	2.130E-10
16	24140.29	1.060E-10	2.960E-11	1.350E-12	6.450E-13	3.500E-11	7.880E-15	8.740E-14	8.640E-11
17	32187.00	4.980E-11	1.730E-11	3.110E-12	2.670E-12	1.830E-11	6.350E-13	1.110E-12	4.080E-11
18	40233.79	2.810E-11	1.130E-11	4.820E-12	1.500E-11	1.090E-11	2.230E-11	3.010E-12	2.300E-11
19	48280.48	1.800E-11	8.020E-12	5.840E-12	9.470E-12	7.230E-12	6.380E-12	6.300E-12	1.460E-11
20	56327.29	1.240E-11	5.980E-12	1.120E-11	6.460E-12	2.760E-12	4.760E-12	4.700E-12	9.970E-12
21	64373.99	9.060E-12	4.630E-12	9.320E-12	4.660E-12	2.140E-12	3.690E-12	3.650E-12	7.180E-12
22	72420.75	6.970E-12	3.730E-12	7.780E-12	2.240E-12	1.730E-12	2.980E-12	2.940E-12	5.440E-12
23	80467.44	5.480E-12	3.060E-12	6.540E-12	1.840E-12	1.420E-12	2.440E-12	2.410E-12	4.220E-12

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES 1/M**2							
		N - (9) 180.0	NNE - (10) 202.5	NE - (11) 225.0	ENE - (12) 247.5	E - (13) 270.0	ESE - (14) 292.5	SE - (15) 315.0	SSE - (16) 337.5
1	201.20	7.100E-14	1.730E-13	2.320E-13	1.380E-13	9.330E-14	5.900E-14	4.400E-14	5.900E-14
2	402.30	3.550E-14	8.670E-14	1.160E-13	4.190E-13	4.670E-14	2.950E-14	2.200E-14	2.950E-14
3	804.70	1.780E-14	4.340E-14	5.800E-14	7.680E-12	2.330E-14	1.510E-14	1.150E-14	1.480E-14
4	1207.00	1.180E-14	2.890E-14	3.860E-14	1.920E-11	1.560E-14	9.840E-15	7.330E-15	1.690E-14
5	1609.40	8.880E-15	2.170E-14	2.900E-14	2.230E-11	1.170E-14	7.380E-15	5.500E-15	2.430E-14
6	2414.00	5.920E-15	1.450E-14	1.930E-14	1.800E-11	7.780E-15	4.920E-15	3.660E-15	3.080E-14
7	3218.70	4.440E-15	1.080E-14	1.450E-14	1.340E-11	5.830E-15	3.690E-15	2.750E-15	3.710E-14
8	4023.40	3.550E-15	8.670E-15	1.160E-14	1.020E-11	4.670E-15	2.950E-15	2.200E-15	3.540E-14
9	4828.10	2.960E-15	7.230E-15	9.660E-15	7.990E-12	3.890E-15	2.460E-15	1.830E-15	2.590E-14
10	5632.70	2.540E-15	6.200E-15	8.280E-15	6.440E-12	3.330E-15	2.110E-15	1.570E-15	2.090E-14
11	6437.40	2.220E-15	5.420E-15	7.250E-15	5.300E-12	2.920E-15	1.840E-15	1.370E-15	1.800E-14
12	7242.10	1.970E-15	4.820E-15	6.440E-15	4.440E-12	2.590E-15	1.640E-15	1.220E-15	1.590E-14
13	8046.80	1.780E-15	4.340E-15	5.800E-15	3.770E-12	2.330E-15	1.480E-15	1.100E-15	1.470E-14
14	12070.10	1.180E-15	2.890E-15	3.860E-15	1.950E-12	1.560E-15	9.840E-16	7.330E-16	1.300E-14
15	16093.49	8.880E-16	2.170E-15	2.900E-15	1.180E-12	1.170E-15	7.380E-16	5.500E-16	3.290E-12
16	24140.29	5.910E-16	1.440E-15	1.930E-15	5.670E-13	7.760E-16	4.930E-16	3.840E-16	5.940E-12
17	32187.00	4.440E-16	1.080E-15	1.450E-15	3.360E-13	5.830E-16	5.530E-15	1.160E-13	7.710E-12
18	40233.79	3.550E-16	8.670E-16	1.160E-15	2.380E-13	9.690E-14	1.330E-14	3.110E-13	8.290E-12
19	48280.48	2.960E-16	7.230E-16	9.660E-16	1.750E-13	1.750E-13	2.170E-14	5.360E-13	7.950E-12
20	56327.29	2.540E-16	6.190E-16	8.280E-16	1.410E-13	2.580E-13	2.990E-14	7.600E-13	7.320E-12
21	64373.99	6.720E-13	5.420E-16	7.250E-16	1.200E-13	3.320E-13	3.670E-14	9.450E-13	6.580E-12
22	72420.75	6.470E-12	4.820E-16	6.440E-16	1.040E-13	3.740E-13	4.020E-14	1.030E-12	5.780E-12
23	80467.44	5.870E-12	4.340E-16	5.800E-16	9.310E-14	4.040E-13	4.260E-14	1.090E-12	5.060E-12

TABLE 4.1-6

RELATIVE DEPOSITION CONCENTRATIONS PER UNIT
EMISSION FOR MAIN STACK FOR
JULY - SEPTEMBER 1982

UNDEPLETED X/Q FOR THE REACTOR BUILDING VENT OCT - DEC , 1982

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		S - (1) 0.0	SSW - (2) 22.5	SW - (3) 45.0	WSW - (4) 67.5	W - (5) 90.0	WNW - (6) 112.5	NW - (7) 135.0	NNW - (8) 157.5
1	201.20	1.240E-05	1.550E-05	1.520E-05	1.510E-05	9.640E-06	1.460E-05	1.690E-05	2.490E-05
2	402.30	3.540E-06	4.430E-06	4.330E-06	4.270E-06	2.740E-06	4.170E-06	4.810E-06	7.060E-06
3	804.70	1.170E-06	1.400E-06	1.480E-06	1.530E-06	9.500E-07	1.410E-06	1.660E-06	2.480E-06
4	1207.00	6.180E-07	7.240E-07	7.930E-07	8.340E-07	5.100E-07	7.490E-07	8.930E-07	1.340E-06
5	1609.40	3.930E-07	4.570E-07	5.080E-07	5.390E-07	3.280E-07	4.780E-07	5.730E-07	8.600E-07
6	2414.00	2.220E-07	2.630E-07	2.830E-07	2.950E-07	1.820E-07	2.680E-07	3.180E-07	4.760E-07
7	3218.70	1.500E-07	1.800E-07	1.890E-07	1.940E-07	1.210E-07	1.800E-07	2.120E-07	3.150E-07
8	4023.40	1.100E-07	1.340E-07	1.380E-07	1.410E-07	8.830E-08	1.320E-07	1.550E-07	2.300E-07
9	4828.10	8.620E-08	1.050E-07	1.080E-07	1.090E-07	6.860E-08	1.030E-07	1.200E-07	1.780E-07
10	5632.70	6.990E-08	8.530E-08	8.700E-08	8.810E-08	5.550E-08	8.320E-08	9.720E-08	1.440E-07
11	6437.40	5.830E-08	7.140E-08	7.240E-08	7.300E-08	4.610E-08	6.930E-08	8.080E-08	1.190E-07
12	7242.10	4.970E-08	6.110E-08	6.140E-08	6.170E-08	3.910E-08	5.890E-08	6.850E-08	1.010E-07
13	8046.80	4.310E-08	5.320E-08	5.310E-08	5.320E-08	3.370E-08	5.100E-08	5.920E-08	8.730E-08
14	12070.10	2.510E-08	3.130E-08	3.070E-08	3.040E-08	1.940E-08	2.960E-08	3.420E-08	5.020E-08
15	16093.49	1.730E-08	2.170E-08	2.110E-08	2.070E-08	1.330E-08	2.030E-08	2.340E-08	3.430E-08
16	24140.29	1.040E-08	1.320E-08	1.260E-08	1.220E-08	7.920E-09	1.220E-08	1.390E-08	2.030E-08
17	32187.00	7.250E-09	9.260E-09	8.710E-09	8.400E-09	5.480E-09	8.460E-09	9.640E-09	1.400E-08
18	40233.79	5.520E-09	7.070E-09	6.600E-09	6.330E-09	4.150E-09	6.420E-09	7.300E-09	1.060E-08
19	48280.48	4.440E-09	5.720E-09	5.300E-09	5.060E-09	3.330E-09	5.160E-09	5.860E-09	8.500E-09
20	56327.29	3.700E-09	4.780E-09	4.400E-09	4.180E-09	2.760E-09	4.290E-09	4.860E-09	7.050E-09
21	64373.99	3.160E-09	4.090E-09	3.750E-09	3.550E-09	2.350E-09	3.660E-09	4.140E-09	5.990E-09
22	72420.75	2.750E-09	3.570E-09	3.260E-09	3.080E-09	2.040E-09	3.180E-09	3.600E-09	5.200E-09
23	80467.44	2.430E-09	3.160E-09	2.870E-09	2.710E-09	1.800E-09	2.810E-09	3.170E-09	4.580E-09

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		N - (9) 180.0	NNE - (10) 202.5	NE - (11) 225.0	ENE - (12) 247.5	E - (13) 270.0	ESE - (14) 292.5	SE - (15) 315.0	SSE - (16) 337.5
1	201.20	2.950E-05	5.610E-05	5.090E-05	3.810E-05	2.700E-05	2.350E-05	1.900E-05	1.260E-05
2	402.30	8.370E-06	1.590E-05	1.450E-05	1.090E-05	7.670E-06	6.690E-06	5.410E-06	3.600E-06
3	804.70	2.920E-06	5.600E-06	4.900E-06	3.690E-06	2.630E-06	2.260E-06	1.810E-06	1.180E-06
4	1207.00	1.580E-06	3.030E-06	2.610E-06	1.970E-06	1.410E-06	1.200E-06	9.540E-07	6.180E-07
5	1609.40	1.010E-06	1.950E-06	1.670E-06	1.260E-06	9.010E-07	7.700E-07	6.080E-07	3.930E-07
6	2414.00	5.610E-07	1.080E-06	9.330E-07	7.030E-07	5.020E-07	4.310E-07	3.430E-07	2.230E-07
7	3218.70	3.720E-07	7.120E-07	6.250E-07	4.700E-07	3.350E-07	2.890E-07	2.300E-07	1.510E-07
8	4023.40	2.710E-07	5.190E-07	4.590E-07	3.450E-07	2.450E-07	2.120E-07	1.700E-07	1.110E-07
9	4828.10	2.110E-07	4.030E-07	3.570E-07	2.680E-07	1.910E-07	1.650E-07	1.320E-07	8.700E-08
10	5632.70	1.700E-07	3.250E-07	2.890E-07	2.170E-07	1.540E-07	1.340E-07	1.070E-07	7.060E-08
11	6437.40	1.410E-07	2.700E-07	2.410E-07	1.810E-07	1.280E-07	1.110E-07	8.930E-08	5.890E-08
12	7242.10	1.200E-07	2.280E-07	2.050E-07	1.540E-07	1.090E-07	9.450E-08	7.600E-08	5.020E-08
13	8046.80	1.030E-07	1.970E-07	1.770E-07	1.330E-07	9.420E-08	8.180E-08	6.590E-08	4.360E-08
14	12070.10	5.940E-08	1.130E-07	1.030E-07	7.700E-08	5.440E-08	4.740E-08	3.830E-08	2.550E-08
15	16093.49	4.060E-08	7.730E-08	7.060E-08	5.290E-08	3.730E-08	3.260E-08	2.640E-08	1.760E-08
16	24140.29	2.410E-08	4.560E-08	4.220E-08	3.160E-08	2.230E-08	1.950E-08	1.580E-08	1.060E-08
17	32187.00	1.670E-08	3.160E-08	2.940E-08	2.190E-08	1.540E-08	1.360E-08	1.100E-08	7.410E-09
18	40233.79	1.260E-08	2.390E-08	2.230E-08	1.660E-08	1.170E-08	1.030E-08	8.380E-09	5.640E-09
19	48280.48	1.010E-08	1.910E-08	1.790E-08	1.340E-08	9.390E-09	8.270E-09	6.750E-09	4.550E-09
20	56327.29	8.380E-09	1.590E-08	1.490E-08	1.110E-08	7.800E-09	6.880E-09	5.620E-09	3.790E-09
21	64373.99	7.130E-09	1.350E-08	1.270E-08	9.470E-09	6.640E-09	5.860E-09	4.790E-09	3.240E-09
22	72420.75	6.190E-09	1.170E-08	1.100E-08	8.230E-09	5.780E-09	5.100E-09	4.170E-09	2.820E-09
23	80467.44	5.450E-09	1.030E-08	9.740E-09	7.260E-09	5.090E-09	4.500E-09	3.680E-09	2.490E-09

TABLE 4.1-7

UNDEPLETED RELATIVE CONCENTRATIONS PER UNIT
EMISSION FOR REACTOR BUILDING VENT FOR
OCTOBER - DECEMBER 1982

DEPLETED X/Q FOR THE REACTOR BUILDING VENT OCT - DEC , 1982

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		S - (1) 0.0	SSW - (2) 22.5	SW - (3) 45.0	WSW - (4) 67.5	W - (5) 90.0	WNW - (6) 112.5	NW - (7) 135.0	NNW - (8) 157.5
1	201.20	1.160E-05	1.450E-05	1.420E-05	1.410E-05	8.990E-06	1.370E-05	1.580E-05	2.320E-05
2	402.30	3.150E-06	3.940E-06	3.850E-06	3.800E-06	2.440E-06	3.710E-06	4.280E-06	6.280E-06
3	804.70	1.000E-06	1.200E-06	1.260E-06	1.310E-06	8.100E-07	1.200E-06	1.420E-06	2.110E-06
4	1207.00	5.070E-07	5.940E-07	6.500E-07	6.840E-07	4.190E-07	6.140E-07	7.320E-07	1.100E-06
5	1609.40	3.130E-07	3.630E-07	4.040E-07	4.280E-07	2.610E-07	3.800E-07	4.560E-07	6.840E-07
6	2414.00	1.700E-07	2.010E-07	2.160E-07	2.250E-07	1.390E-07	2.050E-07	2.430E-07	3.630E-07
7	3218.70	1.100E-07	1.320E-07	1.390E-07	1.430E-07	8.870E-08	1.320E-07	1.550E-07	2.310E-07
8	4023.40	7.840E-08	9.490E-08	9.810E-08	1.000E-07	6.260E-08	9.360E-08	1.100E-07	1.630E-07
9	4828.10	5.920E-08	7.200E-08	7.380E-08	7.510E-08	4.710E-08	7.050E-08	8.260E-08	1.220E-07
10	5632.70	4.670E-08	5.690E-08	5.810E-08	5.880E-08	3.700E-08	5.550E-08	6.490E-08	9.600E-08
11	6437.40	3.800E-08	4.650E-08	4.710E-08	4.760E-08	3.000E-08	4.510E-08	5.260E-08	7.780E-08
12	7242.10	3.170E-08	3.890E-08	3.920E-08	3.940E-08	2.490E-08	3.760E-08	4.370E-08	6.450E-08
13	8046.80	2.690E-08	3.330E-08	3.320E-08	3.330E-08	2.110E-08	3.190E-08	3.710E-08	5.460E-08
14	12070.10	1.450E-08	1.810E-08	1.770E-08	1.750E-08	1.120E-08	1.710E-08	1.970E-08	2.900E-08
15	16093.49	9.360E-09	1.180E-08	1.140E-08	1.120E-08	7.200E-09	1.100E-08	1.270E-08	1.850E-08
16	24140.29	5.050E-09	6.410E-09	6.090E-09	5.910E-09	3.840E-09	5.900E-09	6.750E-09	9.850E-09
17	32187.00	3.210E-09	4.090E-09	3.850E-09	3.710E-09	2.420E-09	3.740E-09	4.260E-09	6.210E-09
18	40233.79	2.260E-09	2.890E-09	2.700E-09	2.590E-09	1.700E-09	2.630E-09	2.990E-09	4.340E-09
19	48280.48	1.700E-09	2.190E-09	2.030E-09	1.930E-09	1.270E-09	1.970E-09	2.240E-09	3.250E-09
20	56327.29	1.330E-09	1.720E-09	1.590E-09	1.510E-09	9.950E-10	1.550E-09	1.750E-09	2.540E-09
21	64373.99	1.080E-09	1.400E-09	1.280E-09	1.210E-09	8.020E-10	1.250E-09	1.410E-09	2.040E-09
22	72420.75	8.950E-10	1.160E-09	1.060E-09	1.000E-09	6.640E-10	1.040E-09	1.170E-09	1.690E-09
23	80467.44	7.550E-10	9.810E-10	8.920E-10	8.420E-10	5.590E-10	8.730E-10	9.840E-10	1.420E-09

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		N - (9) 180.0	NNE - (10) 202.5	NE - (11) 225.0	ENE - (12) 247.5	E - (13) 270.0	ESE - (14) 292.5	SE - (15) 315.0	SSE - (16) 337.5
1	201.20	2.750E-05	5.230E-05	4.750E-05	3.560E-05	2.520E-05	2.190E-05	1.770E-05	1.180E-05
2	402.30	7.450E-06	1.420E-05	1.290E-05	9.660E-06	6.830E-06	5.950E-06	4.810E-06	3.200E-06
3	804.70	2.490E-06	4.780E-06	4.180E-06	3.150E-06	2.240E-06	1.930E-06	1.540E-06	1.010E-06
4	1207.00	1.290E-06	2.480E-06	2.140E-06	1.610E-06	1.150E-06	9.880E-07	7.830E-07	5.070E-07
5	1609.40	8.060E-07	1.550E-06	1.330E-06	1.000E-06	7.170E-07	6.120E-07	4.840E-07	3.120E-07
6	2414.00	4.280E-07	8.210E-07	7.120E-07	5.370E-07	3.830E-07	3.290E-07	2.610E-07	1.700E-07
7	3218.70	2.730E-07	5.230E-07	4.590E-07	3.450E-07	2.460E-07	2.120E-07	1.690E-07	1.110E-07
8	4023.40	1.920E-07	3.680E-07	3.250E-07	2.450E-07	1.740E-07	1.500E-07	1.200E-07	7.900E-08
9	4828.10	1.450E-07	2.760E-07	2.450E-07	1.840E-07	1.310E-07	1.130E-07	9.080E-08	5.970E-08
10	5632.70	1.140E-07	2.170E-07	1.930E-07	1.450E-07	1.030E-07	8.920E-08	7.150E-08	4.710E-08
11	6437.40	9.200E-08	1.760E-07	1.570E-07	1.180E-07	8.360E-08	7.240E-08	5.820E-08	3.840E-08
12	7242.10	7.630E-08	1.460E-07	1.310E-07	9.790E-08	6.950E-08	6.030E-08	4.850E-08	3.200E-08
13	8046.80	6.460E-08	1.230E-07	1.110E-07	8.310E-08	5.890E-08	5.120E-08	4.120E-08	2.730E-08
14	12070.10	3.430E-08	6.530E-08	5.930E-08	4.440E-08	3.140E-08	2.740E-08	2.210E-08	1.470E-08
15	16093.49	2.200E-08	4.180E-08	3.820E-08	2.860E-08	2.020E-08	1.760E-08	1.430E-08	9.520E-09
16	24140.29	1.170E-08	2.220E-08	2.050E-08	1.530E-08	1.080E-08	9.460E-09	7.690E-09	5.150E-09
17	32187.00	7.370E-09	1.400E-08	1.300E-08	9.700E-09	6.820E-09	5.990E-09	4.880E-09	3.270E-09
18	40233.79	5.160E-09	9.770E-09	9.110E-09	6.800E-09	4.780E-09	4.210E-09	3.430E-09	2.310E-09
19	48280.48	3.870E-09	7.320E-09	6.850E-09	5.110E-09	3.590E-09	3.160E-09	2.580E-09	1.740E-09
20	56327.29	3.020E-09	5.710E-09	5.370E-09	4.000E-09	2.810E-09	2.480E-09	2.020E-09	1.370E-09
21	64373.99	2.430E-09	4.600E-09	4.330E-09	3.230E-09	2.270E-09	2.000E-09	1.640E-09	1.110E-09
22	72420.75	2.010E-09	3.810E-09	3.590E-09	2.680E-09	1.880E-09	1.660E-09	1.360E-09	9.180E-10
23	80467.44	1.690E-09	3.200E-09	3.030E-09	2.260E-09	1.580E-09	1.400E-09	1.140E-09	7.740E-10

TABLE 4.1-8

DEPLETED RELATIVE CONCENTRATIONS PER UNIT
EMISSION FOR REACTOR BUILDING VENT FOR
OCTOBER - DECEMBER 1982

DEPOSITION FACTORS FOR THE REACTOR BUILDING VENT OCT - DEC , 1982

RECPTR NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES 1/M**2							
		S - (1) 0.0	SSW - (2) 22.5	SW - (3) 45.0	WSW - (4) 67.5	W - (5) 90.0	WNW - (6) 112.5	NW - (7) 135.0	NNW - (8) 157.5
1	201.20	1.050E-07	1.960E-07	1.630E-07	7.820E-08	3.580E-08	4.240E-08	7.290E-08	1.110E-07
2	402.30	3.480E-08	6.520E-08	5.420E-08	2.600E-08	1.190E-08	1.410E-08	2.420E-08	3.700E-08
3	804.70	1.100E-08	2.070E-08	1.720E-08	8.250E-09	3.770E-09	4.470E-09	7.690E-09	1.170E-08
4	1207.00	5.430E-09	1.020E-08	8.460E-09	4.060E-09	1.860E-09	2.200E-09	3.780E-09	5.780E-09
5	1609.40	3.240E-09	6.070E-09	5.050E-09	2.420E-09	1.110E-09	1.310E-09	2.260E-09	3.450E-09
6	2414.00	1.560E-09	2.910E-09	2.420E-09	1.160E-09	5.320E-10	6.300E-10	1.080E-09	1.650E-09
7	3218.70	9.280E-10	1.740E-09	1.450E-09	6.930E-10	3.170E-10	3.760E-10	6.460E-10	9.870E-10
8	4023.40	6.260E-10	1.170E-09	9.750E-10	4.680E-10	2.140E-10	2.540E-10	4.360E-10	6.660E-10
9	4828.10	4.610E-10	8.650E-10	7.190E-10	3.450E-10	1.580E-10	1.870E-10	3.210E-10	4.910E-10
10	5632.70	3.530E-10	6.620E-10	5.500E-10	2.640E-10	1.210E-10	1.430E-10	2.460E-10	3.760E-10
11	6437.40	2.790E-10	5.220E-10	4.340E-10	2.080E-10	9.520E-11	1.130E-10	1.940E-10	2.960E-10
12	7242.10	2.240E-10	4.190E-10	3.490E-10	1.670E-10	7.650E-11	9.070E-11	1.560E-10	2.380E-10
13	8046.80	1.840E-10	3.440E-10	2.860E-10	1.370E-10	6.280E-11	7.450E-11	1.280E-10	1.950E-10
14	12070.10	8.450E-11	1.580E-10	1.320E-10	6.310E-11	2.890E-11	3.420E-11	5.880E-11	8.990E-11
15	16093.49	4.850E-11	9.100E-11	7.560E-11	3.630E-11	1.660E-11	1.970E-11	3.380E-11	5.160E-11
16	24140.29	2.240E-11	4.200E-11	3.490E-11	1.670E-11	7.660E-12	9.090E-12	1.560E-11	2.380E-11
17	32187.00	1.300E-11	2.440E-11	2.030E-11	9.740E-12	4.460E-12	5.280E-12	9.080E-12	1.390E-11
18	40233.79	8.570E-12	1.610E-11	1.330E-11	6.400E-12	2.930E-12	3.470E-12	5.970E-12	9.110E-12
19	48280.48	6.090E-12	1.140E-11	9.480E-12	4.550E-12	2.080E-12	2.470E-12	4.240E-12	6.470E-12
20	56327.29	4.550E-12	8.520E-12	7.080E-12	3.400E-12	1.550E-12	1.840E-12	3.160E-12	4.830E-12
21	64373.99	3.520E-12	6.600E-12	5.480E-12	2.630E-12	1.200E-12	1.430E-12	2.450E-12	3.750E-12
22	72420.75	2.840E-12	5.330E-12	4.430E-12	2.120E-12	9.720E-13	1.150E-12	1.980E-12	3.020E-12
23	80467.44	2.330E-12	4.360E-12	3.630E-12	1.740E-12	7.960E-13	9.430E-13	1.620E-12	2.480E-12

RECPTR NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES 1/M**2							
		N - (9) 180.0	NNE - (10) 202.5	NE - (11) 225.0	ENE - (12) 247.5	E - (13) 270.0	ESE - (14) 292.5	SE - (15) 315.0	SSE - (16) 337.5
1	201.20	1.670E-07	4.690E-07	4.300E-07	2.600E-07	2.060E-07	2.130E-07	1.790E-07	1.190E-07
2	402.30	5.550E-08	1.560E-07	1.430E-07	8.630E-08	6.830E-08	7.090E-08	5.950E-08	3.960E-08
3	804.70	1.760E-08	4.950E-08	4.530E-08	2.740E-08	2.170E-08	2.250E-08	1.890E-08	1.260E-08
4	1207.00	8.660E-09	2.430E-08	2.230E-08	1.350E-08	1.070E-08	1.110E-08	9.280E-09	6.190E-09
5	1609.40	5.170E-09	1.450E-08	1.330E-08	8.040E-09	6.360E-09	6.610E-09	5.540E-09	3.690E-09
6	2414.00	2.480E-09	6.970E-09	6.380E-09	3.860E-09	3.050E-09	3.170E-09	2.660E-09	1.770E-09
7	3218.70	1.480E-09	4.160E-09	3.810E-09	2.300E-09	1.820E-09	1.890E-09	1.590E-09	1.060E-09
8	4023.40	9.990E-10	2.810E-09	2.570E-09	1.550E-09	1.230E-09	1.280E-09	1.070E-09	7.130E-10
9	4828.10	7.360E-10	2.070E-09	1.890E-09	1.140E-09	9.050E-10	9.400E-10	7.890E-10	5.260E-10
10	5632.70	5.640E-10	1.580E-09	1.450E-09	8.770E-10	6.930E-10	7.200E-10	6.040E-10	4.030E-10
11	6437.40	4.440E-10	1.250E-09	1.140E-09	6.910E-10	5.470E-10	5.680E-10	4.760E-10	3.170E-10
12	7242.10	3.570E-10	1.000E-09	9.180E-10	5.550E-10	4.390E-10	4.560E-10	3.830E-10	2.550E-10
13	8046.80	2.930E-10	8.240E-10	7.540E-10	4.560E-10	3.610E-10	3.750E-10	3.140E-10	2.090E-10
14	12070.10	1.350E-10	3.790E-10	3.470E-10	2.100E-10	1.660E-10	1.720E-10	1.440E-10	9.630E-11
15	16093.49	7.740E-11	2.180E-10	1.990E-10	1.200E-10	9.530E-11	9.890E-11	8.300E-11	5.530E-11
16	24140.29	3.580E-11	1.000E-10	9.190E-11	5.560E-11	4.400E-11	4.570E-11	3.830E-11	2.550E-11
17	32187.00	2.080E-11	5.850E-11	5.350E-11	3.240E-11	2.560E-11	2.660E-11	2.230E-11	1.490E-11
18	40233.79	1.370E-11	3.840E-11	3.510E-11	2.130E-11	1.680E-11	1.750E-11	1.460E-11	9.760E-12
19	48280.48	9.710E-12	2.730E-11	2.500E-11	1.510E-11	1.190E-11	1.240E-11	1.040E-11	6.930E-12
20	56327.29	7.250E-12	2.040E-11	1.860E-11	1.130E-11	8.920E-12	9.260E-12	7.770E-12	5.180E-12
21	64373.99	5.620E-12	1.580E-11	1.440E-11	8.740E-12	6.910E-12	7.180E-12	6.020E-12	4.010E-12
22	72420.75	4.540E-12	1.270E-11	1.170E-11	7.060E-12	5.580E-12	5.800E-12	4.860E-12	3.240E-12
23	80467.44	3.710E-12	1.040E-11	9.550E-12	5.780E-12	4.570E-12	4.750E-12	3.980E-12	2.650E-12

TABLE 4.1-9

RELATIVE DEPOSITION CONCENTRATIONS PER UNIT
EMISSION FOR REACTOR BUILDING VENT FOR

OCTOBER - DECEMBER 1982

UNDEPLETED X/Q FOR THE MAIN STACK OCT - DEC , 1982

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		S - (1) 0.0	SSW - (2) 22.5	SW - (3) 45.0	WSW - (4) 67.5	W - (5) 90.0	WNW - (6) 112.5	NW - (7) 135.0	NNW - (8) 157.5
1	201.20	2.140E-30	0.000E-01	0.000E-01	0.000E-01	7.170E-27	1.010E-28	0.000E-01	0.000E-01
2	402.30	2.390E-09	7.590E-10	5.080E-11	1.120E-11	2.370E-10	8.190E-12	7.380E-21	4.710E-23
3	804.70	2.020E-07	7.210E-08	7.950E-08	1.190E-08	1.240E-08	2.310E-09	6.600E-12	1.620E-12
4	1207.00	1.900E-07	2.610E-07	1.300E-07	8.170E-08	3.130E-08	1.160E-08	5.170E-10	2.960E-10
5	1609.40	2.660E-07	5.420E-07	1.510E-07	1.180E-07	4.070E-08	2.060E-08	2.620E-09	2.130E-09
6	2414.00	2.300E-07	2.830E-07	1.170E-07	8.850E-08	4.110E-08	2.770E-08	8.540E-09	9.490E-09
7	3218.70	1.640E-07	1.850E-07	9.050E-08	6.620E-08	3.480E-08	2.620E-08	1.170E-08	1.470E-08
8	4023.40	1.190E-07	1.330E-07	7.340E-08	5.160E-08	2.890E-08	2.300E-08	1.240E-08	1.670E-08
9	4828.10	9.150E-08	1.010E-07	6.250E-08	4.210E-08	2.430E-08	1.990E-08	1.190E-08	1.670E-08
10	5632.70	7.340E-08	8.050E-08	5.420E-08	3.530E-08	2.090E-08	1.740E-08	1.120E-08	1.620E-08
11	6437.40	6.080E-08	6.630E-08	4.760E-08	3.010E-08	1.830E-08	1.540E-08	1.050E-08	1.540E-08
12	7242.10	5.140E-08	5.610E-08	4.220E-08	2.600E-08	1.610E-08	1.370E-08	9.750E-09	1.460E-08
13	8046.80	4.440E-08	4.840E-08	3.770E-08	2.280E-08	2.670E-08	1.330E-08	1.350E-08	1.380E-08
14	12070.10	2.550E-08	2.770E-08	2.460E-08	1.380E-08	1.610E-08	8.450E-09	8.660E-09	1.000E-08
15	16093.49	1.740E-08	1.900E-08	1.800E-08	9.690E-09	1.130E-08	6.080E-09	7.350E-09	1.740E-08
16	24140.29	1.030E-08	1.130E-08	1.140E-08	5.860E-09	6.800E-09	3.780E-09	4.520E-09	1.040E-08
17	32187.00	7.170E-09	7.890E-09	8.280E-09	4.210E-09	4.780E-09	3.130E-09	3.400E-09	7.230E-09
18	40233.79	5.430E-09	5.990E-09	6.440E-09	3.670E-09	3.650E-09	2.940E-09	2.670E-09	5.480E-09
19	48280.48	4.370E-09	4.830E-09	5.250E-09	2.930E-09	2.940E-09	2.490E-09	2.610E-09	4.400E-09
20	56327.29	3.630E-09	4.030E-09	4.960E-09	2.420E-09	2.760E-09	2.060E-09	2.160E-09	3.650E-09
21	64373.99	3.090E-09	3.440E-09	4.250E-09	2.050E-09	2.350E-09	1.750E-09	1.830E-09	3.110E-09
22	72420.75	2.690E-09	2.990E-09	3.720E-09	1.810E-09	2.040E-09	1.510E-09	1.590E-09	2.700E-09
23	80467.44	2.370E-09	2.640E-09	3.300E-09	1.590E-09	1.800E-09	1.330E-09	1.400E-09	2.380E-09

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		N - (9) 130.0	NNE - (10) 202.5	NE - (11) 225.0	ENE - (12) 247.5	E - (13) 270.0	ESE - (14) 292.5	SE - (15) 315.0	SSE - (16) 337.5
1	201.20	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01
2	402.30	5.930E-23	9.600E-23	9.420E-23	7.000E-23	6.520E-23	5.670E-23	3.880E-23	4.180E-15
3	804.70	2.040E-12	3.310E-12	3.250E-12	2.420E-12	2.250E-12	6.480E-12	9.400E-12	1.870E-08
4	1207.00	3.730E-10	6.040E-10	5.930E-10	4.410E-10	4.110E-10	7.040E-10	7.370E-10	5.350E-08
5	1609.40	2.680E-09	4.340E-09	4.260E-09	3.170E-09	2.950E-09	4.080E-09	3.730E-09	5.800E-08
6	2414.00	1.190E-08	1.930E-08	1.900E-08	1.410E-08	1.310E-08	1.500E-08	1.220E-08	4.940E-08
7	3218.70	1.860E-08	3.010E-08	2.950E-08	2.190E-08	2.040E-08	2.150E-08	1.660E-08	3.930E-08
8	4023.40	2.100E-08	3.410E-08	3.340E-08	2.490E-08	2.320E-08	2.340E-08	1.760E-08	3.210E-08
9	4828.10	2.100E-08	3.410E-08	3.340E-08	2.490E-08	2.310E-08	2.290E-08	1.700E-08	2.740E-08
10	5632.70	2.040E-08	3.300E-08	3.240E-08	2.410E-08	2.240E-08	2.180E-08	1.600E-08	2.390E-08
11	6437.40	1.940E-08	3.150E-08	3.090E-08	2.300E-08	2.140E-08	2.050E-08	1.490E-08	2.110E-08
12	7242.10	1.840E-08	2.990E-08	2.930E-08	2.180E-08	2.030E-08	1.920E-08	1.390E-08	1.880E-08
13	8046.80	1.740E-08	2.810E-08	2.760E-08	2.050E-08	1.910E-08	1.800E-08	1.290E-08	1.690E-08
14	12070.10	1.270E-08	2.050E-08	2.010E-08	1.500E-08	1.400E-08	1.280E-08	9.160E-09	1.170E-08
15	16093.49	9.660E-09	1.560E-08	1.530E-08	1.140E-08	1.070E-08	9.730E-09	6.940E-09	1.050E-08
16	24140.29	6.370E-09	1.020E-08	1.010E-08	7.560E-09	7.080E-09	6.380E-09	4.570E-09	6.600E-09
17	32187.00	4.690E-09	7.520E-09	7.430E-09	5.590E-09	5.250E-09	5.630E-09	5.570E-09	4.750E-09
18	40233.79	3.680E-09	5.890E-09	5.830E-09	5.300E-09	5.920E-09	4.410E-09	4.380E-09	3.680E-09
19	48280.48	3.020E-09	4.810E-09	4.770E-09	4.340E-09	4.860E-09	3.610E-09	3.590E-09	2.990E-09
20	56327.29	2.550E-09	4.050E-09	4.020E-09	3.670E-09	4.110E-09	3.050E-09	3.030E-09	2.510E-09
21	64373.99	3.120E-09	3.490E-09	3.470E-09	3.170E-09	3.560E-09	2.640E-09	2.620E-09	2.160E-09
22	72420.75	3.510E-09	3.060E-09	3.050E-09	2.800E-09	3.140E-09	2.320E-09	2.310E-09	1.890E-09
23	80467.44	3.110E-09	2.720E-09	2.720E-09	2.490E-09	2.800E-09	2.070E-09	2.060E-09	1.680E-09

TABLE 4.1-10
UNDEPLETED RELATIVE CONCENTRATIONS PER UNIT
EMISSION FOR MAIN STACK FOR
OCTOBER-DECEMBER 1982

DEPLETED X/Q FOR THE MAIN STACK OCT - DEC , 1982

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		S - (1) 0.0	SSW - (2) 22.5	SW - (3) 45.0	WSW - (4) 67.5	W - (5) 90.0	WNW - (6) 112.5	NW - (7) 135.0	NNW - (8) 157.5
1	201.20	2.140E-30	0.000E-01	0.000E-01	0.000E-01	7.160E-27	1.010E-28	0.000E-01	0.000E-01
2	402.30	2.380E-09	7.590E-10	5.080E-11	1.120E-11	2.370E-10	8.190E-12	7.380E-21	4.710E-23
3	804.70	2.020E-07	7.210E-08	7.950E-08	1.190E-08	1.240E-08	2.310E-09	6.600E-12	1.620E-12
4	1207.00	1.900E-07	2.520E-07	1.300E-07	8.170E-08	3.110E-08	1.150E-08	5.170E-10	2.960E-10
5	1609.40	2.560E-07	4.320E-07	1.510E-07	1.180E-07	4.030E-08	2.060E-08	2.620E-09	2.130E-09
6	2414.00	2.040E-07	2.160E-07	1.170E-07	8.850E-08	4.070E-08	2.760E-08	8.540E-09	9.490E-09
7	3218.70	1.380E-07	1.360E-07	9.050E-08	6.620E-08	3.430E-08	2.610E-08	1.170E-08	1.470E-08
8	4023.40	9.830E-08	9.440E-08	7.340E-08	5.160E-08	2.840E-08	2.290E-08	1.240E-08	1.670E-08
9	4828.10	7.430E-08	6.940E-08	6.240E-08	4.210E-08	2.390E-08	1.980E-08	1.190E-08	1.670E-08
10	5632.70	5.870E-08	5.380E-08	5.400E-08	3.520E-08	2.050E-08	1.730E-08	1.120E-08	1.620E-08
11	6437.40	4.790E-08	4.330E-08	4.740E-08	3.000E-08	1.790E-08	1.530E-08	1.050E-08	1.540E-08
12	7242.10	4.010E-08	3.590E-08	4.190E-08	2.590E-08	1.580E-08	1.360E-08	9.750E-09	1.460E-08
13	8046.80	3.420E-08	3.040E-08	3.750E-08	2.270E-08	2.540E-08	1.320E-08	1.350E-08	1.380E-08
14	12070.10	1.840E-08	1.600E-08	2.400E-08	1.350E-08	1.480E-08	8.380E-09	8.660E-09	1.000E-08
15	16093.49	1.180E-08	1.030E-08	1.720E-08	9.260E-09	9.830E-09	6.030E-09	7.220E-09	1.500E-08
16	24140.29	6.210E-09	5.500E-09	1.040E-08	5.360E-09	5.340E-09	3.750E-09	4.380E-09	7.960E-09
17	32187.00	3.840E-09	3.490E-09	7.270E-09	3.570E-09	3.370E-09	2.880E-09	3.080E-09	4.950E-09
18	40233.79	2.630E-09	2.460E-09	5.460E-09	1.880E-09	2.350E-09	1.740E-09	2.260E-09	3.400E-09
19	48280.48	1.930E-09	1.850E-09	4.320E-09	1.370E-09	1.740E-09	9.520E-10	9.970E-10	2.480E-09
20	56327.29	1.480E-09	1.450E-09	3.230E-09	1.040E-09	9.950E-10	7.420E-10	7.770E-10	1.910E-09
21	64373.99	1.180E-09	1.170E-09	2.650E-09	8.210E-10	8.010E-10	5.960E-10	6.250E-10	1.510E-09
22	72420.75	9.670E-10	9.750E-10	2.240E-09	5.880E-10	6.630E-10	4.930E-10	5.160E-10	1.250E-09
23	80467.44	8.060E-10	8.220E-10	1.920E-09	4.930E-10	5.580E-10	4.140E-10	4.340E-10	1.040E-09

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES SEC/M**3							
		N - (9) 180.0	NNE - (10) 202.5	NE - (11) 225.0	ENE - (12) 247.5	E - (13) 270.0	ESE - (14) 292.5	SE - (15) 315.0	SSE - (16) 337.5
1	201.20	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01	0.000E-01
2	402.30	5.930E-23	9.600E-23	9.420E-23	7.000E-23	6.520E-23	5.670E-23	3.880E-23	4.180E-15
3	804.70	2.040E-12	3.310E-12	3.250E-12	2.420E-12	2.250E-12	6.480E-12	9.400E-12	1.870E-08
4	1207.00	3.730E-10	6.040E-10	5.930E-10	4.410E-10	4.110E-10	7.040E-10	7.370E-10	5.350E-08
5	1609.40	2.680E-09	4.340E-09	4.260E-09	3.170E-09	2.950E-09	4.080E-09	3.730E-09	5.800E-08
6	2414.00	1.190E-08	1.930E-08	1.900E-08	1.410E-08	1.310E-08	1.500E-08	1.220E-08	4.940E-08
7	3218.70	1.860E-08	3.010E-08	2.950E-08	2.190E-08	2.040E-08	2.150E-08	1.660E-08	3.930E-08
8	4023.40	2.100E-08	3.410E-08	3.340E-08	2.490E-08	2.320E-08	2.340E-08	1.760E-08	3.210E-08
9	4828.10	2.100E-08	3.410E-08	3.340E-08	2.490E-08	2.310E-08	2.270E-08	1.700E-08	2.740E-08
10	5632.70	2.040E-08	3.300E-08	3.240E-08	2.410E-08	2.240E-08	2.180E-08	1.600E-08	2.390E-08
11	6437.40	1.940E-08	3.150E-08	3.090E-08	2.300E-08	2.140E-08	2.050E-08	1.490E-08	2.110E-08
12	7242.10	1.840E-08	2.990E-08	2.930E-08	2.180E-08	2.030E-08	1.920E-08	1.390E-08	1.870E-08
13	8046.80	1.740E-08	2.810E-08	2.760E-08	2.050E-08	1.910E-08	1.800E-08	1.290E-08	1.680E-08
14	12070.10	1.270E-08	2.050E-08	2.010E-08	1.500E-08	1.400E-08	1.280E-08	9.160E-09	1.110E-08
15	16093.49	9.660E-09	1.560E-08	1.530E-08	1.140E-08	1.070E-08	9.730E-09	6.940E-09	9.830E-09
16	24140.29	6.370E-09	1.020E-08	1.010E-08	7.560E-09	7.080E-09	6.380E-09	4.570E-09	5.750E-09
17	32187.00	4.690E-09	7.520E-09	7.430E-09	5.590E-09	5.250E-09	5.630E-09	5.520E-09	3.880E-09
18	40233.79	3.680E-09	5.890E-09	5.830E-09	5.300E-09	5.920E-09	4.410E-09	4.330E-09	2.840E-09
19	48280.48	3.020E-09	4.810E-09	4.770E-09	4.340E-09	4.860E-09	3.610E-09	3.540E-09	2.200E-09
20	56327.29	2.550E-09	4.050E-09	4.020E-09	3.670E-09	4.110E-09	3.050E-09	2.980E-09	1.770E-09
21	64373.99	3.110E-09	3.490E-09	3.470E-09	3.170E-09	3.560E-09	2.640E-09	2.560E-09	1.470E-09
22	72420.75	2.520E-09	3.060E-09	3.050E-09	2.800E-09	3.140E-09	2.320E-09	2.250E-09	1.250E-09
23	80467.44	2.190E-09	2.720E-09	2.720E-09	2.490E-09	2.800E-09	2.070E-09	2.000E-09	1.090E-09

TABLE 4.1-11

DEPLETED RELATIVE CONCENTRATIONS PER UNIT
EMISSION FOR MAIN STACK FOR
OCTOBER - DECEMBER 1982

DEPOSITION FACTORS FOR THE MAIN STACK OCT - DEC , 1982

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES 1/M**2							
		S - (1) 0.0	SSW - (2) 22.5	SW - (3) 45.0	WSW - (4) 67.5	W - (5) 90.0	WNW - (6) 112.5	NW - (7) 135.0	NNW - (8) 157.5
1	201.20	9.670E-11	8.600E-14	7.780E-14	2.830E-14	5.620E-13	1.620E-13	2.590E-14	4.180E-14
2	402.30	7.840E-11	4.300E-14	3.890E-14	1.410E-14	1.100E-10	1.750E-11	1.300E-14	2.090E-14
3	804.70	1.110E-10	2.150E-14	1.940E-14	7.070E-15	1.660E-10	4.210E-11	6.800E-15	1.050E-14
4	1207.00	6.190E-11	1.040E-12	2.700E-14	8.100E-15	1.540E-10	4.760E-11	4.320E-15	6.970E-15
5	1609.40	4.710E-11	5.770E-09	7.620E-14	2.770E-14	1.210E-10	4.080E-11	3.240E-15	5.230E-15
6	2414.00	1.790E-10	2.820E-09	1.550E-13	5.630E-14	7.140E-11	2.580E-11	2.160E-15	3.490E-15
7	3218.70	4.880E-10	1.700E-09	2.630E-13	9.570E-14	4.750E-11	1.770E-11	1.620E-15	2.620E-15
8	4023.40	4.860E-10	1.150E-09	2.850E-13	1.040E-13	3.360E-11	1.280E-11	1.300E-15	2.090E-15
9	4828.10	2.960E-10	8.490E-10	1.900E-13	6.900E-14	2.460E-11	9.500E-12	1.080E-15	1.740E-15
10	5632.70	2.120E-10	6.500E-10	1.460E-13	5.330E-14	1.880E-11	7.340E-12	9.260E-16	1.490E-15
11	6437.40	1.690E-10	5.120E-10	1.250E-13	4.540E-14	1.480E-11	5.820E-12	8.100E-16	1.310E-15
12	7242.10	1.400E-10	4.120E-10	1.100E-13	3.990E-14	1.180E-11	4.670E-12	7.200E-16	1.160E-15
13	8046.80	1.260E-10	3.380E-10	1.040E-13	3.770E-14	1.420E-11	3.870E-12	6.480E-16	1.050E-15
14	12070.10	2.030E-10	1.580E-10	1.460E-13	5.330E-14	2.920E-11	1.900E-12	4.320E-16	6.970E-16
15	16093.49	2.060E-10	9.150E-11	3.310E-13	1.200E-13	5.480E-11	1.150E-12	4.420E-15	1.700E-10
16	24140.29	7.470E-11	4.190E-11	1.370E-12	4.970E-13	2.600E-11	5.540E-13	4.700E-14	6.900E-11
17	32187.00	3.500E-11	2.440E-11	3.130E-12	2.060E-12	1.360E-11	6.460E-13	5.960E-13	3.260E-11
18	40233.79	1.980E-11	1.600E-11	4.860E-12	1.160E-11	8.190E-12	1.200E-11	1.620E-12	1.830E-11
19	48280.48	1.270E-11	1.130E-11	5.900E-12	7.290E-12	5.450E-12	3.540E-12	3.390E-12	1.170E-11
20	56327.29	8.760E-12	8.460E-12	1.130E-11	4.970E-12	2.240E-12	2.650E-12	2.530E-12	7.960E-12
21	64373.99	6.380E-12	6.550E-12	9.410E-12	3.590E-12	1.740E-12	2.050E-12	1.960E-12	5.730E-12
22	72420.75	4.910E-12	5.280E-12	7.860E-12	1.730E-12	1.400E-12	1.660E-12	1.580E-12	4.350E-12
23	80467.44	3.860E-12	4.320E-12	6.600E-12	1.420E-12	1.150E-12	1.360E-12	1.300E-12	3.370E-12

RECPT NO.	DOWNWIND DISTANCE METERS	WEIGHTED AVERAGES 1/M**2							
		N - (9) 180.0	NNE - (10) 202.5	NE - (11) 225.0	ENE - (12) 247.5	E - (13) 270.0	ESE - (14) 292.5	SE - (15) 315.0	SSE - (16) 337.5
1	201.20	8.900E-14	1.730E-13	1.640E-13	1.160E-13	1.200E-13	1.020E-13	8.900E-14	4.710E-14
2	402.30	4.450E-14	8.630E-14	8.220E-14	5.810E-14	6.010E-14	5.100E-14	4.450E-14	2.360E-14
3	804.70	2.220E-14	4.320E-14	4.110E-14	2.900E-14	3.010E-14	2.610E-14	2.330E-14	1.180E-14
4	1207.00	1.480E-14	2.880E-14	2.740E-14	1.930E-14	2.000E-14	1.700E-14	1.480E-14	1.350E-14
5	1609.40	1.110E-14	2.160E-14	2.060E-14	1.450E-14	1.500E-14	1.270E-14	1.110E-14	1.940E-14
6	2414.00	7.420E-15	1.440E-14	1.370E-14	9.670E-15	1.000E-14	8.500E-15	7.420E-15	2.460E-14
7	3218.70	5.560E-15	1.080E-14	1.030E-14	7.260E-15	7.510E-15	6.370E-15	5.560E-15	2.970E-14
8	4023.40	4.450E-15	8.630E-15	8.220E-15	5.800E-15	6.010E-15	5.100E-15	4.450E-15	2.830E-14
9	4828.10	3.710E-15	7.190E-15	6.850E-15	4.840E-15	5.010E-15	4.250E-15	3.710E-15	2.070E-14
10	5632.70	3.180E-15	6.170E-15	5.870E-15	4.150E-15	4.290E-15	3.640E-15	3.180E-15	1.670E-14
11	6437.40	2.780E-15	5.400E-15	5.140E-15	3.630E-15	3.760E-15	3.190E-15	2.780E-15	1.440E-14
12	7242.10	2.470E-15	4.800E-15	4.570E-15	3.220E-15	3.340E-15	2.830E-15	2.470E-15	1.270E-14
13	8046.80	2.220E-15	4.320E-15	4.110E-15	2.900E-15	3.010E-15	2.550E-15	2.220E-15	1.180E-14
14	12070.10	1.480E-15	2.880E-15	2.740E-15	1.930E-15	2.000E-15	1.700E-15	1.480E-15	1.040E-14
15	16093.49	1.110E-15	2.160E-15	2.060E-15	1.450E-15	1.500E-15	1.270E-15	1.110E-15	2.630E-12
16	24140.29	7.400E-16	1.440E-15	1.370E-15	9.650E-16	1.000E-15	8.520E-16	7.780E-16	4.740E-12
17	32187.00	5.560E-16	1.080E-15	1.030E-15	7.260E-16	7.510E-16	6.370E-16	5.560E-16	3.160E-12
18	40233.79	4.450E-16	8.630E-16	8.220E-16	1.520E-14	1.250E-13	2.290E-14	6.290E-13	6.620E-12
19	48280.48	3.710E-16	7.190E-16	6.850E-16	2.340E-14	2.260E-13	3.750E-14	1.090E-12	6.350E-12
20	56327.29	3.180E-16	6.170E-16	5.870E-16	3.090E-14	3.330E-13	5.160E-14	1.540E-12	5.850E-12
21	64373.99	8.410E-13	5.400E-16	5.140E-16	3.670E-14	4.280E-13	6.330E-14	1.910E-12	5.260E-12
22	72420.75	8.100E-12	4.800E-16	4.570E-16	3.960E-14	4.820E-13	6.950E-14	2.090E-12	4.620E-12
23	80467.44	7.350E-12	4.320E-16	4.110E-16	4.140E-14	5.200E-13	7.360E-14	2.200E-12	4.040E-12

TABLE 4.1-12

RELATIVE DEPOSITION CONCENTRATIONS PER UNIT
EMISSION FOR MAIN STACK FOR
OCTOBER - DECEMBER 1982

Table 4.2-1

Maximum Individual Locations and Pathways¹
July-December 1982

<u>Pathway</u>	<u>0.5 Miles</u> SE	<u>0.5 Miles</u> NW	<u>2.2 Miles</u> W
Noble Gas Immersion	Yes	Yes	Yes
Inhalation	Yes	Yes	Yes
Fruit & Vegetable Garden	Yes	Yes	Yes
Meat	No	No	No
Cows Milk	No	No	Yes
Goats Milk	No	No	No

1. Yes indicates that the pathway is analyzed.
No indicates that it is not considered.

Table 4.2-2

July-December 1982 Gaseous Release Maximum Individual
Doses From All Pathways For Adults (MREM)

<u>Location</u>	<u>Bone</u>	<u>Liver</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>	<u>Total Body</u>
*0.5 Miles SE	0.079	0.062	0.115	0.062	0.061	0.080	0.118	0.062
0.5 Miles NW	0.067	0.058	0.116	0.057	0.057	0.068	0.113	0.058
2.2 Miles W	0.036	0.035	0.048	0.035	0.035	0.036	0.068	0.035

*Maximum dose location

Table 4.2-3

July-December 1982 Gaseous Release Maximum Individual
Doses From All Pathways For Teenagers (MREM)

<u>Location</u>	<u>Bone</u>	<u>Liver</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>	<u>Total Body</u>
*0.5 Miles SE	0.089	0.062	0.145	0.062	0.068	0.084	0.118	0.063
0.5 Miles NW	0.072	0.058	0.112	0.058	0.061	0.070	0.113	0.058
2.2 Miles W	0.036	0.035	0.053	0.035	0.035	0.036	0.068	0.035

*Maximum dose location

Table 4.2-4

July-December 1982 Gaseous Release Maximum Individual
Doses From All Pathways For Children (MREM)

<u>Location</u>	<u>Bone</u>	<u>Liver</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>	<u>Total Body</u>
*0.5 Miles SE	0.127	0.063	0.186	0.062	0.062	0.080	0.118	0.065
0.5 Miles NW	0.094	0.058	0.137	0.058	0.058	0.068	0.113	0.059
2.2 Miles W	0.038	0.035	0.068	0.035	0.035	0.036	0.068	0.035

*Maximum dose location

Table 4.2-5

July-December 1982 Gaseous Release Maximum Individual
Doses From All Pathways For Infants (MREM)

<u>Location</u>	<u>Bone</u>	<u>Liver</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>	<u>Total Body</u>
*0.5 Miles SE	0.060	0.060	0.077	0.060	0.061	0.060	0.118	0.060
0.5 Miles NW	0.056	0.056	0.074	0.056	0.057	0.056	0.113	0.056
2.2 Miles W	0.036	0.035	0.102	0.035	0.035	0.035	0.068	0.035

*Maximum dose location

Table 4.2-6

July-December 1982 Gaseous Release Maximum Individual
Doses 0.5 Miles SE

<u>Age Group</u>	<u>Bone (MREM)</u>	<u>Liver (MREM)</u>	<u>Thyroid (MREM)</u>	<u>Kidney (MREM)</u>	<u>Lung (MREM)</u>	<u>GI-LLI (MREM)</u>	<u>Skin (MREM)</u>	<u>Total Body (MREM)</u>
Adult	0.079	0.062	0.115	0.062	0.061	0.080	0.118	0.062
Teenager	0.089	0.062	0.145	0.062	0.068	0.084	0.118	0.063
Child	0.127	0.063	0.186	0.062	0.062	0.080	0.118	0.065
Infant	0.036	0.035	0.102	0.035	0.035	0.035	0.068	0.035

TABLE 4.3-1
POPULATION DISTRIBUTION

SECTOR	Distance (Miles/Meters)											45.0 72420.5
	.5 804.7	1.5 2414.0	2.5 4023.4	3.5 5632.7	4.5 7242.0	7.5 12070.1	15.0 24140.2	25.0 40233.6	35.0 56327.0	7.80E+03		
S	0.	3.90E+01	2.08E+02	5.30E+01	2.20E+01	2.39E+03	1.66E+04	2.52E+04	7.80E+03	7.12E+02		
SSW	1.90E+01	0.	2.30E+01	0.	0.	9.98E+02	1.58E+04	7.80E+03	3.16E+02	3.59E+02		
SW	0.	3.90E+01	1.23E+02	6.50E+01	3.49E+02	4.97E+02	1.28E+04	1.42E+05	4.64E+04	4.65E+04		
WSW	0.	7.70E+01	2.36E+02	3.00E+00	2.17E+02	2.52E+03	1.18E+04	5.04E+04	1.37E+05	1.85E+05		
W	5.80E+01	9.50E+01	4.75E+02	1.25E+03	4.52E+03	9.56E+03	1.76E+04	6.05E+04	1.42E+05	3.78E+05		
WNW	1.17E+02	0.	0.	0.	7.11E+02	1.03E+04	2.83E+04	1.65E+05	1.13E+05	1.08E+05		
NW	1.90E+01	0.	0.	0.	8.00E+00	5.65E+03	3.96E+04	2.07E+05	8.21E+05	6.36E+05		
NNW	0.	0.	0.	0.	1.30E+01	1.55E+03	2.66E+04	2.83E+04	1.04E+05	4.14E+05		
N	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.09E+04		
NNE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.		
NE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.		
ENE	0.	0.	0.	0.	0.	0.	5.30E+02	3.48E+03	0.	0.		
E	0.	0.	0.	0.	0.	0.	0.	3.29E+03	3.41E+02	0.		
ESE	0.	0.	1.50E+01	0.	0.	0.	0.	5.88E+03	1.31E+04	0.		
SE	5.70E+02	1.76E+02	4.76E+02	0.	0.	0.	1.24E+03	4.02E+04	5.91E+03	0.		
SSE	1.90E+01	2.10E+02	5.30E+02	2.03E+03	8.19E+02	1.39E+03	1.32E+04	1.95E+04	0.	7.12E+02		

Table 4.3-2

Population Doses Via Major Pathways Resulting From
Gaseous Effluents During July-December 1982

<u>Pathway</u>	<u>Thyroid (MAN-REM)</u>	<u>Total Body (MAN-REM)</u>
Noble Gas Immersion (Gamma)	8.43	8.43
Ground Plane Deposition	0.24	0.24
Inhalation	0.26	0.26

5. OFF-SITE DOSES FROM DIRECT RADIATION

Doses due to direct radiation as measured by thermoluminescent dosimeter for the period July-December 1982 were as follows:

	<u>Average Dose Rate uR/hour</u>
Near Plant (0-0.16 Miles from the Plant)	19.2
Exclusion Area (0.25-0.68 Miles from the Plant)	10.4
Distant Neighborhood (0.7-6.5 Miles from the Plant)	9.0
Background (8-21 Miles from the Plant)	9.1

These measured values indicate a small but measurable dose contribution due to direct radiation at Near Plant locations (within 0.16 miles) but no statistically significant contribution beyond about 0.25 miles.

REFERENCES

1. "Pilgrim Station Unit 1 Appendix Evaluation" Submitted in Accordance with 10 CFR 50 Appendix I, April 1977.
2. Pilgrim Station Environmental Report, Amendment 4, April 1975, pg. 2-329/330.
3. "An Update of Population Distribution Around the Pilgrim Site," prepared for Boston Edison by HMM Associates, July 31, 1981, ppg. 2-3 and 2-7.